



October 16, 2017
File No. 20181850.001A | RAL17R67374

Mr. Craig Haden
North Carolina Department of Transportation
GeoEnvironmental Unit
1020 Birch Ridge Drive
Raleigh, North Carolina 27610

**Reference: UST Closure and Initial Abatement Action Report
TIP Number R-5021
WBS Element Number 41582.1.1
NC 211 from SR 1500 (Midway Road) to NC 87
Parcel # 004
Brunswick County, North Carolina**


Dear Mr. Haden:

Please find enclosed Kleinfelder's report summarizing the underground storage tank (UST) removal activities and initial abatement actions performed at the referenced site. This report summarizes Kleinfelder's field activities, observations, and includes the laboratory reports.

Should questions arise or additional information be required, please contact the undersigned.

Sincerely,
KLEINFELDER, INC.


Joseph C. Hollinger
Staff Professional II


Michael J. Burns, LG
Environmental Program Manager

MJB/MAS:asp
Enclosure



**UST CLOSURE AND INITIAL ABATEMENT ACTION
REPORT**

**3296 SOUTHPORT SUPPLY ROAD
BRUNSWICK COUNTY, NORTH CAROLINA**

**TIP Number R-5021
WBS ELEMENT Number 41582.1.1**

**NC 211 FROM SR 1500 (MIDWAY ROAD) TO NC 87
PARCEL NUMBER 004**

KLEINFELDER PROJECT NUMBER 20181850.001A

OCTOBER 16, 2017

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PROJECT FOR WHICH THIS REPORT WAS PREPARED.**

A Report Prepared for:

North Carolina Department of Transportation
Geotechnical Unit
GeoEnvironmental Section
1020 Birch Ridge Drive
Raleigh, North Carolina 27610

**UST CLOSURE AND INITIAL ABATEMENT ACTION REPORT
BRUNSWICK COUNTY, NORTH CAROLINA
WBS ELEMENT 41582.1.1
TIP R-5021
NC 211(SOUTHPORT SUPPLY ROAD) FROM SR1500 (MIDWAY ROAD)
TO NC 87
PARCEL NUMBER 004**

Prepared by:



Joseph C. Hollinger
Staff Professional II

Reviewed by:



Michael J. Burns, LG
Program Manager

KLEINFELDER, INC.
3200 Gateway Centre Blvd. | Suite 100
Raleigh, North Carolina 27560

October 16, 2017
Kleinfelder Project No. 20181850.001A

UST CLOSURE AND INITIAL ABATEMENT ACTION REPORT

1. SITE IDENTIFICATION

Facility I.D.: 22965

UST Incident Number (if known): Not Assigned

Site Risk: Not Determined

Site Name: Former Midway Trading Post

Site Street Address: 3296 Southport Supply Road
City/Town: Bolivia
Zip Code: 28422
County: Brunswick

Description of Geographical Data Point (e.g., diesel fill port): Center of UST Basin

Location Method (GPS, topographical map, other): Google Earth

Latitude (decimal degrees): 33.972402

Longitude (decimal degrees): -78.130809

Date of Report: October 16, 2017

2. Information about Contacts Associated with the Leaking UST System

UST Owner: Michael D. Richards
Address: 2373 Sunset Harbor Road SE
Bolivia, North Carolina 28422
Phone: 919.707.6871
Attn: Mr. Craig Haden

UST Operator: Unknown

Property Owner: Michael D. Richards
Address: 2373 Sunset Harbor Road SE
Bolivia, North Carolina 28422

Property Occupant: No current occupant

Consultant: Kleinfelder, Inc.
Address: 3200 Gateway Centre Blvd. | Suite 100
Morrisville, NC 27560
Phone: 919.755.5011
Contact: Michael J. Burns, LG

Analytical Laboratory: Pace Analytical Services, Inc.
Address: 9800 Kincey Ave. | Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
State Certification No. 12

3. Information about Release


Date Discovered: September 2017
Estimated Quantity of Release: Unknown
Cause of Release: Unknown
Source of Release (Dispenser/Piping/UST): Unknown
Sizes and Contents of Tanks or Other Containment from which the Release Occurred: Two 8,000-gallon steel USTs

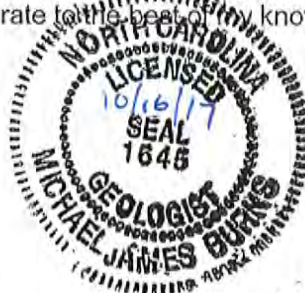
Release Information: The UST system at the referenced site included two 8,000-gallon gasoline USTs. The USTs and associated piping were removed between September 18 and 21, 2017. Laboratory analysis of a groundwater sample from a temporary well installed after UST closure indicated that a release of petroleum had impacted groundwater above the NC 2L Standard.

4. CERTIFICATION

SEAL AND SIGNATURE OF CERTIFYING LICENSED GEOLOGIST

I, Michael J. Burns, a Licensed Geologist for Kleinfelder, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.


Michael J Burns, LG
NC License No. 1645



Kleinfelder, Inc. is permitted to practice geology | engineering in North Carolina. The certification number of the corporation is C521 | F-1312.

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1. EXECUTIVE SUMMARY

The subject site is the NCDOT newly acquired right-of-way located along the west side of the intersection of Southport Supply Road (NC Highway 211) and Midway Road (SR 1500) in Bolivia, Brunswick County, North Carolina (Figure 1). The site is identified adjacent to Brunswick County Parcel ID 20300014. The site was primarily paved with asphalt and had a concrete pad with two visible UST fillports.

During a Preliminary Site Assessment (PSA) performed at the site in September 2013 by Catlin Engineers and Scientists petroleum-impacted soil was identified at concentrations that exceeded the total petroleum hydrocarbon (TPH) diesel range organic (DRO) actions level (at the time) near the eastern corner of the UST basin.

In September 2017, Kleinfelder provided oversight of the removal of two 8,000-gallon gasoline underground storage tanks (USTs), two dispensers and islands, and associated piping located in the NCDOT newly acquired right-of-way. The USTs contained a water/petroleum mixture that was removed prior to UST removal. Upon UST removal, the tanks were observed to be in fairly good condition with minor pitting.

After the removal of the USTs, Kleinfelder provided oversight of the over-excavation of petroleum impacted soil from around the tanks. A total of 105.01 tons of impacted soil was removed from the site. Confirmation sampling indicated no contaminant concentrations in excess of the Soil-to-Groundwater Maximum Contaminant Concentrations (MSCCs) or Residential Cleanup Levels.

Because groundwater was observed in the excavation, a temporary monitoring well was installed on the down-gradient side of the UST basin. Laboratory analysis of the groundwater sample collected from the temporary monitoring well indicated concentrations above the NC 2L Standard.

2. SITE HISTORY AND CHARACTERIZATION

The subject site is the North Carolina Department of Transportation (NCDOT) newly acquired right-of-way located along and northwest of the intersection of Southport Supply Road (NC Highway 211) and Midway Road (SR 1500) in Bolivia, Brunswick County, North Carolina (Figure 1). The site is identified adjacent to Brunswick County Parcel ID 20300014. The site was previously the location of a two-story structure and a canopy over two dispensers. The NCDOT will be purchasing the property as part of a road widening project along Southport Supply Road. The USTs were located in the proposed NCDOT right-of-way (Figure 2). NCDOT contracted Kleinfelder to assist with the removal and disposal of the USTs.

The structure and canopy were demolished prior to the underground storage tank (UST) closure activities. The site was primarily paved with asphalt and concrete with various underground utilities located along Midway Road and Southport Supply Road.

The site was previously a retail gasoline station (Midway Trading Post) with facility ID 22965 and maintained two registered 8,000-gallon steel gasoline USTs that were installed in 1986. The owner of the USTs is listed as Michael Richards. The UST system history is provided in Table 1.

The UST owner information is provided on Table 2. Two dispenser islands were present onsite at the time of closure. Vent pipes were observed in an area to the north of the USTs, beyond the proposed NCDOT right-of-way and construction easement. Metal manhole covers containing the fill ports and access points to the UST pumps were observed within a concrete pad. Two monitoring compliance wells were present within the UST basin.

3. SITE CHECK

In September 2013, Catlin Engineers and Scientists (Catlin) performed a Preliminary Site Assessment (PSA) that included a subsurface assessment to evaluate for the presence of impacted soil related to the two known USTs in the NCDOT newly acquired right-of-way. Catlin had also performed a 2005 PSA on the property and included the findings in the 2013 report. Catlin advanced ten soil borings soil borings (DPT2-01 through DPT2-10) at the former service station, to maximum depths of eight (8) feet below the ground surface (bgs), and collected soil samples for analysis for total petroleum hydrocarbons (TPH) diesel range organics (DRO) and gasoline range organics (GRO). Laboratory analytical results indicated a DRO concentration of 10.3 parts per million (ppm) at the eastern corner of the UST basin between three (3) and four (4) feet below the ground surface (bgs).

Subsurface conditions were generally described by Catlin as grayish brown clayey sand and very fine dark brown sand. Groundwater was generally reported around four (4) feet bgs.

Catlin indicated that during the 2005 PSA, a temporary well was installed on the northeast property boundary and analyzed by EPA methods 602 (volatile organic compounds) and 625 (semi-volatile organic compounds). No concentrations were identified above laboratory reporting limits. Catlin also stated that a file review was conducted for the property and that Applied Resource Management (ARM) had installed and sampled a monitoring well on either the northern portion of the site, or just across the northern site boundary in 2007. The exact location of the well installed by ARM is not shown. No constituent concentrations were identified above laboratory reporting limits.

Catlin noted in the PSA that no evidence of additional USTs were identified during the geophysical survey in the NCDOT right-of-way.

4. UST CLOSURE PROCEDURES

Kleinfelder submitted a UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service, to the North Carolina Department of Environmental Quality (NCDEQ) on September 13, 2017, and requested permission to remove the UST on September 18, 2017. A copy of the UST-3 form is included in Appendix B. The Oak Island Fire Marshal was notified of UST removal activities prior to the work taking place. An email received from the fire marshal stated that because the facility already had a demolition permit, no UST removal permit was necessary. The fire marshal also stated that Joe Snapp, the fire marshal was aware of the closure schedule and may stop by. Mr. Snapp did not come by the site to check the USTs at the time of closure.

The following is a chronological description of the closure activities that were performed between September 19 and 21, 2017. Initial abatement measures are described in Section D.

September 18, 2017

- Kleinfelder personnel met A&D Environmental, Inc. (A&D) of Archdale, North Carolina at the site to begin UST closure activities. NCDOT instructed Kleinfelder to only complete the UST closure activities within the limits of the permanent utility easement.
- A&D began by disconnecting piping at the two fuel dispensers and utilizing a vacuum truck to remove residual product and water from the lines. The dispensers were then unbolted, removed from the concrete islands, and staged onsite.
- Kleinfelder gauged the existing compliance monitoring well on the north side of the UST basin to determine the groundwater depth. Groundwater was measured at 4.31 feet and the total depth of the well was measured at 10 feet. The compliance monitoring well on the south side of the UST basin was unable to be opened, and appeared to have been abandoned.

September 19, 2017

- A&D began removing the concrete and asphalt surface cover over the USTs.
- Following removal of the asphalt/concrete, the soil was removed over USTs.
- Soil around the fill port of UST-2 was noted to have a strong petroleum odor.

- The fill ports were gauged and it was noted that USTs contained residual liquids. A&D's vacuum truck removed about 1,000 gallons of a water/product mix from the two tanks (UST-1 and UST-2). The liquid was manifested and taken offsite for disposal at A&D's facility in Archdale, North Carolina. A copy of the liquid material manifest is included in Appendix B.
- Prior to UST removal, A&D examined the interior of the USTs with an lower explosive level (LEL) meter to determine whether explosive vapors were present within the USTs. The tank atmosphere was determined to be non-explosive before the tanks were removed from the ground.
- The USTs were nested side-by-side and oriented in a northeast-southwest direction (Figure 2). The top of the USTs were located approximately three (3) feet below the ground surface (bgs). The USTs were constructed of steel and were approximately eight (8) feet in diameter and approximately 21 feet long. The UST information is included on Table 1.
- A&D excavated along the sides of the USTs to expose the top of the tanks. The tanks were loosened and removed from the ground. Once removed, loose dirt was scrapped from the tanks so that they could be observed. A visual observation of the tanks did not identify holes, however the exteriors did have minor pitting. The USTs were temporarily stored on the site for further cleaning.
- Upon removal of the USTs, groundwater was observed in the UST basin. Groundwater depth in the excavation was initially gauged at 7 feet below surface grade, however it has risen to 5 feet below surface grade by the following morning.
- During the removal of the USTs from the basin, soil caving along the north and south walls resulted in the compliance monitoring wells collapsing into the UST basin.

September 20, 2017

- A&D washed out the inside of the USTs with water and degreasers while monitoring the atmosphere with an LEL meter. Approximately 500- gallons of water were utilized to clean out both tanks. The liquid was collected by A&D's vacuum truck, manifested and taken offsite for disposal at A&D's facility in Archdale, North Carolina.
- When LEL read zero, A&D personnel cut a hole in the side of the tanks to render them unusable. The USTs were then loaded onto a trailer and taken to Southern Metals

scrap yard in Wilmington for disposal. UST-2 was taken offsite on September 20 on September 21.

- Copies of the tank manifests are included in Appendix C. Photographs of the UST removal are included in Appendix E.
- The remaining product lines between the dispensers and the USTs were removed from the ground. Product lines were noted to be approximately 2.5 feet bgs.
- Vent pipe lines were observed to run from the UST basin to vent pipes located north of the public utility easement. The vent lines were removed up to the public utility easement and cut.

September 21, 2017

- UST-1 was transported offsite, and the product lines, along with the dispenser pumps were removed from the site on September 21, 2017.

A Copy of the Site Investigation Report for Permanent Closure or Change-in-Service of UST form (UST-2) are included in Appendix A.

5. INITIAL RESPONSE AND ABATEMENT

During the PSA/site check performed by Catlin in August 2013, petroleum-related soil impact was detected on the east side of the UST basin. Catlin noted that there may have been up to 210 cubic yards of impacted soil. Following the removal of the USTs, Kleinfelder personnel noted the presence of a petroleum odor along the east and southeast side walls of the excavation. Kleinfelder personnel directed A&D to over-excavate soil from the side walls. Additional excavation activities took place on September 19, 2017.

As soil was excavated, samples were screened with a Photoionization Detector (PID) to minimize the amount of soil that needed to be hauled to a disposal facility. Soil that exhibited PID readings of at least 50 parts per million or where there was visual and/or olfactory evidence of impact, was removed on September 19, temporarily stockpiled onsite, and loaded into dump trucks and hauled to a disposal facility on September 20. Soil was excavated to maximum depths of four (4) to five (5) feet bgs, which is the approximate depth of groundwater. When complete, the UST excavation measured approximately 24 feet wide by 26 feet long with depths ranging from 4 to 12 feet. The 12 foot depth was related to the depth of the USTs. The piping area measured 12 feet long by three feet wide and 3 feet deep. The limits of the excavations are provided on Figure 2.

A total of 105.01 tons of soil was excavated, loaded, and transported offsite for disposal at S&R Farms, LLC in Tabor City, North Carolina. A copy of the transportation manifests and weight tickets are included in Appendix D.

Following the excavation, 10 soil samples (SS-1 through SS-10) were collected from the side walls of the excavation (SS-1 through SS-8) and beneath the former dispenser island and piping (SS-9 and SS-10). Soil samples were collected at 4 feet bgs, which is above the water table.

Bottom samples could not be collected due to the presence of groundwater in the UST basin. The samples were placed into laboratory provided containers, labeled, and maintained on ice until delivered to Pace Laboratories, Inc. in Huntersville, North Carolina. The samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds

(SVOCs) by EPA Method 8270, and for volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) using the Massachusetts Department of Environmental Protection (MADEP) methods. The sample locations are shown on Figure 3. Analytical results are provided in Table 3.

Following soil sample collection, the excavation was backfilled with clean soil and compacted. Backfill activities occurred on September 20 2017. For backfill stabilization purposes approximately 400 gallons of water was removed from the UST basin by A&D's vacuum truck.

The liquid was manifested and taken offsite for disposal at A&D's facility in Archdale, North Carolina. The disposal manifest is included in Appendix B. No stockpiled soil remains on-site.

6. GROUNDWATER INVESTIGATION

On September 21, 2017, Kleinfelder utilized a stainless steel hand auger to install a 1-inch temporary monitoring well (TMW-1) on the east side (down-gradient) of the UST basin. The NCDOT directed Kleinfelder to install a temporary well due to the planned construction activities in the area for the road widening project. The temporary monitoring well was installed immediately down-gradient of the UST basin and to a depth of nine (9) feet bgs. The screen interval was from 0 feet to 9 feet bgs. Groundwater was measured at 4.93 feet bgs in the temporary monitoring well.

The temporary monitoring well was purged of five calculated well volumes using a disposable polyethylene bailer. After given sufficient time to recharge, the well was sampled. The samples were placed into laboratory provided containers, labeled, and maintained on ice until delivered to Pace Laboratories, Inc. in Huntersville, North Carolina. The samples were analyzed for VOCs by EPA Method 6200B, SVOCs by EPA Method 625, and for VPH and EPH using the MADEP method. The location of the temporary monitoring well is shown on Figure 5. Analytical results are provided in Table 4 and the well construction information is provided in Table 5.

The temporary monitoring well was removed from the ground and the boring abandoned with bentonite chips. The boring log and well construction record are included in Appendix F.

7. SAMPLE RESULTS

The laboratory analyses of soil samples SS-1 through SS-10 did not detect contaminant concentrations above the Soil-to-Groundwater or Residential Maximum Soil Contaminant Concentrations (MSCCs).

The laboratory analysis of the groundwater sample from TMW-1 detected contaminant concentrations above the NC 15NCAC .0202L Standard (2L Standard). No contaminant concentrations above the gross contamination levels (GCLs) were detected. Detection above the 2L Standards (results in micrograms per liter [$\mu\text{g/L}$]) were as follows:

- Benzene (41.5), Naphthalene (377), n-Propoylbenzene (72), C09-C22 Aromatics (1,030).

The sample locations are shown on Figure 3, 4, and 5, and the laboratory results are summarized in Table 3 and 4. The estimated horizontal extent of groundwater impact is shown on Figure 5. The laboratory report and associated chain-of-custody document are included in Appendix G.

8. CONCLUSIONS

Based Kleinfelder's field observations, and the results of the laboratory analyses, Kleinfelder presents the following conclusions:

- A PSA report prepared by Catlin in 2013 indicated the presence of soil impact about the state action level on the east side of the UST basin;
- Two 8,000-gallon USTs were closed by removal on September 18 to September 21, 2017. The USTs were observed to be in good condition with no holes observed and minor pitting noted;
- A total of 1,903 gallons of liquid was removed from the USTs, piping, and the excavation;
- A total of 105.01 tons of soil was excavated, manifested and hauled offsite for disposal;
- The excavation was backfilled with clean soil and compacted;
- Confirmation laboratory analysis of soil samples indicated no remaining soil contamination above the Soil-to-Groundwater MSCCs or Residential Cleanup Levels; and
- Confirmation laboratory analysis of soil samples collected from the temporary monitoring well indicated petroleum contaminants in excess of the 2L Standard.

9. LIMITATIONS

Kleinfelder's work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of its profession practicing in the same locality, under similar conditions and at the date the services are provided. Kleinfelder's conclusions, opinions and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, Kleinfelder's clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface studies or field tests, should be performed to reduce uncertainties. Acceptance of this report will indicate that NCDOT has reviewed the document and determined that it does not need or want a greater level of service than provided.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage or treatment of hazardous materials within the meaning of any governmental statute, regulation or order. NCDOT is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment or disposal

of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. NCDOT is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

TABLES

TABLE 1: SITE HISTORY – UST SYSTEM

UST ID Number	Current/ Last Contents *	Previous Contents *	Capacity (in gallons)	Construction Details **	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST ***	Was release associated with the UST System?
UST-1	Unleaded gasoline	unknown	8,000	STI-P3 Steel, single-walled	8.0' x 21'	Single-walled fiberglass piping to dispenser	4/14/1987	Permanently closed by removal (9/19/2017)	Yes
UST-2	Unleaded gasoline	unknown	8,000	STI-P3 Steel, single-walled	8.0' x 21'	Single-walled fiberglass piping to dispenser	4/14/1987	Permanently closed by removal (9/19/2017)	Yes

* Gasoline (unleaded or leaded), diesel, used oil, waste oil, aviation fuel, etc., or pesticides, non-halogenated or halogenated solvents, etc

** Fiberglass (single- or double-walled), steel (single- or double-walled), steel with FRP (single- or double-walled), steel with liner, other, unknown

*** Currently operational, not in use or temporarily closed (specify date), permanently closed in place (specify date), permanently closed by removal (specify date)

Table 2: Site History – UST Owner/Operator and Other Responsible Party Information

Revision Date: _____ Incident Number and Name: _____

UST ID Number	Unknown		Facility ID Number	22965
Name of Owner			Dates of Operation (mm/dd/yy to mm/dd/yy)	
Michael D. Richards			4/14/1986 - 2017	
Street Address				
2373 Sunset Harbor Road SE				
City	State	Zip	Telephone Number	
Bolivia	NC	28422	Unknown	
Name of Operator			Dates of Operation (mm/dd/yy to mm/dd/yy)	
Unknown			Unknown	
Street Address				
2396 Southport Supply Road				
City	State	Zip	Telephone Number	
Bolivia	NC	28422	Unknown	
Incident Number	Not applicable			
Name of Other Responsible Party			Dates of Release(s) (mm/dd/yy to mm/dd/yy)	
Unknown			Unknown	
Street Address				
City	State	Zip	Telephone Number	

Add additional records for all owners, operators and responsible parties as necessary.

TABLE 3: Soil Sample Analytical Summary

Parameter	Analytical Results										Off-Site Disposal	Comparison Criteria		
	Excavation Sample Results											Stockpile	Soil-to-Water MSCC	Residential Cleanup Level
Sample ID	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10				
PID Reading (ppm)	3.7	4.4	0.4	0.2	1.6	0.3	1.4	17.1	0.1	0.1		349.8		
Collection Depth (ft bgs)	4	4	4	4	4	4	4	4	4	4		NA		
Collection Date	9/19/17	9/19/17	9/19/17	9/19/17	9/19/17	9/19/17	9/19/17	9/20/17	9/19/17	9/19/17		9/19/17		
Volatile Organic Compounds by EPA Method 8260														
Acetone	0.16	0.13	0.073 J	0.057 J	0.12	0.032 J	0.099 J	0.32	0.047 J	0.12		0.11	24	14,000
Toluene	ND	0.0020 J	ND	ND	ND	ND	ND	ND	ND	ND		ND	4.3	1,200
2-Butanone (MEK)	ND	0.014 J	0.01 J	0.0079 J	0.011 J	0.0036 J	ND	ND	ND	ND		ND	16	9,385
Methylene Chloride	ND	ND	0.0050 J	ND	0.0028 J	ND	0.0095 J	ND	ND	ND		ND	0.02	85
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.170	4.3	626
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.058	3.3	626
Ethylbenzene	ND	0.0038 J	ND	ND	ND	ND	ND	ND	ND	ND		0.15	4.9	1,560
Isopropylbenzene	ND	0.0025 J	ND	ND	ND	ND	ND	ND	ND	ND		0.061	1.7	1,564
Naphthalene	ND	0.024	0.0019 J	ND	ND	0.0045 J	ND	ND	ND	ND		0.33	0.16	313
n-Propylbenzene	ND	0.0056	ND	ND	ND	ND	ND	ND	ND	ND		0.27	1.7	626
Xylenes	ND	0.015	ND	ND	ND	ND	ND	ND	ND	ND		0.0066 J	4.6	3,129
1,3,5-Trimethylbenzene	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND		0.0039 J	8.3	782
1,2,4-Trimethylbenzene	ND	0.033	ND	ND	ND	ND	ND	ND	ND	ND		0.022	8.5	782
Semi Volatile Organic Compounds by EPA Method 8270														
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.63	6.6	46
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.11 J	290	620
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.058 J	39	88
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.075 J	56	469
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.095 J	270	469
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.12 J	0.004	20
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.21 J	3.6	63
VPH & EPH by MADEP														
C05-C08 Aliphatics	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	68	939
C09-C18 Aliphatics	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		10.8	540	1,500
C19-C36 Aliphatics	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	Considered Immobile	31,000
C09-C22 Aromatics	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		20	31	469

Notes:

- Results displayed in milligram per kilogram (mg/kg)
- ft bgs = Feet below ground surface
- ND = Below laboratory detection limits
- J = Estimated concentration between method detection limits and laboratory reporting limits
- Bold** = Concentration above the Soil-to-Groundwater MSCC
- MSCC = Maximum soil contaminant concentration
- PPM = Parts per million

TABLE 4: Groundwater Sample Analytical Summary

Sample ID	TMW-1	2L	GCL
Collection Date	9/21/17		
Volatile Organic Compounds by EPA Method 6200B			
Benzene	41.5	1	5,000
sec-Butylbenzene	4.9	70	8,500
Ethylbenzene	183	600	84,500
Isopropylbenzene	43.1	70	25,000
Naphthalene	377	6	6,000
n-Propylbenzene	72	70	30,000
Toluene	11.4	600	260,000
1,2,4-Trimethylbenzene	167	400	28,500
Total Xylenes	277.8	500	85,500
Semi Volatile Organic Compounds by EPA Method 625			
Naphthalene	207	6	6,000
VPH & EPH by MADEP			
C05-C08 Aliphatics	195	400	NS
C09-C18 Aliphatics	283	700	NS
C19-C36 Aliphatics	ND	10,000	NS
C09-C22 Aromatics	1030	200	NS

Notes:

Concentrations reported in micrograms per liter (ug/L)

J = Estimated concentration between detection and reporting limits

2L = North Carolina 15A NCAC 2L .0202 Groundwater Quality Standards

GCL = Gross Contaminant Levels

Bold concentration exceeds the 2L Standard

NS = No Standard listed

TABLE 5: Monitoring Well Construction Data and Groundwater Level Information

Well No.	Date Installed	TOC Elevation (feet)	Total Depth	Diameter (inches)	Screen Interval	Water Level Below TOC
TMW-1	9/21/17	NM	9	1	0-9	4.93

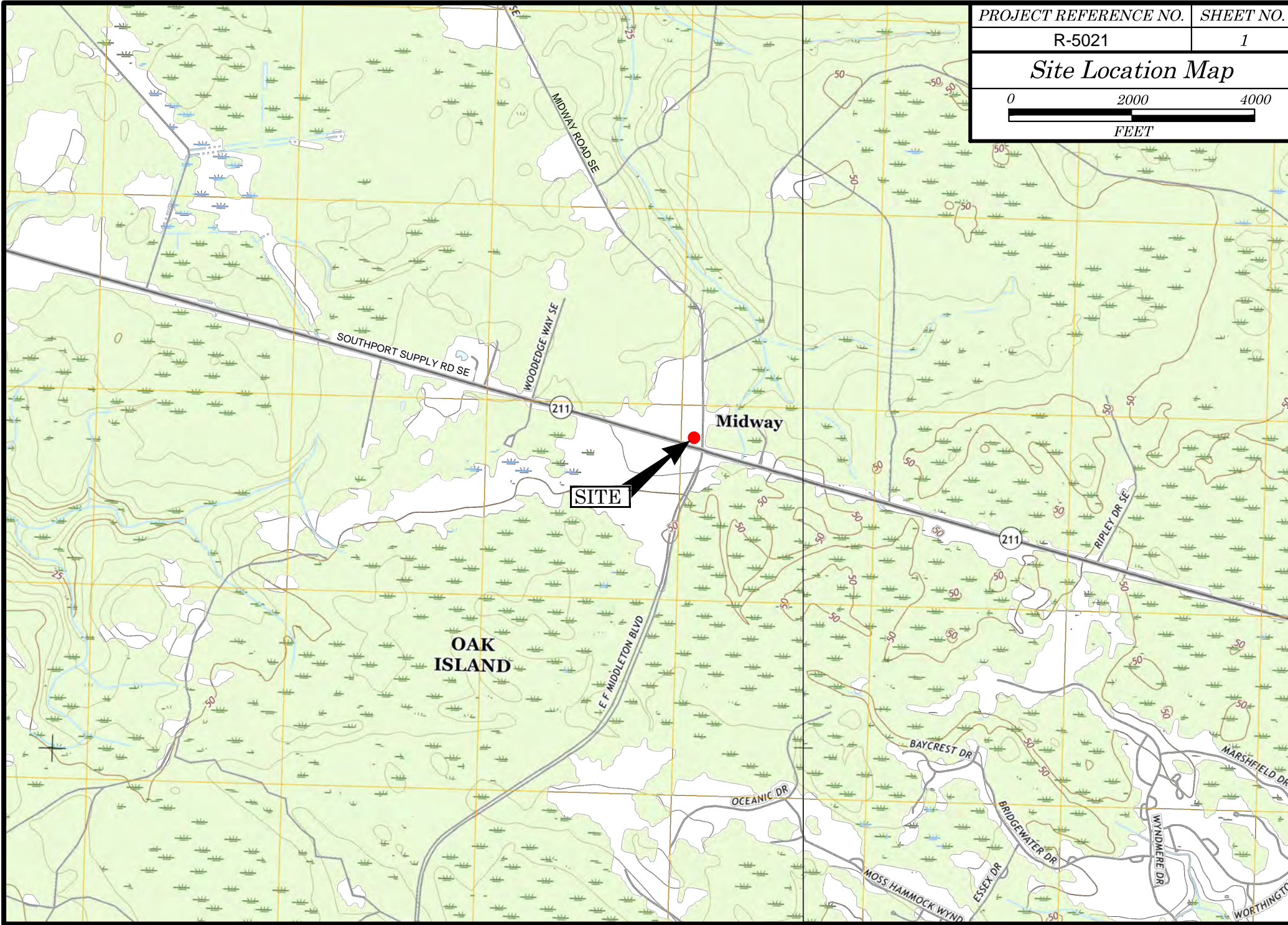
Notes:

TOC = Top of well casing

NM = TOC not measured

FIGURES

PROJECT REFERENCE NO.	SHEET NO.
R-5021	1
Site Location Map	
FEET	

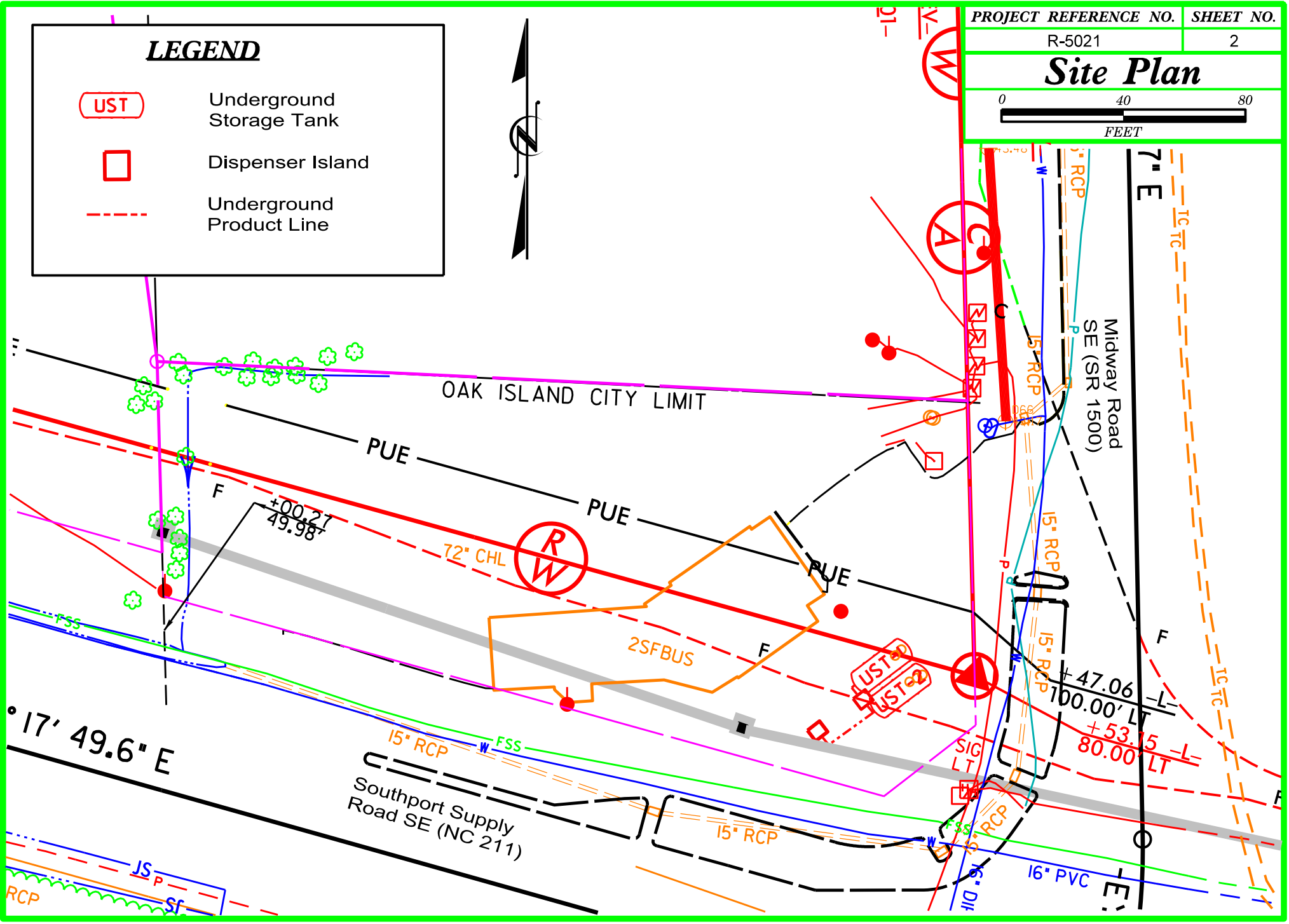


Site Plan



LEGEND

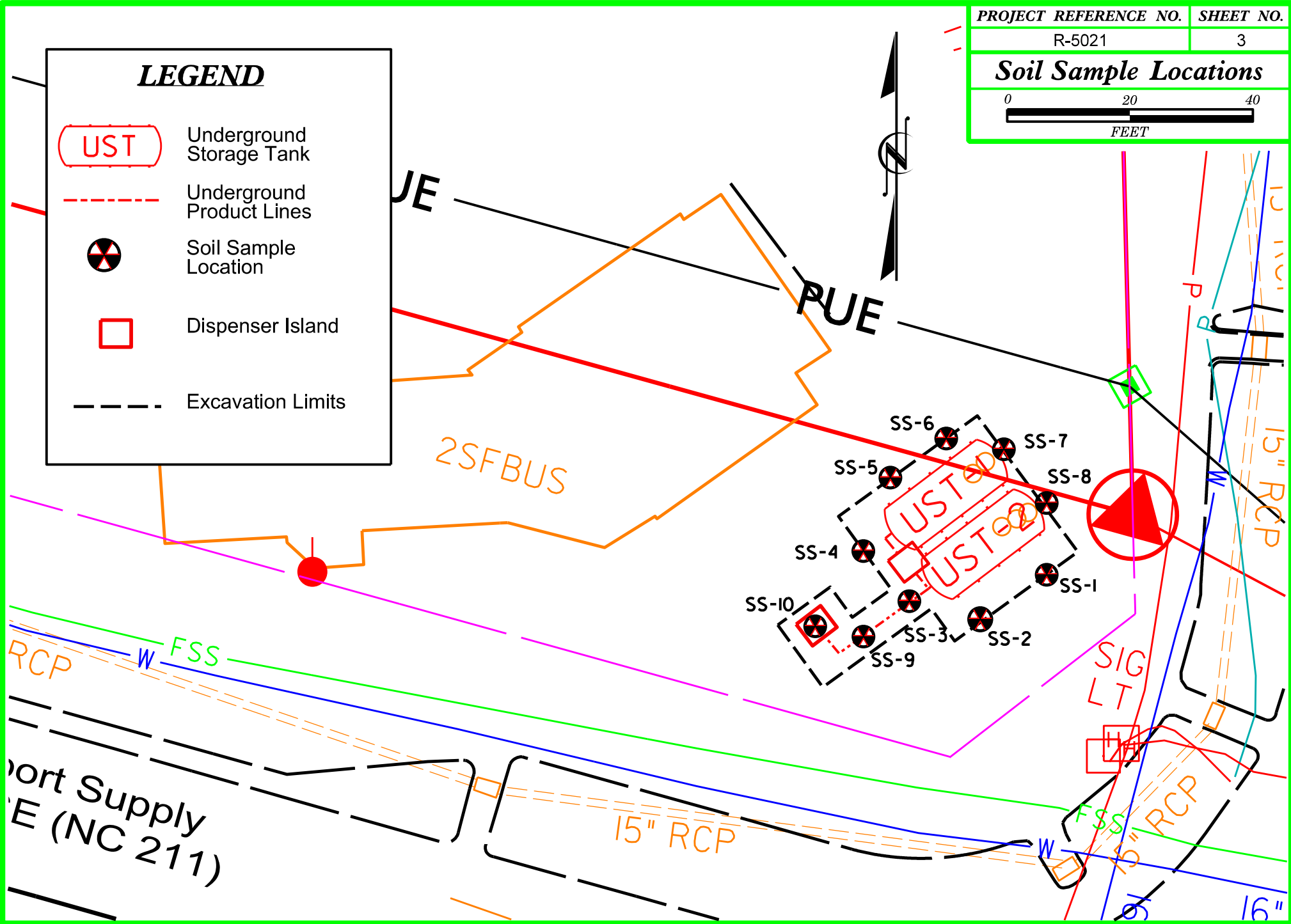
- UST Underground Storage Tank
- Dispenser Island
- Underground Product Line



PROJECT REFERENCE NO.	SHEET NO.
R-5021	3
Soil Sample Locations	
FEET	

LEGEND

- UST Underground Storage Tank
- Underground Product Lines
- Soil Sample Location
- Dispenser Island
- Excavation Limits



Port Supply
E (NC 211)

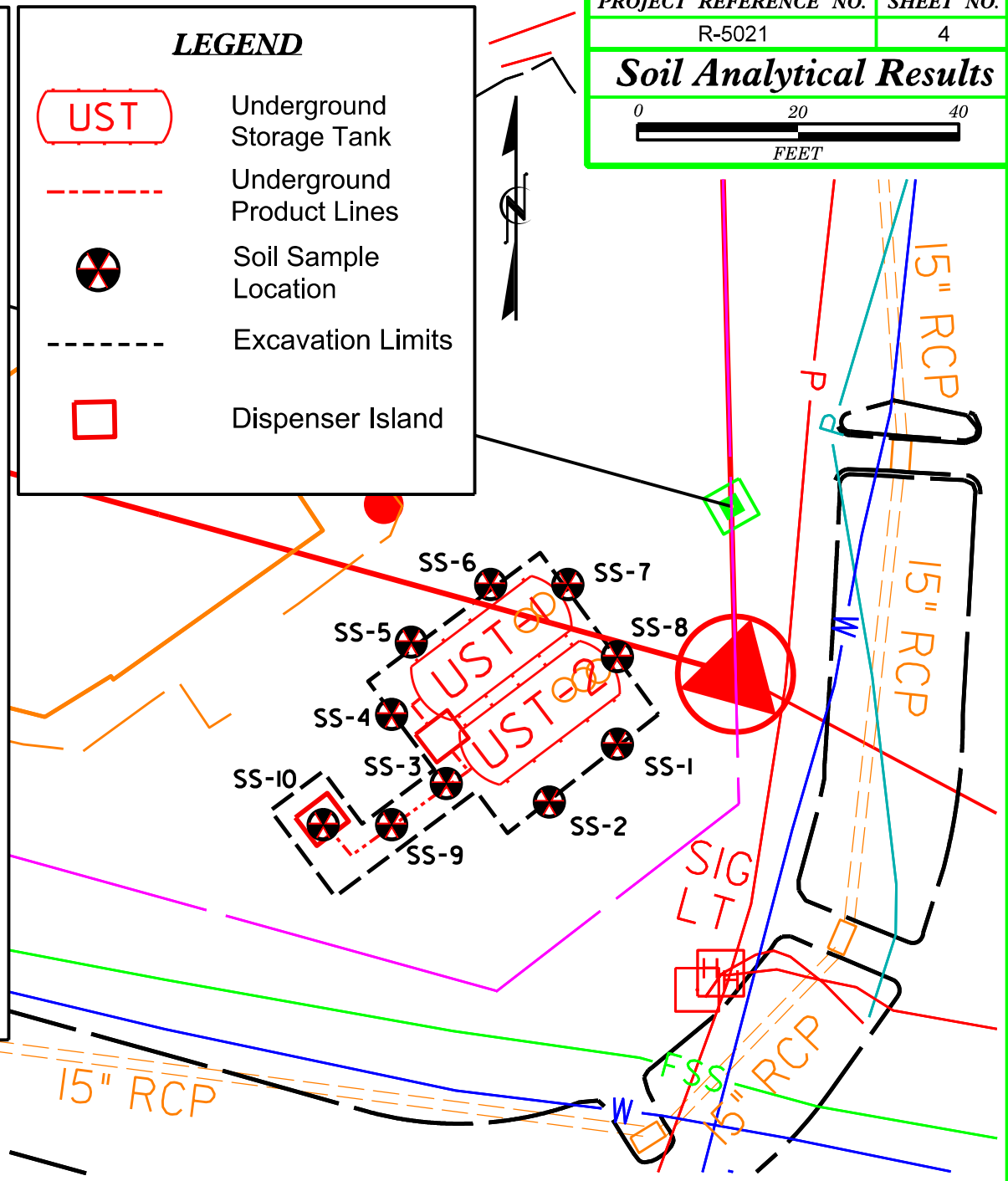
SAMPLE RESULTS

SS-1		SS-5	
Acetone	0.16	Acetone	0.12
SS-2		2-Butanone	0.011 J
Acetone	0.13	Methylene Chloride	0.028 J
Toluene	0.0020 J	SS-6	
2-Butanone	0.014 J	Acetone	0.032 J
Ethylbenzene	0.0038 J	2-Butanone	0.0036 J
Isopropylbenzene	0.0025 J	Naphthalene	0.0045 J
Naphthalene	0.024	SS-7	
n-Propylbenzene	0.0056 J	Acetone	0.099 J
Xylenes	0.015	Methylene Chloride	0.0095 J
1,3,5-Trimethylbenzene	0.008	SS-8	
1,2,4-Trimethylbenzene	0.033	Acetone	0.32
SS-3		SS-9	
Acetone	0.073 J	Acetone	0.047 J
2-Butanone	0.01 J	SS-10	
Methylene Chloride	0.0050 J	Acetone	0.12
Naphthalene	0.0019 J		
SS-4			
Acetone	0.057 J		
2-Butanone	0.0079 J		

Notes:
 Results displayed in milligrams per kilogram (mg/kg)
 J = Estimated concentration between the laboratory reporting limit and the method detection limit

LEGEND

- UST
- Underground Product Lines
- Soil Sample Location
- Excavation Limits
- Dispenser Island



Supply
 NC 211)

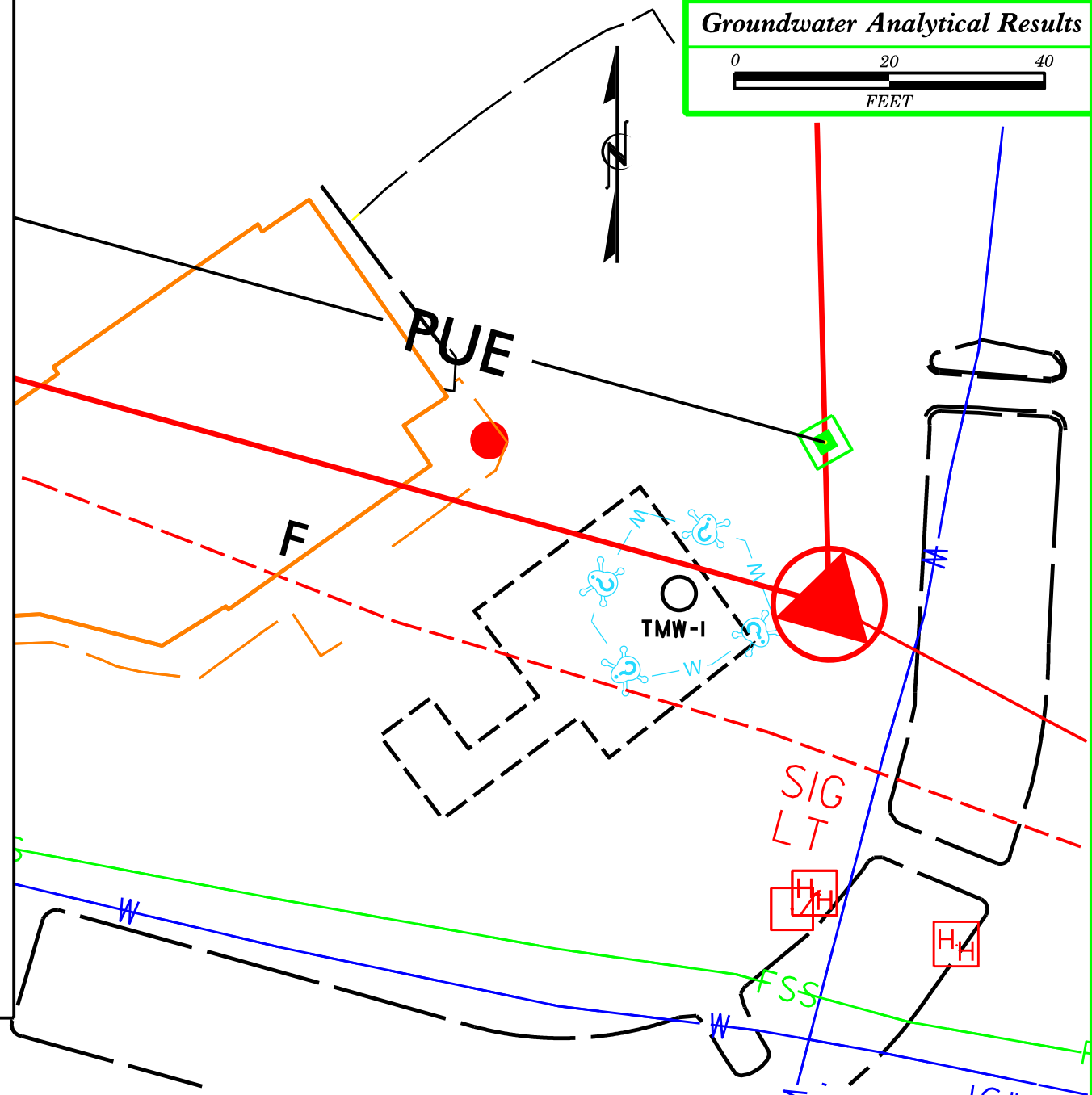
LEGEND

- Excavation Limits
- Monitoring Well
- Potential Extent of Groundwater Contamination

SAMPLE RESULTS

Benzene	41.5
sec-Butylbenzene	4.9
Ethylbenzene	183
Isopropylbenzene	43.1
Naphthalene	377
n-Propylbenzene	72
Toluene	11.4
Xylenes	277.8
1,2,4-Trimethylbenzene	167
C05-C08 Aliphatics	195
C09-C18 Aliphatics	283
C09-C22 Aromatics	1030

Notes:
 All results reported in micrograms per liter (ug/L)
 Bolded results exceed the NC 2L Standard



211)

APPENDIX A

UST-3 NOTICE OF INTENT: UST PERMANENT CLOSURE OF CHANGE-IN-SERVICE, UST-2A SITE INVESTIGATION REPORT FOR PERMANENT CLOSURE OR CHANGE-IN-SERVICE OF USTS (REGISTERED)

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

Return completed form to:

The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY
I.O. # _____
Date Received _____

INSTRUCTIONS (READ THIS FIRST)

Complete and return at least **thirty (30) days** prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a **five (5) working days** notice is acceptable.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Site Checks, Tank Closure and Initial Response*. The guidelines can be obtained at <http://www.wastenotnc.org/web/wm/>. Note: To close tanks in place you must obtain prior approval from the DWM Regional office located in the region where the facility is located.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS		II. LOCATION		
Owner Name (Corporation, Individual, Public Agency, or Other Entity) Michael Richards		Facility Name or Company Midway Trading Post		
Street Address 3296 Southport-Supply Road		Facility ID # (If known) 00-0-0000022965		
City Bolivia	County Brunswick	Street Address 3296 Southport-Supply Road		
State North Carolina	Zip Code 28422	City Bolivia	County Brunswick	Zip Code 28422
Phone Number		Phone Number Facility is out of service		

III. CONTACT PERSONNEL			
Name: Craig Haden	Company Name: NCDOT	Job Title: Geoenvironmental Assistant PM	Phone Number: 919-707-6971


IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE		
1. Contact local fire marshal.	5. Provide a sketch locating piping, tanks and soil sampling locations.	a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
2. Plan entire closure event.	6. Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.	8. Keep closure records for three (3) years.
3. Conduct Site Soil Assessment.	7. If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of	
4. If removing tanks or closing in place, refer to API Publication 2015 <i>Cleaning Petroleum Storage Tanks</i> and 1604 <i>Removal and Disposal of Used Underground Petroleum Storage Tanks</i> .		

V. WORK TO BE PERFORMED BY			
Contractor Name: Jeff Albano		Contractor Company Name: A&D Environmental	
Address: PO Box 484, High Point		State: NC	Zip Code: 27261
Primary Consultant Name: Michael Burns, PG		Primary Consultant Company Name: Kleinfelder, Inc.	
		Phone No: 336-804-0824	
		Consultant Phone No: 919-653-7029	

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE					
Tank ID No.	Size in Gallons	Last Contents	Proposed Activity		Change-In-Service New Contents Stored
			Removal	Closure Abandonment in Place *	
UST-1	8000	Gasoline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
UST-2	8000	Gasoline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE
I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.
Print name and official title: Michael Burns/Environmental Program Manager, Kleinfelder, Inc.

Signature 	Date Signed 9/13/17	SCHEDULED REMOVAL DATE 9/18/2017	Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes
---	------------------------	-------------------------------------	---

UST-2A

Site Investigation Report for Permanent Closure or Change-in-Service of REGISTERED UST



Return completed form to:
NC DEQ / DWM / UST SECTION
1646 MAIL SERVICE CENTER
RALEIGH, NC 27699-1646
ATTN: REGISTRATION & PERMITTING

phone (919) 707-8171 fax (919) 715-1117 <http://www.wastenotnc.org/>

STATE USE ONLY:
 Facility ID #
 Date Received

INSTRUCTIONS (READ THIS FIRST)

- UST permanent closure or change in service must be completed in accordance with the latest version of the *Guidelines for Site Checks, Tank Closure and Initial Response and Abatement*. The guidelines can be obtained at <http://deq.nc.gov/about/divisions/waste-management/waste-management-permit-guidance/underground-storage-tanks-section>.
- Permanent closure:** Complete all sections of this form.
- Change-in-service:** Where a UST system will be converted from storing a regulated substance to a non-regulated substance, complete sections I, II, III, IV, and VI
- For more than 5 registered UST systems, attach additional forms as needed
- Tank Fee Refund: An annual tank fee may be refunded for a tank for which a tank fee was not required. An owner or operator must submit a written request and include: (1) contact information, (2) federal identification # or SSN, and (3) a copy of UST-2 form. The annual tank fee will be prorated based on the date of permanent closure.**
- UNREGISTERED USTs use Form UST-2B

I. OWNERSHIP OF TANKS		II. LOCATION OF TANKS	
Owner Name (Corporation, Individual, Public Agency, or Other Entity) Michael Richards		Facility Name or Company Midway Trading Post	
Street Address 3296 Southport-Supply Road		Facility ID # (If known) 00-0-0000022965	
City Bolivia	County Brunswick	Street Address 3296 Southport-Supply Road	
State North Carolina	Zip Code 28422	City Bolivia	County Brunswick
Phone Number		Phone Number facility is out of service	

III. CONTACT PERSONNEL			
Contact for Facility: Craig Haden		Job Title: GeoEnv Project Man <input checked="" type="checkbox"/>	Phone #: 919-707-6871
Closure Contractor Name: Jeff Albano	Closure Contractor Company: A&D Environmental	Address: PO Box 484, High Po <input checked="" type="checkbox"/>	Phone # 336-804-0824
Primary Consultant Name: Michael Burns	Primary Consultant Company: Kleinfelder, Inc.	Address: 3200 Gateway Centre <input checked="" type="checkbox"/>	Phone # 919-653-7029

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS UNREGISTERED USTs use Form UST-2B							V. EXCAVATION CONDITION					
Tank ID No.	Size in Gallons	Last Contents	Last Use Date	Permanent Close Date	Method of Permanent Closure: Indicate REMOVED or enter fill material, such as foam/ concrete/ sand	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
UST-1	8,000	gasoline	<2017	9/19/17	REMOVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UST-2	8,000	gasoline	<2017	9/19/17	REMOVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VI. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative
 Joseph C. Hollinger

Signature *Joseph C. Hollinger* Date Signed 10/09/17

APPENDIX B
LIQUID DISPOSAL MANIFEST



A&D Environmental Services

Bill of Lading / Material Manifest

A&D Job No: **382658** Generator ID Number _____ Page 1 of _____ Emergency Response Phone _____ Tracking Number **18514**

Generator's Name and Mailing Address _____ Generator's site address (if different from mailing address) _____

329 1/2 Southport - Supply Rd
Bohemia N.C.

Transporter 1 2 Company Name **A&D Environmental Services, Inc.** US EPA ID No: NCD986232221
 Transporter 1 2 Company Name **A&D Environmental Services (SC), LLC** US EPA ID No: SCD987598331

Designated Facility A&D Environmental Services, Inc. 2718 Uwharrie Road Archdale, NC 27263 336-434-7750 NCD986232221	Designated Facility A&D Environmental Services, Inc. 3149 Lear Drive Burlington, NC 27215 336-229-0058 NCR000138628	Designated Facility A&D Environmental Services (SC), LLC 1741 Calks Ferry Road Lexington, SC 29073 803-957-9175 SCD987598331	Designated Facility A&D Environmental Services (SC), LLC 1321 White Horse Road, Suite C Greenville, SC 29605 864-234-6055
--	---	--	--

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Petroleum Contact Water	1	TT	19036A		
Petroleum Products for Recycle						
<input checked="" type="checkbox"/>	NA1993, Diesel fuel, 3, III					ERG# 128
<input checked="" type="checkbox"/>	NA1993, Fuel oil (No. 1, 2, 4, 5 or 6), 3, III					ERG# 128
<input checked="" type="checkbox"/>	UN1203, Gasoline, 3, II					ERG# 128
	USED OIL (Not a USDOT Hazardous Material)					
<input checked="" type="checkbox"/>	Petroleum Contact Water (Not a USDOT Hazardous Material)	1	TT			

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)	Common Name	Discrepancy
<input checked="" type="checkbox"/>					RQ, UN2809, Mercury contained in manufactured articles, 8, III	ERG# 172	Mercury Containing Articles
<input checked="" type="checkbox"/>					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts
<input checked="" type="checkbox"/>					UN2800, Batteries, wet, nonspillable, 8, III	ERG# 154	Sealed Lead Acid Batteries
<input checked="" type="checkbox"/>					UN2794, Batteries, wet, filled with acid, 8, III	ERG# 154	Lead Acid Batteries
<input checked="" type="checkbox"/>					UN2795, Batteries, wet, filled with alkali, 8, III	ERG# 154	Wet NiCad Batteries
<input checked="" type="checkbox"/>					UN3090, Lithium batteries, 9, II	ERG# 138	Lithium Batteries
<input checked="" type="checkbox"/>					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	Alkaline Batteries
<input checked="" type="checkbox"/>					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	NiCad Batteries
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))		Fluorescent lamps 4' or <
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))		Fluorescent lamps 4'
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))		Circular/U-tube lamps
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))		Compact Lamps
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))		Shattershield
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))		HID/MV/UV Lamps
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))		Incandescent Lamps
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts
					Electronic Equipment for Recycle (Not DOT-Regulated)		Electronics

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Offoror's Printed/Typed Name Joseph C. Williams	Signature <i>Joseph C. Williams</i>	Month 9	Day 22	Year 17
Transporter 1 Printed/Typed Name Ryan Johnson	Signature <i>Ryan Johnson</i>	Month 9	Day 22	Year 17
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

Discrepancy Indication / Additional Information:

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name Travis C. [Signature]	Signature <i>Travis C. [Signature]</i>	Month 09	Day 22	Year 17
--	---	--------------------	------------------	-------------------

APPENDIX C
UST DISPOSAL CERTIFICATES

382658



Environmental Services, Inc.

P.O. Box 484 • High Point, NC • Phone (336) 434-7750 • FAX (336) 434-7752

TANK DISPOSAL MANIFEST

1) Tank Owner/Authorized Representative: Name and Mailing Address 3296
South Port Supply Rd, Bolivia NC

2) Tank Owner/Authorized Representative: Contact Joseph Hollinger
 Phone#: 919 716 9073

3) Description Of Tanks:

Tank No.	Capacity	Previous Contents	Comments
# 1	8,000	GASOLINA	STEEL CLEANED ON SITE

4) Tank Owner/Authorized Representative Certification: The undersigned certifies that the above listed storage tanks have been removed from the premises of the tank owner.

x Joseph C Hollinger Joseph C Hollinger 9/20/17
 Printed/Typed Name Signature Month/Day/Year

5) Transporter: The undersigned certifies that the above listed storage tanks have been transported to A&D Environmental and Industrial Services, 2718 Uwharrie Road, Archdale, N.C. 27263.

Stephen A Schumborg [Signature] 9-20-17
 Printed/Typed Name Signature Month/Day/Year

6) Disposal Certification: The undersigned certifies that the above-named storage tank(s) have been cut into scrap pieces and accepted by the metal recycling facility.

Recycling Facility: Southern Metals

_____ 9/20/17
 Printed/Typed Name Signature Month/Day/Year



382658

Environmental Services, Inc.

P.O. Box 484 • High Point, NC • Phone (336) 434-7750 • FAX (336) 434-7752

TANK DISPOSAL MANIFEST

1) Tank Owner/Authorized Representative: Name and Mailing Address 3296
South Post Supply Rd, Bolivia N.C.
Michael Richards

2) Tank Owner/Authorized Representative: Contact ~~Michael Richards~~ Joseph C Wallinger
 Phone#: ~~919 916 9073~~ 919 916 9073

3) Description Of Tanks:

Tank No.	Capacity	Previous Contents	Comments
#2	8,000	Gasolina	Steel

4) Tank Owner/Authorized Representative Certification: The undersigned certifies that the above listed storage tanks have been removed from the premises of the tank owner.

X Joseph C Wallinger Joseph C Wallinger 9/20/17
 Printed/Typed Name Signature Month/Day/Year

5) Transporter: The undersigned certifies that the above listed storage tanks have been transported to A&D Environmental and Industrial Services, 2718 Uwharrie Road, Archdale, N.C. 27263.

 Printed/Typed Name Signature Month/Day/Year

6) Disposal Certification: The undersigned certifies that the above-named storage tank(s) have been cut into scrap pieces and accepted by the metal recycling facility.

Recycling Facility: Southern Metals

 Printed/Typed Name Signature Month/Day/Year
9/21/17

APPENDIX D
SOIL DISPOSAL MATERIAL MANIFESTS AND WEIGHT TICKETS

HT7
FL11-62,620

EMPTY-25,620

NON-HAZARDOUS WASTE MANIFEST

Approved
By: Michael Burns on 9/29/2017 2:57 PM

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>Not Applicable</i>	Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>NC DOT 3296 Southport Supply Rd Polivia, NC</i>				
5. Transporter 1 Company Name <i>HERZ</i>	6. US EPA ID Number <i>Not Applicable</i>	A. State Transporter's ID	B. Transporter 1 Phone <i>910-640-2608</i>	
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID	D. Transporter 2 Phone	
9. Designated Facility Name and Site Address <i>S & R FARMS, LLC MONROE ENZOR RD. FAIR BLUFF, NC 28439</i>		10. US EPA ID Number <i>Not Applicable</i>	E. State Facility's ID	
		F. Facility's Phone <i>910-640-2608</i>		
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. PETROLEUM CONTAMINATED SOILS		No. <i>1</i> Type <i>DT</i>	<i>37,000</i>	<i>T</i>
b.		<i>(18.5 TONS)</i>		
c.		NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2018 RYAN COX <i>Ryan Cox</i> INVALID UNLESS SIGNED		
d.				
G. Additional Descriptions for Materials Listed Above <i>EMERGENCY PHONE # 910-625-5012 HERZ Job # W17503</i>		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name <i>Joseph C Gollinger</i>		Signature <i>Joseph C Gollinger</i>	Date Month Day Year <i>9 20 17</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name <i>Brody Williams</i>		Signature <i>Brody Williams</i>	Date Month Day Year <i>9 20 17</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name		Signature	Date Month Day Year	
19. Discrepancy Indication Space				
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name <i>RYAN COX</i>		Signature <i>Ryan Cox</i>	Date Month Day Year <i>9 20 17</i>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

By: Maria Saliba on 9/29/2017 at 5:03 PM
AP Approval

WEIGHT TICKET

122687

DRIVER ON

DRIVER OFF

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2018
RYAN COX 41409
Ry-a
INVALID UNLESS SIGNED

GROSS 62,620
TARE 25,620
NET 37,000 (18.5 TONS)

SELLER BUYER HERR CUSTOMER NO. HERR
ADDRESS NC DOT - Solivia NC CITY
COMMODITY Petroleum Soil PRICE DATE 9-20-17

REMARKS
SHIPPER HERR GROSS 62,620
WEIGHER NET 37,000 (18.5 TONS)
TARE 25,620

Approved
By: Michael Burns on 9/29/2017 at 2:41 PM

HTT
 FL11-63,380 Empty-25,620

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

Approved
 By: Michael Burns on 9/29/2017 2:27:11 PM

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. Not Applicable		Manifest Document No.		2. Page 1 of 1	
3. Generator's Name and Mailing Address NC DOT 3296 Southport / Supply Rd Bolivia, NC				Generator's Phone ()			
5. Transporter 1 Company Name HERR, INC		6. US EPA ID Number Not Applicable		A. State Transporter's ID		B. Transporter 1 Phone 910-640-2607	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address S & R FARMS, LLC MONROE ENZOR RD. FAIR BLUFF, NC 28439 P.O. BOX 100 TABOR CITY, NC				10. US EPA ID Number Not Applicable		E. State Facility's ID	
				F. Facility's Phone 910-640-2608			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	14. Unit Wt./Vol.
a. PETROLEUM CONTAMINATED SOILS				1 No. 1 DT		31,760	T
b.						(18.88 TONS)	
c.						NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2016 RYAN COX RY-C	41409
d.						INVALID UNLESS SIGNED	
G. Additional Descriptions for Materials Listed Above EMERGENCY PHONE # 910-625-5012 HERR Job # W17503				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Joseph C Wallinger						Signature Joseph C Wallinger	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date 9/29/17	
Printed/Typed Name Brody Lillians						Signature Brody Lillians	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date 9/20/17	
Printed/Typed Name						Signature	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.						Date 9/20/17	
Printed/Typed Name RYAN COX						Signature RY-C	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

AP Approval
By: Maria Saliba on 9/29/2017 at 5:03 PM

122686

WEIGHT TICKET

DRIVER ON
DRIVER OFF

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2018
RYAN COX 125-9 41408
INVALID UNLESS SIGNED

GROSS 63,380
TARE 25,620
NET 37,760 (18,887 tons)

SELLER BUYER HERR
ADDRESS NC DOT - RYDOLIVIA NC
COMMODITY Petroleum 1017
REMARKS _____

CUSTOMER NO. HERR
CITY _____
PRICE _____ DATE 9-20-17

SHIPPER HERR
WEIGHER _____

GROSS 63,380
TARE 25,620
NET 37,760 (18,887 tons)

Approved
By: Michael Burns on 9/29/2017 at 2:41 PM

Full-58,420

Enty-26,160

NON-HAZARDOUS WASTE MANIFEST

Approved
By: Michael Burns on 9/29/2017 9:24 PM

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>Not Applicable</i>	Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>NE DOT 3294 Southport Supply Road Solivia, NC</i>				
Generator's Phone ()				
5. Transporter 1 Company Name <i>HEPR, INC</i>	6. US EPA ID Number <i>Not Applicable</i>	A. State Transporter's ID	B. Transporter 1 Phone <i>910-640-2607</i>	
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID	D. Transporter 2 Phone	
9. Designated Facility Name and Site Address <i>S & R FARMS, LLC MONROE ENZOR RD. FAIR BLUFF, NC 28439</i>		10. US EPA ID Number <i>Not Applicable</i>		E. State Facility's ID
P.O. BOX 100 TABOR CITY, NC		F. Facility's Phone <i>910-640-2608</i>		
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. PETROLEUM CONTAMINATED SOILS		No. <i>1</i> Type <i>DT</i>	<i>32,260</i>	<i>T</i>
b.			<i>(16.13 TONS)</i>	
c.			NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2018 RYAN COX <i>Ry-C</i> 41409 INVALID UNLESS SIGNED	
d.				
G. Additional Descriptions for Materials Listed Above EMERGENCY PHONE # 910-625-5012 <i>HEPR Job # W17503</i>		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
<i>Joseph C Wellingar</i>		<i>Joseph C Wellingar</i>		Date <i>9/20/2017</i>
Printed/Typed Name <i>Stephen A Schomburg</i>		Signature <i>Stephen A Schomburg</i>		Month Day Year <i>9 20 2017</i>
17. Transporter 1 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name <i>X Paul Hathaway</i>		Signature <i>X Paul Hathaway</i>		Month Day Year <i>9 20 2017</i>
18. Transporter 2 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name <i>Ryan Cox</i>		Signature <i>Ry-C</i>		Date <i>9 20 17</i>

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

AP Approval
By: Maria Saliba on 9/29/2017 at 5:03 PM

122685

WEIGHT TICKET

DRIVER ON

DRIVER OFF

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2018
RYAN COX 41408
R-9

INVALID UNLESS SIGNED

GROSS 58,420
TARE 26,160
NET 32,260 (16.13 TONS)

SELLER BUYER HERP, INC CUSTOMER NO. HERP
ADDRESS NC DOT - SYLVIA, NC CITY
COMMODITY Petroleum Soil PRICE DATE 9-20-17

REMARKS _____

GROSS 58,420
TARE 26,160
NET 32,260 (16.13 TONS)

SHIPPER HERP

WEIGHER _____

Approved
By: Michael Burns on 9/29/2017 at 2:41 PM

Full - 62,500

Emt 5 - 26,160

NON-HAZARDOUS WASTE MANIFEST

Approved
By: Michael Burns on 9/29/2017 2:08:47 PM

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>Not Applicable</i>	Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>NC DOT 3296 Southport Supply Rd Polivia, NC</i>				
5. Transporter 1 Company Name <i>HERR, INC</i>		6. US EPA ID Number <i>Not Applicable</i>	A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter 1 Phone <i>910-640-2608</i>	
9. Designated Facility Name and Site Address <i>S & R FARMS, LLC MONROE ENZOR RD. FAIR BLUFF, NC 28439</i>		10. US EPA ID Number <i>Not Applicable</i>	C. State Transporter's ID	
			D. Transporter 2 Phone	
			E. State Facility's ID	
			F. Facility's Phone <i>910-640-2608</i>	
11. WASTE DESCRIPTION		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. PETROLEUM CONTAMINATED SOILS		<i>1 DT</i>	<i>36,340</i>	<i>T</i>
b.			<i>(18.17 Tons)</i>	
c.			NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2018	
d.			RYAN COX <i>Ry-G</i> INVALID UNLESS SIGNED	
G. Additional Descriptions for Materials Listed Above EMERGENCY PHONE # 910-625-5012 <i>HERR Job # W/7503</i>		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name <i>Joseph C. Wolfinger</i>		Signature <i>Joseph C. Wolfinger</i>	Date <i>9/20/2017</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>Paul Hathaway</i>		Signature <i>Paul Hathaway</i>	Date <i>9/20/2017</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature	Date	
19. Discrepancy Indication Space				
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name <i>RYAN COX</i>		Signature <i>Ry-G</i>	Date <i>9/20/17</i>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



AP Approval
By: Maria Saliba on 9/29/2017 at 5:03 PM

WEIGHT TICKET

122684

DRIVER ON

DRIVER OFF

**NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2018
RYAN COX 123-G 41409
INVALID UNLESS SIGNED**

GROSS 62,500
TARE 26,160
NET 36,340 (18,17 TONS)

SELLER BUYER HERR CUSTOMER NO. HERR
ADDRESS NC DOT - Selixia, NC CITY
COMMODITY Petroleum Soil PRICE DATE 9-20-17
REMARKS

SHIPPER HERR GROSS 62,500
WEIGHER NET 36,340 (18,17 TONS)
TARE 26,160

Approved
By: Michael Burns on 9/29/2017 at 2:41 PM

Full-64, 720 Entry-26,160

NON-HAZARDOUS WASTE MANIFEST

Approved
By: Michael Burns on 9/29/2017 3:37 PM

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>Not Applicable</i>	Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>NC DOT 3296 Southport Spdy, NC Bolivia NC</i>				
Generator's Phone ()				
5. Transporter 1 Company Name <i>HEPP, INC</i>	6. US EPA ID Number <i>Not Applicable</i>	A. State Transporter's ID		
7. Transporter 2 Company Name		B. Transporter 1 Phone <i>910-640-2608</i>		
		C. State Transporter's ID		
		D. Transporter 2 Phone		
9. Designated Facility Name and Site Address <i>S & R FARMS, LLC MONROE ENZOR RD. FAIR BLUFF, NC 28439</i>		10. US EPA ID Number <i>Not Applicable</i>	E. State Facility's ID	
		F. Facility's Phone <i>910-640-2608</i>		
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. PETROLEUM CONTAMINATED SOILS		No. <i>1</i> Type <i>DT</i>	<i>38,560</i>	<i>+</i>
b.			<i>(19.28 TONS)</i>	
c.			NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2018 <i>RYAN CO</i> <i>72-C</i> 41408 INVALID UNLESS SIGNED	
d.				
G. Additional Descriptions for Materials Listed Above EMERGENCY PHONE # 910-625-5012 <i>Here job # W17503</i>		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name <i>Joseph C Bellinger</i>		Signature <i>Joseph C Bellinger</i>	Date <i>9/20/2017</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name <i>Paul Hathaway</i>		Signature <i>Paul Hathaway</i>	Date <i>9/20/2017</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name		Signature	Date	
19. Discrepancy Indication Space				
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name <i>TRUCK CO</i>		Signature <i>TRUCK CO</i>	Date <i>9/20/17</i>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

By: Maria Saliba on 9/29/2017 at 5:03 PM
AP Approval

122683

WEIGHT TICKET

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2018
RYAN COX 1276 41409
INVALID UNLESS SIGNED

DRIVER ON
DRIVER OFF

GROSS 64,720
TARE 26,160
NET 38,560 (19,287.5)

SELLER BUYER HERZ CUSTOMER NO. HERZ
ADDRESS NC DOT - Solivia, NC CITY
COMMODITY Petroleum Soil PRICE DATE 9-20-17
REMARKS

SHIPPER HERZ GROSS 64,720
WEIGHER NET 38,560 (19,287.5)
TARE 26,160

Approved
By: Michael Burns on 9/29/2017 at 2:41 PM

HT7
FL11-53,720

Empty- 25,620

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

Approved
By: Michael Burns on 9/29/2017 3:41 PM

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>Not Applicable</i>	Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>NE DOT 3296 Southport Supply Rd Polivia, NC</i>				
Generator's Phone ()				
5. Transporter 1 Company Name <i>HEPR</i>	6. US EPA ID Number <i>Not Applicable</i>	A. State Transporter's ID	B. Transporter 1 Phone <i>910-640-2608</i>	
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID	D. Transporter 2 Phone	
9. Designated Facility Name and Site Address <i>S & R FARMS, LLC MONROE ENZOR RD. FAIR BLUFF, NC 28439</i>		10. US EPA ID Number <i>Not Applicable</i>	E. State Facility's ID	
P.O. BOX 100 TABOR CITY, NC		F. Facility's Phone <i>910-640-2608</i>		
11. WASTE DESCRIPTION		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. PETROLEUM CONTAMINATED SOILS		<i>1 DT</i>	<i>28,100</i>	<i>T</i>
b.			<i>(14.05 TONS)</i>	
c.		NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2018 RYAN COX <i>TC-9</i> 41409 <u>INVALID UNLESS SIGNED</u>		
d.				
G. Additional Descriptions for Materials Listed Above EMERGENCY PHONE # 910-625-5012 HEPR Job # W17503		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
<i>Joseph C Wallinger</i>		<i>Joseph C Wallinger</i>		Date <i>9/20/17</i>
Printed/Typed Name		Signature		Month Day Year
<i>Stephen A Schumburg</i>		<i>Stephen A Schumburg</i>		<i>9/20/17</i>
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Date
<i>Brody Williams</i>		<i>Brody Williams</i>		<i>9/20/17</i>
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Date
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name		Signature		Date
<i>RYAN COX</i>		<i>TC-9</i>		<i>9/20/17</i>

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

AP Approval
By: Maria Saliba on 9/29/2017 at 5:03 PM

122688

WEIGHT TICKET

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2018
RYAN COX 123-234 41409
VALID UNLESS SIGNED

DRIVER ON
DRIVER OFF

GROSS 53,720
TARE 25,620
NET 28,100 (14.05 TONS)

SELLER BUYER HGER
ADDRESS NCDOT - Solivia, NC
COMMODITY Petroleum Soil
CUSTOMER NO. HGER
CITY
PRICE DATE 9-20-17

REMARKS

SHIPPER HGER
WEIGHER
GROSS 53,720
TARE 25,620
NET 28,100 (14.05 TONS)

Approved
By: Michael Burns on 9/29/2017 at 2:41 PM

APPENDIX E
PHOTOGRAPHS



9/18: View of the site.



9/18: View of public utility easement and power line markings.

Original in Color



PROJECT NO.:	20181850.
DRAWN:	October 2017
DRAWN BY:	JCH
CHECKED BY:	MB
FILE NAME:	AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-1



9/18: Removing dispenser pumps.



9/18: Removing residual liquid from the product lines.

Original in Color



PROJECT NO.: 20181850.
 DRAWN: October 2017
 DRAWN BY: JCH
 CHECKED BY: MB
 FILE NAME: AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-2



9/19: Removing concrete over USTs.



9/19: Excavating around USTs.

Original in Color



PROJECT NO.:	20181850.
DRAWN:	October 2017
DRAWN BY:	JCH
CHECKED BY:	MB
FILE NAME:	AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-3



9/19: UST-2 uncovered.



9/19: Cleaning UST-2.

Original in Color



PROJECT NO.:	20181850.
DRAWN:	October 2017
DRAWN BY:	JCH
CHECKED BY:	MB
FILE NAME:	AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-4



9/19: Removing UST-2.



9/19: Groundwater observed in the excavation.

Original in Color



PROJECT NO.:	20181850.
DRAWN:	October 2017
DRAWN BY:	JCH
CHECKED BY:	MB
FILE NAME:	AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-5



9/19: Cleaning UST-1.



9/19: Removing UST-1.

Original in Color



PROJECT NO.:	20181850.
DRAWN:	October 2017
DRAWN BY:	JCH
CHECKED BY:	MB
FILE NAME:	AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-6



9/19: View of UST-2 (right) and UST-1 (left).



9/19: View of groundwater in the UST basin.

Original in Color



PROJECT NO.:	20181850.
DRAWN:	October 2017
DRAWN BY:	JCH
CHECKED BY:	MB
FILE NAME:	AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-7




9/19: View of soil temporarily stockpiled onsite.



9/20: View of removing excavated soil.

Original in Color

 <p>KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com</p>	PROJECT NO.: 20181850.	SITE PHOTOGRAPHS	FIGURE
	DRAWN: October 2017		
	DRAWN BY: JCH	TIP R-5021 WBS 41582.1.1 3269 Southport Supply Road Bolivia Brunswick County, NC	E-8
	CHECKED BY: MB		
FILE NAME: AppendixF.ppt			



9/20: View of backfilling.



9/20: View of cleaning of UST-1 to remove vapors for transport.

Original in Color



PROJECT NO.:	20181850.
DRAWN:	October 2017
DRAWN BY:	JCH
CHECKED BY:	MB
FILE NAME:	AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-9



9/20: View of removal of soil stockpile.



9/20: View of removal of the remaining product lines.

Original in Color



PROJECT NO.: 20181850.
 DRAWN: October 2017
 DRAWN BY: JCH
 CHECKED BY: MB
 FILE NAME: AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-10




9/20: View of removal of UST-1 from the site.



9/21: View of TMW-1 on the down gradient side of the UST basin.

Original in Color

 <p>KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com</p>	PROJECT NO.: 20181850.	SITE PHOTOGRAPHS	FIGURE
	DRAWN: October 2017		
	DRAWN BY: JCH	TIP R-5021 WBS 41582.1.1 3269 Southport Supply Road Bolivia Brunswick County, NC	E-11
	CHECKED BY: MB		
	FILE NAME: AppendixF.ppt		



9/21: Removal of UST-2 from the site.



9/21: View of backfilled excavation.

Original in Color



PROJECT NO.:	20181850.
DRAWN:	October 2017
DRAWN BY:	JCH
CHECKED BY:	MB
FILE NAME:	AppendixF.ppt

SITE PHOTOGRAPHS

TIP R-5021 WBS 41582.1.1
 3269 Southport Supply Road
 Bolivia
 Brunswick County, NC

FIGURE

E-12

APPENDIX F
BORING LOG AND WELL CONSTRUCTION RECORD


PLOTTED: 10/13/2017 08:52 AM BY: Chollinger

OFFICE FILTER: RALEIGH

PROJECT NUMBER: 20181850.001A
 GINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End: 9/21/2017 - 9/21/2017	Drilling Company: Kleinfelder	BORING LOG SB-1/TMW-1
Logged By: J. C. Hollinger	Drill Crew: J. C. Hollinger	
Hor.-Vert. Datum: Not Available	Drilling Equipment: Hand Auger	
Plunge: -90 degrees	Drilling Method: Hand Auger	
Weather: Sunny, 72 degrees	Bore Diameter: 4 in. O.D.	

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	FIELD EXPLORATION	TEMPORARY WELL CONSTRUCTION
							Surface Condition: Dirt	Completion Method: Locking Stand Pipe
							Lithologic Description	
5							Sandy SILT (ML): dark brown, moist to wet, FILL	2" SCH 40 Slotted 0.010 PVC Screen
10	The borehole was terminated at approximately 9 ft. below ground surface.						<u>GROUNDWATER LEVEL INFORMATION:</u> ∇ Groundwater was observed at approximately 5 ft. below ground surface during drilling. <u>GENERAL NOTES:</u>	

	PROJECT NO.: 20181850	BORING LOG SB-1/TMW-1
	DRAWN BY: JCH	
	CHECKED BY: MJB	
	DATE: 10/13/2017	R-5021 3296 Southport Supply Road Bolivia, NC
	REVISED: -	

APPENDIX G
LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORMS

October 05, 2017

Chris Hollinger
Kleinfelder
3200 Gateway Centre Blvd
Suite 100
Morrisville, NC 27560

RE: Project: Tip No. R5021 WBS: 41582.1.1
Pace Project No.: 92356367

Dear Chris Hollinger:

Enclosed are the analytical results for sample(s) received by the laboratory on September 22, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Report revised 10/3/17 to change units at client request.

Report revised 10/5/17 to update results for SS2, SS8. Original results were found to be carryover.

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

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Chemical Testing Engineer, Materials and Tests Unit



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92356367001	R5021-P004-SS1	Solid	09/19/17 14:30	09/22/17 08:44
92356367002	R5021-P004-SS2	Solid	09/19/17 14:50	09/22/17 08:44
92356367003	R5021-P004-SS3	Solid	09/19/17 15:20	09/22/17 08:44
92356367004	R5021-P004-SS4	Solid	09/19/17 15:25	09/22/17 08:44
92356367005	R5021-P004-SS5	Solid	09/19/17 15:40	09/22/17 08:44
92356367006	R5021-P004-SS6	Solid	09/19/17 15:45	09/22/17 08:44
92356367007	R5021-P004-SS7	Solid	09/19/17 16:00	09/22/17 08:44
92356367008	R5021-P004-SS8	Solid	09/20/17 13:10	09/22/17 08:44
92356367009	R5021-P004-SS9	Solid	09/20/17 16:30	09/22/17 08:44
92356367010	R5021-P004-SS10	Solid	09/19/17 15:10	09/22/17 08:44
92356367011	R5021-P004-Stockpile	Solid	09/19/17 12:00	09/22/17 08:44
92356367012	R5021-P004-TMW-1	Water	09/21/17 08:30	09/22/17 08:44

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Tip No. R5021 WBS: 41582.1.1
Pace Project No.: 92356367

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92356367001	R5021-P004-SS1	MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	CLW	1	PASI-C
92356367002	R5021-P004-SS2	MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	CLW	1	PASI-C
92356367003	R5021-P004-SS3	MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	CLW	1	PASI-C
92356367004	R5021-P004-SS4	MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	CLW	1	PASI-C
92356367005	R5021-P004-SS5	MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	CLW	1	PASI-C
92356367006	R5021-P004-SS6	MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	CLW	1	PASI-C
92356367007	R5021-P004-SS7	MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	CLW	1	PASI-C
92356367008	R5021-P004-SS8	MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C

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SAMPLE ANALYTE COUNT

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92356367009	R5021-P004-SS9	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
92356367010	R5021-P004-SS10	EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
92356367011	R5021-P004-Stockpile	ASTM D2974-87	KDF	1	PASI-C
		MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92356367012	R5021-P004-TMW-1	MADEP EPH	NU1	7	PASI-C
		MADEP VPH	WDV	5	PASI-C
		EPA 625	BPJ	58	PASI-C
		SM 6200B	ZDO	63	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS1 **Lab ID: 92356367001** Collected: 09/19/17 14:30 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil									
Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	12.1	12.1	1	09/23/17 08:37	09/25/17 19:24		N2
Aliphatic (C19-C36)	ND	mg/kg	12.1	12.1	1	09/23/17 08:37	09/25/17 19:24		N2
Aromatic (C11-C22)	ND	mg/kg	12.1	12.1	1	09/23/17 08:37	09/25/17 19:24		N2
Surrogates									
Nonatriacontane (S)	63	%	40-140		1	09/23/17 08:37	09/25/17 19:24	7194-86-7	
o-Terphenyl (S)	73	%	40-140		1	09/23/17 08:37	09/25/17 19:24	84-15-1	
2-Fluorobiphenyl (S)	103	%	40-140		1	09/23/17 08:37	09/25/17 19:24	321-60-8	
2-Bromonaphthalene (S)	101	%	40-140		1	09/23/17 08:37	09/25/17 19:24	580-13-2	
VPH NC Soil									
Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	3.6	3.6	1	09/25/17 10:30	09/26/17 02:13		N2
Aliphatic (C09-C12)	ND	mg/kg	3.6	3.6	1	09/25/17 10:30	09/26/17 02:13		N2
Aromatic (C09-C10)	ND	mg/kg	3.6	3.6	1	09/25/17 10:30	09/26/17 02:13		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	104	%	70-130		1	09/25/17 10:30	09/26/17 02:13	460-00-4	
4-Bromofluorobenzene (PID) (S)	117	%	70-130		1	09/25/17 10:30	09/26/17 02:13	460-00-4	
8270 MSSV Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.40	0.091	1	09/23/17 06:51	09/25/17 20:48	83-32-9	
Acenaphthylene	ND	mg/kg	0.40	0.094	1	09/23/17 06:51	09/25/17 20:48	208-96-8	
Aniline	ND	mg/kg	0.40	0.11	1	09/23/17 06:51	09/25/17 20:48	62-53-3	
Anthracene	ND	mg/kg	0.40	0.089	1	09/23/17 06:51	09/25/17 20:48	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.40	0.073	1	09/23/17 06:51	09/25/17 20:48	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.40	0.076	1	09/23/17 06:51	09/25/17 20:48	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.40	0.069	1	09/23/17 06:51	09/25/17 20:48	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.40	0.10	1	09/23/17 06:51	09/25/17 20:48	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.40	0.078	1	09/23/17 06:51	09/25/17 20:48	207-08-9	
Benzoic Acid	ND	mg/kg	2.0	0.072	1	09/23/17 06:51	09/25/17 20:48	65-85-0	
Benzyl alcohol	ND	mg/kg	0.79	0.079	1	09/23/17 06:51	09/25/17 20:48	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.40	0.072	1	09/23/17 06:51	09/25/17 20:48	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.40	0.084	1	09/23/17 06:51	09/25/17 20:48	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.79	0.082	1	09/23/17 06:51	09/25/17 20:48	59-50-7	
4-Chloroaniline	ND	mg/kg	2.0	0.11	1	09/23/17 06:51	09/25/17 20:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.40	0.093	1	09/23/17 06:51	09/25/17 20:48	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.40	0.10	1	09/23/17 06:51	09/25/17 20:48	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.40	0.078	1	09/23/17 06:51	09/25/17 20:48	91-58-7	
2-Chlorophenol	ND	mg/kg	0.40	0.11	1	09/23/17 06:51	09/25/17 20:48	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.40	0.082	1	09/23/17 06:51	09/25/17 20:48	7005-72-3	
Chrysene	ND	mg/kg	0.40	0.053	1	09/23/17 06:51	09/25/17 20:48	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.40	0.084	1	09/23/17 06:51	09/25/17 20:48	53-70-3	
Dibenzofuran	ND	mg/kg	0.40	0.065	1	09/23/17 06:51	09/25/17 20:48	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.40	0.11	1	09/23/17 06:51	09/25/17 20:48	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.40	0.090	1	09/23/17 06:51	09/25/17 20:48	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.40	0.11	1	09/23/17 06:51	09/25/17 20:48	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.0	0.087	1	09/23/17 06:51	09/25/17 20:48	91-94-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS1 **Lab ID: 92356367001** Collected: 09/19/17 14:30 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.40	0.087	1	09/23/17 06:51	09/25/17 20:48	120-83-2	
Diethylphthalate	ND	mg/kg	0.40	0.061	1	09/23/17 06:51	09/25/17 20:48	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.40	0.16	1	09/23/17 06:51	09/25/17 20:48	105-67-9	
Dimethylphthalate	ND	mg/kg	0.40	0.081	1	09/23/17 06:51	09/25/17 20:48	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.40	0.065	1	09/23/17 06:51	09/25/17 20:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.79	0.079	1	09/23/17 06:51	09/25/17 20:48	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	2.0	0.065	1	09/23/17 06:51	09/25/17 20:48	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.40	0.075	1	09/23/17 06:51	09/25/17 20:48	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.40	0.083	1	09/23/17 06:51	09/25/17 20:48	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.40	0.083	1	09/23/17 06:51	09/25/17 20:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.40	0.11	1	09/23/17 06:51	09/25/17 20:48	117-81-7	
Fluoranthene	ND	mg/kg	0.40	0.058	1	09/23/17 06:51	09/25/17 20:48	206-44-0	
Fluorene	ND	mg/kg	0.40	0.082	1	09/23/17 06:51	09/25/17 20:48	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.40	0.069	1	09/23/17 06:51	09/25/17 20:48	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.40	0.051	1	09/23/17 06:51	09/25/17 20:48	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.40	0.073	1	09/23/17 06:51	09/25/17 20:48	77-47-4	
Hexachloroethane	ND	mg/kg	0.40	0.10	1	09/23/17 06:51	09/25/17 20:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.40	0.082	1	09/23/17 06:51	09/25/17 20:48	193-39-5	
Isophorone	ND	mg/kg	0.40	0.089	1	09/23/17 06:51	09/25/17 20:48	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.40	0.10	1	09/23/17 06:51	09/25/17 20:48	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.40	0.085	1	09/23/17 06:51	09/25/17 20:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.40	0.12	1	09/23/17 06:51	09/25/17 20:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.40	0.16	1	09/23/17 06:51	09/25/17 20:48	15831-10-4	
Naphthalene	ND	mg/kg	0.40	0.097	1	09/23/17 06:51	09/25/17 20:48	91-20-3	
2-Nitroaniline	ND	mg/kg	2.0	0.12	1	09/23/17 06:51	09/25/17 20:48	88-74-4	
3-Nitroaniline	ND	mg/kg	2.0	0.11	1	09/23/17 06:51	09/25/17 20:48	99-09-2	
4-Nitroaniline	ND	mg/kg	0.79	0.11	1	09/23/17 06:51	09/25/17 20:48	100-01-6	
Nitrobenzene	ND	mg/kg	0.40	0.11	1	09/23/17 06:51	09/25/17 20:48	98-95-3	
2-Nitrophenol	ND	mg/kg	0.40	0.096	1	09/23/17 06:51	09/25/17 20:48	88-75-5	
4-Nitrophenol	ND	mg/kg	2.0	0.071	1	09/23/17 06:51	09/25/17 20:48	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.40	0.13	1	09/23/17 06:51	09/25/17 20:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.40	0.076	1	09/23/17 06:51	09/25/17 20:48	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.40	0.12	1	09/23/17 06:51	09/25/17 20:48	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.40	0.11	1	09/23/17 06:51	09/25/17 20:48	108-60-1	
Pentachlorophenol	ND	mg/kg	2.0	0.072	1	09/23/17 06:51	09/25/17 20:48	87-86-5	
Phenanthrene	ND	mg/kg	0.40	0.066	1	09/23/17 06:51	09/25/17 20:48	85-01-8	
Phenol	ND	mg/kg	0.40	0.12	1	09/23/17 06:51	09/25/17 20:48	108-95-2	
Pyrene	ND	mg/kg	0.40	0.067	1	09/23/17 06:51	09/25/17 20:48	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.40	0.077	1	09/23/17 06:51	09/25/17 20:48	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.40	0.12	1	09/23/17 06:51	09/25/17 20:48	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.40	0.088	1	09/23/17 06:51	09/25/17 20:48	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	47	%	23-110		1	09/23/17 06:51	09/25/17 20:48	4165-60-0	
2-Fluorobiphenyl (S)	50	%	30-110		1	09/23/17 06:51	09/25/17 20:48	321-60-8	
Terphenyl-d14 (S)	60	%	28-110		1	09/23/17 06:51	09/25/17 20:48	1718-51-0	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS1 **Lab ID: 92356367001** Collected: 09/19/17 14:30 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	50	%	22-110		1	09/23/17 06:51	09/25/17 20:48	13127-88-3	
2-Fluorophenol (S)	48	%	13-110		1	09/23/17 06:51	09/25/17 20:48	367-12-4	
2,4,6-Tribromophenol (S)	60	%	27-110		1	09/23/17 06:51	09/25/17 20:48	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.16	mg/kg	0.13	0.013	1		09/26/17 01:13	67-64-1	M1
Benzene	ND	mg/kg	0.0064	0.0020	1		09/26/17 01:13	71-43-2	
Bromobenzene	ND	mg/kg	0.0064	0.0026	1		09/26/17 01:13	108-86-1	
Bromochloromethane	ND	mg/kg	0.0064	0.0022	1		09/26/17 01:13	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0064	0.0024	1		09/26/17 01:13	75-27-4	
Bromoform	ND	mg/kg	0.0064	0.0029	1		09/26/17 01:13	75-25-2	
Bromomethane	ND	mg/kg	0.013	0.0032	1		09/26/17 01:13	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.13	0.0037	1		09/26/17 01:13	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0064	0.0020	1		09/26/17 01:13	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0064	0.0026	1		09/26/17 01:13	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0064	0.0033	1		09/26/17 01:13	56-23-5	
Chlorobenzene	ND	mg/kg	0.0064	0.0024	1		09/26/17 01:13	108-90-7	
Chloroethane	ND	mg/kg	0.013	0.0031	1		09/26/17 01:13	75-00-3	
Chloroform	ND	mg/kg	0.0064	0.0020	1		09/26/17 01:13	67-66-3	
Chloromethane	ND	mg/kg	0.013	0.0031	1		09/26/17 01:13	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0064	0.0022	1		09/26/17 01:13	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0064	0.0046	1		09/26/17 01:13	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	106-93-4	
Dibromomethane	ND	mg/kg	0.0064	0.0032	1		09/26/17 01:13	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0064	0.0024	1		09/26/17 01:13	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0064	0.0026	1		09/26/17 01:13	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0064	0.0022	1		09/26/17 01:13	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.013	0.0046	1		09/26/17 01:13	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0064	0.0019	1		09/26/17 01:13	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0064	0.0028	1		09/26/17 01:13	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0064	0.0018	1		09/26/17 01:13	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0064	0.0024	1		09/26/17 01:13	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0064	0.0022	1		09/26/17 01:13	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0064	0.0024	1		09/26/17 01:13	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0064	0.0022	1		09/26/17 01:13	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0064	0.0019	1		09/26/17 01:13	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0064	0.0019	1		09/26/17 01:13	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0064	0.0022	1		09/26/17 01:13	108-20-3	
Ethylbenzene	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS1 **Lab ID: 92356367001** Collected: 09/19/17 14:30 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics									
Analytical Method: EPA 8260									
Hexachloro-1,3-butadiene	ND	mg/kg	0.0064	0.0026	1		09/26/17 01:13	87-68-3	
2-Hexanone	ND	mg/kg	0.064	0.0050	1		09/26/17 01:13	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0064	0.0024	1		09/26/17 01:13	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0064	0.0022	1		09/26/17 01:13	99-87-6	
Methylene Chloride	ND	mg/kg	0.026	0.0038	1		09/26/17 01:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.064	0.0047	1		09/26/17 01:13	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0064	0.0019	1		09/26/17 01:13	1634-04-4	
Naphthalene	ND	mg/kg	0.0064	0.0015	1		09/26/17 01:13	91-20-3	M1
n-Propylbenzene	ND	mg/kg	0.0064	0.0022	1		09/26/17 01:13	103-65-1	
Styrene	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0064	0.0027	1		09/26/17 01:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0064	0.0024	1		09/26/17 01:13	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0064	0.0022	1		09/26/17 01:13	127-18-4	L2,M0
Toluene	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0064	0.0028	1		09/26/17 01:13	87-61-6	M1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0064	0.0020	1		09/26/17 01:13	120-82-1	M1
1,1,1-Trichloroethane	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0064	0.0027	1		09/26/17 01:13	79-00-5	
Trichloroethene	ND	mg/kg	0.0064	0.0027	1		09/26/17 01:13	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0064	0.0028	1		09/26/17 01:13	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0064	0.0020	1		09/26/17 01:13	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0064	0.0026	1		09/26/17 01:13	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0064	0.0023	1		09/26/17 01:13	108-67-8	
Vinyl acetate	ND	mg/kg	0.064	0.011	1		09/26/17 01:13	108-05-4	M1
Vinyl chloride	ND	mg/kg	0.013	0.0023	1		09/26/17 01:13	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	0.0046	1		09/26/17 01:13	1330-20-7	
m&p-Xylene	ND	mg/kg	0.013	0.0046	1		09/26/17 01:13	179601-23-1	
o-Xylene	ND	mg/kg	0.0064	0.0024	1		09/26/17 01:13	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		09/26/17 01:13	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		09/26/17 01:13	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-132		1		09/26/17 01:13	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.2	%	0.10	0.10	1		09/25/17 11:23		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS2 **Lab ID: 92356367002** Collected: 09/19/17 14:50 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	12.2	12.2	1	09/23/17 08:37	09/25/17 19:51		N2
Aliphatic (C19-C36)	ND	mg/kg	12.2	12.2	1	09/23/17 08:37	09/25/17 19:51		N2
Aromatic (C11-C22)	ND	mg/kg	12.2	12.2	1	09/23/17 08:37	09/25/17 19:51		N2
Surrogates									
Nonatriacontane (S)	64	%	40-140		1	09/23/17 08:37	09/25/17 19:51	7194-86-7	
o-Terphenyl (S)	85	%	40-140		1	09/23/17 08:37	09/25/17 19:51	84-15-1	
2-Fluorobiphenyl (S)	114	%	40-140		1	09/23/17 08:37	09/25/17 19:51	321-60-8	
2-Bromonaphthalene (S)	109	%	40-140		1	09/23/17 08:37	09/25/17 19:51	580-13-2	
VPH NC Soil Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	2.5	2.5	1	09/25/17 10:30	09/26/17 02:41		N2
Aliphatic (C09-C12)	ND	mg/kg	2.5	2.5	1	09/25/17 10:30	09/26/17 02:41		N2
Aromatic (C09-C10)	ND	mg/kg	2.5	2.5	1	09/25/17 10:30	09/26/17 02:41		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	97	%	70-130		1	09/25/17 10:30	09/26/17 02:41	460-00-4	
4-Bromofluorobenzene (PID) (S)	115	%	70-130		1	09/25/17 10:30	09/26/17 02:41	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.39	0.090	1	09/23/17 06:51	10/04/17 19:52	83-32-9	
Acenaphthylene	ND	mg/kg	0.39	0.093	1	09/23/17 06:51	10/04/17 19:52	208-96-8	
Aniline	ND	mg/kg	0.39	0.11	1	09/23/17 06:51	10/04/17 19:52	62-53-3	
Anthracene	ND	mg/kg	0.39	0.088	1	09/23/17 06:51	10/04/17 19:52	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.39	0.073	1	09/23/17 06:51	10/04/17 19:52	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.39	0.075	1	09/23/17 06:51	10/04/17 19:52	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.39	0.068	1	09/23/17 06:51	10/04/17 19:52	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	10/04/17 19:52	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.39	0.077	1	09/23/17 06:51	10/04/17 19:52	207-08-9	
Benzoic Acid	ND	mg/kg	2.0	0.071	1	09/23/17 06:51	10/04/17 19:52	65-85-0	
Benzyl alcohol	ND	mg/kg	0.79	0.079	1	09/23/17 06:51	10/04/17 19:52	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.39	0.071	1	09/23/17 06:51	10/04/17 19:52	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.39	0.083	1	09/23/17 06:51	10/04/17 19:52	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.79	0.081	1	09/23/17 06:51	10/04/17 19:52	59-50-7	
4-Chloroaniline	ND	mg/kg	2.0	0.11	1	09/23/17 06:51	10/04/17 19:52	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.39	0.092	1	09/23/17 06:51	10/04/17 19:52	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	10/04/17 19:52	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.39	0.077	1	09/23/17 06:51	10/04/17 19:52	91-58-7	
2-Chlorophenol	ND	mg/kg	0.39	0.11	1	09/23/17 06:51	10/04/17 19:52	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.39	0.081	1	09/23/17 06:51	10/04/17 19:52	7005-72-3	
Chrysene	ND	mg/kg	0.39	0.052	1	09/23/17 06:51	10/04/17 19:52	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.39	0.083	1	09/23/17 06:51	10/04/17 19:52	53-70-3	
Dibenzofuran	ND	mg/kg	0.39	0.064	1	09/23/17 06:51	10/04/17 19:52	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	10/04/17 19:52	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.39	0.089	1	09/23/17 06:51	10/04/17 19:52	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.39	0.11	1	09/23/17 06:51	10/04/17 19:52	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.0	0.086	1	09/23/17 06:51	10/04/17 19:52	91-94-1	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS2 **Lab ID: 92356367002** Collected: 09/19/17 14:50 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.39	0.086	1	09/23/17 06:51	10/04/17 19:52	120-83-2	
Diethylphthalate	ND	mg/kg	0.39	0.061	1	09/23/17 06:51	10/04/17 19:52	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.39	0.15	1	09/23/17 06:51	10/04/17 19:52	105-67-9	
Dimethylphthalate	ND	mg/kg	0.39	0.080	1	09/23/17 06:51	10/04/17 19:52	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.39	0.064	1	09/23/17 06:51	10/04/17 19:52	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.79	0.079	1	09/23/17 06:51	10/04/17 19:52	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	2.0	0.064	1	09/23/17 06:51	10/04/17 19:52	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.39	0.074	1	09/23/17 06:51	10/04/17 19:52	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.39	0.082	1	09/23/17 06:51	10/04/17 19:52	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.39	0.082	1	09/23/17 06:51	10/04/17 19:52	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.39	0.11	1	09/23/17 06:51	10/04/17 19:52	117-81-7	
Fluoranthene	ND	mg/kg	0.39	0.057	1	09/23/17 06:51	10/04/17 19:52	206-44-0	
Fluorene	ND	mg/kg	0.39	0.081	1	09/23/17 06:51	10/04/17 19:52	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.39	0.068	1	09/23/17 06:51	10/04/17 19:52	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.39	0.050	1	09/23/17 06:51	10/04/17 19:52	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.39	0.073	1	09/23/17 06:51	10/04/17 19:52	77-47-4	
Hexachloroethane	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	10/04/17 19:52	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.39	0.081	1	09/23/17 06:51	10/04/17 19:52	193-39-5	
Isophorone	ND	mg/kg	0.39	0.088	1	09/23/17 06:51	10/04/17 19:52	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	10/04/17 19:52	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.39	0.085	1	09/23/17 06:51	10/04/17 19:52	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.39	0.12	1	09/23/17 06:51	10/04/17 19:52	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.39	0.15	1	09/23/17 06:51	10/04/17 19:52	15831-10-4	
Naphthalene	ND	mg/kg	0.39	0.096	1	09/23/17 06:51	10/04/17 19:52	91-20-3	
2-Nitroaniline	ND	mg/kg	2.0	0.12	1	09/23/17 06:51	10/04/17 19:52	88-74-4	
3-Nitroaniline	ND	mg/kg	2.0	0.11	1	09/23/17 06:51	10/04/17 19:52	99-09-2	
4-Nitroaniline	ND	mg/kg	0.79	0.11	1	09/23/17 06:51	10/04/17 19:52	100-01-6	
Nitrobenzene	ND	mg/kg	0.39	0.11	1	09/23/17 06:51	10/04/17 19:52	98-95-3	
2-Nitrophenol	ND	mg/kg	0.39	0.095	1	09/23/17 06:51	10/04/17 19:52	88-75-5	
4-Nitrophenol	ND	mg/kg	2.0	0.070	1	09/23/17 06:51	10/04/17 19:52	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.39	0.13	1	09/23/17 06:51	10/04/17 19:52	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.39	0.075	1	09/23/17 06:51	10/04/17 19:52	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.39	0.12	1	09/23/17 06:51	10/04/17 19:52	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	10/04/17 19:52	108-60-1	
Pentachlorophenol	ND	mg/kg	2.0	0.071	1	09/23/17 06:51	10/04/17 19:52	87-86-5	
Phenanthrene	ND	mg/kg	0.39	0.065	1	09/23/17 06:51	10/04/17 19:52	85-01-8	
Phenol	ND	mg/kg	0.39	0.12	1	09/23/17 06:51	10/04/17 19:52	108-95-2	
Pyrene	ND	mg/kg	0.39	0.067	1	09/23/17 06:51	10/04/17 19:52	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.39	0.076	1	09/23/17 06:51	10/04/17 19:52	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.39	0.12	1	09/23/17 06:51	10/04/17 19:52	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.39	0.087	1	09/23/17 06:51	10/04/17 19:52	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	50	%	23-110		1	09/23/17 06:51	10/04/17 19:52	4165-60-0	
2-Fluorobiphenyl (S)	56	%	30-110		1	09/23/17 06:51	10/04/17 19:52	321-60-8	
Terphenyl-d14 (S)	73	%	28-110		1	09/23/17 06:51	10/04/17 19:52	1718-51-0	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS2 **Lab ID: 92356367002** Collected: 09/19/17 14:50 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	47	%	22-110		1	09/23/17 06:51	10/04/17 19:52	13127-88-3	
2-Fluorophenol (S)	50	%	13-110		1	09/23/17 06:51	10/04/17 19:52	367-12-4	
2,4,6-Tribromophenol (S)	91	%	27-110		1	09/23/17 06:51	10/04/17 19:52	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.13	mg/kg	0.083	0.0083	1		09/26/17 19:44	67-64-1	
Benzene	ND	mg/kg	0.0042	0.0013	1		09/26/17 19:44	71-43-2	
Bromobenzene	ND	mg/kg	0.0042	0.0017	1		09/26/17 19:44	108-86-1	
Bromochloromethane	ND	mg/kg	0.0042	0.0014	1		09/26/17 19:44	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0042	0.0016	1		09/26/17 19:44	75-27-4	
Bromoform	ND	mg/kg	0.0042	0.0019	1		09/26/17 19:44	75-25-2	
Bromomethane	ND	mg/kg	0.0083	0.0021	1		09/26/17 19:44	74-83-9	
2-Butanone (MEK)	0.014J	mg/kg	0.083	0.0024	1		09/26/17 19:44	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0042	0.0015	1		09/26/17 19:44	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0042	0.0013	1		09/26/17 19:44	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0042	0.0017	1		09/26/17 19:44	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0042	0.0022	1		09/26/17 19:44	56-23-5	
Chlorobenzene	ND	mg/kg	0.0042	0.0016	1		09/26/17 19:44	108-90-7	
Chloroethane	ND	mg/kg	0.0083	0.0020	1		09/26/17 19:44	75-00-3	
Chloroform	ND	mg/kg	0.0042	0.0013	1		09/26/17 19:44	67-66-3	
Chloromethane	ND	mg/kg	0.0083	0.0020	1		09/26/17 19:44	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0042	0.0014	1		09/26/17 19:44	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0042	0.0015	1		09/26/17 19:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0042	0.0030	1		09/26/17 19:44	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0042	0.0015	1		09/26/17 19:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	0.0015	1		09/26/17 19:44	106-93-4	
Dibromomethane	ND	mg/kg	0.0042	0.0021	1		09/26/17 19:44	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0042	0.0016	1		09/26/17 19:44	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0042	0.0017	1		09/26/17 19:44	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0042	0.0014	1		09/26/17 19:44	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0083	0.0030	1		09/26/17 19:44	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0042	0.0012	1		09/26/17 19:44	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0042	0.0018	1		09/26/17 19:44	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0042	0.0015	1		09/26/17 19:44	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	0.0012	1		09/26/17 19:44	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	0.0016	1		09/26/17 19:44	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0042	0.0014	1		09/26/17 19:44	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0042	0.0016	1		09/26/17 19:44	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0042	0.0014	1		09/26/17 19:44	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0042	0.0012	1		09/26/17 19:44	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	0.0015	1		09/26/17 19:44	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	0.0012	1		09/26/17 19:44	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0042	0.0014	1		09/26/17 19:44	108-20-3	
Ethylbenzene	0.0038J	mg/kg	0.0042	0.0015	1		09/26/17 19:44	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS2 **Lab ID: 92356367002** Collected: 09/19/17 14:50 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	0.0017	1		09/26/17 19:44	87-68-3	
2-Hexanone	ND	mg/kg	0.042	0.0032	1		09/26/17 19:44	591-78-6	
Isopropylbenzene (Cumene)	0.0025J	mg/kg	0.0042	0.0016	1		09/26/17 19:44	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0042	0.0014	1		09/26/17 19:44	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	0.0025	1		09/26/17 19:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.042	0.0031	1		09/26/17 19:44	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0042	0.0012	1		09/26/17 19:44	1634-04-4	
Naphthalene	0.024	mg/kg	0.0042	0.0010	1		09/26/17 19:44	91-20-3	
n-Propylbenzene	0.0056	mg/kg	0.0042	0.0014	1		09/26/17 19:44	103-65-1	
Styrene	ND	mg/kg	0.0042	0.0015	1		09/26/17 19:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0042	0.0017	1		09/26/17 19:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0042	0.0016	1		09/26/17 19:44	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0042	0.0014	1		09/26/17 19:44	127-18-4	L2
Toluene	0.0020J	mg/kg	0.0042	0.0015	1		09/26/17 19:44	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0042	0.0018	1		09/26/17 19:44	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0042	0.0013	1		09/26/17 19:44	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0042	0.0015	1		09/26/17 19:44	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0042	0.0017	1		09/26/17 19:44	79-00-5	
Trichloroethene	ND	mg/kg	0.0042	0.0017	1		09/26/17 19:44	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0042	0.0018	1		09/26/17 19:44	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0042	0.0013	1		09/26/17 19:44	96-18-4	
1,2,4-Trimethylbenzene	0.033	mg/kg	0.0042	0.0017	1		09/26/17 19:44	95-63-6	
1,3,5-Trimethylbenzene	0.0080	mg/kg	0.0042	0.0015	1		09/26/17 19:44	108-67-8	
Vinyl acetate	ND	mg/kg	0.042	0.0073	1		09/26/17 19:44	108-05-4	
Vinyl chloride	ND	mg/kg	0.0083	0.0015	1		09/26/17 19:44	75-01-4	
Xylene (Total)	0.015	mg/kg	0.0083	0.0030	1		09/26/17 19:44	1330-20-7	
m&p-Xylene	0.011	mg/kg	0.0083	0.0030	1		09/26/17 19:44	179601-23-1	
o-Xylene	0.0043	mg/kg	0.0042	0.0016	1		09/26/17 19:44	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		09/26/17 19:44	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		09/26/17 19:44	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-132		1		09/26/17 19:44	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.3	%	0.10	0.10	1		09/25/17 11:24		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS3 **Lab ID: 92356367003** Collected: 09/19/17 15:20 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	11.3	11.3	1	09/23/17 08:37	09/25/17 20:18		N2
Aliphatic (C19-C36)	ND	mg/kg	11.3	11.3	1	09/23/17 08:37	09/25/17 20:18		N2
Aromatic (C11-C22)	ND	mg/kg	11.3	11.3	1	09/23/17 08:37	09/25/17 20:18		N2
Surrogates									
Nonatriacontane (S)	55	%	40-140		1	09/23/17 08:37	09/25/17 20:18	7194-86-7	
o-Terphenyl (S)	61	%	40-140		1	09/23/17 08:37	09/25/17 20:18	84-15-1	
2-Fluorobiphenyl (S)	95	%	40-140		1	09/23/17 08:37	09/25/17 20:18	321-60-8	
2-Bromonaphthalene (S)	95	%	40-140		1	09/23/17 08:37	09/25/17 20:18	580-13-2	
VPH NC Soil Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	2.4	2.4	1	09/25/17 10:30	09/26/17 03:09		N2
Aliphatic (C09-C12)	ND	mg/kg	2.4	2.4	1	09/25/17 10:30	09/26/17 03:09		N2
Aromatic (C09-C10)	ND	mg/kg	2.4	2.4	1	09/25/17 10:30	09/26/17 03:09		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	98	%	70-130		1	09/25/17 10:30	09/26/17 03:09	460-00-4	
4-Bromofluorobenzene (PID) (S)	109	%	70-130		1	09/25/17 10:30	09/26/17 03:09	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.37	0.086	1	09/23/17 06:51	09/26/17 13:57	83-32-9	
Acenaphthylene	ND	mg/kg	0.37	0.088	1	09/23/17 06:51	09/26/17 13:57	208-96-8	
Aniline	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 13:57	62-53-3	
Anthracene	ND	mg/kg	0.37	0.084	1	09/23/17 06:51	09/26/17 13:57	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.37	0.069	1	09/23/17 06:51	09/26/17 13:57	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.37	0.071	1	09/23/17 06:51	09/26/17 13:57	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.37	0.064	1	09/23/17 06:51	09/26/17 13:57	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.37	0.095	1	09/23/17 06:51	09/26/17 13:57	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.37	0.074	1	09/23/17 06:51	09/26/17 13:57	207-08-9	
Benzoic Acid	ND	mg/kg	1.9	0.068	1	09/23/17 06:51	09/26/17 13:57	65-85-0	
Benzyl alcohol	ND	mg/kg	0.75	0.075	1	09/23/17 06:51	09/26/17 13:57	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.37	0.068	1	09/23/17 06:51	09/26/17 13:57	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.37	0.079	1	09/23/17 06:51	09/26/17 13:57	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.75	0.077	1	09/23/17 06:51	09/26/17 13:57	59-50-7	
4-Chloroaniline	ND	mg/kg	1.9	0.10	1	09/23/17 06:51	09/26/17 13:57	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.37	0.087	1	09/23/17 06:51	09/26/17 13:57	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.37	0.095	1	09/23/17 06:51	09/26/17 13:57	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.37	0.074	1	09/23/17 06:51	09/26/17 13:57	91-58-7	
2-Chlorophenol	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 13:57	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 13:57	7005-72-3	
Chrysene	ND	mg/kg	0.37	0.050	1	09/23/17 06:51	09/26/17 13:57	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.37	0.079	1	09/23/17 06:51	09/26/17 13:57	53-70-3	
Dibenzofuran	ND	mg/kg	0.37	0.061	1	09/23/17 06:51	09/26/17 13:57	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 13:57	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.37	0.085	1	09/23/17 06:51	09/26/17 13:57	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 13:57	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	1.9	0.081	1	09/23/17 06:51	09/26/17 13:57	91-94-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS3 **Lab ID: 92356367003** Collected: 09/19/17 15:20 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.37	0.081	1	09/23/17 06:51	09/26/17 13:57	120-83-2	
Diethylphthalate	ND	mg/kg	0.37	0.058	1	09/23/17 06:51	09/26/17 13:57	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.37	0.15	1	09/23/17 06:51	09/26/17 13:57	105-67-9	
Dimethylphthalate	ND	mg/kg	0.37	0.076	1	09/23/17 06:51	09/26/17 13:57	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.37	0.061	1	09/23/17 06:51	09/26/17 13:57	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.75	0.075	1	09/23/17 06:51	09/26/17 13:57	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.9	0.061	1	09/23/17 06:51	09/26/17 13:57	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.37	0.070	1	09/23/17 06:51	09/26/17 13:57	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.37	0.078	1	09/23/17 06:51	09/26/17 13:57	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.37	0.078	1	09/23/17 06:51	09/26/17 13:57	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 13:57	117-81-7	
Fluoranthene	ND	mg/kg	0.37	0.054	1	09/23/17 06:51	09/26/17 13:57	206-44-0	
Fluorene	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 13:57	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.37	0.064	1	09/23/17 06:51	09/26/17 13:57	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.37	0.048	1	09/23/17 06:51	09/26/17 13:57	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.37	0.069	1	09/23/17 06:51	09/26/17 13:57	77-47-4	
Hexachloroethane	ND	mg/kg	0.37	0.098	1	09/23/17 06:51	09/26/17 13:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 13:57	193-39-5	
Isophorone	ND	mg/kg	0.37	0.084	1	09/23/17 06:51	09/26/17 13:57	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.37	0.097	1	09/23/17 06:51	09/26/17 13:57	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.37	0.080	1	09/23/17 06:51	09/26/17 13:57	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 13:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.37	0.15	1	09/23/17 06:51	09/26/17 13:57	15831-10-4	
Naphthalene	ND	mg/kg	0.37	0.092	1	09/23/17 06:51	09/26/17 13:57	91-20-3	
2-Nitroaniline	ND	mg/kg	1.9	0.12	1	09/23/17 06:51	09/26/17 13:57	88-74-4	
3-Nitroaniline	ND	mg/kg	1.9	0.10	1	09/23/17 06:51	09/26/17 13:57	99-09-2	
4-Nitroaniline	ND	mg/kg	0.75	0.11	1	09/23/17 06:51	09/26/17 13:57	100-01-6	
Nitrobenzene	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 13:57	98-95-3	
2-Nitrophenol	ND	mg/kg	0.37	0.090	1	09/23/17 06:51	09/26/17 13:57	88-75-5	
4-Nitrophenol	ND	mg/kg	1.9	0.067	1	09/23/17 06:51	09/26/17 13:57	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.37	0.12	1	09/23/17 06:51	09/26/17 13:57	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.37	0.071	1	09/23/17 06:51	09/26/17 13:57	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 13:57	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 13:57	108-60-1	
Pentachlorophenol	ND	mg/kg	1.9	0.068	1	09/23/17 06:51	09/26/17 13:57	87-86-5	
Phenanthrene	ND	mg/kg	0.37	0.062	1	09/23/17 06:51	09/26/17 13:57	85-01-8	
Phenol	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 13:57	108-95-2	
Pyrene	ND	mg/kg	0.37	0.063	1	09/23/17 06:51	09/26/17 13:57	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.37	0.072	1	09/23/17 06:51	09/26/17 13:57	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.37	0.12	1	09/23/17 06:51	09/26/17 13:57	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.37	0.083	1	09/23/17 06:51	09/26/17 13:57	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	34	%	23-110		1	09/23/17 06:51	09/26/17 13:57	4165-60-0	
2-Fluorobiphenyl (S)	33	%	30-110		1	09/23/17 06:51	09/26/17 13:57	321-60-8	
Terphenyl-d14 (S)	75	%	28-110		1	09/23/17 06:51	09/26/17 13:57	1718-51-0	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS3 **Lab ID: 92356367003** Collected: 09/19/17 15:20 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	33	%	22-110		1	09/23/17 06:51	09/26/17 13:57	13127-88-3	
2-Fluorophenol (S)	33	%	13-110		1	09/23/17 06:51	09/26/17 13:57	367-12-4	
2,4,6-Tribromophenol (S)	64	%	27-110		1	09/23/17 06:51	09/26/17 13:57	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.073J	mg/kg	0.12	0.012	1		09/26/17 20:03	67-64-1	
Benzene	ND	mg/kg	0.0058	0.0019	1		09/26/17 20:03	71-43-2	
Bromobenzene	ND	mg/kg	0.0058	0.0023	1		09/26/17 20:03	108-86-1	
Bromochloromethane	ND	mg/kg	0.0058	0.0020	1		09/26/17 20:03	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0058	0.0022	1		09/26/17 20:03	75-27-4	
Bromoform	ND	mg/kg	0.0058	0.0027	1		09/26/17 20:03	75-25-2	
Bromomethane	ND	mg/kg	0.012	0.0029	1		09/26/17 20:03	74-83-9	
2-Butanone (MEK)	0.010J	mg/kg	0.12	0.0034	1		09/26/17 20:03	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0058	0.0019	1		09/26/17 20:03	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0058	0.0023	1		09/26/17 20:03	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0058	0.0030	1		09/26/17 20:03	56-23-5	
Chlorobenzene	ND	mg/kg	0.0058	0.0022	1		09/26/17 20:03	108-90-7	
Chloroethane	ND	mg/kg	0.012	0.0028	1		09/26/17 20:03	75-00-3	
Chloroform	ND	mg/kg	0.0058	0.0019	1		09/26/17 20:03	67-66-3	
Chloromethane	ND	mg/kg	0.012	0.0028	1		09/26/17 20:03	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0058	0.0020	1		09/26/17 20:03	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0058	0.0042	1		09/26/17 20:03	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	106-93-4	
Dibromomethane	ND	mg/kg	0.0058	0.0029	1		09/26/17 20:03	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0058	0.0022	1		09/26/17 20:03	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0058	0.0023	1		09/26/17 20:03	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0058	0.0020	1		09/26/17 20:03	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.012	0.0042	1		09/26/17 20:03	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0058	0.0017	1		09/26/17 20:03	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0058	0.0026	1		09/26/17 20:03	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0058	0.0016	1		09/26/17 20:03	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0058	0.0022	1		09/26/17 20:03	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0058	0.0020	1		09/26/17 20:03	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0058	0.0022	1		09/26/17 20:03	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0058	0.0020	1		09/26/17 20:03	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0058	0.0017	1		09/26/17 20:03	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0058	0.0017	1		09/26/17 20:03	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0058	0.0020	1		09/26/17 20:03	108-20-3	
Ethylbenzene	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS3 **Lab ID: 92356367003** Collected: 09/19/17 15:20 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND	mg/kg	0.0058	0.0023	1		09/26/17 20:03	87-68-3	
2-Hexanone	ND	mg/kg	0.058	0.0045	1		09/26/17 20:03	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0058	0.0022	1		09/26/17 20:03	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0058	0.0020	1		09/26/17 20:03	99-87-6	
Methylene Chloride	0.0050J	mg/kg	0.023	0.0035	1		09/26/17 20:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.058	0.0043	1		09/26/17 20:03	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0058	0.0017	1		09/26/17 20:03	1634-04-4	
Naphthalene	0.0019J	mg/kg	0.0058	0.0014	1		09/26/17 20:03	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0058	0.0020	1		09/26/17 20:03	103-65-1	
Styrene	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0058	0.0024	1		09/26/17 20:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0058	0.0022	1		09/26/17 20:03	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0058	0.0020	1		09/26/17 20:03	127-18-4	L2
Toluene	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0058	0.0026	1		09/26/17 20:03	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0058	0.0019	1		09/26/17 20:03	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0058	0.0024	1		09/26/17 20:03	79-00-5	
Trichloroethene	ND	mg/kg	0.0058	0.0024	1		09/26/17 20:03	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0058	0.0026	1		09/26/17 20:03	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0058	0.0019	1		09/26/17 20:03	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0058	0.0023	1		09/26/17 20:03	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0058	0.0021	1		09/26/17 20:03	108-67-8	
Vinyl acetate	ND	mg/kg	0.058	0.010	1		09/26/17 20:03	108-05-4	
Vinyl chloride	ND	mg/kg	0.012	0.0021	1		09/26/17 20:03	75-01-4	
Xylene (Total)	ND	mg/kg	0.012	0.0042	1		09/26/17 20:03	1330-20-7	
m&p-Xylene	ND	mg/kg	0.012	0.0042	1		09/26/17 20:03	179601-23-1	
o-Xylene	ND	mg/kg	0.0058	0.0022	1		09/26/17 20:03	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		09/26/17 20:03	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		09/26/17 20:03	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-132		1		09/26/17 20:03	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.6	%	0.10	0.10	1		09/25/17 11:24		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS4 **Lab ID: 92356367004** Collected: 09/19/17 15:25 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	12.5	12.5	1	09/23/17 08:37	09/25/17 20:46		N2
Aliphatic (C19-C36)	ND	mg/kg	12.5	12.5	1	09/23/17 08:37	09/25/17 20:46		N2
Aromatic (C11-C22)	ND	mg/kg	12.5	12.5	1	09/23/17 08:37	09/25/17 20:46		N2
Surrogates									
Nonatriacontane (S)	67	%	40-140		1	09/23/17 08:37	09/25/17 20:46	7194-86-7	
o-Terphenyl (S)	70	%	40-140		1	09/23/17 08:37	09/25/17 20:46	84-15-1	
2-Fluorobiphenyl (S)	103	%	40-140		1	09/23/17 08:37	09/25/17 20:46	321-60-8	
2-Bromonaphthalene (S)	101	%	40-140		1	09/23/17 08:37	09/25/17 20:46	580-13-2	
VPH NC Soil Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	3.1	3.1	1	09/25/17 10:30	09/26/17 03:37		N2
Aliphatic (C09-C12)	ND	mg/kg	3.1	3.1	1	09/25/17 10:30	09/26/17 03:37		N2
Aromatic (C09-C10)	ND	mg/kg	3.1	3.1	1	09/25/17 10:30	09/26/17 03:37		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	98	%	70-130		1	09/25/17 10:30	09/26/17 03:37	460-00-4	
4-Bromofluorobenzene (PID) (S)	117	%	70-130		1	09/25/17 10:30	09/26/17 03:37	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.41	0.095	1	09/23/17 06:51	09/25/17 15:37	83-32-9	
Acenaphthylene	ND	mg/kg	0.41	0.097	1	09/23/17 06:51	09/25/17 15:37	208-96-8	
Aniline	ND	mg/kg	0.41	0.11	1	09/23/17 06:51	09/25/17 15:37	62-53-3	
Anthracene	ND	mg/kg	0.41	0.092	1	09/23/17 06:51	09/25/17 15:37	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.41	0.076	1	09/23/17 06:51	09/25/17 15:37	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.41	0.078	1	09/23/17 06:51	09/25/17 15:37	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.41	0.071	1	09/23/17 06:51	09/25/17 15:37	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.41	0.10	1	09/23/17 06:51	09/25/17 15:37	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.41	0.081	1	09/23/17 06:51	09/25/17 15:37	207-08-9	
Benzoic Acid	ND	mg/kg	2.1	0.075	1	09/23/17 06:51	09/25/17 15:37	65-85-0	
Benzyl alcohol	ND	mg/kg	0.82	0.082	1	09/23/17 06:51	09/25/17 15:37	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.41	0.075	1	09/23/17 06:51	09/25/17 15:37	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.41	0.087	1	09/23/17 06:51	09/25/17 15:37	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.82	0.085	1	09/23/17 06:51	09/25/17 15:37	59-50-7	
4-Chloroaniline	ND	mg/kg	2.1	0.11	1	09/23/17 06:51	09/25/17 15:37	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.41	0.096	1	09/23/17 06:51	09/25/17 15:37	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.41	0.10	1	09/23/17 06:51	09/25/17 15:37	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.41	0.081	1	09/23/17 06:51	09/25/17 15:37	91-58-7	
2-Chlorophenol	ND	mg/kg	0.41	0.11	1	09/23/17 06:51	09/25/17 15:37	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.41	0.085	1	09/23/17 06:51	09/25/17 15:37	7005-72-3	
Chrysene	ND	mg/kg	0.41	0.055	1	09/23/17 06:51	09/25/17 15:37	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.41	0.087	1	09/23/17 06:51	09/25/17 15:37	53-70-3	
Dibenzofuran	ND	mg/kg	0.41	0.067	1	09/23/17 06:51	09/25/17 15:37	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.41	0.11	1	09/23/17 06:51	09/25/17 15:37	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.41	0.093	1	09/23/17 06:51	09/25/17 15:37	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.41	0.12	1	09/23/17 06:51	09/25/17 15:37	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.1	0.090	1	09/23/17 06:51	09/25/17 15:37	91-94-1	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS4 **Lab ID: 92356367004** Collected: 09/19/17 15:25 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.41	0.090	1	09/23/17 06:51	09/25/17 15:37	120-83-2	
Diethylphthalate	ND	mg/kg	0.41	0.063	1	09/23/17 06:51	09/25/17 15:37	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.41	0.16	1	09/23/17 06:51	09/25/17 15:37	105-67-9	
Dimethylphthalate	ND	mg/kg	0.41	0.083	1	09/23/17 06:51	09/25/17 15:37	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.41	0.067	1	09/23/17 06:51	09/25/17 15:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.82	0.082	1	09/23/17 06:51	09/25/17 15:37	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	2.1	0.067	1	09/23/17 06:51	09/25/17 15:37	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.41	0.077	1	09/23/17 06:51	09/25/17 15:37	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.41	0.086	1	09/23/17 06:51	09/25/17 15:37	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.41	0.086	1	09/23/17 06:51	09/25/17 15:37	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.41	0.11	1	09/23/17 06:51	09/25/17 15:37	117-81-7	
Fluoranthene	ND	mg/kg	0.41	0.060	1	09/23/17 06:51	09/25/17 15:37	206-44-0	
Fluorene	ND	mg/kg	0.41	0.085	1	09/23/17 06:51	09/25/17 15:37	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.41	0.071	1	09/23/17 06:51	09/25/17 15:37	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.41	0.052	1	09/23/17 06:51	09/25/17 15:37	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.41	0.076	1	09/23/17 06:51	09/25/17 15:37	77-47-4	
Hexachloroethane	ND	mg/kg	0.41	0.11	1	09/23/17 06:51	09/25/17 15:37	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.41	0.085	1	09/23/17 06:51	09/25/17 15:37	193-39-5	
Isophorone	ND	mg/kg	0.41	0.092	1	09/23/17 06:51	09/25/17 15:37	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.41	0.11	1	09/23/17 06:51	09/25/17 15:37	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.41	0.088	1	09/23/17 06:51	09/25/17 15:37	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.41	0.12	1	09/23/17 06:51	09/25/17 15:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.41	0.16	1	09/23/17 06:51	09/25/17 15:37	15831-10-4	
Naphthalene	ND	mg/kg	0.41	0.10	1	09/23/17 06:51	09/25/17 15:37	91-20-3	
2-Nitroaniline	ND	mg/kg	2.1	0.13	1	09/23/17 06:51	09/25/17 15:37	88-74-4	
3-Nitroaniline	ND	mg/kg	2.1	0.11	1	09/23/17 06:51	09/25/17 15:37	99-09-2	
4-Nitroaniline	ND	mg/kg	0.82	0.12	1	09/23/17 06:51	09/25/17 15:37	100-01-6	
Nitrobenzene	ND	mg/kg	0.41	0.11	1	09/23/17 06:51	09/25/17 15:37	98-95-3	
2-Nitrophenol	ND	mg/kg	0.41	0.10	1	09/23/17 06:51	09/25/17 15:37	88-75-5	
4-Nitrophenol	ND	mg/kg	2.1	0.073	1	09/23/17 06:51	09/25/17 15:37	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.41	0.13	1	09/23/17 06:51	09/25/17 15:37	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.41	0.078	1	09/23/17 06:51	09/25/17 15:37	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.41	0.12	1	09/23/17 06:51	09/25/17 15:37	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.41	0.11	1	09/23/17 06:51	09/25/17 15:37	108-60-1	
Pentachlorophenol	ND	mg/kg	2.1	0.075	1	09/23/17 06:51	09/25/17 15:37	87-86-5	
Phenanthrene	ND	mg/kg	0.41	0.068	1	09/23/17 06:51	09/25/17 15:37	85-01-8	
Phenol	ND	mg/kg	0.41	0.12	1	09/23/17 06:51	09/25/17 15:37	108-95-2	
Pyrene	ND	mg/kg	0.41	0.070	1	09/23/17 06:51	09/25/17 15:37	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.41	0.080	1	09/23/17 06:51	09/25/17 15:37	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.41	0.13	1	09/23/17 06:51	09/25/17 15:37	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.41	0.091	1	09/23/17 06:51	09/25/17 15:37	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	55	%	23-110		1	09/23/17 06:51	09/25/17 15:37	4165-60-0	
2-Fluorobiphenyl (S)	58	%	30-110		1	09/23/17 06:51	09/25/17 15:37	321-60-8	
Terphenyl-d14 (S)	68	%	28-110		1	09/23/17 06:51	09/25/17 15:37	1718-51-0	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS4 **Lab ID: 92356367004** Collected: 09/19/17 15:25 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	56	%	22-110		1	09/23/17 06:51	09/25/17 15:37	13127-88-3	
2-Fluorophenol (S)	56	%	13-110		1	09/23/17 06:51	09/25/17 15:37	367-12-4	
2,4,6-Tribromophenol (S)	71	%	27-110		1	09/23/17 06:51	09/25/17 15:37	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.057J	mg/kg	0.10	0.010	1		09/26/17 20:23	67-64-1	
Benzene	ND	mg/kg	0.0050	0.0016	1		09/26/17 20:23	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	0.0020	1		09/26/17 20:23	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	0.0017	1		09/26/17 20:23	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	0.0019	1		09/26/17 20:23	75-27-4	
Bromoform	ND	mg/kg	0.0050	0.0023	1		09/26/17 20:23	75-25-2	
Bromomethane	ND	mg/kg	0.010	0.0025	1		09/26/17 20:23	74-83-9	
2-Butanone (MEK)	0.0079J	mg/kg	0.10	0.0029	1		09/26/17 20:23	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	0.0016	1		09/26/17 20:23	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	0.0020	1		09/26/17 20:23	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0050	0.0026	1		09/26/17 20:23	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	0.0019	1		09/26/17 20:23	108-90-7	
Chloroethane	ND	mg/kg	0.010	0.0024	1		09/26/17 20:23	75-00-3	
Chloroform	ND	mg/kg	0.0050	0.0016	1		09/26/17 20:23	67-66-3	
Chloromethane	ND	mg/kg	0.010	0.0024	1		09/26/17 20:23	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	0.0017	1		09/26/17 20:23	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0036	1		09/26/17 20:23	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	0.0025	1		09/26/17 20:23	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.0019	1		09/26/17 20:23	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0020	1		09/26/17 20:23	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0017	1		09/26/17 20:23	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.010	0.0036	1		09/26/17 20:23	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0015	1		09/26/17 20:23	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	0.0022	1		09/26/17 20:23	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	1		09/26/17 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0019	1		09/26/17 20:23	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	0.0017	1		09/26/17 20:23	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0019	1		09/26/17 20:23	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0017	1		09/26/17 20:23	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0015	1		09/26/17 20:23	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0015	1		09/26/17 20:23	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0050	0.0017	1		09/26/17 20:23	108-20-3	
Ethylbenzene	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	100-41-4	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS4 **Lab ID: 92356367004** Collected: 09/19/17 15:25 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics									
Analytical Method: EPA 8260									
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	0.0020	1		09/26/17 20:23	87-68-3	
2-Hexanone	ND	mg/kg	0.050	0.0039	1		09/26/17 20:23	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	0.0019	1		09/26/17 20:23	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0017	1		09/26/17 20:23	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	0.0030	1		09/26/17 20:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.050	0.0037	1		09/26/17 20:23	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	0.0015	1		09/26/17 20:23	1634-04-4	
Naphthalene	ND	mg/kg	0.0050	0.0012	1		09/26/17 20:23	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0050	0.0017	1		09/26/17 20:23	103-65-1	
Styrene	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0021	1		09/26/17 20:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0019	1		09/26/17 20:23	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	0.0017	1		09/26/17 20:23	127-18-4	L2
Toluene	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0022	1		09/26/17 20:23	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0016	1		09/26/17 20:23	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.0021	1		09/26/17 20:23	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	0.0021	1		09/26/17 20:23	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0022	1		09/26/17 20:23	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	1		09/26/17 20:23	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0020	1		09/26/17 20:23	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0018	1		09/26/17 20:23	108-67-8	
Vinyl acetate	ND	mg/kg	0.050	0.0089	1		09/26/17 20:23	108-05-4	
Vinyl chloride	ND	mg/kg	0.010	0.0018	1		09/26/17 20:23	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	0.0036	1		09/26/17 20:23	1330-20-7	
m&p-Xylene	ND	mg/kg	0.010	0.0036	1		09/26/17 20:23	179601-23-1	
o-Xylene	ND	mg/kg	0.0050	0.0019	1		09/26/17 20:23	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		09/26/17 20:23	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		09/26/17 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-132		1		09/26/17 20:23	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	20.2	%	0.10	0.10	1		09/25/17 11:24		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS5 **Lab ID: 92356367005** Collected: 09/19/17 15:40 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	11.7	11.7	1	09/23/17 08:37	09/25/17 21:40		N2
Aliphatic (C19-C36)	ND	mg/kg	11.7	11.7	1	09/23/17 08:37	09/25/17 21:40		N2
Aromatic (C11-C22)	ND	mg/kg	11.7	11.7	1	09/23/17 08:37	09/25/17 21:40		N2
Surrogates									
Nonatriacontane (S)	61	%	40-140		1	09/23/17 08:37	09/25/17 21:40	7194-86-7	
o-Terphenyl (S)	61	%	40-140		1	09/23/17 08:37	09/25/17 21:40	84-15-1	
2-Fluorobiphenyl (S)	93	%	40-140		1	09/23/17 08:37	09/25/17 21:40	321-60-8	
2-Bromonaphthalene (S)	91	%	40-140		1	09/23/17 08:37	09/25/17 21:40	580-13-2	
VPH NC Soil Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	2.6	2.6	1	09/25/17 10:30	09/26/17 04:05		N2
Aliphatic (C09-C12)	ND	mg/kg	2.6	2.6	1	09/25/17 10:30	09/26/17 04:05		N2
Aromatic (C09-C10)	ND	mg/kg	2.6	2.6	1	09/25/17 10:30	09/26/17 04:05		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	98	%	70-130		1	09/25/17 10:30	09/26/17 04:05	460-00-4	
4-Bromofluorobenzene (PID) (S)	95	%	70-130		1	09/25/17 10:30	09/26/17 04:05	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.38	0.087	1	09/23/17 06:51	09/25/17 16:06	83-32-9	
Acenaphthylene	ND	mg/kg	0.38	0.090	1	09/23/17 06:51	09/25/17 16:06	208-96-8	
Aniline	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 16:06	62-53-3	
Anthracene	ND	mg/kg	0.38	0.085	1	09/23/17 06:51	09/25/17 16:06	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.38	0.070	1	09/23/17 06:51	09/25/17 16:06	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.38	0.072	1	09/23/17 06:51	09/25/17 16:06	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.38	0.065	1	09/23/17 06:51	09/25/17 16:06	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.38	0.096	1	09/23/17 06:51	09/25/17 16:06	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.38	0.075	1	09/23/17 06:51	09/25/17 16:06	207-08-9	
Benzoic Acid	ND	mg/kg	1.9	0.069	1	09/23/17 06:51	09/25/17 16:06	65-85-0	
Benzyl alcohol	ND	mg/kg	0.76	0.076	1	09/23/17 06:51	09/25/17 16:06	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.38	0.069	1	09/23/17 06:51	09/25/17 16:06	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.38	0.080	1	09/23/17 06:51	09/25/17 16:06	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.76	0.078	1	09/23/17 06:51	09/25/17 16:06	59-50-7	
4-Chloroaniline	ND	mg/kg	1.9	0.11	1	09/23/17 06:51	09/25/17 16:06	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.38	0.088	1	09/23/17 06:51	09/25/17 16:06	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.38	0.096	1	09/23/17 06:51	09/25/17 16:06	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.38	0.075	1	09/23/17 06:51	09/25/17 16:06	91-58-7	
2-Chlorophenol	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 16:06	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.38	0.078	1	09/23/17 06:51	09/25/17 16:06	7005-72-3	
Chrysene	ND	mg/kg	0.38	0.051	1	09/23/17 06:51	09/25/17 16:06	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.38	0.080	1	09/23/17 06:51	09/25/17 16:06	53-70-3	
Dibenzofuran	ND	mg/kg	0.38	0.062	1	09/23/17 06:51	09/25/17 16:06	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 16:06	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.38	0.086	1	09/23/17 06:51	09/25/17 16:06	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.38	0.11	1	09/23/17 06:51	09/25/17 16:06	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	1.9	0.083	1	09/23/17 06:51	09/25/17 16:06	91-94-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS5 **Lab ID: 92356367005** Collected: 09/19/17 15:40 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.38	0.083	1	09/23/17 06:51	09/25/17 16:06	120-83-2	
Diethylphthalate	ND	mg/kg	0.38	0.059	1	09/23/17 06:51	09/25/17 16:06	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.38	0.15	1	09/23/17 06:51	09/25/17 16:06	105-67-9	
Dimethylphthalate	ND	mg/kg	0.38	0.077	1	09/23/17 06:51	09/25/17 16:06	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.38	0.062	1	09/23/17 06:51	09/25/17 16:06	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.76	0.076	1	09/23/17 06:51	09/25/17 16:06	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.9	0.062	1	09/23/17 06:51	09/25/17 16:06	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.38	0.071	1	09/23/17 06:51	09/25/17 16:06	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.38	0.079	1	09/23/17 06:51	09/25/17 16:06	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.38	0.079	1	09/23/17 06:51	09/25/17 16:06	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 16:06	117-81-7	
Fluoranthene	ND	mg/kg	0.38	0.055	1	09/23/17 06:51	09/25/17 16:06	206-44-0	
Fluorene	ND	mg/kg	0.38	0.078	1	09/23/17 06:51	09/25/17 16:06	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.38	0.065	1	09/23/17 06:51	09/25/17 16:06	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.38	0.048	1	09/23/17 06:51	09/25/17 16:06	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.38	0.070	1	09/23/17 06:51	09/25/17 16:06	77-47-4	
Hexachloroethane	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 16:06	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.38	0.078	1	09/23/17 06:51	09/25/17 16:06	193-39-5	
Isophorone	ND	mg/kg	0.38	0.085	1	09/23/17 06:51	09/25/17 16:06	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.38	0.099	1	09/23/17 06:51	09/25/17 16:06	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.38	0.082	1	09/23/17 06:51	09/25/17 16:06	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.38	0.11	1	09/23/17 06:51	09/25/17 16:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.38	0.15	1	09/23/17 06:51	09/25/17 16:06	15831-10-4	
Naphthalene	ND	mg/kg	0.38	0.093	1	09/23/17 06:51	09/25/17 16:06	91-20-3	
2-Nitroaniline	ND	mg/kg	1.9	0.12	1	09/23/17 06:51	09/25/17 16:06	88-74-4	
3-Nitroaniline	ND	mg/kg	1.9	0.10	1	09/23/17 06:51	09/25/17 16:06	99-09-2	
4-Nitroaniline	ND	mg/kg	0.76	0.11	1	09/23/17 06:51	09/25/17 16:06	100-01-6	
Nitrobenzene	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 16:06	98-95-3	
2-Nitrophenol	ND	mg/kg	0.38	0.092	1	09/23/17 06:51	09/25/17 16:06	88-75-5	
4-Nitrophenol	ND	mg/kg	1.9	0.068	1	09/23/17 06:51	09/25/17 16:06	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.38	0.12	1	09/23/17 06:51	09/25/17 16:06	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.38	0.072	1	09/23/17 06:51	09/25/17 16:06	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.38	0.11	1	09/23/17 06:51	09/25/17 16:06	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 16:06	108-60-1	
Pentachlorophenol	ND	mg/kg	1.9	0.069	1	09/23/17 06:51	09/25/17 16:06	87-86-5	
Phenanthrene	ND	mg/kg	0.38	0.063	1	09/23/17 06:51	09/25/17 16:06	85-01-8	
Phenol	ND	mg/kg	0.38	0.11	1	09/23/17 06:51	09/25/17 16:06	108-95-2	
Pyrene	ND	mg/kg	0.38	0.064	1	09/23/17 06:51	09/25/17 16:06	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.38	0.073	1	09/23/17 06:51	09/25/17 16:06	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.38	0.12	1	09/23/17 06:51	09/25/17 16:06	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.38	0.084	1	09/23/17 06:51	09/25/17 16:06	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	47	%	23-110		1	09/23/17 06:51	09/25/17 16:06	4165-60-0	
2-Fluorobiphenyl (S)	48	%	30-110		1	09/23/17 06:51	09/25/17 16:06	321-60-8	
Terphenyl-d14 (S)	62	%	28-110		1	09/23/17 06:51	09/25/17 16:06	1718-51-0	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS5 **Lab ID: 92356367005** Collected: 09/19/17 15:40 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	45	%	22-110		1	09/23/17 06:51	09/25/17 16:06	13127-88-3	
2-Fluorophenol (S)	45	%	13-110		1	09/23/17 06:51	09/25/17 16:06	367-12-4	
2,4,6-Tribromophenol (S)	57	%	27-110		1	09/23/17 06:51	09/25/17 16:06	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.12	mg/kg	0.082	0.0082	1		09/26/17 20:43	67-64-1	
Benzene	ND	mg/kg	0.0041	0.0013	1		09/26/17 20:43	71-43-2	
Bromobenzene	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	108-86-1	
Bromochloromethane	ND	mg/kg	0.0041	0.0014	1		09/26/17 20:43	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	75-27-4	
Bromoform	ND	mg/kg	0.0041	0.0019	1		09/26/17 20:43	75-25-2	
Bromomethane	ND	mg/kg	0.0082	0.0020	1		09/26/17 20:43	74-83-9	
2-Butanone (MEK)	0.011J	mg/kg	0.082	0.0024	1		09/26/17 20:43	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0041	0.0013	1		09/26/17 20:43	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0041	0.0021	1		09/26/17 20:43	56-23-5	
Chlorobenzene	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	108-90-7	
Chloroethane	ND	mg/kg	0.0082	0.0020	1		09/26/17 20:43	75-00-3	
Chloroform	ND	mg/kg	0.0041	0.0013	1		09/26/17 20:43	67-66-3	
Chloromethane	ND	mg/kg	0.0082	0.0020	1		09/26/17 20:43	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0041	0.0014	1		09/26/17 20:43	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0041	0.0030	1		09/26/17 20:43	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	106-93-4	
Dibromomethane	ND	mg/kg	0.0041	0.0020	1		09/26/17 20:43	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0041	0.0014	1		09/26/17 20:43	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0082	0.0030	1		09/26/17 20:43	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0041	0.0012	1		09/26/17 20:43	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0041	0.0018	1		09/26/17 20:43	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0041	0.0011	1		09/26/17 20:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0041	0.0014	1		09/26/17 20:43	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0041	0.0014	1		09/26/17 20:43	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0041	0.0012	1		09/26/17 20:43	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0041	0.0012	1		09/26/17 20:43	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0041	0.0014	1		09/26/17 20:43	108-20-3	
Ethylbenzene	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS5 **Lab ID: 92356367005** Collected: 09/19/17 15:40 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	87-68-3	
2-Hexanone	ND	mg/kg	0.041	0.0032	1		09/26/17 20:43	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0041	0.0014	1		09/26/17 20:43	99-87-6	
Methylene Chloride	0.0028J	mg/kg	0.016	0.0025	1		09/26/17 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.041	0.0030	1		09/26/17 20:43	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0041	0.0012	1		09/26/17 20:43	1634-04-4	
Naphthalene	ND	mg/kg	0.0041	0.00098	1		09/26/17 20:43	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0041	0.0014	1		09/26/17 20:43	103-65-1	
Styrene	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0041	0.0017	1		09/26/17 20:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0041	0.0014	1		09/26/17 20:43	127-18-4	L2
Toluene	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0041	0.0018	1		09/26/17 20:43	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0041	0.0013	1		09/26/17 20:43	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0041	0.0017	1		09/26/17 20:43	79-00-5	
Trichloroethene	ND	mg/kg	0.0041	0.0017	1		09/26/17 20:43	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0041	0.0018	1		09/26/17 20:43	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0041	0.0013	1		09/26/17 20:43	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0041	0.0015	1		09/26/17 20:43	108-67-8	
Vinyl acetate	ND	mg/kg	0.041	0.0072	1		09/26/17 20:43	108-05-4	
Vinyl chloride	ND	mg/kg	0.0082	0.0015	1		09/26/17 20:43	75-01-4	
Xylene (Total)	ND	mg/kg	0.0082	0.0030	1		09/26/17 20:43	1330-20-7	
m&p-Xylene	ND	mg/kg	0.0082	0.0030	1		09/26/17 20:43	179601-23-1	
o-Xylene	ND	mg/kg	0.0041	0.0016	1		09/26/17 20:43	95-47-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		09/26/17 20:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		09/26/17 20:43	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-132		1		09/26/17 20:43	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.5	%	0.10	0.10	1		09/25/17 11:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS6 **Lab ID: 92356367006** Collected: 09/19/17 15:45 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	12.0	12.0	1	09/23/17 08:37	09/25/17 22:08		N2
Aliphatic (C19-C36)	ND	mg/kg	12.0	12.0	1	09/23/17 08:37	09/25/17 22:08		N2
Aromatic (C11-C22)	ND	mg/kg	12.0	12.0	1	09/23/17 08:37	09/25/17 22:08		N2
Surrogates									
Nonatriacontane (S)	54	%	40-140		1	09/23/17 08:37	09/25/17 22:08	7194-86-7	
o-Terphenyl (S)	71	%	40-140		1	09/23/17 08:37	09/25/17 22:08	84-15-1	
2-Fluorobiphenyl (S)	0	%	40-140		1	09/23/17 08:37	09/25/17 22:08	321-60-8	S0
2-Bromonaphthalene (S)	0	%	40-140		1	09/23/17 08:37	09/25/17 22:08	580-13-2	S0
VPH NC Soil Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	2.7	2.7	1	09/25/17 10:30	09/26/17 04:33		N2
Aliphatic (C09-C12)	ND	mg/kg	2.7	2.7	1	09/25/17 10:30	09/26/17 04:33		N2
Aromatic (C09-C10)	ND	mg/kg	2.7	2.7	1	09/25/17 10:30	09/26/17 04:33		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	102	%	70-130		1	09/25/17 10:30	09/26/17 04:33	460-00-4	
4-Bromofluorobenzene (PID) (S)	98	%	70-130		1	09/25/17 10:30	09/26/17 04:33	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.39	0.089	1	09/23/17 06:51	09/25/17 16:35	83-32-9	
Acenaphthylene	ND	mg/kg	0.39	0.092	1	09/23/17 06:51	09/25/17 16:35	208-96-8	
Aniline	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	09/25/17 16:35	62-53-3	
Anthracene	ND	mg/kg	0.39	0.087	1	09/23/17 06:51	09/25/17 16:35	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.39	0.072	1	09/23/17 06:51	09/25/17 16:35	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.39	0.074	1	09/23/17 06:51	09/25/17 16:35	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.39	0.067	1	09/23/17 06:51	09/25/17 16:35	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.39	0.099	1	09/23/17 06:51	09/25/17 16:35	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.39	0.076	1	09/23/17 06:51	09/25/17 16:35	207-08-9	
Benzoic Acid	ND	mg/kg	1.9	0.071	1	09/23/17 06:51	09/25/17 16:35	65-85-0	
Benzyl alcohol	ND	mg/kg	0.78	0.078	1	09/23/17 06:51	09/25/17 16:35	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.39	0.071	1	09/23/17 06:51	09/25/17 16:35	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.39	0.082	1	09/23/17 06:51	09/25/17 16:35	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.78	0.080	1	09/23/17 06:51	09/25/17 16:35	59-50-7	
4-Chloroaniline	ND	mg/kg	1.9	0.11	1	09/23/17 06:51	09/25/17 16:35	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.39	0.091	1	09/23/17 06:51	09/25/17 16:35	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.39	0.099	1	09/23/17 06:51	09/25/17 16:35	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.39	0.076	1	09/23/17 06:51	09/25/17 16:35	91-58-7	
2-Chlorophenol	ND	mg/kg	0.39	0.11	1	09/23/17 06:51	09/25/17 16:35	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.39	0.080	1	09/23/17 06:51	09/25/17 16:35	7005-72-3	
Chrysene	ND	mg/kg	0.39	0.052	1	09/23/17 06:51	09/25/17 16:35	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.39	0.082	1	09/23/17 06:51	09/25/17 16:35	53-70-3	
Dibenzofuran	ND	mg/kg	0.39	0.064	1	09/23/17 06:51	09/25/17 16:35	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	09/25/17 16:35	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.39	0.088	1	09/23/17 06:51	09/25/17 16:35	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.39	0.11	1	09/23/17 06:51	09/25/17 16:35	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	1.9	0.085	1	09/23/17 06:51	09/25/17 16:35	91-94-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS6 **Lab ID: 92356367006** Collected: 09/19/17 15:45 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.39	0.085	1	09/23/17 06:51	09/25/17 16:35	120-83-2	
Diethylphthalate	ND	mg/kg	0.39	0.060	1	09/23/17 06:51	09/25/17 16:35	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.39	0.15	1	09/23/17 06:51	09/25/17 16:35	105-67-9	
Dimethylphthalate	ND	mg/kg	0.39	0.079	1	09/23/17 06:51	09/25/17 16:35	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.39	0.064	1	09/23/17 06:51	09/25/17 16:35	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.78	0.078	1	09/23/17 06:51	09/25/17 16:35	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.9	0.064	1	09/23/17 06:51	09/25/17 16:35	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.39	0.073	1	09/23/17 06:51	09/25/17 16:35	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.39	0.081	1	09/23/17 06:51	09/25/17 16:35	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.39	0.081	1	09/23/17 06:51	09/25/17 16:35	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.39	0.11	1	09/23/17 06:51	09/25/17 16:35	117-81-7	
Fluoranthene	ND	mg/kg	0.39	0.056	1	09/23/17 06:51	09/25/17 16:35	206-44-0	
Fluorene	ND	mg/kg	0.39	0.080	1	09/23/17 06:51	09/25/17 16:35	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.39	0.067	1	09/23/17 06:51	09/25/17 16:35	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.39	0.049	1	09/23/17 06:51	09/25/17 16:35	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.39	0.072	1	09/23/17 06:51	09/25/17 16:35	77-47-4	
Hexachloroethane	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	09/25/17 16:35	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.39	0.080	1	09/23/17 06:51	09/25/17 16:35	193-39-5	
Isophorone	ND	mg/kg	0.39	0.087	1	09/23/17 06:51	09/25/17 16:35	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	09/25/17 16:35	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.39	0.084	1	09/23/17 06:51	09/25/17 16:35	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.39	0.12	1	09/23/17 06:51	09/25/17 16:35	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.39	0.15	1	09/23/17 06:51	09/25/17 16:35	15831-10-4	
Naphthalene	ND	mg/kg	0.39	0.095	1	09/23/17 06:51	09/25/17 16:35	91-20-3	
2-Nitroaniline	ND	mg/kg	1.9	0.12	1	09/23/17 06:51	09/25/17 16:35	88-74-4	
3-Nitroaniline	ND	mg/kg	1.9	0.11	1	09/23/17 06:51	09/25/17 16:35	99-09-2	
4-Nitroaniline	ND	mg/kg	0.78	0.11	1	09/23/17 06:51	09/25/17 16:35	100-01-6	
Nitrobenzene	ND	mg/kg	0.39	0.11	1	09/23/17 06:51	09/25/17 16:35	98-95-3	
2-Nitrophenol	ND	mg/kg	0.39	0.094	1	09/23/17 06:51	09/25/17 16:35	88-75-5	
4-Nitrophenol	ND	mg/kg	1.9	0.069	1	09/23/17 06:51	09/25/17 16:35	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.39	0.13	1	09/23/17 06:51	09/25/17 16:35	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.39	0.074	1	09/23/17 06:51	09/25/17 16:35	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.39	0.12	1	09/23/17 06:51	09/25/17 16:35	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.39	0.10	1	09/23/17 06:51	09/25/17 16:35	108-60-1	
Pentachlorophenol	ND	mg/kg	1.9	0.071	1	09/23/17 06:51	09/25/17 16:35	87-86-5	
Phenanthrene	ND	mg/kg	0.39	0.065	1	09/23/17 06:51	09/25/17 16:35	85-01-8	
Phenol	ND	mg/kg	0.39	0.12	1	09/23/17 06:51	09/25/17 16:35	108-95-2	
Pyrene	ND	mg/kg	0.39	0.066	1	09/23/17 06:51	09/25/17 16:35	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.39	0.075	1	09/23/17 06:51	09/25/17 16:35	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.39	0.12	1	09/23/17 06:51	09/25/17 16:35	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.39	0.086	1	09/23/17 06:51	09/25/17 16:35	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	54	%	23-110		1	09/23/17 06:51	09/25/17 16:35	4165-60-0	
2-Fluorobiphenyl (S)	54	%	30-110		1	09/23/17 06:51	09/25/17 16:35	321-60-8	
Terphenyl-d14 (S)	76	%	28-110		1	09/23/17 06:51	09/25/17 16:35	1718-51-0	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS6 **Lab ID: 92356367006** Collected: 09/19/17 15:45 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	51	%	22-110		1	09/23/17 06:51	09/25/17 16:35	13127-88-3	
2-Fluorophenol (S)	52	%	13-110		1	09/23/17 06:51	09/25/17 16:35	367-12-4	
2,4,6-Tribromophenol (S)	58	%	27-110		1	09/23/17 06:51	09/25/17 16:35	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.032J	mg/kg	0.092	0.0092	1		09/27/17 17:22	67-64-1	
Benzene	ND	mg/kg	0.0046	0.0015	1		09/27/17 17:22	71-43-2	
Bromobenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 17:22	108-86-1	
Bromochloromethane	ND	mg/kg	0.0046	0.0016	1		09/27/17 17:22	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	75-27-4	
Bromoform	ND	mg/kg	0.0046	0.0021	1		09/27/17 17:22	75-25-2	
Bromomethane	ND	mg/kg	0.0092	0.0023	1		09/27/17 17:22	74-83-9	
2-Butanone (MEK)	0.0036J	mg/kg	0.092	0.0027	1		09/27/17 17:22	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0046	0.0015	1		09/27/17 17:22	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 17:22	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0046	0.0024	1		09/27/17 17:22	56-23-5	
Chlorobenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	108-90-7	
Chloroethane	ND	mg/kg	0.0092	0.0022	1		09/27/17 17:22	75-00-3	
Chloroform	ND	mg/kg	0.0046	0.0015	1		09/27/17 17:22	67-66-3	
Chloromethane	ND	mg/kg	0.0092	0.0022	1		09/27/17 17:22	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0046	0.0016	1		09/27/17 17:22	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0046	0.0033	1		09/27/17 17:22	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	106-93-4	
Dibromomethane	ND	mg/kg	0.0046	0.0023	1		09/27/17 17:22	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 17:22	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0046	0.0016	1		09/27/17 17:22	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0092	0.0033	1		09/27/17 17:22	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0046	0.0014	1		09/27/17 17:22	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0046	0.0020	1		09/27/17 17:22	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0046	0.0013	1		09/27/17 17:22	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0046	0.0016	1		09/27/17 17:22	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0046	0.0016	1		09/27/17 17:22	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0046	0.0014	1		09/27/17 17:22	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0046	0.0014	1		09/27/17 17:22	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0046	0.0016	1		09/27/17 17:22	108-20-3	
Ethylbenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS6 **Lab ID: 92356367006** Collected: 09/19/17 15:45 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND	mg/kg	0.0046	0.0018	1		09/27/17 17:22	87-68-3	
2-Hexanone	ND	mg/kg	0.046	0.0036	1		09/27/17 17:22	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0046	0.0016	1		09/27/17 17:22	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	0.0028	1		09/27/17 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.046	0.0034	1		09/27/17 17:22	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	0.0014	1		09/27/17 17:22	1634-04-4	
Naphthalene	0.0045J	mg/kg	0.0046	0.0011	1		09/27/17 17:22	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0046	0.0016	1		09/27/17 17:22	103-65-1	
Styrene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0046	0.0019	1		09/27/17 17:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0046	0.0016	1		09/27/17 17:22	127-18-4	L2
Toluene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0046	0.0020	1		09/27/17 17:22	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0046	0.0015	1		09/27/17 17:22	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0046	0.0019	1		09/27/17 17:22	79-00-5	
Trichloroethene	ND	mg/kg	0.0046	0.0019	1		09/27/17 17:22	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0046	0.0020	1		09/27/17 17:22	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0046	0.0015	1		09/27/17 17:22	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 17:22	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	108-67-8	
Vinyl acetate	ND	mg/kg	0.046	0.0081	1		09/27/17 17:22	108-05-4	
Vinyl chloride	ND	mg/kg	0.0092	0.0017	1		09/27/17 17:22	75-01-4	
Xylene (Total)	ND	mg/kg	0.0092	0.0033	1		09/27/17 17:22	1330-20-7	
m&p-Xylene	ND	mg/kg	0.0092	0.0033	1		09/27/17 17:22	179601-23-1	
o-Xylene	ND	mg/kg	0.0046	0.0017	1		09/27/17 17:22	95-47-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		09/27/17 17:22	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		09/27/17 17:22	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-132		1		09/27/17 17:22	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.8	%	0.10	0.10	1		09/25/17 11:24		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS7 **Lab ID: 92356367007** Collected: 09/19/17 16:00 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil									
Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	11.6	11.6	1	09/23/17 08:37	09/25/17 22:35		N2
Aliphatic (C19-C36)	ND	mg/kg	11.6	11.6	1	09/23/17 08:37	09/25/17 22:35		N2
Aromatic (C11-C22)	ND	mg/kg	11.6	11.6	1	09/23/17 08:37	09/25/17 22:35		N2
Surrogates									
Nonatriacontane (S)	62	%	40-140		1	09/23/17 08:37	09/25/17 22:35	7194-86-7	
o-Terphenyl (S)	68	%	40-140		1	09/23/17 08:37	09/25/17 22:35	84-15-1	
2-Fluorobiphenyl (S)	0	%	40-140		1	09/23/17 08:37	09/25/17 22:35	321-60-8	S0
2-Bromonaphthalene (S)	0	%	40-140		1	09/23/17 08:37	09/25/17 22:35	580-13-2	S0
VPH NC Soil									
Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	3.0	3.0	1	09/25/17 10:30	09/26/17 05:01		N2
Aliphatic (C09-C12)	ND	mg/kg	3.0	3.0	1	09/25/17 10:30	09/26/17 05:01		N2
Aromatic (C09-C10)	ND	mg/kg	3.0	3.0	1	09/25/17 10:30	09/26/17 05:01		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	102	%	70-130		1	09/25/17 10:30	09/26/17 05:01	460-00-4	
4-Bromofluorobenzene (PID) (S)	96	%	70-130		1	09/25/17 10:30	09/26/17 05:01	460-00-4	
8270 MSSV Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.38	0.088	1	09/23/17 06:51	09/25/17 17:05	83-32-9	
Acenaphthylene	ND	mg/kg	0.38	0.090	1	09/23/17 06:51	09/25/17 17:05	208-96-8	
Aniline	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 17:05	62-53-3	
Anthracene	ND	mg/kg	0.38	0.086	1	09/23/17 06:51	09/25/17 17:05	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.38	0.071	1	09/23/17 06:51	09/25/17 17:05	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.38	0.073	1	09/23/17 06:51	09/25/17 17:05	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.38	0.066	1	09/23/17 06:51	09/25/17 17:05	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.38	0.097	1	09/23/17 06:51	09/25/17 17:05	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.38	0.075	1	09/23/17 06:51	09/25/17 17:05	207-08-9	
Benzoic Acid	ND	mg/kg	1.9	0.070	1	09/23/17 06:51	09/25/17 17:05	65-85-0	
Benzyl alcohol	ND	mg/kg	0.76	0.076	1	09/23/17 06:51	09/25/17 17:05	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.38	0.070	1	09/23/17 06:51	09/25/17 17:05	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.38	0.081	1	09/23/17 06:51	09/25/17 17:05	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.76	0.079	1	09/23/17 06:51	09/25/17 17:05	59-50-7	
4-Chloroaniline	ND	mg/kg	1.9	0.11	1	09/23/17 06:51	09/25/17 17:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.38	0.089	1	09/23/17 06:51	09/25/17 17:05	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.38	0.097	1	09/23/17 06:51	09/25/17 17:05	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.38	0.075	1	09/23/17 06:51	09/25/17 17:05	91-58-7	
2-Chlorophenol	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 17:05	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.38	0.079	1	09/23/17 06:51	09/25/17 17:05	7005-72-3	
Chrysene	ND	mg/kg	0.38	0.051	1	09/23/17 06:51	09/25/17 17:05	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.38	0.081	1	09/23/17 06:51	09/25/17 17:05	53-70-3	
Dibenzofuran	ND	mg/kg	0.38	0.063	1	09/23/17 06:51	09/25/17 17:05	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 17:05	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.38	0.087	1	09/23/17 06:51	09/25/17 17:05	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.38	0.11	1	09/23/17 06:51	09/25/17 17:05	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	1.9	0.083	1	09/23/17 06:51	09/25/17 17:05	91-94-1	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS7 **Lab ID: 92356367007** Collected: 09/19/17 16:00 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.38	0.083	1	09/23/17 06:51	09/25/17 17:05	120-83-2	
Diethylphthalate	ND	mg/kg	0.38	0.059	1	09/23/17 06:51	09/25/17 17:05	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.38	0.15	1	09/23/17 06:51	09/25/17 17:05	105-67-9	
Dimethylphthalate	ND	mg/kg	0.38	0.078	1	09/23/17 06:51	09/25/17 17:05	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.38	0.063	1	09/23/17 06:51	09/25/17 17:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.76	0.076	1	09/23/17 06:51	09/25/17 17:05	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.9	0.063	1	09/23/17 06:51	09/25/17 17:05	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.38	0.072	1	09/23/17 06:51	09/25/17 17:05	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.38	0.080	1	09/23/17 06:51	09/25/17 17:05	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.38	0.080	1	09/23/17 06:51	09/25/17 17:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 17:05	117-81-7	
Fluoranthene	ND	mg/kg	0.38	0.056	1	09/23/17 06:51	09/25/17 17:05	206-44-0	
Fluorene	ND	mg/kg	0.38	0.079	1	09/23/17 06:51	09/25/17 17:05	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.38	0.066	1	09/23/17 06:51	09/25/17 17:05	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.38	0.049	1	09/23/17 06:51	09/25/17 17:05	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.38	0.071	1	09/23/17 06:51	09/25/17 17:05	77-47-4	
Hexachloroethane	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 17:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.38	0.079	1	09/23/17 06:51	09/25/17 17:05	193-39-5	
Isophorone	ND	mg/kg	0.38	0.086	1	09/23/17 06:51	09/25/17 17:05	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 17:05	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.38	0.082	1	09/23/17 06:51	09/25/17 17:05	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.38	0.12	1	09/23/17 06:51	09/25/17 17:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.38	0.15	1	09/23/17 06:51	09/25/17 17:05	15831-10-4	
Naphthalene	ND	mg/kg	0.38	0.094	1	09/23/17 06:51	09/25/17 17:05	91-20-3	
2-Nitroaniline	ND	mg/kg	1.9	0.12	1	09/23/17 06:51	09/25/17 17:05	88-74-4	
3-Nitroaniline	ND	mg/kg	1.9	0.10	1	09/23/17 06:51	09/25/17 17:05	99-09-2	
4-Nitroaniline	ND	mg/kg	0.76	0.11	1	09/23/17 06:51	09/25/17 17:05	100-01-6	
Nitrobenzene	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 17:05	98-95-3	
2-Nitrophenol	ND	mg/kg	0.38	0.093	1	09/23/17 06:51	09/25/17 17:05	88-75-5	
4-Nitrophenol	ND	mg/kg	1.9	0.068	1	09/23/17 06:51	09/25/17 17:05	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.38	0.12	1	09/23/17 06:51	09/25/17 17:05	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.38	0.073	1	09/23/17 06:51	09/25/17 17:05	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.38	0.11	1	09/23/17 06:51	09/25/17 17:05	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.38	0.10	1	09/23/17 06:51	09/25/17 17:05	108-60-1	
Pentachlorophenol	ND	mg/kg	1.9	0.070	1	09/23/17 06:51	09/25/17 17:05	87-86-5	
Phenanthrene	ND	mg/kg	0.38	0.064	1	09/23/17 06:51	09/25/17 17:05	85-01-8	
Phenol	ND	mg/kg	0.38	0.11	1	09/23/17 06:51	09/25/17 17:05	108-95-2	
Pyrene	ND	mg/kg	0.38	0.065	1	09/23/17 06:51	09/25/17 17:05	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.38	0.074	1	09/23/17 06:51	09/25/17 17:05	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.38	0.12	1	09/23/17 06:51	09/25/17 17:05	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.38	0.085	1	09/23/17 06:51	09/25/17 17:05	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	39	%	23-110		1	09/23/17 06:51	09/25/17 17:05	4165-60-0	
2-Fluorobiphenyl (S)	35	%	30-110		1	09/23/17 06:51	09/25/17 17:05	321-60-8	
Terphenyl-d14 (S)	44	%	28-110		1	09/23/17 06:51	09/25/17 17:05	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS7 **Lab ID: 92356367007** Collected: 09/19/17 16:00 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	38	%	22-110		1	09/23/17 06:51	09/25/17 17:05	13127-88-3	
2-Fluorophenol (S)	37	%	13-110		1	09/23/17 06:51	09/25/17 17:05	367-12-4	
2,4,6-Tribromophenol (S)	52	%	27-110		1	09/23/17 06:51	09/25/17 17:05	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.099J	mg/kg	0.13	0.013	1		09/26/17 21:22	67-64-1	
Benzene	ND	mg/kg	0.0063	0.0020	1		09/26/17 21:22	71-43-2	
Bromobenzene	ND	mg/kg	0.0063	0.0025	1		09/26/17 21:22	108-86-1	
Bromochloromethane	ND	mg/kg	0.0063	0.0021	1		09/26/17 21:22	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0063	0.0024	1		09/26/17 21:22	75-27-4	
Bromoform	ND	mg/kg	0.0063	0.0029	1		09/26/17 21:22	75-25-2	
Bromomethane	ND	mg/kg	0.013	0.0031	1		09/26/17 21:22	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.13	0.0036	1		09/26/17 21:22	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0063	0.0020	1		09/26/17 21:22	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0063	0.0025	1		09/26/17 21:22	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0063	0.0033	1		09/26/17 21:22	56-23-5	
Chlorobenzene	ND	mg/kg	0.0063	0.0024	1		09/26/17 21:22	108-90-7	
Chloroethane	ND	mg/kg	0.013	0.0030	1		09/26/17 21:22	75-00-3	
Chloroform	ND	mg/kg	0.0063	0.0020	1		09/26/17 21:22	67-66-3	
Chloromethane	ND	mg/kg	0.013	0.0030	1		09/26/17 21:22	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0063	0.0021	1		09/26/17 21:22	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0063	0.0045	1		09/26/17 21:22	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	106-93-4	
Dibromomethane	ND	mg/kg	0.0063	0.0031	1		09/26/17 21:22	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0063	0.0024	1		09/26/17 21:22	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0063	0.0025	1		09/26/17 21:22	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0063	0.0021	1		09/26/17 21:22	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.013	0.0045	1		09/26/17 21:22	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0063	0.0019	1		09/26/17 21:22	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0063	0.0028	1		09/26/17 21:22	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0063	0.0018	1		09/26/17 21:22	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0063	0.0024	1		09/26/17 21:22	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0063	0.0021	1		09/26/17 21:22	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0063	0.0024	1		09/26/17 21:22	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0063	0.0021	1		09/26/17 21:22	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0063	0.0019	1		09/26/17 21:22	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0063	0.0019	1		09/26/17 21:22	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0063	0.0021	1		09/26/17 21:22	108-20-3	
Ethylbenzene	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS7 **Lab ID: 92356367007** Collected: 09/19/17 16:00 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND	mg/kg	0.0063	0.0025	1		09/26/17 21:22	87-68-3	
2-Hexanone	ND	mg/kg	0.063	0.0049	1		09/26/17 21:22	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0063	0.0024	1		09/26/17 21:22	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0063	0.0021	1		09/26/17 21:22	99-87-6	
Methylene Chloride	0.0095J	mg/kg	0.025	0.0038	1		09/26/17 21:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.063	0.0046	1		09/26/17 21:22	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0063	0.0019	1		09/26/17 21:22	1634-04-4	
Naphthalene	ND	mg/kg	0.0063	0.0015	1		09/26/17 21:22	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0063	0.0021	1		09/26/17 21:22	103-65-1	
Styrene	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0063	0.0026	1		09/26/17 21:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0063	0.0024	1		09/26/17 21:22	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0063	0.0021	1		09/26/17 21:22	127-18-4	L2
Toluene	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0063	0.0028	1		09/26/17 21:22	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0063	0.0020	1		09/26/17 21:22	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0063	0.0026	1		09/26/17 21:22	79-00-5	
Trichloroethene	ND	mg/kg	0.0063	0.0026	1		09/26/17 21:22	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0063	0.0028	1		09/26/17 21:22	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0063	0.0020	1		09/26/17 21:22	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0063	0.0025	1		09/26/17 21:22	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0063	0.0023	1		09/26/17 21:22	108-67-8	
Vinyl acetate	ND	mg/kg	0.063	0.011	1		09/26/17 21:22	108-05-4	
Vinyl chloride	ND	mg/kg	0.013	0.0023	1		09/26/17 21:22	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	0.0045	1		09/26/17 21:22	1330-20-7	
m&p-Xylene	ND	mg/kg	0.013	0.0045	1		09/26/17 21:22	179601-23-1	
o-Xylene	ND	mg/kg	0.0063	0.0024	1		09/26/17 21:22	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		09/26/17 21:22	2037-26-5	1g,S1
4-Bromofluorobenzene (S)	91	%	70-130		1		09/26/17 21:22	460-00-4	
1,2-Dichloroethane-d4 (S)	140	%	70-132		1		09/26/17 21:22	17060-07-0	S3
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.0	%	0.10	0.10	1		09/25/17 11:24		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS8 **Lab ID: 92356367008** Collected: 09/20/17 13:10 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	13.5	13.5	1	09/23/17 08:37	09/25/17 23:02		N2
Aliphatic (C19-C36)	ND	mg/kg	13.5	13.5	1	09/23/17 08:37	09/25/17 23:02		N2
Aromatic (C11-C22)	ND	mg/kg	13.5	13.5	1	09/23/17 08:37	09/25/17 23:02		N2
Surrogates									
Nonatriacontane (S)	50	%	40-140		1	09/23/17 08:37	09/25/17 23:02	7194-86-7	
o-Terphenyl (S)	63	%	40-140		1	09/23/17 08:37	09/25/17 23:02	84-15-1	
2-Fluorobiphenyl (S)	0	%	40-140		1	09/23/17 08:37	09/25/17 23:02	321-60-8	S0
2-Bromonaphthalene (S)	0	%	40-140		1	09/23/17 08:37	09/25/17 23:02	580-13-2	S0
VPH NC Soil Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	3.9	3.9	1	09/25/17 10:30	09/26/17 05:28		N2
Aliphatic (C09-C12)	ND	mg/kg	3.9	3.9	1	09/25/17 10:30	09/26/17 05:28		N2
Aromatic (C09-C10)	ND	mg/kg	3.9	3.9	1	09/25/17 10:30	09/26/17 05:28		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	103	%	70-130		1	09/25/17 10:30	09/26/17 05:28	460-00-4	
4-Bromofluorobenzene (PID) (S)	124	%	70-130		1	09/25/17 10:30	09/26/17 05:28	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.43	0.099	1	09/23/17 06:51	10/04/17 22:19	83-32-9	
Acenaphthylene	ND	mg/kg	0.43	0.10	1	09/23/17 06:51	10/04/17 22:19	208-96-8	
Aniline	ND	mg/kg	0.43	0.12	1	09/23/17 06:51	10/04/17 22:19	62-53-3	
Anthracene	ND	mg/kg	0.43	0.096	1	09/23/17 06:51	10/04/17 22:19	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.43	0.079	1	09/23/17 06:51	10/04/17 22:19	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.43	0.082	1	09/23/17 06:51	10/04/17 22:19	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.43	0.074	1	09/23/17 06:51	10/04/17 22:19	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.43	0.11	1	09/23/17 06:51	10/04/17 22:19	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.43	0.085	1	09/23/17 06:51	10/04/17 22:19	207-08-9	
Benzoic Acid	ND	mg/kg	2.1	0.078	1	09/23/17 06:51	10/04/17 22:19	65-85-0	
Benzyl alcohol	ND	mg/kg	0.86	0.086	1	09/23/17 06:51	10/04/17 22:19	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.43	0.078	1	09/23/17 06:51	10/04/17 22:19	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.43	0.091	1	09/23/17 06:51	10/04/17 22:19	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.86	0.089	1	09/23/17 06:51	10/04/17 22:19	59-50-7	
4-Chloroaniline	ND	mg/kg	2.1	0.12	1	09/23/17 06:51	10/04/17 22:19	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.43	0.10	1	09/23/17 06:51	10/04/17 22:19	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.43	0.11	1	09/23/17 06:51	10/04/17 22:19	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.43	0.085	1	09/23/17 06:51	10/04/17 22:19	91-58-7	
2-Chlorophenol	ND	mg/kg	0.43	0.12	1	09/23/17 06:51	10/04/17 22:19	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.43	0.089	1	09/23/17 06:51	10/04/17 22:19	7005-72-3	
Chrysene	ND	mg/kg	0.43	0.057	1	09/23/17 06:51	10/04/17 22:19	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.43	0.091	1	09/23/17 06:51	10/04/17 22:19	53-70-3	
Dibenzofuran	ND	mg/kg	0.43	0.070	1	09/23/17 06:51	10/04/17 22:19	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.43	0.11	1	09/23/17 06:51	10/04/17 22:19	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.43	0.098	1	09/23/17 06:51	10/04/17 22:19	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.43	0.12	1	09/23/17 06:51	10/04/17 22:19	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	2.1	0.094	1	09/23/17 06:51	10/04/17 22:19	91-94-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS8 **Lab ID: 92356367008** Collected: 09/20/17 13:10 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.43	0.094	1	09/23/17 06:51	10/04/17 22:19	120-83-2	
Diethylphthalate	ND	mg/kg	0.43	0.066	1	09/23/17 06:51	10/04/17 22:19	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.43	0.17	1	09/23/17 06:51	10/04/17 22:19	105-67-9	
Dimethylphthalate	ND	mg/kg	0.43	0.087	1	09/23/17 06:51	10/04/17 22:19	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.43	0.070	1	09/23/17 06:51	10/04/17 22:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.86	0.086	1	09/23/17 06:51	10/04/17 22:19	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	2.1	0.070	1	09/23/17 06:51	10/04/17 22:19	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.43	0.081	1	09/23/17 06:51	10/04/17 22:19	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.43	0.090	1	09/23/17 06:51	10/04/17 22:19	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.43	0.090	1	09/23/17 06:51	10/04/17 22:19	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.43	0.12	1	09/23/17 06:51	10/04/17 22:19	117-81-7	
Fluoranthene	ND	mg/kg	0.43	0.063	1	09/23/17 06:51	10/04/17 22:19	206-44-0	
Fluorene	ND	mg/kg	0.43	0.089	1	09/23/17 06:51	10/04/17 22:19	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.43	0.074	1	09/23/17 06:51	10/04/17 22:19	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.43	0.055	1	09/23/17 06:51	10/04/17 22:19	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.43	0.079	1	09/23/17 06:51	10/04/17 22:19	77-47-4	
Hexachloroethane	ND	mg/kg	0.43	0.11	1	09/23/17 06:51	10/04/17 22:19	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.43	0.089	1	09/23/17 06:51	10/04/17 22:19	193-39-5	
Isophorone	ND	mg/kg	0.43	0.096	1	09/23/17 06:51	10/04/17 22:19	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.43	0.11	1	09/23/17 06:51	10/04/17 22:19	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.43	0.092	1	09/23/17 06:51	10/04/17 22:19	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.43	0.13	1	09/23/17 06:51	10/04/17 22:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.43	0.17	1	09/23/17 06:51	10/04/17 22:19	15831-10-4	
Naphthalene	ND	mg/kg	0.43	0.11	1	09/23/17 06:51	10/04/17 22:19	91-20-3	
2-Nitroaniline	ND	mg/kg	2.1	0.13	1	09/23/17 06:51	10/04/17 22:19	88-74-4	
3-Nitroaniline	ND	mg/kg	2.1	0.12	1	09/23/17 06:51	10/04/17 22:19	99-09-2	
4-Nitroaniline	ND	mg/kg	0.86	0.12	1	09/23/17 06:51	10/04/17 22:19	100-01-6	
Nitrobenzene	ND	mg/kg	0.43	0.12	1	09/23/17 06:51	10/04/17 22:19	98-95-3	
2-Nitrophenol	ND	mg/kg	0.43	0.10	1	09/23/17 06:51	10/04/17 22:19	88-75-5	
4-Nitrophenol	ND	mg/kg	2.1	0.077	1	09/23/17 06:51	10/04/17 22:19	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.43	0.14	1	09/23/17 06:51	10/04/17 22:19	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.43	0.082	1	09/23/17 06:51	10/04/17 22:19	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.43	0.13	1	09/23/17 06:51	10/04/17 22:19	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.43	0.11	1	09/23/17 06:51	10/04/17 22:19	108-60-1	
Pentachlorophenol	ND	mg/kg	2.1	0.078	1	09/23/17 06:51	10/04/17 22:19	87-86-5	
Phenanthrene	ND	mg/kg	0.43	0.072	1	09/23/17 06:51	10/04/17 22:19	85-01-8	
Phenol	ND	mg/kg	0.43	0.13	1	09/23/17 06:51	10/04/17 22:19	108-95-2	
Pyrene	ND	mg/kg	0.43	0.073	1	09/23/17 06:51	10/04/17 22:19	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.43	0.083	1	09/23/17 06:51	10/04/17 22:19	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.43	0.13	1	09/23/17 06:51	10/04/17 22:19	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.43	0.095	1	09/23/17 06:51	10/04/17 22:19	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	45	%	23-110		1	09/23/17 06:51	10/04/17 22:19	4165-60-0	
2-Fluorobiphenyl (S)	54	%	30-110		1	09/23/17 06:51	10/04/17 22:19	321-60-8	
Terphenyl-d14 (S)	63	%	28-110		1	09/23/17 06:51	10/04/17 22:19	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS8 **Lab ID: 92356367008** Collected: 09/20/17 13:10 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	41	%	22-110		1	09/23/17 06:51	10/04/17 22:19	13127-88-3	
2-Fluorophenol (S)	46	%	13-110		1	09/23/17 06:51	10/04/17 22:19	367-12-4	
2,4,6-Tribromophenol (S)	77	%	27-110		1	09/23/17 06:51	10/04/17 22:19	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.32	mg/kg	0.097	0.0097	1		09/27/17 23:04	67-64-1	
Benzene	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	0.0019	1		09/27/17 23:04	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	0.0018	1		09/27/17 23:04	75-27-4	
Bromoform	ND	mg/kg	0.0049	0.0022	1		09/27/17 23:04	75-25-2	
Bromomethane	ND	mg/kg	0.0097	0.0024	1		09/27/17 23:04	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.097	0.0028	1		09/27/17 23:04	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0049	0.0019	1		09/27/17 23:04	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0049	0.0025	1		09/27/17 23:04	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	0.0018	1		09/27/17 23:04	108-90-7	
Chloroethane	ND	mg/kg	0.0097	0.0023	1		09/27/17 23:04	75-00-3	
Chloroform	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	67-66-3	
Chloromethane	ND	mg/kg	0.0097	0.0023	1		09/27/17 23:04	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0049	0.0035	1		09/27/17 23:04	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	106-93-4	
Dibromomethane	ND	mg/kg	0.0049	0.0024	1		09/27/17 23:04	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	0.0018	1		09/27/17 23:04	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	0.0019	1		09/27/17 23:04	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0097	0.0035	1		09/27/17 23:04	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	0.0015	1		09/27/17 23:04	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	0.0021	1		09/27/17 23:04	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	0.0014	1		09/27/17 23:04	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	0.0018	1		09/27/17 23:04	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	0.0018	1		09/27/17 23:04	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	0.0015	1		09/27/17 23:04	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	0.0015	1		09/27/17 23:04	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	108-20-3	
Ethylbenzene	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	100-41-4	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS8 **Lab ID: 92356367008** Collected: 09/20/17 13:10 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	0.0019	1		09/27/17 23:04	87-68-3	
2-Hexanone	ND	mg/kg	0.049	0.0038	1		09/27/17 23:04	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	0.0018	1		09/27/17 23:04	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	0.0029	1		09/27/17 23:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.049	0.0036	1		09/27/17 23:04	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	0.0015	1		09/27/17 23:04	1634-04-4	
Naphthalene	ND	mg/kg	0.0049	0.0012	1		09/27/17 23:04	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	103-65-1	
Styrene	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	0.0020	1		09/27/17 23:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	0.0018	1		09/27/17 23:04	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	127-18-4	L2
Toluene	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	0.0021	1		09/27/17 23:04	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	0.0020	1		09/27/17 23:04	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	0.0020	1		09/27/17 23:04	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	0.0021	1		09/27/17 23:04	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	0.0016	1		09/27/17 23:04	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	0.0019	1		09/27/17 23:04	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	0.0017	1		09/27/17 23:04	108-67-8	
Vinyl acetate	ND	mg/kg	0.049	0.0085	1		09/27/17 23:04	108-05-4	L2
Vinyl chloride	ND	mg/kg	0.0097	0.0017	1		09/27/17 23:04	75-01-4	
Xylene (Total)	ND	mg/kg	0.0097	0.0035	1		09/27/17 23:04	1330-20-7	
m&p-Xylene	ND	mg/kg	0.0097	0.0035	1		09/27/17 23:04	179601-23-1	
o-Xylene	ND	mg/kg	0.0049	0.0018	1		09/27/17 23:04	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		09/27/17 23:04	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		09/27/17 23:04	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-132		1		09/27/17 23:04	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	24.0	%	0.10	0.10	1		09/25/17 11:10		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS9 **Lab ID: 92356367009** Collected: 09/20/17 16:30 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	11.4	11.4	1	09/27/17 13:09	09/28/17 16:48		N2
Aliphatic (C19-C36)	ND	mg/kg	11.4	11.4	1	09/27/17 13:09	09/28/17 16:48		N2
Aromatic (C11-C22)	ND	mg/kg	11.4	11.4	1	09/27/17 13:09	09/28/17 16:48		N2
Surrogates									
Nonatriacontane (S)	53	%	40-140		1	09/27/17 13:09	09/28/17 16:48	7194-86-7	
o-Terphenyl (S)	59	%	40-140		1	09/27/17 13:09	09/28/17 16:48	84-15-1	
2-Fluorobiphenyl (S)	84	%	40-140		1	09/27/17 13:09	09/28/17 16:48	321-60-8	
2-Bromonaphthalene (S)	83	%	40-140		1	09/27/17 13:09	09/28/17 16:48	580-13-2	
VPH NC Soil Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	2.8	2.8	1	09/25/17 10:30	09/26/17 05:56		N2
Aliphatic (C09-C12)	ND	mg/kg	2.8	2.8	1	09/25/17 10:30	09/26/17 05:56		N2
Aromatic (C09-C10)	ND	mg/kg	2.8	2.8	1	09/25/17 10:30	09/26/17 05:56		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	99	%	70-130		1	09/25/17 10:30	09/26/17 05:56	460-00-4	
4-Bromofluorobenzene (PID) (S)	96	%	70-130		1	09/25/17 10:30	09/26/17 05:56	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.37	0.086	1	09/23/17 06:51	09/26/17 09:33	83-32-9	
Acenaphthylene	ND	mg/kg	0.37	0.088	1	09/23/17 06:51	09/26/17 09:33	208-96-8	
Aniline	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 09:33	62-53-3	
Anthracene	ND	mg/kg	0.37	0.084	1	09/23/17 06:51	09/26/17 09:33	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.37	0.069	1	09/23/17 06:51	09/26/17 09:33	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.37	0.071	1	09/23/17 06:51	09/26/17 09:33	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.37	0.065	1	09/23/17 06:51	09/26/17 09:33	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.37	0.095	1	09/23/17 06:51	09/26/17 09:33	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.37	0.074	1	09/23/17 06:51	09/26/17 09:33	207-08-9	
Benzoic Acid	ND	mg/kg	1.9	0.068	1	09/23/17 06:51	09/26/17 09:33	65-85-0	
Benzyl alcohol	ND	mg/kg	0.75	0.075	1	09/23/17 06:51	09/26/17 09:33	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.37	0.068	1	09/23/17 06:51	09/26/17 09:33	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.37	0.079	1	09/23/17 06:51	09/26/17 09:33	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.75	0.077	1	09/23/17 06:51	09/26/17 09:33	59-50-7	
4-Chloroaniline	ND	mg/kg	1.9	0.10	1	09/23/17 06:51	09/26/17 09:33	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.37	0.087	1	09/23/17 06:51	09/26/17 09:33	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.37	0.095	1	09/23/17 06:51	09/26/17 09:33	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.37	0.074	1	09/23/17 06:51	09/26/17 09:33	91-58-7	
2-Chlorophenol	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 09:33	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 09:33	7005-72-3	
Chrysene	ND	mg/kg	0.37	0.050	1	09/23/17 06:51	09/26/17 09:33	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.37	0.079	1	09/23/17 06:51	09/26/17 09:33	53-70-3	
Dibenzofuran	ND	mg/kg	0.37	0.061	1	09/23/17 06:51	09/26/17 09:33	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 09:33	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.37	0.085	1	09/23/17 06:51	09/26/17 09:33	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 09:33	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	1.9	0.082	1	09/23/17 06:51	09/26/17 09:33	91-94-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS9 **Lab ID: 92356367009** Collected: 09/20/17 16:30 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.37	0.082	1	09/23/17 06:51	09/26/17 09:33	120-83-2	
Diethylphthalate	ND	mg/kg	0.37	0.058	1	09/23/17 06:51	09/26/17 09:33	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.37	0.15	1	09/23/17 06:51	09/26/17 09:33	105-67-9	
Dimethylphthalate	ND	mg/kg	0.37	0.076	1	09/23/17 06:51	09/26/17 09:33	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.37	0.061	1	09/23/17 06:51	09/26/17 09:33	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.75	0.075	1	09/23/17 06:51	09/26/17 09:33	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.9	0.061	1	09/23/17 06:51	09/26/17 09:33	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.37	0.070	1	09/23/17 06:51	09/26/17 09:33	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.37	0.078	1	09/23/17 06:51	09/26/17 09:33	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.37	0.078	1	09/23/17 06:51	09/26/17 09:33	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 09:33	117-81-7	
Fluoranthene	ND	mg/kg	0.37	0.054	1	09/23/17 06:51	09/26/17 09:33	206-44-0	
Fluorene	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 09:33	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.37	0.065	1	09/23/17 06:51	09/26/17 09:33	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.37	0.048	1	09/23/17 06:51	09/26/17 09:33	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.37	0.069	1	09/23/17 06:51	09/26/17 09:33	77-47-4	
Hexachloroethane	ND	mg/kg	0.37	0.099	1	09/23/17 06:51	09/26/17 09:33	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 09:33	193-39-5	
Isophorone	ND	mg/kg	0.37	0.084	1	09/23/17 06:51	09/26/17 09:33	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.37	0.098	1	09/23/17 06:51	09/26/17 09:33	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.37	0.081	1	09/23/17 06:51	09/26/17 09:33	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 09:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.37	0.15	1	09/23/17 06:51	09/26/17 09:33	15831-10-4	
Naphthalene	ND	mg/kg	0.37	0.092	1	09/23/17 06:51	09/26/17 09:33	91-20-3	
2-Nitroaniline	ND	mg/kg	1.9	0.12	1	09/23/17 06:51	09/26/17 09:33	88-74-4	
3-Nitroaniline	ND	mg/kg	1.9	0.10	1	09/23/17 06:51	09/26/17 09:33	99-09-2	
4-Nitroaniline	ND	mg/kg	0.75	0.11	1	09/23/17 06:51	09/26/17 09:33	100-01-6	
Nitrobenzene	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 09:33	98-95-3	
2-Nitrophenol	ND	mg/kg	0.37	0.091	1	09/23/17 06:51	09/26/17 09:33	88-75-5	
4-Nitrophenol	ND	mg/kg	1.9	0.067	1	09/23/17 06:51	09/26/17 09:33	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.37	0.12	1	09/23/17 06:51	09/26/17 09:33	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.37	0.071	1	09/23/17 06:51	09/26/17 09:33	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 09:33	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 09:33	108-60-1	
Pentachlorophenol	ND	mg/kg	1.9	0.068	1	09/23/17 06:51	09/26/17 09:33	87-86-5	
Phenanthrene	ND	mg/kg	0.37	0.062	1	09/23/17 06:51	09/26/17 09:33	85-01-8	
Phenol	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 09:33	108-95-2	
Pyrene	ND	mg/kg	0.37	0.064	1	09/23/17 06:51	09/26/17 09:33	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.37	0.073	1	09/23/17 06:51	09/26/17 09:33	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.37	0.12	1	09/23/17 06:51	09/26/17 09:33	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.37	0.083	1	09/23/17 06:51	09/26/17 09:33	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	42	%	23-110		1	09/23/17 06:51	09/26/17 09:33	4165-60-0	
2-Fluorobiphenyl (S)	35	%	30-110		1	09/23/17 06:51	09/26/17 09:33	321-60-8	
Terphenyl-d14 (S)	45	%	28-110		1	09/23/17 06:51	09/26/17 09:33	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS9 **Lab ID: 92356367009** Collected: 09/20/17 16:30 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	42	%	22-110		1	09/23/17 06:51	09/26/17 09:33	13127-88-3	
2-Fluorophenol (S)	43	%	13-110		1	09/23/17 06:51	09/26/17 09:33	367-12-4	
2,4,6-Tribromophenol (S)	58	%	27-110		1	09/23/17 06:51	09/26/17 09:33	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.047J	mg/kg	0.092	0.0092	1		09/27/17 23:25	67-64-1	M1
Benzene	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:25	71-43-2	
Bromobenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:25	108-86-1	
Bromochloromethane	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:25	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	75-27-4	
Bromoform	ND	mg/kg	0.0046	0.0021	1		09/27/17 23:25	75-25-2	
Bromomethane	ND	mg/kg	0.0092	0.0023	1		09/27/17 23:25	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.092	0.0027	1		09/27/17 23:25	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:25	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:25	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0046	0.0024	1		09/27/17 23:25	56-23-5	
Chlorobenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	108-90-7	
Chloroethane	ND	mg/kg	0.0092	0.0022	1		09/27/17 23:25	75-00-3	
Chloroform	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:25	67-66-3	
Chloromethane	ND	mg/kg	0.0092	0.0022	1		09/27/17 23:25	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:25	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0046	0.0033	1		09/27/17 23:25	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	106-93-4	
Dibromomethane	ND	mg/kg	0.0046	0.0023	1		09/27/17 23:25	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:25	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:25	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0092	0.0033	1		09/27/17 23:25	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0046	0.0014	1		09/27/17 23:25	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0046	0.0020	1		09/27/17 23:25	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0046	0.0013	1		09/27/17 23:25	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:25	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:25	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0046	0.0014	1		09/27/17 23:25	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0046	0.0014	1		09/27/17 23:25	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:25	108-20-3	
Ethylbenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	100-41-4	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS9 **Lab ID: 92356367009** Collected: 09/20/17 16:30 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics									
Analytical Method: EPA 8260									
Hexachloro-1,3-butadiene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:25	87-68-3	M1
2-Hexanone	ND	mg/kg	0.046	0.0036	1		09/27/17 23:25	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:25	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	0.0028	1		09/27/17 23:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.046	0.0034	1		09/27/17 23:25	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	0.0014	1		09/27/17 23:25	1634-04-4	
Naphthalene	ND	mg/kg	0.0046	0.0011	1		09/27/17 23:25	91-20-3	M1
n-Propylbenzene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:25	103-65-1	
Styrene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0046	0.0019	1		09/27/17 23:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:25	127-18-4	L2,M0
Toluene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0046	0.0020	1		09/27/17 23:25	87-61-6	M1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:25	120-82-1	M1
1,1,1-Trichloroethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0046	0.0019	1		09/27/17 23:25	79-00-5	
Trichloroethene	ND	mg/kg	0.0046	0.0019	1		09/27/17 23:25	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0046	0.0020	1		09/27/17 23:25	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:25	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:25	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	108-67-8	
Vinyl acetate	ND	mg/kg	0.046	0.0081	1		09/27/17 23:25	108-05-4	L2,M0
Vinyl chloride	ND	mg/kg	0.0092	0.0017	1		09/27/17 23:25	75-01-4	
Xylene (Total)	ND	mg/kg	0.0092	0.0033	1		09/27/17 23:25	1330-20-7	
m&p-Xylene	ND	mg/kg	0.0092	0.0033	1		09/27/17 23:25	179601-23-1	
o-Xylene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:25	95-47-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		09/27/17 23:25	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		09/27/17 23:25	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-132		1		09/27/17 23:25	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.6	%	0.10	0.10	1		09/25/17 11:10		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS10 **Lab ID: 92356367010** Collected: 09/19/17 15:10 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	11.3	11.3	1	09/27/17 13:09	09/28/17 17:16		N2
Aliphatic (C19-C36)	ND	mg/kg	11.3	11.3	1	09/27/17 13:09	09/28/17 17:16		N2
Aromatic (C11-C22)	ND	mg/kg	11.3	11.3	1	09/27/17 13:09	09/28/17 17:16		N2
Surrogates									
Nonatriacontane (S)	41	%	40-140		1	09/27/17 13:09	09/28/17 17:16	7194-86-7	
o-Terphenyl (S)	45	%	40-140		1	09/27/17 13:09	09/28/17 17:16	84-15-1	
2-Fluorobiphenyl (S)	84	%	40-140		1	09/27/17 13:09	09/28/17 17:16	321-60-8	
2-Bromonaphthalene (S)	84	%	40-140		1	09/27/17 13:09	09/28/17 17:16	580-13-2	
VPH NC Soil Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	2.8	2.8	1	09/25/17 10:30	09/26/17 06:24		N2
Aliphatic (C09-C12)	ND	mg/kg	2.8	2.8	1	09/25/17 10:30	09/26/17 06:24		N2
Aromatic (C09-C10)	ND	mg/kg	2.8	2.8	1	09/25/17 10:30	09/26/17 06:24		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	112	%	70-130		1	09/25/17 10:30	09/26/17 06:24	460-00-4	
4-Bromofluorobenzene (PID) (S)	107	%	70-130		1	09/25/17 10:30	09/26/17 06:24	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.37	0.085	1	09/23/17 06:51	09/26/17 10:02	83-32-9	
Acenaphthylene	ND	mg/kg	0.37	0.087	1	09/23/17 06:51	09/26/17 10:02	208-96-8	
Aniline	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 10:02	62-53-3	
Anthracene	ND	mg/kg	0.37	0.083	1	09/23/17 06:51	09/26/17 10:02	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.37	0.068	1	09/23/17 06:51	09/26/17 10:02	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.37	0.070	1	09/23/17 06:51	09/26/17 10:02	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.37	0.064	1	09/23/17 06:51	09/26/17 10:02	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.37	0.094	1	09/23/17 06:51	09/26/17 10:02	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.37	0.073	1	09/23/17 06:51	09/26/17 10:02	207-08-9	
Benzoic Acid	ND	mg/kg	1.8	0.067	1	09/23/17 06:51	09/26/17 10:02	65-85-0	
Benzyl alcohol	ND	mg/kg	0.74	0.074	1	09/23/17 06:51	09/26/17 10:02	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.37	0.067	1	09/23/17 06:51	09/26/17 10:02	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.37	0.078	1	09/23/17 06:51	09/26/17 10:02	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.74	0.076	1	09/23/17 06:51	09/26/17 10:02	59-50-7	
4-Chloroaniline	ND	mg/kg	1.8	0.10	1	09/23/17 06:51	09/26/17 10:02	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.37	0.086	1	09/23/17 06:51	09/26/17 10:02	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.37	0.094	1	09/23/17 06:51	09/26/17 10:02	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.37	0.073	1	09/23/17 06:51	09/26/17 10:02	91-58-7	
2-Chlorophenol	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 10:02	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.37	0.076	1	09/23/17 06:51	09/26/17 10:02	7005-72-3	
Chrysene	ND	mg/kg	0.37	0.049	1	09/23/17 06:51	09/26/17 10:02	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.37	0.078	1	09/23/17 06:51	09/26/17 10:02	53-70-3	
Dibenzofuran	ND	mg/kg	0.37	0.060	1	09/23/17 06:51	09/26/17 10:02	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.37	0.098	1	09/23/17 06:51	09/26/17 10:02	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.37	0.084	1	09/23/17 06:51	09/26/17 10:02	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 10:02	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	1.8	0.081	1	09/23/17 06:51	09/26/17 10:02	91-94-1	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS10 **Lab ID: 92356367010** Collected: 09/19/17 15:10 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.37	0.081	1	09/23/17 06:51	09/26/17 10:02	120-83-2	
Diethylphthalate	ND	mg/kg	0.37	0.057	1	09/23/17 06:51	09/26/17 10:02	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.37	0.15	1	09/23/17 06:51	09/26/17 10:02	105-67-9	
Dimethylphthalate	ND	mg/kg	0.37	0.075	1	09/23/17 06:51	09/26/17 10:02	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.37	0.060	1	09/23/17 06:51	09/26/17 10:02	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.74	0.074	1	09/23/17 06:51	09/26/17 10:02	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.8	0.060	1	09/23/17 06:51	09/26/17 10:02	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.37	0.069	1	09/23/17 06:51	09/26/17 10:02	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 10:02	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 10:02	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 10:02	117-81-7	
Fluoranthene	ND	mg/kg	0.37	0.054	1	09/23/17 06:51	09/26/17 10:02	206-44-0	
Fluorene	ND	mg/kg	0.37	0.076	1	09/23/17 06:51	09/26/17 10:02	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.37	0.064	1	09/23/17 06:51	09/26/17 10:02	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.37	0.047	1	09/23/17 06:51	09/26/17 10:02	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.37	0.068	1	09/23/17 06:51	09/26/17 10:02	77-47-4	
Hexachloroethane	ND	mg/kg	0.37	0.097	1	09/23/17 06:51	09/26/17 10:02	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.37	0.076	1	09/23/17 06:51	09/26/17 10:02	193-39-5	
Isophorone	ND	mg/kg	0.37	0.083	1	09/23/17 06:51	09/26/17 10:02	78-59-1	
1-Methylnaphthalene	ND	mg/kg	0.37	0.096	1	09/23/17 06:51	09/26/17 10:02	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.37	0.079	1	09/23/17 06:51	09/26/17 10:02	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 10:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.37	0.15	1	09/23/17 06:51	09/26/17 10:02	15831-10-4	
Naphthalene	ND	mg/kg	0.37	0.091	1	09/23/17 06:51	09/26/17 10:02	91-20-3	
2-Nitroaniline	ND	mg/kg	1.8	0.11	1	09/23/17 06:51	09/26/17 10:02	88-74-4	
3-Nitroaniline	ND	mg/kg	1.8	0.10	1	09/23/17 06:51	09/26/17 10:02	99-09-2	
4-Nitroaniline	ND	mg/kg	0.74	0.10	1	09/23/17 06:51	09/26/17 10:02	100-01-6	
Nitrobenzene	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 10:02	98-95-3	
2-Nitrophenol	ND	mg/kg	0.37	0.089	1	09/23/17 06:51	09/26/17 10:02	88-75-5	
4-Nitrophenol	ND	mg/kg	1.8	0.066	1	09/23/17 06:51	09/26/17 10:02	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.37	0.12	1	09/23/17 06:51	09/26/17 10:02	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.37	0.070	1	09/23/17 06:51	09/26/17 10:02	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 10:02	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.37	0.098	1	09/23/17 06:51	09/26/17 10:02	108-60-1	
Pentachlorophenol	ND	mg/kg	1.8	0.067	1	09/23/17 06:51	09/26/17 10:02	87-86-5	
Phenanthrene	ND	mg/kg	0.37	0.062	1	09/23/17 06:51	09/26/17 10:02	85-01-8	
Phenol	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 10:02	108-95-2	
Pyrene	ND	mg/kg	0.37	0.063	1	09/23/17 06:51	09/26/17 10:02	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.37	0.072	1	09/23/17 06:51	09/26/17 10:02	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 10:02	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.37	0.082	1	09/23/17 06:51	09/26/17 10:02	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	50	%	23-110		1	09/23/17 06:51	09/26/17 10:02	4165-60-0	
2-Fluorobiphenyl (S)	49	%	30-110		1	09/23/17 06:51	09/26/17 10:02	321-60-8	
Terphenyl-d14 (S)	64	%	28-110		1	09/23/17 06:51	09/26/17 10:02	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS10 **Lab ID: 92356367010** Collected: 09/19/17 15:10 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	49	%	22-110		1	09/23/17 06:51	09/26/17 10:02	13127-88-3	
2-Fluorophenol (S)	50	%	13-110		1	09/23/17 06:51	09/26/17 10:02	367-12-4	
2,4,6-Tribromophenol (S)	64	%	27-110		1	09/23/17 06:51	09/26/17 10:02	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.12	mg/kg	0.092	0.0092	1		09/27/17 23:45	67-64-1	
Benzene	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:45	71-43-2	
Bromobenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	108-86-1	
Bromochloromethane	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:45	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	75-27-4	
Bromoform	ND	mg/kg	0.0046	0.0021	1		09/27/17 23:45	75-25-2	
Bromomethane	ND	mg/kg	0.0092	0.0023	1		09/27/17 23:45	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.092	0.0027	1		09/27/17 23:45	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:45	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0046	0.0024	1		09/27/17 23:45	56-23-5	
Chlorobenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	108-90-7	
Chloroethane	ND	mg/kg	0.0092	0.0022	1		09/27/17 23:45	75-00-3	
Chloroform	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:45	67-66-3	
Chloromethane	ND	mg/kg	0.0092	0.0022	1		09/27/17 23:45	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:45	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0046	0.0033	1		09/27/17 23:45	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	106-93-4	
Dibromomethane	ND	mg/kg	0.0046	0.0023	1		09/27/17 23:45	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:45	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0092	0.0033	1		09/27/17 23:45	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0046	0.0014	1		09/27/17 23:45	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0046	0.0020	1		09/27/17 23:45	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0046	0.0013	1		09/27/17 23:45	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:45	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:45	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0046	0.0014	1		09/27/17 23:45	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0046	0.0014	1		09/27/17 23:45	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:45	108-20-3	
Ethylbenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-SS10 **Lab ID: 92356367010** Collected: 09/19/17 15:10 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	87-68-3	
2-Hexanone	ND	mg/kg	0.046	0.0036	1		09/27/17 23:45	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:45	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	0.0028	1		09/27/17 23:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.046	0.0034	1		09/27/17 23:45	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	0.0014	1		09/27/17 23:45	1634-04-4	
Naphthalene	ND	mg/kg	0.0046	0.0011	1		09/27/17 23:45	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:45	103-65-1	
Styrene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0046	0.0019	1		09/27/17 23:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0046	0.0016	1		09/27/17 23:45	127-18-4	L2
Toluene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0046	0.0020	1		09/27/17 23:45	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:45	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0046	0.0019	1		09/27/17 23:45	79-00-5	
Trichloroethene	ND	mg/kg	0.0046	0.0019	1		09/27/17 23:45	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0046	0.0020	1		09/27/17 23:45	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0046	0.0015	1		09/27/17 23:45	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	0.0017	1		09/27/17 23:45	108-67-8	
Vinyl acetate	ND	mg/kg	0.046	0.0081	1		09/27/17 23:45	108-05-4	L2
Vinyl chloride	ND	mg/kg	0.0092	0.0017	1		09/27/17 23:45	75-01-4	
Xylene (Total)	ND	mg/kg	0.0092	0.0033	1		09/27/17 23:45	1330-20-7	
m&p-Xylene	ND	mg/kg	0.0092	0.0033	1		09/27/17 23:45	179601-23-1	
o-Xylene	ND	mg/kg	0.0046	0.0018	1		09/27/17 23:45	95-47-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		09/27/17 23:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		09/27/17 23:45	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-132		1		09/27/17 23:45	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10	%	0.10	0.10	1		09/25/17 11:10		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-Stockpile **Lab ID: 92356367011** Collected: 09/19/17 12:00 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
MADEP EPH NC Soil Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	mg/kg	11.2	11.2	1	10/02/17 07:58	10/02/17 16:20		N2
Aliphatic (C19-C36)	ND	mg/kg	11.2	11.2	1	10/02/17 07:58	10/02/17 16:20		N2
Aromatic (C11-C22)	ND	mg/kg	11.2	11.2	1	10/02/17 07:58	10/02/17 16:20		N2
Surrogates									
Nonatriacontane (S)	54	%	40-140		1	10/02/17 07:58	10/02/17 16:20	7194-86-7	
o-Terphenyl (S)	91	%	40-140		1	10/02/17 07:58	10/02/17 16:20	84-15-1	
2-Fluorobiphenyl (S)	112	%	40-140		1	10/02/17 07:58	10/02/17 16:20	321-60-8	
2-Bromonaphthalene (S)	119	%	40-140		1	10/02/17 07:58	10/02/17 16:20	580-13-2	
VPH NC Soil Analytical Method: MADEP VPH Preparation Method: MADEP VPH									
Aliphatic (C05-C08)	ND	mg/kg	5.3	5.3	1	09/28/17 10:45	09/29/17 11:46		N2
Aliphatic (C09-C12)	10.8	mg/kg	5.3	5.3	1	09/28/17 10:45	09/29/17 11:46		N2
Aromatic (C09-C10)	20.0	mg/kg	5.3	5.3	1	09/28/17 10:45	09/29/17 11:46		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	109	%	70-130		1	09/28/17 10:45	09/29/17 11:46	460-00-4	
4-Bromofluorobenzene (PID) (S)	121	%	70-130		1	09/28/17 10:45	09/29/17 11:46	460-00-4	
8270 MSSV Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	mg/kg	0.37	0.084	1	09/23/17 06:51	09/26/17 10:31	83-32-9	
Acenaphthylene	ND	mg/kg	0.37	0.087	1	09/23/17 06:51	09/26/17 10:31	208-96-8	
Aniline	ND	mg/kg	0.37	0.099	1	09/23/17 06:51	09/26/17 10:31	62-53-3	
Anthracene	ND	mg/kg	0.37	0.082	1	09/23/17 06:51	09/26/17 10:31	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.37	0.068	1	09/23/17 06:51	09/26/17 10:31	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.37	0.070	1	09/23/17 06:51	09/26/17 10:31	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.37	0.063	1	09/23/17 06:51	09/26/17 10:31	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.37	0.093	1	09/23/17 06:51	09/26/17 10:31	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.37	0.072	1	09/23/17 06:51	09/26/17 10:31	207-08-9	
Benzoic Acid	ND	mg/kg	1.8	0.067	1	09/23/17 06:51	09/26/17 10:31	65-85-0	
Benzyl alcohol	ND	mg/kg	0.73	0.073	1	09/23/17 06:51	09/26/17 10:31	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.37	0.067	1	09/23/17 06:51	09/26/17 10:31	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.37	0.078	1	09/23/17 06:51	09/26/17 10:31	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.73	0.076	1	09/23/17 06:51	09/26/17 10:31	59-50-7	
4-Chloroaniline	ND	mg/kg	1.8	0.10	1	09/23/17 06:51	09/26/17 10:31	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.37	0.086	1	09/23/17 06:51	09/26/17 10:31	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.37	0.093	1	09/23/17 06:51	09/26/17 10:31	111-44-4	
2-Chloronaphthalene	ND	mg/kg	0.37	0.072	1	09/23/17 06:51	09/26/17 10:31	91-58-7	
2-Chlorophenol	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 10:31	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.37	0.076	1	09/23/17 06:51	09/26/17 10:31	7005-72-3	
Chrysene	0.058J	mg/kg	0.37	0.049	1	09/23/17 06:51	09/26/17 10:31	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.37	0.078	1	09/23/17 06:51	09/26/17 10:31	53-70-3	
Dibenzofuran	ND	mg/kg	0.37	0.060	1	09/23/17 06:51	09/26/17 10:31	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.37	0.098	1	09/23/17 06:51	09/26/17 10:31	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.37	0.083	1	09/23/17 06:51	09/26/17 10:31	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 10:31	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	1.8	0.080	1	09/23/17 06:51	09/26/17 10:31	91-94-1	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-Stockpile **Lab ID: 92356367011** Collected: 09/19/17 12:00 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	mg/kg	0.37	0.080	1	09/23/17 06:51	09/26/17 10:31	120-83-2	
Diethylphthalate	ND	mg/kg	0.37	0.057	1	09/23/17 06:51	09/26/17 10:31	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.37	0.14	1	09/23/17 06:51	09/26/17 10:31	105-67-9	
Dimethylphthalate	ND	mg/kg	0.37	0.074	1	09/23/17 06:51	09/26/17 10:31	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.37	0.060	1	09/23/17 06:51	09/26/17 10:31	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.73	0.073	1	09/23/17 06:51	09/26/17 10:31	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.8	0.060	1	09/23/17 06:51	09/26/17 10:31	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.37	0.069	1	09/23/17 06:51	09/26/17 10:31	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 10:31	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.37	0.077	1	09/23/17 06:51	09/26/17 10:31	117-84-0	
bis(2-Ethylhexyl)phthalate	0.63	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 10:31	117-81-7	
Fluoranthene	0.11J	mg/kg	0.37	0.053	1	09/23/17 06:51	09/26/17 10:31	206-44-0	
Fluorene	ND	mg/kg	0.37	0.076	1	09/23/17 06:51	09/26/17 10:31	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.37	0.063	1	09/23/17 06:51	09/26/17 10:31	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.37	0.047	1	09/23/17 06:51	09/26/17 10:31	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.37	0.068	1	09/23/17 06:51	09/26/17 10:31	77-47-4	
Hexachloroethane	ND	mg/kg	0.37	0.097	1	09/23/17 06:51	09/26/17 10:31	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.37	0.076	1	09/23/17 06:51	09/26/17 10:31	193-39-5	
Isophorone	ND	mg/kg	0.37	0.082	1	09/23/17 06:51	09/26/17 10:31	78-59-1	
1-Methylnaphthalene	0.12J	mg/kg	0.37	0.095	1	09/23/17 06:51	09/26/17 10:31	90-12-0	
2-Methylnaphthalene	0.21J	mg/kg	0.37	0.079	1	09/23/17 06:51	09/26/17 10:31	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 10:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.37	0.14	1	09/23/17 06:51	09/26/17 10:31	15831-10-4	
Naphthalene	ND	mg/kg	0.37	0.090	1	09/23/17 06:51	09/26/17 10:31	91-20-3	
2-Nitroaniline	ND	mg/kg	1.8	0.11	1	09/23/17 06:51	09/26/17 10:31	88-74-4	
3-Nitroaniline	ND	mg/kg	1.8	0.10	1	09/23/17 06:51	09/26/17 10:31	99-09-2	
4-Nitroaniline	ND	mg/kg	0.73	0.10	1	09/23/17 06:51	09/26/17 10:31	100-01-6	
Nitrobenzene	ND	mg/kg	0.37	0.10	1	09/23/17 06:51	09/26/17 10:31	98-95-3	
2-Nitrophenol	ND	mg/kg	0.37	0.089	1	09/23/17 06:51	09/26/17 10:31	88-75-5	
4-Nitrophenol	ND	mg/kg	1.8	0.066	1	09/23/17 06:51	09/26/17 10:31	100-02-7	
N-Nitrosodimethylamine	ND	mg/kg	0.37	0.12	1	09/23/17 06:51	09/26/17 10:31	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.37	0.070	1	09/23/17 06:51	09/26/17 10:31	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 10:31	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	mg/kg	0.37	0.098	1	09/23/17 06:51	09/26/17 10:31	108-60-1	
Pentachlorophenol	ND	mg/kg	1.8	0.067	1	09/23/17 06:51	09/26/17 10:31	87-86-5	
Phenanthrene	0.075J	mg/kg	0.37	0.061	1	09/23/17 06:51	09/26/17 10:31	85-01-8	
Phenol	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 10:31	108-95-2	
Pyrene	0.095J	mg/kg	0.37	0.062	1	09/23/17 06:51	09/26/17 10:31	129-00-0	
1,2,4-Trichlorobenzene	ND	mg/kg	0.37	0.071	1	09/23/17 06:51	09/26/17 10:31	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.37	0.11	1	09/23/17 06:51	09/26/17 10:31	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.37	0.081	1	09/23/17 06:51	09/26/17 10:31	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	42	%	23-110		1	09/23/17 06:51	09/26/17 10:31	4165-60-0	
2-Fluorobiphenyl (S)	42	%	30-110		1	09/23/17 06:51	09/26/17 10:31	321-60-8	
Terphenyl-d14 (S)	61	%	28-110		1	09/23/17 06:51	09/26/17 10:31	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-Stockpile **Lab ID: 92356367011** Collected: 09/19/17 12:00 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Surrogates									
Phenol-d6 (S)	40	%	22-110		1	09/23/17 06:51	09/26/17 10:31	13127-88-3	
2-Fluorophenol (S)	37	%	13-110		1	09/23/17 06:51	09/26/17 10:31	367-12-4	
2,4,6-Tribromophenol (S)	68	%	27-110		1	09/23/17 06:51	09/26/17 10:31	118-79-6	
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	0.11	mg/kg	0.086	0.0086	1		09/28/17 00:05	67-64-1	
Benzene	ND	mg/kg	0.0043	0.0014	1		09/28/17 00:05	71-43-2	
Bromobenzene	ND	mg/kg	0.0043	0.0017	1		09/28/17 00:05	108-86-1	
Bromochloromethane	ND	mg/kg	0.0043	0.0015	1		09/28/17 00:05	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	75-27-4	
Bromoform	ND	mg/kg	0.0043	0.0020	1		09/28/17 00:05	75-25-2	
Bromomethane	ND	mg/kg	0.0086	0.0022	1		09/28/17 00:05	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.086	0.0025	1		09/28/17 00:05	78-93-3	
n-Butylbenzene	0.17	mg/kg	0.0043	0.0016	1		09/28/17 00:05	104-51-8	
sec-Butylbenzene	0.058	mg/kg	0.0043	0.0014	1		09/28/17 00:05	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0043	0.0017	1		09/28/17 00:05	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.0043	0.0022	1		09/28/17 00:05	56-23-5	
Chlorobenzene	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	108-90-7	
Chloroethane	ND	mg/kg	0.0086	0.0021	1		09/28/17 00:05	75-00-3	
Chloroform	ND	mg/kg	0.0043	0.0014	1		09/28/17 00:05	67-66-3	
Chloromethane	ND	mg/kg	0.0086	0.0021	1		09/28/17 00:05	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0043	0.0015	1		09/28/17 00:05	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0043	0.0031	1		09/28/17 00:05	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	106-93-4	
Dibromomethane	ND	mg/kg	0.0043	0.0022	1		09/28/17 00:05	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0043	0.0017	1		09/28/17 00:05	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0043	0.0015	1		09/28/17 00:05	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0086	0.0031	1		09/28/17 00:05	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0043	0.0013	1		09/28/17 00:05	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0043	0.0019	1		09/28/17 00:05	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0043	0.0012	1		09/28/17 00:05	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0043	0.0015	1		09/28/17 00:05	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0043	0.0015	1		09/28/17 00:05	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0043	0.0013	1		09/28/17 00:05	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0043	0.0013	1		09/28/17 00:05	10061-02-6	
Diisopropyl ether	ND	mg/kg	0.0043	0.0015	1		09/28/17 00:05	108-20-3	
Ethylbenzene	0.15	mg/kg	0.0043	0.0016	1		09/28/17 00:05	100-41-4	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-Stockpile **Lab ID: 92356367011** Collected: 09/19/17 12:00 Received: 09/22/17 08:44 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND	mg/kg	0.0043	0.0017	1		09/28/17 00:05	87-68-3	
2-Hexanone	ND	mg/kg	0.043	0.0034	1		09/28/17 00:05	591-78-6	
Isopropylbenzene (Cumene)	0.061	mg/kg	0.0043	0.0016	1		09/28/17 00:05	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0043	0.0015	1		09/28/17 00:05	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	0.0026	1		09/28/17 00:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.043	0.0032	1		09/28/17 00:05	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0043	0.0013	1		09/28/17 00:05	1634-04-4	
Naphthalene	0.33	mg/kg	0.18	0.042	25		09/28/17 13:02	91-20-3	
n-Propylbenzene	0.27	mg/kg	0.0043	0.0015	1		09/28/17 00:05	103-65-1	E
Styrene	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0043	0.0018	1		09/28/17 00:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0043	0.0015	1		09/28/17 00:05	127-18-4	L2
Toluene	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0043	0.0019	1		09/28/17 00:05	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0043	0.0014	1		09/28/17 00:05	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0043	0.0016	1		09/28/17 00:05	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0043	0.0018	1		09/28/17 00:05	79-00-5	
Trichloroethene	ND	mg/kg	0.0043	0.0018	1		09/28/17 00:05	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0043	0.0019	1		09/28/17 00:05	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0043	0.0014	1		09/28/17 00:05	96-18-4	
1,2,4-Trimethylbenzene	0.022	mg/kg	0.0043	0.0017	1		09/28/17 00:05	95-63-6	
1,3,5-Trimethylbenzene	0.0039J	mg/kg	0.0043	0.0016	1		09/28/17 00:05	108-67-8	
Vinyl acetate	ND	mg/kg	0.043	0.0076	1		09/28/17 00:05	108-05-4	L2
Vinyl chloride	ND	mg/kg	0.0086	0.0016	1		09/28/17 00:05	75-01-4	
Xylene (Total)	ND	mg/kg	0.0086	0.0031	1		09/28/17 00:05	1330-20-7	
m&p-Xylene	0.0048J	mg/kg	0.0086	0.0031	1		09/28/17 00:05	179601-23-1	
o-Xylene	0.0018J	mg/kg	0.0043	0.0016	1		09/28/17 00:05	95-47-6	
Surrogates									
Toluene-d8 (S)	90	%	70-130		1		09/28/17 00:05	2037-26-5	
4-Bromofluorobenzene (S)	138	%	70-130		1		09/28/17 00:05	460-00-4	S1
1,2-Dichloroethane-d4 (S)	94	%	70-132		1		09/28/17 00:05	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.8	%	0.10	0.10	1		09/25/17 11:10		

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-TMW-1 **Lab ID: 92356367012** Collected: 09/21/17 08:30 Received: 09/22/17 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
MADEP EPH NC Water									
Analytical Method: MADEP EPH Preparation Method: MADEP EPH									
Aliphatic (C09-C18)	ND	ug/L	100	100	1	09/25/17 11:04	09/26/17 04:02		N2
Aliphatic (C19-C36)	ND	ug/L	100	100	1	09/25/17 11:04	09/26/17 04:02		N2
Aromatic (C11-C22)	ND	ug/L	100	100	1	09/25/17 11:04	09/26/17 04:02		N2
Surrogates									
Nonatriacontane (S)	52	%	40-140		1	09/25/17 11:04	09/26/17 04:02	7194-86-7	
o-Terphenyl (S)	82	%	40-140		1	09/25/17 11:04	09/26/17 04:02	84-15-1	
2-Fluorobiphenyl (S)	112	%	40-140		1	09/25/17 11:04	09/26/17 04:02	321-60-8	
2-Bromonaphthalene (S)	109	%	40-140		1	09/25/17 11:04	09/26/17 04:02	580-13-2	
VPH NC Water									
Analytical Method: MADEP VPH									
Aliphatic (C05-C08)	195	ug/L	50.0	50.0	1		09/25/17 18:20		N2
Aliphatic (C09-C12)	283	ug/L	50.0	50.0	1		09/25/17 18:20		N2
Aromatic (C09-C10)	1030	ug/L	50.0	50.0	1		09/25/17 18:20		N2
Surrogates									
4-Bromofluorobenzene (FID) (S)	94	%	70-130		1		09/25/17 18:20	460-00-4	
4-Bromofluorobenzene (PID) (S)	90	%	70-130		1		09/25/17 18:20	460-00-4	
625 MSSV									
Analytical Method: EPA 625 Preparation Method: EPA 625									
Acenaphthene	ND	ug/L	50.0	2.5	1	09/26/17 11:04	09/27/17 21:50	83-32-9	
Acenaphthylene	ND	ug/L	50.0	2.1	1	09/26/17 11:04	09/27/17 21:50	208-96-8	
Anthracene	ND	ug/L	50.0	1.4	1	09/26/17 11:04	09/27/17 21:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	50.0	3.3	1	09/26/17 11:04	09/27/17 21:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	50.0	3.0	1	09/26/17 11:04	09/27/17 21:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	50.0	2.8	1	09/26/17 11:04	09/27/17 21:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	50.0	3.8	1	09/26/17 11:04	09/27/17 21:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	50.0	4.3	1	09/26/17 11:04	09/27/17 21:50	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	50.0	8.2	1	09/26/17 11:04	09/27/17 21:50	101-55-3	
Butylbenzylphthalate	ND	ug/L	50.0	7.9	1	09/26/17 11:04	09/27/17 21:50	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	50.0	37.0	1	09/26/17 11:04	09/27/17 21:50	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	100	9.2	1	09/26/17 11:04	09/27/17 21:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	50.0	10.0	1	09/26/17 11:04	09/27/17 21:50	111-44-4	
2-Chloronaphthalene	ND	ug/L	50.0	9.8	1	09/26/17 11:04	09/27/17 21:50	91-58-7	
2-Chlorophenol	ND	ug/L	50.0	13.0	1	09/26/17 11:04	09/27/17 21:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	50.0	8.7	1	09/26/17 11:04	09/27/17 21:50	7005-72-3	
Chrysene	ND	ug/L	50.0	2.1	1	09/26/17 11:04	09/27/17 21:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	50.0	5.5	1	09/26/17 11:04	09/27/17 21:50	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	250	21.0	1	09/26/17 11:04	09/27/17 21:50	91-94-1	
2,4-Dichlorophenol	ND	ug/L	50.0	17.0	1	09/26/17 11:04	09/27/17 21:50	120-83-2	
Diethylphthalate	ND	ug/L	50.0	5.8	1	09/26/17 11:04	09/27/17 21:50	84-66-2	
2,4-Dimethylphenol	ND	ug/L	100	12.0	1	09/26/17 11:04	09/27/17 21:50	105-67-9	
Dimethylphthalate	ND	ug/L	50.0	7.6	1	09/26/17 11:04	09/27/17 21:50	131-11-3	
Di-n-butylphthalate	ND	ug/L	50.0	7.5	1	09/26/17 11:04	09/27/17 21:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	200	26.0	1	09/26/17 11:04	09/27/17 21:50	534-52-1	
2,4-Dinitrophenol	ND	ug/L	500	90.0	1	09/26/17 11:04	09/27/17 21:50	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	50.0	9.0	1	09/26/17 11:04	09/27/17 21:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	50.0	9.8	1	09/26/17 11:04	09/27/17 21:50	606-20-2	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-TMW-1 **Lab ID: 92356367012** Collected: 09/21/17 08:30 Received: 09/22/17 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625									
Di-n-octylphthalate	ND	ug/L	50.0	6.6	1	09/26/17 11:04	09/27/17 21:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	50.0	7.9	1	09/26/17 11:04	09/27/17 21:50	117-81-7	
Fluoranthene	ND	ug/L	50.0	2.1	1	09/26/17 11:04	09/27/17 21:50	206-44-0	
Fluorene	ND	ug/L	50.0	2.1	1	09/26/17 11:04	09/27/17 21:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	9.4	1	09/26/17 11:04	09/27/17 21:50	87-68-3	
Hexachlorobenzene	ND	ug/L	50.0	7.2	1	09/26/17 11:04	09/27/17 21:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	100	8.8	1	09/26/17 11:04	09/27/17 21:50	77-47-4	
Hexachloroethane	ND	ug/L	50.0	11.0	1	09/26/17 11:04	09/27/17 21:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	50.0	2.9	1	09/26/17 11:04	09/27/17 21:50	193-39-5	
Isophorone	ND	ug/L	100	8.9	1	09/26/17 11:04	09/27/17 21:50	78-59-1	
Naphthalene	207	ug/L	50.0	3.4	1	09/26/17 11:04	09/27/17 21:50	91-20-3	
Nitrobenzene	ND	ug/L	50.0	11.0	1	09/26/17 11:04	09/27/17 21:50	98-95-3	
2-Nitrophenol	ND	ug/L	50.0	9.1	1	09/26/17 11:04	09/27/17 21:50	88-75-5	
4-Nitrophenol	ND	ug/L	500	41.0	1	09/26/17 11:04	09/27/17 21:50	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	50.0	9.1	1	09/26/17 11:04	09/27/17 21:50	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	9.9	1	09/26/17 11:04	09/27/17 21:50	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	100	10.0	1	09/26/17 11:04	09/27/17 21:50	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	50.0	9.5	1	09/26/17 11:04	09/27/17 21:50	108-60-1	
Pentachlorophenol	ND	ug/L	100	46.0	1	09/26/17 11:04	09/27/17 21:50	87-86-5	
Phenanthrene	ND	ug/L	50.0	2.2	1	09/26/17 11:04	09/27/17 21:50	85-01-8	
Phenol	ND	ug/L	50.0	19.0	1	09/26/17 11:04	09/27/17 21:50	108-95-2	
Pyrene	ND	ug/L	50.0	1.9	1	09/26/17 11:04	09/27/17 21:50	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	9.8	1	09/26/17 11:04	09/27/17 21:50	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	100	13.0	1	09/26/17 11:04	09/27/17 21:50	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	64	%	10-120		1	09/26/17 11:04	09/27/17 21:50	4165-60-0	
2-Fluorobiphenyl (S)	70	%	15-120		1	09/26/17 11:04	09/27/17 21:50	321-60-8	
Terphenyl-d14 (S)	56	%	11-131		1	09/26/17 11:04	09/27/17 21:50	1718-51-0	
Phenol-d6 (S)	48	%	10-120		1	09/26/17 11:04	09/27/17 21:50	13127-88-3	
2-Fluorophenol (S)	54	%	10-120		1	09/26/17 11:04	09/27/17 21:50	367-12-4	
2,4,6-Tribromophenol (S)	76	%	10-137		1	09/26/17 11:04	09/27/17 21:50	118-79-6	
6200B MSV Analytical Method: SM 6200B									
Benzene	41.5	ug/L	1.0	0.50	2		09/27/17 15:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	75-27-4	
Bromoform	ND	ug/L	1.0	0.50	2		09/27/17 15:38	75-25-2	
Bromomethane	ND	ug/L	10.0	1.0	2		09/27/17 15:38	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	104-51-8	
sec-Butylbenzene	4.9	ug/L	1.0	0.50	2		09/27/17 15:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.50	2		09/27/17 15:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	108-90-7	
Chloroethane	ND	ug/L	2.0	1.0	2		09/27/17 15:38	75-00-3	
Chloroform	ND	ug/L	1.0	0.50	2		09/27/17 15:38	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-TMW-1 **Lab ID: 92356367012** Collected: 09/21/17 08:30 Received: 09/22/17 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6200B MSV									
Analytical Method: SM 6200B									
Chloromethane	ND	ug/L	2.0	1.0	2		09/27/17 15:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.0	2		09/27/17 15:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.50	2		09/27/17 15:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.50	2		09/27/17 15:38	108-20-3	
Ethylbenzene	183	ug/L	1.0	0.50	2		09/27/17 15:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2.0	2		09/27/17 15:38	87-68-3	
Isopropylbenzene (Cumene)	43.1	ug/L	1.0	0.50	2		09/27/17 15:38	98-82-8	
Methylene Chloride	ND	ug/L	4.0	2.0	2		09/27/17 15:38	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.50	2		09/27/17 15:38	1634-04-4	
Naphthalene	377	ug/L	4.0	2.0	2		09/27/17 15:38	91-20-3	
n-Propylbenzene	72.0	ug/L	1.0	0.50	2		09/27/17 15:38	103-65-1	
Styrene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	127-18-4	
Toluene	11.4	ug/L	1.0	0.50	2		09/27/17 15:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	2.0	2		09/27/17 15:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	2.0	2		09/27/17 15:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	1.0	2		09/27/17 15:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.50	2		09/27/17 15:38	96-18-4	
1,2,4-Trimethylbenzene	167	ug/L	1.0	0.50	2		09/27/17 15:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.50	2		09/27/17 15:38	108-67-8	
Vinyl chloride	ND	ug/L	2.0	0.50	2		09/27/17 15:38	75-01-4	
m&p-Xylene	199	ug/L	2.0	1.0	2		09/27/17 15:38	179601-23-1	

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ANALYTICAL RESULTS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Sample: R5021-P004-TMW-1 **Lab ID: 92356367012** Collected: 09/21/17 08:30 Received: 09/22/17 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV									
Analytical Method: SM 6200B									
o-Xylene	78.8	ug/L	1.0	0.50	2		09/27/17 15:38	95-47-6	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	70-130		2		09/27/17 15:38	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130		2		09/27/17 15:38	460-00-4	
Toluene-d8 (S)	100	%	70-130		2		09/27/17 15:38	2037-26-5	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379187 Analysis Method: MADEP VPH
 QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil
 Associated Lab Samples: 92356367001, 92356367002, 92356367003, 92356367004, 92356367005, 92356367006, 92356367007, 92356367008, 92356367009, 92356367010

METHOD BLANK: 2101275 Matrix: Solid
 Associated Lab Samples: 92356367001, 92356367002, 92356367003, 92356367004, 92356367005, 92356367006, 92356367007, 92356367008, 92356367009, 92356367010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.5	2.5	09/25/17 15:33	N2
Aliphatic (C09-C12)	mg/kg	ND	2.5	2.5	09/25/17 15:33	N2
Aromatic (C09-C10)	mg/kg	ND	2.5	2.5	09/25/17 15:33	N2
4-Bromofluorobenzene (FID) (S)	%	94	70-130		09/25/17 15:33	
4-Bromofluorobenzene (PID) (S)	%	91	70-130		09/25/17 15:33	

LABORATORY CONTROL SAMPLE & LCSD: 2101276

Parameter	Units	2101277								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	mg/kg	15	13.0	12.9	87	86	70-130	1	25	N2
Aliphatic (C09-C12)	mg/kg	15	13.5	14.0	90	93	30-130	4	25	N2
Aromatic (C09-C10)	mg/kg	5	3.6	3.8	72	76	70-130	5	25	N2
4-Bromofluorobenzene (FID) (S)	%				100	98	70-130			
4-Bromofluorobenzene (PID) (S)	%				97	94	70-130			

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1
Pace Project No.: 92356367

QC Batch: 379843 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil
Associated Lab Samples: 92356367011

METHOD BLANK: 2105037 Matrix: Solid
Associated Lab Samples: 92356367011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	2.5	2.5	09/29/17 11:18	N2
Aliphatic (C09-C12)	mg/kg	ND	2.5	2.5	09/29/17 11:18	N2
Aromatic (C09-C10)	mg/kg	ND	2.5	2.5	09/29/17 11:18	N2
4-Bromofluorobenzene (FID) (S)	%	98	70-130		09/29/17 11:18	
4-Bromofluorobenzene (PID) (S)	%	117	70-130		09/29/17 11:18	

LABORATORY CONTROL SAMPLE & LCSD: 2105038

Parameter	Units	2105039							Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD		
Aliphatic (C05-C08)	mg/kg	15	14.9	15.4	99	103	70-130	3	25 N2	
Aliphatic (C09-C12)	mg/kg	15	12.9	14.1	86	94	30-130	8	25 N2	
Aromatic (C09-C10)	mg/kg	5	4.3	4.8	86	95	70-130	10	25 N2	
4-Bromofluorobenzene (FID) (S)	%				97	101	70-130			
4-Bromofluorobenzene (PID) (S)	%				116	121	70-130			

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379189	Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH	Analysis Description: VPH NC Water
Associated Lab Samples: 92356367012	

METHOD BLANK: 2101288 Matrix: Water

Associated Lab Samples: 92356367012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	50.0	50.0	09/25/17 16:01	N2
Aliphatic (C09-C12)	ug/L	ND	50.0	50.0	09/25/17 16:01	N2
Aromatic (C09-C10)	ug/L	ND	50.0	50.0	09/25/17 16:01	N2
4-Bromofluorobenzene (FID) (S)	%	97	70-130		09/25/17 16:01	
4-Bromofluorobenzene (PID) (S)	%	94	70-130		09/25/17 16:01	

LABORATORY CONTROL SAMPLE & LCSD: 2101289

2101290

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	300	266	252	89	84	70-130	5	25	N2
Aliphatic (C09-C12)	ug/L	300	281	279	94	93	30-130	1	25	N2
Aromatic (C09-C10)	ug/L	100	77.4	78.5	77	78	70-130	1	25	N2
4-Bromofluorobenzene (FID) (S)	%				95	100	70-130			
4-Bromofluorobenzene (PID) (S)	%				91	96	70-130			

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379638

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Associated Lab Samples: 92356367012

METHOD BLANK: 2103847

Matrix: Water

Associated Lab Samples: 92356367012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,1,1-Trichloroethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,1,2-Trichloroethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,1-Dichloroethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,1-Dichloroethene	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,1-Dichloropropene	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	1.0	09/27/17 14:12	
1,2,3-Trichloropropane	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	1.0	09/27/17 14:12	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	0.50	09/27/17 14:12	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,2-Dichlorobenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,2-Dichloroethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,2-Dichloropropane	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,3-Dichlorobenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,3-Dichloropropane	ug/L	ND	0.50	0.25	09/27/17 14:12	
1,4-Dichlorobenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
2,2-Dichloropropane	ug/L	ND	0.50	0.25	09/27/17 14:12	
2-Chlorotoluene	ug/L	ND	0.50	0.25	09/27/17 14:12	
4-Chlorotoluene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Benzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Bromobenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Bromochloromethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
Bromodichloromethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
Bromoform	ug/L	ND	0.50	0.25	09/27/17 14:12	
Bromomethane	ug/L	ND	5.0	0.50	09/27/17 14:12	
Carbon tetrachloride	ug/L	ND	0.50	0.25	09/27/17 14:12	
Chlorobenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Chloroethane	ug/L	ND	1.0	0.50	09/27/17 14:12	
Chloroform	ug/L	ND	0.50	0.25	09/27/17 14:12	
Chloromethane	ug/L	ND	1.0	0.50	09/27/17 14:12	
cis-1,2-Dichloroethene	ug/L	ND	0.50	0.25	09/27/17 14:12	
cis-1,3-Dichloropropene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Dibromochloromethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
Dibromomethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
Dichlorodifluoromethane	ug/L	ND	0.50	0.25	09/27/17 14:12	
Diisopropyl ether	ug/L	ND	0.50	0.25	09/27/17 14:12	
Ethylbenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

METHOD BLANK: 2103847

Matrix: Water

Associated Lab Samples: 92356367012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	2.0	1.0	09/27/17 14:12	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	0.25	09/27/17 14:12	
m&p-Xylene	ug/L	ND	1.0	0.50	09/27/17 14:12	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	09/27/17 14:12	
Methylene Chloride	ug/L	ND	2.0	1.0	09/27/17 14:12	
n-Butylbenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
n-Propylbenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Naphthalene	ug/L	ND	2.0	1.0	09/27/17 14:12	
o-Xylene	ug/L	ND	0.50	0.25	09/27/17 14:12	
sec-Butylbenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Styrene	ug/L	ND	0.50	0.25	09/27/17 14:12	
tert-Butylbenzene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Tetrachloroethene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Toluene	ug/L	ND	0.50	0.25	09/27/17 14:12	
trans-1,2-Dichloroethene	ug/L	ND	0.50	0.25	09/27/17 14:12	
trans-1,3-Dichloropropene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Trichloroethene	ug/L	ND	0.50	0.25	09/27/17 14:12	
Trichlorofluoromethane	ug/L	ND	1.0	0.50	09/27/17 14:12	
Vinyl chloride	ug/L	ND	1.0	0.25	09/27/17 14:12	
1,2-Dichloroethane-d4 (S)	%	107	70-130		09/27/17 14:12	
4-Bromofluorobenzene (S)	%	98	70-130		09/27/17 14:12	
Toluene-d8 (S)	%	101	70-130		09/27/17 14:12	

LABORATORY CONTROL SAMPLE: 2103848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.7	105	60-140	
1,1,1-Trichloroethane	ug/L	50	55.4	111	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	46.2	92	60-140	
1,1,2-Trichloroethane	ug/L	50	48.3	97	60-140	
1,1-Dichloroethane	ug/L	50	47.0	94	60-140	
1,1-Dichloroethene	ug/L	50	55.8	112	60-140	
1,1-Dichloropropene	ug/L	50	49.9	100	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.6	101	60-140	
1,2,3-Trichloropropane	ug/L	50	52.0	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.3	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.2	100	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	60-140	
1,2-Dichlorobenzene	ug/L	50	49.4	99	60-140	
1,2-Dichloroethane	ug/L	50	48.1	96	60-140	
1,2-Dichloropropane	ug/L	50	46.8	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,3-Dichlorobenzene	ug/L	50	50.2	100	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2103848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	49.7	99	60-140	
1,4-Dichlorobenzene	ug/L	50	49.1	98	60-140	
2,2-Dichloropropane	ug/L	50	56.1	112	60-140	
2-Chlorotoluene	ug/L	50	51.1	102	60-140	
4-Chlorotoluene	ug/L	50	50.4	101	60-140	
Benzene	ug/L	50	46.2	92	60-140	
Bromobenzene	ug/L	50	49.4	99	60-140	
Bromochloromethane	ug/L	50	47.0	94	60-140	
Bromodichloromethane	ug/L	50	51.9	104	60-140	
Bromoform	ug/L	50	53.1	106	60-140	
Bromomethane	ug/L	50	43.3	87	60-140	
Carbon tetrachloride	ug/L	50	60.4	121	60-140	
Chlorobenzene	ug/L	50	49.8	100	60-140	
Chloroethane	ug/L	50	45.1	90	60-140	
Chloroform	ug/L	50	45.3	91	60-140	
Chloromethane	ug/L	50	42.7	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Dibromochloromethane	ug/L	50	54.6	109	60-140	
Dibromomethane	ug/L	50	50.7	101	60-140	
Dichlorodifluoromethane	ug/L	50	48.0	96	60-140	
Diisopropyl ether	ug/L	50	48.2	96	60-140	
Ethylbenzene	ug/L	50	52.4	105	60-140	
Hexachloro-1,3-butadiene	ug/L	50	53.4	107	60-140	
Isopropylbenzene (Cumene)	ug/L	50	55.4	111	60-140	
m&p-Xylene	ug/L	100	108	108	60-140	
Methyl-tert-butyl ether	ug/L	50	47.1	94	60-140	
Methylene Chloride	ug/L	50	42.1	84	60-140	
n-Butylbenzene	ug/L	50	53.6	107	60-140	
n-Propylbenzene	ug/L	50	51.0	102	60-140	
Naphthalene	ug/L	50	52.0	104	60-140	
o-Xylene	ug/L	50	53.6	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	51.7	103	60-140	
tert-Butylbenzene	ug/L	50	43.7	87	60-140	
Tetrachloroethene	ug/L	50	52.5	105	60-140	
Toluene	ug/L	50	48.7	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.5	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	60-140	
Trichloroethene	ug/L	50	50.8	102	60-140	
Trichlorofluoromethane	ug/L	50	52.2	104	60-140	
Vinyl chloride	ug/L	50	48.9	98	60-140	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			99	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Parameter	Units	2103849		2103850		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92356202001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	2000	2000	2160	2280	108	114	60-140	5	30		
1,1,1-Trichloroethane	ug/L	ND	2000	2000	2420	2630	121	131	60-140	8	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	2000	2000	1850	2040	93	102	60-140	10	30		
1,1,2-Trichloroethane	ug/L	ND	2000	2000	2000	2100	100	105	60-140	5	30		
1,1-Dichloroethane	ug/L	ND	2000	2000	2070	2220	103	111	60-140	7	30		
1,1-Dichloroethene	ug/L	ND	2000	2000	2430	2620	122	131	60-140	7	30		
1,1-Dichloropropene	ug/L	ND	2000	2000	2240	2360	112	118	60-140	5	30		
1,2,3-Trichlorobenzene	ug/L	ND	2000	2000	1930	2200	97	110	60-140	13	30		
1,2,3-Trichloropropane	ug/L	ND	2000	2000	2030	2130	102	106	60-140	5	30		
1,2,4-Trichlorobenzene	ug/L	ND	2000	2000	2010	2190	101	110	60-140	9	30		
1,2,4-Trimethylbenzene	ug/L	1590	2000	2000	3710	3990	106	120	60-140	7	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	2000	2000	1920	2110	96	105	60-140	9	30		
1,2-Dibromoethane (EDB)	ug/L	ND	2000	2000	2120	2200	106	110	60-140	4	30		
1,2-Dichlorobenzene	ug/L	ND	2000	2000	2000	2150	100	107	60-140	7	30		
1,2-Dichloroethane	ug/L	39.1J	2000	2000	1990	2220	98	109	60-140	11	30		
1,2-Dichloropropane	ug/L	ND	2000	2000	2000	2160	100	108	60-140	8	30		
1,3,5-Trimethylbenzene	ug/L	ND	2000	2000	2630	2860	132	143	60-140	8	30	M1	
1,3-Dichlorobenzene	ug/L	ND	2000	2000	2000	2160	100	108	60-140	8	30		
1,3-Dichloropropane	ug/L	ND	2000	2000	1940	2110	97	105	60-140	9	30		
1,4-Dichlorobenzene	ug/L	ND	2000	2000	2000	2170	100	109	60-140	8	30		
2,2-Dichloropropane	ug/L	ND	2000	2000	2100	2400	105	120	60-140	14	30		
2-Chlorotoluene	ug/L	ND	2000	2000	1820	1960	91	98	60-140	7	30		
4-Chlorotoluene	ug/L	ND	2000	2000	2050	2200	103	110	60-140	7	30		
Benzene	ug/L	9030	2000	2000	10600	11300	80	115	60-140	7	30		
Bromobenzene	ug/L	ND	2000	2000	2060	2220	103	111	60-140	8	30		
Bromochloromethane	ug/L	ND	2000	2000	1970	2140	98	107	60-140	9	30		
Bromodichloromethane	ug/L	ND	2000	2000	2230	2370	112	119	60-140	6	30		
Bromoform	ug/L	ND	2000	2000	1910	2260	95	113	60-140	17	30		
Bromomethane	ug/L	ND	2000	2000	1380	1720	69	86	60-140	22	30		
Carbon tetrachloride	ug/L	ND	2000	2000	2670	2910	133	145	60-140	9	30	M1	
Chlorobenzene	ug/L	ND	2000	2000	2090	2240	104	112	60-140	7	30		
Chloroethane	ug/L	ND	2000	2000	1800	2080	90	104	60-140	15	30		
Chloroform	ug/L	ND	2000	2000	1980	2070	99	104	60-140	5	30		
Chloromethane	ug/L	74.2J	2000	2000	1840	2000	88	96	60-140	9	30		
cis-1,2-Dichloroethene	ug/L	ND	2000	2000	2080	2290	104	114	60-140	10	30		
cis-1,3-Dichloropropene	ug/L	ND	2000	2000	2140	2230	107	112	60-140	4	30		
Dibromochloromethane	ug/L	ND	2000	2000	2110	2280	106	114	60-140	8	30		
Dibromomethane	ug/L	ND	2000	2000	2050	2230	102	111	60-140	8	30		
Dichlorodifluoromethane	ug/L	ND	2000	2000	1890	2040	95	102	60-140	8	30		
Diisopropyl ether	ug/L	39.6J	2000	2000	2010	2190	99	107	60-140	8	30		
Ethylbenzene	ug/L	2780	2000	2000	4960	5250	109	124	60-140	6	30		
Hexachloro-1,3-butadiene	ug/L	ND	2000	2000	2110	2570	105	128	60-140	20	30		
Isopropylbenzene (Cumene)	ug/L	115	2000	2000	2390	2570	114	123	60-140	7	30		
m&p-Xylene	ug/L	10900	4000	4000	15300	16200	108	131	60-140	6	30		
Methyl-tert-butyl ether	ug/L	124	2000	2000	1980	2200	93	104	60-140	11	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Parameter	Units	2103849		2103850		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92356202001 Result	MS Spike Conc.	MSD Spike Conc.								
Methylene Chloride	ug/L	ND	2000	2000	1850	1960	93	98	60-140	6	30	
n-Butylbenzene	ug/L	ND	2000	2000	2160	2370	108	119	60-140	9	30	
n-Propylbenzene	ug/L	224	2000	2000	2350	2500	106	114	60-140	6	30	
Naphthalene	ug/L	383	2000	2000	2320	2580	97	110	60-140	10	30	
o-Xylene	ug/L	4460	2000	2000	6610	6910	107	122	60-140	4	30	
sec-Butylbenzene	ug/L	ND	2000	2000	2210	2410	111	120	60-140	8	30	
Styrene	ug/L	ND	2000	2000	2100	2310	105	116	60-140	10	30	
tert-Butylbenzene	ug/L	ND	2000	2000	1800	1960	90	98	60-140	9	30	
Tetrachloroethene	ug/L	ND	2000	2000	2200	2370	110	118	60-140	7	30	
Toluene	ug/L	9830	2000	2000	11600	12300	90	123	60-140	6	30	
trans-1,2-Dichloroethene	ug/L	ND	2000	2000	2160	2290	108	115	60-140	6	30	
trans-1,3-Dichloropropene	ug/L	ND	2000	2000	2080	2250	104	113	60-140	8	30	
Trichloroethene	ug/L	ND	2000	2000	2210	2370	111	119	60-140	7	30	
Trichlorofluoromethane	ug/L	ND	2000	2000	2290	2520	114	126	60-140	10	30	
Vinyl chloride	ug/L	ND	2000	2000	2020	2270	101	114	60-140	12	30	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130			
4-Bromofluorobenzene (S)	%						102	105	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379248

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 92356367001

METHOD BLANK: 2101667

Matrix: Solid

Associated Lab Samples: 92356367001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0057	0.0024	09/25/17 14:30	
1,1,1-Trichloroethane	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0057	0.0022	09/25/17 14:30	
1,1,2-Trichloroethane	mg/kg	ND	0.0057	0.0024	09/25/17 14:30	
1,1-Dichloroethane	mg/kg	ND	0.0057	0.0017	09/25/17 14:30	
1,1-Dichloroethene	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
1,1-Dichloropropene	mg/kg	ND	0.0057	0.0017	09/25/17 14:30	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0057	0.0025	09/25/17 14:30	
1,2,3-Trichloropropane	mg/kg	ND	0.0057	0.0018	09/25/17 14:30	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0057	0.0018	09/25/17 14:30	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0057	0.0023	09/25/17 14:30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0057	0.0041	09/25/17 14:30	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
1,2-Dichlorobenzene	mg/kg	ND	0.0057	0.0022	09/25/17 14:30	
1,2-Dichloroethane	mg/kg	ND	0.0057	0.0025	09/25/17 14:30	
1,2-Dichloropropane	mg/kg	ND	0.0057	0.0019	09/25/17 14:30	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
1,3-Dichlorobenzene	mg/kg	ND	0.0057	0.0023	09/25/17 14:30	
1,3-Dichloropropane	mg/kg	ND	0.0057	0.0022	09/25/17 14:30	
1,4-Dichlorobenzene	mg/kg	ND	0.0057	0.0019	09/25/17 14:30	
2,2-Dichloropropane	mg/kg	ND	0.0057	0.0019	09/25/17 14:30	
2-Butanone (MEK)	mg/kg	ND	0.11	0.0033	09/25/17 14:30	
2-Chlorotoluene	mg/kg	ND	0.0057	0.0019	09/25/17 14:30	
2-Hexanone	mg/kg	ND	0.057	0.0044	09/25/17 14:30	
4-Chlorotoluene	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.057	0.0042	09/25/17 14:30	
Acetone	mg/kg	ND	0.11	0.011	09/25/17 14:30	
Benzene	mg/kg	ND	0.0057	0.0018	09/25/17 14:30	
Bromobenzene	mg/kg	ND	0.0057	0.0023	09/25/17 14:30	
Bromochloromethane	mg/kg	ND	0.0057	0.0019	09/25/17 14:30	
Bromodichloromethane	mg/kg	ND	0.0057	0.0022	09/25/17 14:30	
Bromoform	mg/kg	ND	0.0057	0.0026	09/25/17 14:30	
Bromomethane	mg/kg	ND	0.011	0.0028	09/25/17 14:30	
Carbon tetrachloride	mg/kg	ND	0.0057	0.0030	09/25/17 14:30	
Chlorobenzene	mg/kg	ND	0.0057	0.0022	09/25/17 14:30	
Chloroethane	mg/kg	ND	0.011	0.0027	09/25/17 14:30	
Chloroform	mg/kg	ND	0.0057	0.0018	09/25/17 14:30	
Chloromethane	mg/kg	ND	0.011	0.0027	09/25/17 14:30	
cis-1,2-Dichloroethene	mg/kg	ND	0.0057	0.0016	09/25/17 14:30	
cis-1,3-Dichloropropene	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
Dibromochloromethane	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

METHOD BLANK: 2101667

Matrix: Solid

Associated Lab Samples: 92356367001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	mg/kg	ND	0.0057	0.0028	09/25/17 14:30	
Dichlorodifluoromethane	mg/kg	ND	0.011	0.0041	09/25/17 14:30	
Diisopropyl ether	mg/kg	ND	0.0057	0.0019	09/25/17 14:30	
Ethylbenzene	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0057	0.0023	09/25/17 14:30	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0057	0.0022	09/25/17 14:30	
m&p-Xylene	mg/kg	ND	0.011	0.0041	09/25/17 14:30	
Methyl-tert-butyl ether	mg/kg	ND	0.0057	0.0017	09/25/17 14:30	
Methylene Chloride	mg/kg	ND	0.023	0.0034	09/25/17 14:30	
n-Butylbenzene	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
n-Propylbenzene	mg/kg	ND	0.0057	0.0019	09/25/17 14:30	
Naphthalene	mg/kg	ND	0.0057	0.0014	09/25/17 14:30	
o-Xylene	mg/kg	ND	0.0057	0.0022	09/25/17 14:30	
p-Isopropyltoluene	mg/kg	ND	0.0057	0.0019	09/25/17 14:30	
sec-Butylbenzene	mg/kg	ND	0.0057	0.0018	09/25/17 14:30	
Styrene	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
tert-Butylbenzene	mg/kg	ND	0.0057	0.0023	09/25/17 14:30	
Tetrachloroethene	mg/kg	ND	0.0057	0.0019	09/25/17 14:30	
Toluene	mg/kg	ND	0.0057	0.0020	09/25/17 14:30	
trans-1,2-Dichloroethene	mg/kg	ND	0.0057	0.0022	09/25/17 14:30	
trans-1,3-Dichloropropene	mg/kg	ND	0.0057	0.0017	09/25/17 14:30	
Trichloroethene	mg/kg	ND	0.0057	0.0024	09/25/17 14:30	
Trichlorofluoromethane	mg/kg	ND	0.0057	0.0025	09/25/17 14:30	
Vinyl acetate	mg/kg	ND	0.057	0.010	09/25/17 14:30	
Vinyl chloride	mg/kg	ND	0.011	0.0020	09/25/17 14:30	
Xylene (Total)	mg/kg	ND	0.011	0.0041	09/25/17 14:30	
1,2-Dichloroethane-d4 (S)	%	97	70-132		09/25/17 14:30	
4-Bromofluorobenzene (S)	%	104	70-130		09/25/17 14:30	
Toluene-d8 (S)	%	100	70-130		09/25/17 14:30	

LABORATORY CONTROL SAMPLE: 2101668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.056	0.063	112	74-137	
1,1,1-Trichloroethane	mg/kg	.056	0.059	106	67-140	
1,1,2,2-Tetrachloroethane	mg/kg	.056	0.057	102	72-141	
1,1,2-Trichloroethane	mg/kg	.056	0.060	107	78-138	
1,1-Dichloroethane	mg/kg	.056	0.059	105	69-134	
1,1-Dichloroethene	mg/kg	.056	0.059	104	67-138	
1,1-Dichloropropene	mg/kg	.056	0.061	108	69-139	
1,2,3-Trichlorobenzene	mg/kg	.056	0.061	109	70-146	
1,2,3-Trichloropropane	mg/kg	.056	0.062	111	69-144	
1,2,4-Trichlorobenzene	mg/kg	.056	0.062	110	68-148	
1,2,4-Trimethylbenzene	mg/kg	.056	0.064	113	74-137	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2101668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	mg/kg	.056	0.057	101	65-140	
1,2-Dibromoethane (EDB)	mg/kg	.056	0.062	111	77-135	
1,2-Dichlorobenzene	mg/kg	.056	0.063	112	77-141	
1,2-Dichloroethane	mg/kg	.056	0.058	104	65-137	
1,2-Dichloropropane	mg/kg	.056	0.063	112	72-136	
1,3,5-Trimethylbenzene	mg/kg	.056	0.065	115	76-133	
1,3-Dichlorobenzene	mg/kg	.056	0.060	106	74-138	
1,3-Dichloropropane	mg/kg	.056	0.063	112	71-139	
1,4-Dichlorobenzene	mg/kg	.056	0.059	105	76-138	
2,2-Dichloropropane	mg/kg	.056	0.057	102	68-137	
2-Butanone (MEK)	mg/kg	.11	0.13	112	58-147	
2-Chlorotoluene	mg/kg	.056	0.062	110	73-139	
2-Hexanone	mg/kg	.11	0.12	107	62-145	
4-Chlorotoluene	mg/kg	.056	0.062	111	76-141	
4-Methyl-2-pentanone (MIBK)	mg/kg	.11	0.13	114	64-149	
Acetone	mg/kg	.11	0.13	118	53-153	
Benzene	mg/kg	.056	0.061	108	73-135	
Bromobenzene	mg/kg	.056	0.064	114	75-133	
Bromochloromethane	mg/kg	.056	0.062	110	73-134	
Bromodichloromethane	mg/kg	.056	0.061	109	71-135	
Bromoform	mg/kg	.056	0.059	105	66-141	
Bromomethane	mg/kg	.056	0.058	103	53-160	
Carbon tetrachloride	mg/kg	.056	0.060	107	60-145	
Chlorobenzene	mg/kg	.056	0.062	110	78-130	
Chloroethane	mg/kg	.056	0.053	94	64-149	
Chloroform	mg/kg	.056	0.060	107	70-134	
Chloromethane	mg/kg	.056	0.050	88	52-150	
cis-1,2-Dichloroethene	mg/kg	.056	0.060	107	70-133	
cis-1,3-Dichloropropene	mg/kg	.056	0.064	114	68-134	
Dibromochloromethane	mg/kg	.056	0.065	115	71-138	
Dibromomethane	mg/kg	.056	0.057	101	74-130	
Dichlorodifluoromethane	mg/kg	.056	0.039	70	40-160	
Diisopropyl ether	mg/kg	.056	0.062	109	69-141	
Ethylbenzene	mg/kg	.056	0.063	111	75-133	
Hexachloro-1,3-butadiene	mg/kg	.056	0.065	115	68-143	
Isopropylbenzene (Cumene)	mg/kg	.056	0.062	110	76-143	
m&p-Xylene	mg/kg	.11	0.12	109	75-136	
Methyl-tert-butyl ether	mg/kg	.056	0.060	106	68-144	
Methylene Chloride	mg/kg	.056	0.056	100	45-154	
n-Butylbenzene	mg/kg	.056	0.062	109	72-137	
n-Propylbenzene	mg/kg	.056	0.062	110	76-136	
Naphthalene	mg/kg	.056	0.067	119	68-151	
o-Xylene	mg/kg	.056	0.062	110	76-141	
p-Isopropyltoluene	mg/kg	.056	0.063	111	76-140	
sec-Butylbenzene	mg/kg	.056	0.062	111	79-139	
Styrene	mg/kg	.056	0.063	112	79-137	
tert-Butylbenzene	mg/kg	.056	0.061	109	74-143	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2101668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	mg/kg	.056	0.038	67	71-138	L2
Toluene	mg/kg	.056	0.060	107	74-131	
trans-1,2-Dichloroethene	mg/kg	.056	0.060	107	67-135	
trans-1,3-Dichloropropene	mg/kg	.056	0.064	113	65-146	
Trichloroethene	mg/kg	.056	0.066	117	67-135	
Trichlorofluoromethane	mg/kg	.056	0.050	88	59-144	
Vinyl acetate	mg/kg	.11	0.073	65	40-160	
Vinyl chloride	mg/kg	.056	0.050	89	56-141	
Xylene (Total)	mg/kg	.17	0.18	109	76-137	
1,2-Dichloroethane-d4 (S)	%			95	70-132	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2102503

Parameter	Units	92356367001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	.017	0.014	84	70-130	
1,1,1-Trichloroethane	mg/kg	ND	.017	0.015	89	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.017	0.015	88	70-130	
1,1,2-Trichloroethane	mg/kg	ND	.017	0.014	80	70-130	
1,1-Dichloroethane	mg/kg	ND	.017	0.015	85	70-130	
1,1-Dichloroethene	mg/kg	ND	.017	0.015	88	49-180	
1,1-Dichloropropene	mg/kg	ND	.017	0.015	86	70-130	
1,2,3-Trichlorobenzene	mg/kg	ND	.017	0.0079	47	70-130	M1
1,2,3-Trichloropropane	mg/kg	ND	.017	0.015	87	70-130	
1,2,4-Trichlorobenzene	mg/kg	ND	.017	0.0086	50	70-130	M1
1,2,4-Trimethylbenzene	mg/kg	ND	.017	0.016	96	70-130	
1,2-Dibromo-3-chloropropane	mg/kg	ND	.017	0.015	88	70-130	
1,2-Dibromoethane (EDB)	mg/kg	ND	.017	0.015	87	70-130	
1,2-Dichlorobenzene	mg/kg	ND	.017	0.013	74	70-130	
1,2-Dichloroethane	mg/kg	ND	.017	0.015	91	70-130	
1,2-Dichloropropane	mg/kg	ND	.017	0.015	86	70-130	
1,3,5-Trimethylbenzene	mg/kg	ND	.017	0.016	94	70-130	
1,3-Dichlorobenzene	mg/kg	ND	.017	0.013	78	70-130	
1,3-Dichloropropane	mg/kg	ND	.017	0.015	88	70-130	
1,4-Dichlorobenzene	mg/kg	ND	.017	0.013	78	70-130	
2,2-Dichloropropane	mg/kg	ND	.017	0.015	88	70-130	
2-Butanone (MEK)	mg/kg	ND	.034	0.039J	115	70-130	
2-Chlorotoluene	mg/kg	ND	.017	0.015	91	70-130	
2-Hexanone	mg/kg	ND	.034	0.030J	88	70-130	
4-Chlorotoluene	mg/kg	ND	.017	0.015	89	70-130	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.034	0.029J	86	70-130	
Acetone	mg/kg	0.16	.034	0.11	-142	70-130	M1
Benzene	mg/kg	ND	.017	0.014	84	50-166	
Bromobenzene	mg/kg	ND	.017	0.015	89	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

MATRIX SPIKE SAMPLE: 2102503		92356367001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	mg/kg	ND	.017	0.015	91	70-130	
Bromodichloromethane	mg/kg	ND	.017	0.013	79	70-130	
Bromoform	mg/kg	ND	.017	0.013	78	70-130	
Bromomethane	mg/kg	ND	.017	0.015	90	70-130	
Carbon tetrachloride	mg/kg	ND	.017	0.014	81	70-130	
Chlorobenzene	mg/kg	ND	.017	0.014	84	43-169	
Chloroethane	mg/kg	ND	.017	0.016	96	70-130	
Chloroform	mg/kg	ND	.017	0.015	88	70-130	
Chloromethane	mg/kg	ND	.017	0.016	97	70-130	
cis-1,2-Dichloroethene	mg/kg	ND	.017	0.015	88	70-130	
cis-1,3-Dichloropropene	mg/kg	ND	.017	0.014	81	70-130	
Dibromochloromethane	mg/kg	ND	.017	0.014	81	70-130	
Dibromomethane	mg/kg	ND	.017	0.014	80	70-130	
Dichlorodifluoromethane	mg/kg	ND	.017	0.013	78	70-130	
Diisopropyl ether	mg/kg	ND	.017	0.015	88	70-130	
Ethylbenzene	mg/kg	ND	.017	0.015	87	70-130	
Hexachloro-1,3-butadiene	mg/kg	ND	.017	0.013	75	70-130	
Isopropylbenzene (Cumene)	mg/kg	ND	.017	0.014	84	70-130	
m&p-Xylene	mg/kg	ND	.034	0.030	88	70-130	
Methyl-tert-butyl ether	mg/kg	ND	.017	0.014	84	70-130	
Methylene Chloride	mg/kg	ND	.017	0.015J	88	70-130	
n-Butylbenzene	mg/kg	ND	.017	0.015	89	70-130	
n-Propylbenzene	mg/kg	ND	.017	0.016	94	70-130	
Naphthalene	mg/kg	ND	.017	0.0096	56	70-130 M1	
o-Xylene	mg/kg	ND	.017	0.015	86	70-130	
p-Isopropyltoluene	mg/kg	ND	.017	0.015	91	70-130	
sec-Butylbenzene	mg/kg	ND	.017	0.016	93	70-130	
Styrene	mg/kg	ND	.017	0.012	72	70-130	
tert-Butylbenzene	mg/kg	ND	.017	0.015	91	70-130	
Tetrachloroethene	mg/kg	ND	.017	0.0086	51	70-130 M0	
Toluene	mg/kg	ND	.017	0.015	88	52-163	
trans-1,2-Dichloroethene	mg/kg	ND	.017	0.015	89	70-130	
trans-1,3-Dichloropropene	mg/kg	ND	.017	0.014	80	70-130	
Trichloroethene	mg/kg	ND	.017	0.013	79	49-167	
Trichlorofluoromethane	mg/kg	ND	.017	0.016	96	70-130	
Vinyl acetate	mg/kg	ND	.034	0.016J	46	70-130 M1	
Vinyl chloride	mg/kg	ND	.017	0.015	90	70-130	
1,2-Dichloroethane-d4 (S)	%				110	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2102502

Parameter	Units	92356068002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2102502

Parameter	Units	92356068002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,2-Trichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropane	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	ND	0.010J		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
2-Hexanone	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	ND	0.12		30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Diisopropyl ether	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	
m&p-Xylene	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2102502

Parameter	Units	92356068002 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	ND	ND		30	
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
o-Xylene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	
Tetrachloroethene	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl acetate	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	97	131	6		
4-Bromofluorobenzene (S)	%	102	98	28		
Toluene-d8 (S)	%	99	100	24		

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379413 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92356367002, 92356367003, 92356367004, 92356367005, 92356367007

METHOD BLANK: 2102784 Matrix: Solid
Associated Lab Samples: 92356367002, 92356367003, 92356367004, 92356367005, 92356367007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0048	0.0020	09/26/17 15:27	
1,1,1-Trichloroethane	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0048	0.0018	09/26/17 15:27	
1,1,2-Trichloroethane	mg/kg	ND	0.0048	0.0020	09/26/17 15:27	
1,1-Dichloroethane	mg/kg	ND	0.0048	0.0014	09/26/17 15:27	
1,1-Dichloroethene	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
1,1-Dichloropropene	mg/kg	ND	0.0048	0.0014	09/26/17 15:27	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0048	0.0021	09/26/17 15:27	
1,2,3-Trichloropropane	mg/kg	ND	0.0048	0.0015	09/26/17 15:27	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0048	0.0015	09/26/17 15:27	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0048	0.0019	09/26/17 15:27	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0048	0.0034	09/26/17 15:27	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
1,2-Dichlorobenzene	mg/kg	ND	0.0048	0.0018	09/26/17 15:27	
1,2-Dichloroethane	mg/kg	ND	0.0048	0.0021	09/26/17 15:27	
1,2-Dichloropropane	mg/kg	ND	0.0048	0.0016	09/26/17 15:27	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
1,3-Dichlorobenzene	mg/kg	ND	0.0048	0.0019	09/26/17 15:27	
1,3-Dichloropropane	mg/kg	ND	0.0048	0.0018	09/26/17 15:27	
1,4-Dichlorobenzene	mg/kg	ND	0.0048	0.0016	09/26/17 15:27	
2,2-Dichloropropane	mg/kg	ND	0.0048	0.0016	09/26/17 15:27	
2-Butanone (MEK)	mg/kg	ND	0.095	0.0028	09/26/17 15:27	
2-Chlorotoluene	mg/kg	ND	0.0048	0.0016	09/26/17 15:27	
2-Hexanone	mg/kg	ND	0.048	0.0037	09/26/17 15:27	
4-Chlorotoluene	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.048	0.0035	09/26/17 15:27	
Acetone	mg/kg	ND	0.095	0.0095	09/26/17 15:27	
Benzene	mg/kg	ND	0.0048	0.0015	09/26/17 15:27	
Bromobenzene	mg/kg	ND	0.0048	0.0019	09/26/17 15:27	
Bromochloromethane	mg/kg	ND	0.0048	0.0016	09/26/17 15:27	
Bromodichloromethane	mg/kg	ND	0.0048	0.0018	09/26/17 15:27	
Bromoform	mg/kg	ND	0.0048	0.0022	09/26/17 15:27	
Bromomethane	mg/kg	ND	0.0095	0.0024	09/26/17 15:27	
Carbon tetrachloride	mg/kg	ND	0.0048	0.0025	09/26/17 15:27	
Chlorobenzene	mg/kg	ND	0.0048	0.0018	09/26/17 15:27	
Chloroethane	mg/kg	ND	0.0095	0.0023	09/26/17 15:27	
Chloroform	mg/kg	ND	0.0048	0.0015	09/26/17 15:27	
Chloromethane	mg/kg	ND	0.0095	0.0023	09/26/17 15:27	
cis-1,2-Dichloroethene	mg/kg	ND	0.0048	0.0013	09/26/17 15:27	
cis-1,3-Dichloropropene	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
Dibromochloromethane	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

METHOD BLANK: 2102784

Matrix: Solid

Associated Lab Samples: 92356367002, 92356367003, 92356367004, 92356367005, 92356367007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	mg/kg	ND	0.0048	0.0024	09/26/17 15:27	
Dichlorodifluoromethane	mg/kg	ND	0.0095	0.0034	09/26/17 15:27	
Diisopropyl ether	mg/kg	ND	0.0048	0.0016	09/26/17 15:27	
Ethylbenzene	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0048	0.0019	09/26/17 15:27	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0048	0.0018	09/26/17 15:27	
m&p-Xylene	mg/kg	ND	0.0095	0.0034	09/26/17 15:27	
Methyl-tert-butyl ether	mg/kg	ND	0.0048	0.0014	09/26/17 15:27	
Methylene Chloride	mg/kg	ND	0.019	0.0029	09/26/17 15:27	
n-Butylbenzene	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
n-Propylbenzene	mg/kg	ND	0.0048	0.0016	09/26/17 15:27	
Naphthalene	mg/kg	ND	0.0048	0.0011	09/26/17 15:27	
o-Xylene	mg/kg	ND	0.0048	0.0018	09/26/17 15:27	
p-Isopropyltoluene	mg/kg	ND	0.0048	0.0016	09/26/17 15:27	
sec-Butylbenzene	mg/kg	ND	0.0048	0.0015	09/26/17 15:27	
Styrene	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
tert-Butylbenzene	mg/kg	ND	0.0048	0.0019	09/26/17 15:27	
Tetrachloroethene	mg/kg	ND	0.0048	0.0016	09/26/17 15:27	
Toluene	mg/kg	ND	0.0048	0.0017	09/26/17 15:27	
trans-1,2-Dichloroethene	mg/kg	ND	0.0048	0.0018	09/26/17 15:27	
trans-1,3-Dichloropropene	mg/kg	ND	0.0048	0.0014	09/26/17 15:27	
Trichloroethene	mg/kg	ND	0.0048	0.0020	09/26/17 15:27	
Trichlorofluoromethane	mg/kg	ND	0.0048	0.0021	09/26/17 15:27	
Vinyl acetate	mg/kg	ND	0.048	0.0084	09/26/17 15:27	
Vinyl chloride	mg/kg	ND	0.0095	0.0017	09/26/17 15:27	
Xylene (Total)	mg/kg	ND	0.0095	0.0034	09/26/17 15:27	
1,2-Dichloroethane-d4 (S)	%	108	70-132		09/26/17 15:27	
4-Bromofluorobenzene (S)	%	97	70-130		09/26/17 15:27	
Toluene-d8 (S)	%	99	70-130		09/26/17 15:27	

LABORATORY CONTROL SAMPLE: 2102785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.048	0.050	104	74-137	
1,1,1-Trichloroethane	mg/kg	.048	0.050	103	67-140	
1,1,2,2-Tetrachloroethane	mg/kg	.048	0.045	94	72-141	
1,1,2-Trichloroethane	mg/kg	.048	0.048	100	78-138	
1,1-Dichloroethane	mg/kg	.048	0.049	103	69-134	
1,1-Dichloroethene	mg/kg	.048	0.050	104	67-138	
1,1-Dichloropropene	mg/kg	.048	0.049	101	69-139	
1,2,3-Trichlorobenzene	mg/kg	.048	0.049	102	70-146	
1,2,3-Trichloropropane	mg/kg	.048	0.051	106	69-144	
1,2,4-Trichlorobenzene	mg/kg	.048	0.048	100	68-148	
1,2,4-Trimethylbenzene	mg/kg	.048	0.050	103	74-137	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2102785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	mg/kg	.048	0.047	97	65-140	
1,2-Dibromoethane (EDB)	mg/kg	.048	0.050	103	77-135	
1,2-Dichlorobenzene	mg/kg	.048	0.049	101	77-141	
1,2-Dichloroethane	mg/kg	.048	0.049	102	65-137	
1,2-Dichloropropane	mg/kg	.048	0.050	103	72-136	
1,3,5-Trimethylbenzene	mg/kg	.048	0.050	103	76-133	
1,3-Dichlorobenzene	mg/kg	.048	0.049	101	74-138	
1,3-Dichloropropane	mg/kg	.048	0.051	105	71-139	
1,4-Dichlorobenzene	mg/kg	.048	0.048	99	76-138	
2,2-Dichloropropane	mg/kg	.048	0.050	103	68-137	
2-Butanone (MEK)	mg/kg	.096	0.096J	99	58-147	
2-Chlorotoluene	mg/kg	.048	0.049	102	73-139	
2-Hexanone	mg/kg	.096	0.10	104	62-145	
4-Chlorotoluene	mg/kg	.048	0.049	101	76-141	
4-Methyl-2-pentanone (MIBK)	mg/kg	.096	0.10	105	64-149	
Acetone	mg/kg	.096	0.11	112	53-153	
Benzene	mg/kg	.048	0.048	100	73-135	
Bromobenzene	mg/kg	.048	0.049	102	75-133	
Bromochloromethane	mg/kg	.048	0.049	102	73-134	
Bromodichloromethane	mg/kg	.048	0.048	100	71-135	
Bromoform	mg/kg	.048	0.048	100	66-141	
Bromomethane	mg/kg	.048	0.056	117	53-160	
Carbon tetrachloride	mg/kg	.048	0.048	99	60-145	
Chlorobenzene	mg/kg	.048	0.048	100	78-130	
Chloroethane	mg/kg	.048	0.054	113	64-149	
Chloroform	mg/kg	.048	0.050	103	70-134	
Chloromethane	mg/kg	.048	0.051	105	52-150	
cis-1,2-Dichloroethene	mg/kg	.048	0.053	109	70-133	
cis-1,3-Dichloropropene	mg/kg	.048	0.051	105	68-134	
Dibromochloromethane	mg/kg	.048	0.049	103	71-138	
Dibromomethane	mg/kg	.048	0.048	99	74-130	
Dichlorodifluoromethane	mg/kg	.048	0.044	91	40-160	
Diisopropyl ether	mg/kg	.048	0.051	106	69-141	
Ethylbenzene	mg/kg	.048	0.049	102	75-133	
Hexachloro-1,3-butadiene	mg/kg	.048	0.050	103	68-143	
Isopropylbenzene (Cumene)	mg/kg	.048	0.050	104	76-143	
m&p-Xylene	mg/kg	.096	0.10	103	75-136	
Methyl-tert-butyl ether	mg/kg	.048	0.048	99	68-144	
Methylene Chloride	mg/kg	.048	0.049	101	45-154	
n-Butylbenzene	mg/kg	.048	0.049	101	72-137	
n-Propylbenzene	mg/kg	.048	0.049	102	76-136	
Naphthalene	mg/kg	.048	0.051	106	68-151	
o-Xylene	mg/kg	.048	0.050	104	76-141	
p-Isopropyltoluene	mg/kg	.048	0.049	103	76-140	
sec-Butylbenzene	mg/kg	.048	0.049	102	79-139	
Styrene	mg/kg	.048	0.050	105	79-137	
tert-Butylbenzene	mg/kg	.048	0.049	101	74-143	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2102785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	mg/kg	.048	0.028	59	71-138	L2
Toluene	mg/kg	.048	0.048	99	74-131	
trans-1,2-Dichloroethene	mg/kg	.048	0.050	105	67-135	
trans-1,3-Dichloropropene	mg/kg	.048	0.050	103	65-146	
Trichloroethene	mg/kg	.048	0.050	103	67-135	
Trichlorofluoromethane	mg/kg	.048	0.051	106	59-144	
Vinyl acetate	mg/kg	.096	0.061	63	40-160	
Vinyl chloride	mg/kg	.048	0.054	113	56-141	
Xylene (Total)	mg/kg	.14	0.15	104	76-137	
1,2-Dichloroethane-d4 (S)	%			100	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2103379

Parameter	Units	92356586001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	.018	0.018	99	70-130	
1,1,1-Trichloroethane	mg/kg	ND	.018	0.018	97	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.018	0.019	106	70-130	
1,1,2-Trichloroethane	mg/kg	ND	.018	0.016	91	70-130	
1,1-Dichloroethane	mg/kg	ND	.018	0.016	91	70-130	
1,1-Dichloroethene	mg/kg	ND	.018	0.017	95	49-180	
1,1-Dichloropropene	mg/kg	ND	.018	0.017	96	70-130	
1,2,3-Trichlorobenzene	mg/kg	ND	.018	0.015	80	70-130	
1,2,3-Trichloropropane	mg/kg	ND	.018	0.018	98	70-130	
1,2,4-Trichlorobenzene	mg/kg	ND	.018	0.015	84	70-130	
1,2,4-Trimethylbenzene	mg/kg	ND	.018	0.017	95	70-130	
1,2-Dibromo-3-chloropropane	mg/kg	ND	.018	0.015	84	70-130	
1,2-Dibromoethane (EDB)	mg/kg	ND	.018	0.018	96	70-130	
1,2-Dichlorobenzene	mg/kg	ND	.018	0.016	88	70-130	
1,2-Dichloroethane	mg/kg	ND	.018	0.017	96	70-130	
1,2-Dichloropropane	mg/kg	ND	.018	0.017	93	70-130	
1,3,5-Trimethylbenzene	mg/kg	ND	.018	0.018	97	70-130	
1,3-Dichlorobenzene	mg/kg	ND	.018	0.017	93	70-130	
1,3-Dichloropropane	mg/kg	ND	.018	0.018	97	70-130	
1,4-Dichlorobenzene	mg/kg	ND	.018	0.016	91	70-130	
2,2-Dichloropropane	mg/kg	ND	.018	0.018	97	70-130	
2-Butanone (MEK)	mg/kg	ND	.036	0.041J	84	70-130	
2-Chlorotoluene	mg/kg	ND	.018	0.018	97	70-130	
2-Hexanone	mg/kg	ND	.036	0.033J	89	70-130	
4-Chlorotoluene	mg/kg	ND	.018	0.017	95	70-130	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.036	0.034J	93	70-130	
Acetone	mg/kg	ND	.036	0.12	88	70-130	
Benzene	mg/kg	ND	.018	0.017	95	50-166	
Bromobenzene	mg/kg	ND	.018	0.017	94	70-130	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

MATRIX SPIKE SAMPLE: 2103379		92356586001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	mg/kg	ND	.018	0.017	95	70-130	
Bromodichloromethane	mg/kg	ND	.018	0.017	92	70-130	
Bromoform	mg/kg	ND	.018	0.017	91	70-130	
Bromomethane	mg/kg	ND	.018	0.019	102	70-130	
Carbon tetrachloride	mg/kg	ND	.018	0.017	96	70-130	
Chlorobenzene	mg/kg	ND	.018	0.018	98	43-169	
Chloroethane	mg/kg	ND	.018	0.019	105	70-130	
Chloroform	mg/kg	ND	.018	0.017	96	70-130	
Chloromethane	mg/kg	ND	.018	0.017	96	70-130	
cis-1,2-Dichloroethene	mg/kg	ND	.018	0.017	95	70-130	
cis-1,3-Dichloropropene	mg/kg	ND	.018	0.017	92	70-130	
Dibromochloromethane	mg/kg	ND	.018	0.017	94	70-130	
Dibromomethane	mg/kg	ND	.018	0.017	92	70-130	
Dichlorodifluoromethane	mg/kg	ND	.018	0.016	90	70-130	
Diisopropyl ether	mg/kg	ND	.018	0.017	94	70-130	
Ethylbenzene	mg/kg	ND	.018	0.018	101	70-130	
Hexachloro-1,3-butadiene	mg/kg	ND	.018	0.017	93	70-130	
Isopropylbenzene (Cumene)	mg/kg	ND	.018	0.019	102	70-130	
m&p-Xylene	mg/kg	ND	.036	0.037	102	70-130	
Methyl-tert-butyl ether	mg/kg	ND	.018	0.016	89	70-130	
Methylene Chloride	mg/kg	ND	.018	0.016J	89	70-130	
n-Butylbenzene	mg/kg	ND	.018	0.017	96	70-130	
n-Propylbenzene	mg/kg	ND	.018	0.018	98	70-130	
Naphthalene	mg/kg	ND	.018	0.015	82	70-130	
o-Xylene	mg/kg	ND	.018	0.018	97	70-130	
p-Isopropyltoluene	mg/kg	ND	.018	0.018	97	70-130	
sec-Butylbenzene	mg/kg	ND	.018	0.018	98	70-130	
Styrene	mg/kg	ND	.018	0.017	93	70-130	
tert-Butylbenzene	mg/kg	ND	.018	0.017	96	70-130	
Tetrachloroethene	mg/kg	ND	.018	0.011	59	70-130 MO	
Toluene	mg/kg	ND	.018	0.018	99	52-163	
trans-1,2-Dichloroethene	mg/kg	ND	.018	0.018	97	70-130	
trans-1,3-Dichloropropene	mg/kg	ND	.018	0.016	87	70-130	
Trichloroethene	mg/kg	ND	.018	0.016	90	49-167	
Trichlorofluoromethane	mg/kg	ND	.018	0.019	105	70-130	
Vinyl acetate	mg/kg	ND	.036	0.044J	121	70-130	
Vinyl chloride	mg/kg	ND	.018	0.019	105	70-130	
1,2-Dichloroethane-d4 (S)	%				104	70-132	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2103380

Parameter	Units	92356367007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2103380

Parameter	Units	92356367007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,2-Trichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropane	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	ND	0.0045J		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
2-Hexanone	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	0.099J	0.034J		30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Diisopropyl ether	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	
m&p-Xylene	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2103380

Parameter	Units	92356367007 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	0.0095J	ND		30	
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
o-Xylene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	
Tetrachloroethene	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl acetate	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	140	109	48		
4-Bromofluorobenzene (S)	%	91	95	19		
Toluene-d8 (S)	%	94	98	21		

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379614

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 92356367006

METHOD BLANK: 2103733

Matrix: Solid

Associated Lab Samples: 92356367006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0052	0.0022	09/27/17 12:26	
1,1,1-Trichloroethane	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0052	0.0020	09/27/17 12:26	
1,1,2-Trichloroethane	mg/kg	ND	0.0052	0.0022	09/27/17 12:26	
1,1-Dichloroethane	mg/kg	ND	0.0052	0.0016	09/27/17 12:26	
1,1-Dichloroethene	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
1,1-Dichloropropene	mg/kg	ND	0.0052	0.0016	09/27/17 12:26	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0052	0.0023	09/27/17 12:26	
1,2,3-Trichloropropane	mg/kg	ND	0.0052	0.0017	09/27/17 12:26	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0052	0.0017	09/27/17 12:26	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0052	0.0021	09/27/17 12:26	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0052	0.0038	09/27/17 12:26	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
1,2-Dichlorobenzene	mg/kg	ND	0.0052	0.0020	09/27/17 12:26	
1,2-Dichloroethane	mg/kg	ND	0.0052	0.0023	09/27/17 12:26	
1,2-Dichloropropane	mg/kg	ND	0.0052	0.0018	09/27/17 12:26	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
1,3-Dichlorobenzene	mg/kg	ND	0.0052	0.0021	09/27/17 12:26	
1,3-Dichloropropane	mg/kg	ND	0.0052	0.0020	09/27/17 12:26	
1,4-Dichlorobenzene	mg/kg	ND	0.0052	0.0018	09/27/17 12:26	
2,2-Dichloropropane	mg/kg	ND	0.0052	0.0018	09/27/17 12:26	
2-Butanone (MEK)	mg/kg	ND	0.10	0.0030	09/27/17 12:26	
2-Chlorotoluene	mg/kg	ND	0.0052	0.0018	09/27/17 12:26	
2-Hexanone	mg/kg	ND	0.052	0.0041	09/27/17 12:26	
4-Chlorotoluene	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.052	0.0039	09/27/17 12:26	
Acetone	mg/kg	ND	0.10	0.010	09/27/17 12:26	
Benzene	mg/kg	ND	0.0052	0.0017	09/27/17 12:26	
Bromobenzene	mg/kg	ND	0.0052	0.0021	09/27/17 12:26	
Bromochloromethane	mg/kg	ND	0.0052	0.0018	09/27/17 12:26	
Bromodichloromethane	mg/kg	ND	0.0052	0.0020	09/27/17 12:26	
Bromoform	mg/kg	ND	0.0052	0.0024	09/27/17 12:26	
Bromomethane	mg/kg	ND	0.010	0.0026	09/27/17 12:26	
Carbon tetrachloride	mg/kg	ND	0.0052	0.0027	09/27/17 12:26	
Chlorobenzene	mg/kg	ND	0.0052	0.0020	09/27/17 12:26	
Chloroethane	mg/kg	ND	0.010	0.0025	09/27/17 12:26	
Chloroform	mg/kg	ND	0.0052	0.0017	09/27/17 12:26	
Chloromethane	mg/kg	ND	0.010	0.0025	09/27/17 12:26	
cis-1,2-Dichloroethene	mg/kg	ND	0.0052	0.0015	09/27/17 12:26	
cis-1,3-Dichloropropene	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
Dibromochloromethane	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

METHOD BLANK: 2103733

Matrix: Solid

Associated Lab Samples: 92356367006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	mg/kg	ND	0.0052	0.0026	09/27/17 12:26	
Dichlorodifluoromethane	mg/kg	ND	0.010	0.0038	09/27/17 12:26	
Diisopropyl ether	mg/kg	ND	0.0052	0.0018	09/27/17 12:26	
Ethylbenzene	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0052	0.0021	09/27/17 12:26	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0052	0.0020	09/27/17 12:26	
m&p-Xylene	mg/kg	ND	0.010	0.0038	09/27/17 12:26	
Methyl-tert-butyl ether	mg/kg	ND	0.0052	0.0016	09/27/17 12:26	
Methylene Chloride	mg/kg	ND	0.021	0.0031	09/27/17 12:26	
n-Butylbenzene	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
n-Propylbenzene	mg/kg	ND	0.0052	0.0018	09/27/17 12:26	
Naphthalene	mg/kg	ND	0.0052	0.0013	09/27/17 12:26	
o-Xylene	mg/kg	ND	0.0052	0.0020	09/27/17 12:26	
p-Isopropyltoluene	mg/kg	ND	0.0052	0.0018	09/27/17 12:26	
sec-Butylbenzene	mg/kg	ND	0.0052	0.0017	09/27/17 12:26	
Styrene	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
tert-Butylbenzene	mg/kg	ND	0.0052	0.0021	09/27/17 12:26	
Tetrachloroethene	mg/kg	ND	0.0052	0.0018	09/27/17 12:26	
Toluene	mg/kg	ND	0.0052	0.0019	09/27/17 12:26	
trans-1,2-Dichloroethene	mg/kg	ND	0.0052	0.0020	09/27/17 12:26	
trans-1,3-Dichloropropene	mg/kg	ND	0.0052	0.0016	09/27/17 12:26	
Trichloroethene	mg/kg	ND	0.0052	0.0022	09/27/17 12:26	
Trichlorofluoromethane	mg/kg	ND	0.0052	0.0023	09/27/17 12:26	
Vinyl acetate	mg/kg	ND	0.052	0.0092	09/27/17 12:26	
Vinyl chloride	mg/kg	ND	0.010	0.0019	09/27/17 12:26	
Xylene (Total)	mg/kg	ND	0.010	0.0038	09/27/17 12:26	
1,2-Dichloroethane-d4 (S)	%	106	70-132		09/27/17 12:26	
4-Bromofluorobenzene (S)	%	99	70-130		09/27/17 12:26	
Toluene-d8 (S)	%	99	70-130		09/27/17 12:26	

LABORATORY CONTROL SAMPLE: 2103734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.054	0.055	102	74-137	
1,1,1-Trichloroethane	mg/kg	.054	0.053	98	67-140	
1,1,2,2-Tetrachloroethane	mg/kg	.054	0.054	100	72-141	
1,1,2-Trichloroethane	mg/kg	.054	0.053	98	78-138	
1,1-Dichloroethane	mg/kg	.054	0.052	97	69-134	
1,1-Dichloroethene	mg/kg	.054	0.053	98	67-138	
1,1-Dichloropropene	mg/kg	.054	0.051	94	69-139	
1,2,3-Trichlorobenzene	mg/kg	.054	0.054	100	70-146	
1,2,3-Trichloropropane	mg/kg	.054	0.054	100	69-144	
1,2,4-Trichlorobenzene	mg/kg	.054	0.054	101	68-148	
1,2,4-Trimethylbenzene	mg/kg	.054	0.055	101	74-137	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2103734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	mg/kg	.054	0.052	96	65-140	
1,2-Dibromoethane (EDB)	mg/kg	.054	0.055	103	77-135	
1,2-Dichlorobenzene	mg/kg	.054	0.053	98	77-141	
1,2-Dichloroethane	mg/kg	.054	0.054	100	65-137	
1,2-Dichloropropane	mg/kg	.054	0.054	100	72-136	
1,3,5-Trimethylbenzene	mg/kg	.054	0.054	101	76-133	
1,3-Dichlorobenzene	mg/kg	.054	0.054	101	74-138	
1,3-Dichloropropane	mg/kg	.054	0.057	105	71-139	
1,4-Dichlorobenzene	mg/kg	.054	0.053	99	76-138	
2,2-Dichloropropane	mg/kg	.054	0.053	98	68-137	
2-Butanone (MEK)	mg/kg	.11	0.10J	95	58-147	
2-Chlorotoluene	mg/kg	.054	0.054	101	73-139	
2-Hexanone	mg/kg	.11	0.11	105	62-145	
4-Chlorotoluene	mg/kg	.054	0.054	100	76-141	
4-Methyl-2-pentanone (MIBK)	mg/kg	.11	0.11	104	64-149	
Acetone	mg/kg	.11	0.11	105	53-153	
Benzene	mg/kg	.054	0.052	97	73-135	
Bromobenzene	mg/kg	.054	0.053	99	75-133	
Bromochloromethane	mg/kg	.054	0.052	97	73-134	
Bromodichloromethane	mg/kg	.054	0.053	99	71-135	
Bromoform	mg/kg	.054	0.055	102	66-141	
Bromomethane	mg/kg	.054	0.064	120	53-160	
Carbon tetrachloride	mg/kg	.054	0.053	97	60-145	
Chlorobenzene	mg/kg	.054	0.054	101	78-130	
Chloroethane	mg/kg	.054	0.058	107	64-149	
Chloroform	mg/kg	.054	0.050	93	70-134	
Chloromethane	mg/kg	.054	0.054	100	52-150	
cis-1,2-Dichloroethene	mg/kg	.054	0.052	97	70-133	
cis-1,3-Dichloropropene	mg/kg	.054	0.055	102	68-134	
Dibromochloromethane	mg/kg	.054	0.055	102	71-138	
Dibromomethane	mg/kg	.054	0.053	98	74-130	
Dichlorodifluoromethane	mg/kg	.054	0.049	91	40-160	
Diisopropyl ether	mg/kg	.054	0.052	97	69-141	
Ethylbenzene	mg/kg	.054	0.054	101	75-133	
Hexachloro-1,3-butadiene	mg/kg	.054	0.053	99	68-143	
Isopropylbenzene (Cumene)	mg/kg	.054	0.056	105	76-143	
m&p-Xylene	mg/kg	.11	0.11	103	75-136	
Methyl-tert-butyl ether	mg/kg	.054	0.051	94	68-144	
Methylene Chloride	mg/kg	.054	0.050	92	45-154	
n-Butylbenzene	mg/kg	.054	0.054	100	72-137	
n-Propylbenzene	mg/kg	.054	0.054	100	76-136	
Naphthalene	mg/kg	.054	0.056	104	68-151	
o-Xylene	mg/kg	.054	0.055	103	76-141	
p-Isopropyltoluene	mg/kg	.054	0.055	102	76-140	
sec-Butylbenzene	mg/kg	.054	0.054	100	79-139	
Styrene	mg/kg	.054	0.056	103	79-137	
tert-Butylbenzene	mg/kg	.054	0.053	99	74-143	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2103734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	mg/kg	.054	0.031	58	71-138	L2
Toluene	mg/kg	.054	0.052	96	74-131	
trans-1,2-Dichloroethene	mg/kg	.054	0.053	99	67-135	
trans-1,3-Dichloropropene	mg/kg	.054	0.055	102	65-146	
Trichloroethene	mg/kg	.054	0.052	97	67-135	
Trichlorofluoromethane	mg/kg	.054	0.055	102	59-144	
Vinyl acetate	mg/kg	.11	0.14	130	40-160	
Vinyl chloride	mg/kg	.054	0.058	108	56-141	
Xylene (Total)	mg/kg	.16	0.17	103	76-137	
1,2-Dichloroethane-d4 (S)	%			102	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2104680

Parameter	Units	92356396002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	.012	0.0085	71	70-130	
1,1,1-Trichloroethane	mg/kg	ND	.012	0.0088	74	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.012	0.0093	78	70-130	
1,1,2-Trichloroethane	mg/kg	ND	.012	0.0083	70	70-130	
1,1-Dichloroethane	mg/kg	ND	.012	0.0083	70	70-130	
1,1-Dichloroethene	mg/kg	ND	.012	0.0087	73	49-180	
1,1-Dichloropropene	mg/kg	ND	.012	0.0084	70	70-130	
1,2,3-Trichlorobenzene	mg/kg	ND	.012	0.0080	67	70-130	M1
1,2,3-Trichloropropane	mg/kg	ND	.012	0.0091	77	70-130	
1,2,4-Trichlorobenzene	mg/kg	ND	.012	0.0079	66	70-130	M1
1,2,4-Trimethylbenzene	mg/kg	ND	.012	0.0088	74	70-130	
1,2-Dibromo-3-chloropropane	mg/kg	ND	.012	0.0079	66	70-130	M1
1,2-Dibromoethane (EDB)	mg/kg	ND	.012	0.0085	72	70-130	
1,2-Dichlorobenzene	mg/kg	ND	.012	0.0084	70	70-130	
1,2-Dichloroethane	mg/kg	ND	.012	0.0086	73	70-130	
1,2-Dichloropropane	mg/kg	ND	.012	0.0083	70	70-130	
1,3,5-Trimethylbenzene	mg/kg	ND	.012	0.0090	75	70-130	
1,3-Dichlorobenzene	mg/kg	ND	.012	0.0085	71	70-130	
1,3-Dichloropropane	mg/kg	ND	.012	0.0086	72	70-130	
1,4-Dichlorobenzene	mg/kg	ND	.012	0.0085	71	70-130	
2,2-Dichloropropane	mg/kg	ND	.012	0.0087	73	70-130	
2-Butanone (MEK)	mg/kg	ND	.024	0.015J	64	70-130	M1
2-Chlorotoluene	mg/kg	ND	.012	0.0088	74	70-130	
2-Hexanone	mg/kg	ND	.024	0.015J	65	70-130	M1
4-Chlorotoluene	mg/kg	ND	.012	0.0087	73	70-130	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.024	0.016J	65	70-130	M1
Acetone	mg/kg	13.0J ug/kg	.024	0.019J	26	70-130	M1
Benzene	mg/kg	ND	.012	0.0084	71	50-166	
Bromobenzene	mg/kg	ND	.012	0.0083	69	70-130	M1

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

MATRIX SPIKE SAMPLE: 2104680		92356396002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	mg/kg	ND	.012	0.0086	72	70-130	
Bromodichloromethane	mg/kg	ND	.012	0.0082	69	70-130	M1
Bromoform	mg/kg	ND	.012	0.0082	69	70-130	M1
Bromomethane	mg/kg	ND	.012	0.010	88	70-130	
Carbon tetrachloride	mg/kg	ND	.012	0.0090	75	70-130	
Chlorobenzene	mg/kg	ND	.012	0.0087	73	43-169	
Chloroethane	mg/kg	ND	.012	0.0091	77	70-130	
Chloroform	mg/kg	ND	.012	0.0083	70	70-130	
Chloromethane	mg/kg	ND	.012	0.0084	70	70-130	
cis-1,2-Dichloroethene	mg/kg	ND	.012	0.0090	75	70-130	
cis-1,3-Dichloropropene	mg/kg	ND	.012	0.0082	69	70-130	M1
Dibromochloromethane	mg/kg	ND	.012	0.0083	70	70-130	
Dibromomethane	mg/kg	ND	.012	0.0080	67	70-130	M1
Dichlorodifluoromethane	mg/kg	ND	.012	0.0075	63	70-130	M1
Diisopropyl ether	mg/kg	ND	.012	0.0083	70	70-130	
Ethylbenzene	mg/kg	ND	.012	0.0089	75	70-130	
Hexachloro-1,3-butadiene	mg/kg	ND	.012	0.0091	76	70-130	
Isopropylbenzene (Cumene)	mg/kg	ND	.012	0.0090	75	70-130	
m&p-Xylene	mg/kg	ND	.024	0.018	75	70-130	
Methyl-tert-butyl ether	mg/kg	ND	.012	0.0078	65	70-130	M1
Methylene Chloride	mg/kg	ND	.012	0.010J	84	70-130	
n-Butylbenzene	mg/kg	ND	.012	0.0087	73	70-130	
n-Propylbenzene	mg/kg	ND	.012	0.0090	76	70-130	
Naphthalene	mg/kg	ND	.012	0.0077	65	70-130	M1
o-Xylene	mg/kg	ND	.012	0.0084	71	70-130	
p-Isopropyltoluene	mg/kg	ND	.012	0.0089	75	70-130	
sec-Butylbenzene	mg/kg	ND	.012	0.0091	76	70-130	
Styrene	mg/kg	ND	.012	0.0085	72	70-130	
tert-Butylbenzene	mg/kg	ND	.012	0.0087	73	70-130	
Tetrachloroethene	mg/kg	ND	.012	0.0051	43	70-130	M0
Toluene	mg/kg	ND	.012	0.0085	71	52-163	
trans-1,2-Dichloroethene	mg/kg	ND	.012	0.0087	73	70-130	
trans-1,3-Dichloropropene	mg/kg	ND	.012	0.0080	67	70-130	M1
Trichloroethene	mg/kg	ND	.012	0.0082	69	49-167	
Trichlorofluoromethane	mg/kg	ND	.012	0.0093	78	70-130	
Vinyl acetate	mg/kg	ND	.024	0.036	151	70-130	M1
Vinyl chloride	mg/kg	ND	.012	0.0092	77	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-132	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2104679

Parameter	Units	92356396001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2104679

Parameter	Units	92356396001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,2-Trichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropane	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	36.6J ug/kg	0.042J		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
2-Hexanone	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	190 ug/kg	0.21	8	30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Diisopropyl ether	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	
m&p-Xylene	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2104679

Parameter	Units	92356396001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	3.2J ug/kg	0.014J		30	
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	
Naphthalene	mg/kg	1.4J ug/kg	ND		30	
o-Xylene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	
Tetrachloroethene	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl acetate	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	105	109	4		
4-Bromofluorobenzene (S)	%	96	91	14		
Toluene-d8 (S)	%	99	98	8		

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379835 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92356367008, 92356367009, 92356367010, 92356367011

METHOD BLANK: 2104967 Matrix: Solid
Associated Lab Samples: 92356367008, 92356367009, 92356367010, 92356367011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0058	0.0024	09/27/17 17:16	
1,1,1-Trichloroethane	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0058	0.0022	09/27/17 17:16	
1,1,2-Trichloroethane	mg/kg	ND	0.0058	0.0024	09/27/17 17:16	
1,1-Dichloroethane	mg/kg	ND	0.0058	0.0017	09/27/17 17:16	
1,1-Dichloroethene	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
1,1-Dichloropropene	mg/kg	ND	0.0058	0.0017	09/27/17 17:16	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0058	0.0025	09/27/17 17:16	
1,2,3-Trichloropropane	mg/kg	ND	0.0058	0.0018	09/27/17 17:16	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0058	0.0018	09/27/17 17:16	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0058	0.0023	09/27/17 17:16	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0058	0.0041	09/27/17 17:16	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
1,2-Dichlorobenzene	mg/kg	ND	0.0058	0.0022	09/27/17 17:16	
1,2-Dichloroethane	mg/kg	ND	0.0058	0.0025	09/27/17 17:16	
1,2-Dichloropropane	mg/kg	ND	0.0058	0.0020	09/27/17 17:16	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
1,3-Dichlorobenzene	mg/kg	ND	0.0058	0.0023	09/27/17 17:16	
1,3-Dichloropropane	mg/kg	ND	0.0058	0.0022	09/27/17 17:16	
1,4-Dichlorobenzene	mg/kg	ND	0.0058	0.0020	09/27/17 17:16	
2,2-Dichloropropane	mg/kg	ND	0.0058	0.0020	09/27/17 17:16	
2-Butanone (MEK)	mg/kg	ND	0.12	0.0033	09/27/17 17:16	
2-Chlorotoluene	mg/kg	ND	0.0058	0.0020	09/27/17 17:16	
2-Hexanone	mg/kg	ND	0.058	0.0045	09/27/17 17:16	
4-Chlorotoluene	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.058	0.0043	09/27/17 17:16	
Acetone	mg/kg	ND	0.12	0.012	09/27/17 17:16	
Benzene	mg/kg	ND	0.0058	0.0018	09/27/17 17:16	
Bromobenzene	mg/kg	ND	0.0058	0.0023	09/27/17 17:16	
Bromochloromethane	mg/kg	ND	0.0058	0.0020	09/27/17 17:16	
Bromodichloromethane	mg/kg	ND	0.0058	0.0022	09/27/17 17:16	
Bromoform	mg/kg	ND	0.0058	0.0026	09/27/17 17:16	
Bromomethane	mg/kg	ND	0.012	0.0029	09/27/17 17:16	
Carbon tetrachloride	mg/kg	ND	0.0058	0.0030	09/27/17 17:16	
Chlorobenzene	mg/kg	ND	0.0058	0.0022	09/27/17 17:16	
Chloroethane	mg/kg	ND	0.012	0.0028	09/27/17 17:16	
Chloroform	mg/kg	ND	0.0058	0.0018	09/27/17 17:16	
Chloromethane	mg/kg	ND	0.012	0.0028	09/27/17 17:16	
cis-1,2-Dichloroethene	mg/kg	ND	0.0058	0.0016	09/27/17 17:16	
cis-1,3-Dichloropropene	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
Dibromochloromethane	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

METHOD BLANK: 2104967

Matrix: Solid

Associated Lab Samples: 92356367008, 92356367009, 92356367010, 92356367011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	mg/kg	ND	0.0058	0.0029	09/27/17 17:16	
Dichlorodifluoromethane	mg/kg	ND	0.012	0.0041	09/27/17 17:16	
Diisopropyl ether	mg/kg	ND	0.0058	0.0020	09/27/17 17:16	
Ethylbenzene	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0058	0.0023	09/27/17 17:16	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0058	0.0022	09/27/17 17:16	
m&p-Xylene	mg/kg	ND	0.012	0.0041	09/27/17 17:16	
Methyl-tert-butyl ether	mg/kg	ND	0.0058	0.0017	09/27/17 17:16	
Methylene Chloride	mg/kg	ND	0.023	0.0035	09/27/17 17:16	
n-Butylbenzene	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
n-Propylbenzene	mg/kg	ND	0.0058	0.0020	09/27/17 17:16	
Naphthalene	mg/kg	ND	0.0058	0.0014	09/27/17 17:16	
o-Xylene	mg/kg	ND	0.0058	0.0022	09/27/17 17:16	
p-Isopropyltoluene	mg/kg	ND	0.0058	0.0020	09/27/17 17:16	
sec-Butylbenzene	mg/kg	ND	0.0058	0.0018	09/27/17 17:16	
Styrene	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
tert-Butylbenzene	mg/kg	ND	0.0058	0.0023	09/27/17 17:16	
Tetrachloroethene	mg/kg	ND	0.0058	0.0020	09/27/17 17:16	
Toluene	mg/kg	ND	0.0058	0.0021	09/27/17 17:16	
trans-1,2-Dichloroethene	mg/kg	ND	0.0058	0.0022	09/27/17 17:16	
trans-1,3-Dichloropropene	mg/kg	ND	0.0058	0.0017	09/27/17 17:16	
Trichloroethene	mg/kg	ND	0.0058	0.0024	09/27/17 17:16	
Trichlorofluoromethane	mg/kg	ND	0.0058	0.0025	09/27/17 17:16	
Vinyl acetate	mg/kg	ND	0.058	0.010	09/27/17 17:16	
Vinyl chloride	mg/kg	ND	0.012	0.0021	09/27/17 17:16	
Xylene (Total)	mg/kg	ND	0.012	0.0041	09/27/17 17:16	
1,2-Dichloroethane-d4 (S)	%	95	70-132		09/27/17 17:16	
4-Bromofluorobenzene (S)	%	101	70-130		09/27/17 17:16	
Toluene-d8 (S)	%	100	70-130		09/27/17 17:16	

LABORATORY CONTROL SAMPLE: 2104968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.052	0.052	99	74-137	
1,1,1-Trichloroethane	mg/kg	.052	0.051	97	67-140	
1,1,2,2-Tetrachloroethane	mg/kg	.052	0.038	72	72-141	
1,1,2-Trichloroethane	mg/kg	.052	0.050	96	78-138	
1,1-Dichloroethane	mg/kg	.052	0.051	98	69-134	
1,1-Dichloroethene	mg/kg	.052	0.051	98	67-138	
1,1-Dichloropropene	mg/kg	.052	0.051	98	69-139	
1,2,3-Trichlorobenzene	mg/kg	.052	0.047	91	70-146	
1,2,3-Trichloropropane	mg/kg	.052	0.049	95	69-144	
1,2,4-Trichlorobenzene	mg/kg	.052	0.048	91	68-148	
1,2,4-Trimethylbenzene	mg/kg	.052	0.050	97	74-137	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2104968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	mg/kg	.052	0.046	88	65-140	
1,2-Dibromoethane (EDB)	mg/kg	.052	0.050	97	77-135	
1,2-Dichlorobenzene	mg/kg	.052	0.050	96	77-141	
1,2-Dichloroethane	mg/kg	.052	0.050	95	65-137	
1,2-Dichloropropane	mg/kg	.052	0.051	99	72-136	
1,3,5-Trimethylbenzene	mg/kg	.052	0.051	98	76-133	
1,3-Dichlorobenzene	mg/kg	.052	0.048	92	74-138	
1,3-Dichloropropane	mg/kg	.052	0.052	99	71-139	
1,4-Dichlorobenzene	mg/kg	.052	0.048	93	76-138	
2,2-Dichloropropane	mg/kg	.052	0.049	95	68-137	
2-Butanone (MEK)	mg/kg	.1	0.10J	96	58-147	
2-Chlorotoluene	mg/kg	.052	0.051	97	73-139	
2-Hexanone	mg/kg	.1	0.096	92	62-145	
4-Chlorotoluene	mg/kg	.052	0.050	96	76-141	
4-Methyl-2-pentanone (MIBK)	mg/kg	.1	0.10	97	64-149	
Acetone	mg/kg	.1	0.11	103	53-153	
Benzene	mg/kg	.052	0.050	96	73-135	
Bromobenzene	mg/kg	.052	0.052	99	75-133	
Bromochloromethane	mg/kg	.052	0.052	99	73-134	
Bromodichloromethane	mg/kg	.052	0.052	99	71-135	
Bromoform	mg/kg	.052	0.047	91	66-141	
Bromomethane	mg/kg	.052	0.049	94	53-160	
Carbon tetrachloride	mg/kg	.052	0.048	92	60-145	
Chlorobenzene	mg/kg	.052	0.050	96	78-130	
Chloroethane	mg/kg	.052	0.047	89	64-149	
Chloroform	mg/kg	.052	0.051	97	70-134	
Chloromethane	mg/kg	.052	0.041	79	52-150	
cis-1,2-Dichloroethene	mg/kg	.052	0.052	99	70-133	
cis-1,3-Dichloropropene	mg/kg	.052	0.054	103	68-134	
Dibromochloromethane	mg/kg	.052	0.051	97	71-138	
Dibromomethane	mg/kg	.052	0.049	95	74-130	
Dichlorodifluoromethane	mg/kg	.052	0.037	71	40-160	
Diisopropyl ether	mg/kg	.052	0.055	105	69-141	
Ethylbenzene	mg/kg	.052	0.050	97	75-133	
Hexachloro-1,3-butadiene	mg/kg	.052	0.049	93	68-143	
Isopropylbenzene (Cumene)	mg/kg	.052	0.051	97	76-143	
m&p-Xylene	mg/kg	.1	0.10	96	75-136	
Methyl-tert-butyl ether	mg/kg	.052	0.052	99	68-144	
Methylene Chloride	mg/kg	.052	0.050	95	45-154	
n-Butylbenzene	mg/kg	.052	0.048	92	72-137	
n-Propylbenzene	mg/kg	.052	0.052	99	76-136	
Naphthalene	mg/kg	.052	0.050	95	68-151	
o-Xylene	mg/kg	.052	0.050	97	76-141	
p-Isopropyltoluene	mg/kg	.052	0.050	96	76-140	
sec-Butylbenzene	mg/kg	.052	0.051	97	79-139	
Styrene	mg/kg	.052	0.050	96	79-137	
tert-Butylbenzene	mg/kg	.052	0.050	97	74-143	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2104968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	mg/kg	.052	0.031	60	71-138	L2
Toluene	mg/kg	.052	0.050	97	74-131	
trans-1,2-Dichloroethene	mg/kg	.052	0.051	97	67-135	
trans-1,3-Dichloropropene	mg/kg	.052	0.051	97	65-146	
Trichloroethene	mg/kg	.052	0.058	110	67-135	
Trichlorofluoromethane	mg/kg	.052	0.040	76	59-144	
Vinyl acetate	mg/kg	.1	0.031J	30	40-160	L2
Vinyl chloride	mg/kg	.052	0.046	88	56-141	
Xylene (Total)	mg/kg	.16	0.15	96	76-137	
1,2-Dichloroethane-d4 (S)	%			94	70-132	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 2105029

Parameter	Units	92356367009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	.017	0.015	84	70-130	
1,1,1-Trichloroethane	mg/kg	ND	.017	0.014	82	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.017	0.019	112	70-130	
1,1,2-Trichloroethane	mg/kg	ND	.017	0.017	98	70-130	
1,1-Dichloroethane	mg/kg	ND	.017	0.014	83	70-130	
1,1-Dichloroethene	mg/kg	ND	.017	0.014	80	49-180	
1,1-Dichloropropene	mg/kg	ND	.017	0.014	80	70-130	
1,2,3-Trichlorobenzene	mg/kg	ND	.017	0.010	58	70-130	M1
1,2,3-Trichloropropane	mg/kg	ND	.017	0.019	109	70-130	
1,2,4-Trichlorobenzene	mg/kg	ND	.017	0.0097	56	70-130	M1
1,2,4-Trimethylbenzene	mg/kg	ND	.017	0.013	77	70-130	
1,2-Dibromo-3-chloropropane	mg/kg	ND	.017	0.017	100	70-130	
1,2-Dibromoethane (EDB)	mg/kg	ND	.017	0.017	100	70-130	
1,2-Dichlorobenzene	mg/kg	ND	.017	0.013	74	70-130	
1,2-Dichloroethane	mg/kg	ND	.017	0.017	97	70-130	
1,2-Dichloropropane	mg/kg	ND	.017	0.015	88	70-130	
1,3,5-Trimethylbenzene	mg/kg	ND	.017	0.013	77	70-130	
1,3-Dichlorobenzene	mg/kg	ND	.017	0.013	73	70-130	
1,3-Dichloropropane	mg/kg	ND	.017	0.017	100	70-130	
1,4-Dichlorobenzene	mg/kg	ND	.017	0.013	73	70-130	
2,2-Dichloropropane	mg/kg	ND	.017	0.014	81	70-130	
2-Butanone (MEK)	mg/kg	ND	.035	0.042J	120	70-130	
2-Chlorotoluene	mg/kg	ND	.017	0.014	78	70-130	
2-Hexanone	mg/kg	ND	.035	0.042J	121	70-130	
4-Chlorotoluene	mg/kg	ND	.017	0.013	76	70-130	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.035	0.042J	122	70-130	
Acetone	mg/kg	0.047J	.035	0.040J	-22	70-130	M1
Benzene	mg/kg	ND	.017	0.014	81	50-166	
Bromobenzene	mg/kg	ND	.017	0.015	84	70-130	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1
Pace Project No.: 92356367

MATRIX SPIKE SAMPLE: 2105029		92356367009	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	mg/kg	ND	.017	0.016	95	70-130	
Bromodichloromethane	mg/kg	ND	.017	0.015	89	70-130	
Bromoform	mg/kg	ND	.017	0.016	94	70-130	
Bromomethane	mg/kg	ND	.017	0.016	94	70-130	
Carbon tetrachloride	mg/kg	ND	.017	0.014	79	70-130	
Chlorobenzene	mg/kg	ND	.017	0.014	80	43-169	
Chloroethane	mg/kg	ND	.017	0.016	90	70-130	
Chloroform	mg/kg	ND	.017	0.015	89	70-130	
Chloromethane	mg/kg	ND	.017	0.014	80	70-130	
cis-1,2-Dichloroethene	mg/kg	ND	.017	0.015	89	70-130	
cis-1,3-Dichloropropene	mg/kg	ND	.017	0.015	85	70-130	
Dibromochloromethane	mg/kg	ND	.017	0.016	90	70-130	
Dibromomethane	mg/kg	ND	.017	0.017	96	70-130	
Dichlorodifluoromethane	mg/kg	ND	.017	0.012	71	70-130	
Diisopropyl ether	mg/kg	ND	.017	0.016	90	70-130	
Ethylbenzene	mg/kg	ND	.017	0.014	81	70-130	
Hexachloro-1,3-butadiene	mg/kg	ND	.017	0.011	64	70-130	M1
Isopropylbenzene (Cumene)	mg/kg	ND	.017	0.013	77	70-130	
m&p-Xylene	mg/kg	ND	.035	0.027	78	70-130	
Methyl-tert-butyl ether	mg/kg	ND	.017	0.018	104	70-130	
Methylene Chloride	mg/kg	ND	.017	0.015J	88	70-130	
n-Butylbenzene	mg/kg	ND	.017	0.012	71	70-130	
n-Propylbenzene	mg/kg	ND	.017	0.013	78	70-130	
Naphthalene	mg/kg	ND	.017	0.010	61	70-130	M1
o-Xylene	mg/kg	ND	.017	0.014	79	70-130	
p-Isopropyltoluene	mg/kg	ND	.017	0.013	76	70-130	
sec-Butylbenzene	mg/kg	ND	.017	0.013	76	70-130	
Styrene	mg/kg	ND	.017	0.013	75	70-130	
tert-Butylbenzene	mg/kg	ND	.017	0.013	76	70-130	
Tetrachloroethene	mg/kg	ND	.017	0.0076	44	70-130	M0
Toluene	mg/kg	ND	.017	0.014	83	52-163	
trans-1,2-Dichloroethene	mg/kg	ND	.017	0.014	82	70-130	
trans-1,3-Dichloropropene	mg/kg	ND	.017	0.016	92	70-130	
Trichloroethene	mg/kg	ND	.017	0.013	76	49-167	
Trichlorofluoromethane	mg/kg	ND	.017	0.015	86	70-130	
Vinyl acetate	mg/kg	ND	.035	0.069	198	70-130	M0
Vinyl chloride	mg/kg	ND	.017	0.015	87	70-130	
1,2-Dichloroethane-d4 (S)	%				111	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2105028

Parameter	Units	92356367008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2105028

Parameter	Units	92356367008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,2-Trichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropane	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	ND	0.0087J		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
2-Hexanone	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	0.32	0.050J		30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Diisopropyl ether	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	
m&p-Xylene	mg/kg	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2105028

Parameter	Units	92356367008 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	ND	ND		30	
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
o-Xylene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	
Tetrachloroethene	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl acetate	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	94	117	38		
4-Bromofluorobenzene (S)	%	103	97	12		
Toluene-d8 (S)	%	101	100	16		

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch:	379361	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	92356367012		

METHOD BLANK: 2102352 Matrix: Water

Associated Lab Samples: 92356367012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	0.98	09/27/17 19:50	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	5.0	0.95	09/27/17 19:50	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.3	09/27/17 19:50	
2,4-Dichlorophenol	ug/L	ND	5.0	1.7	09/27/17 19:50	
2,4-Dimethylphenol	ug/L	ND	10.0	1.2	09/27/17 19:50	
2,4-Dinitrophenol	ug/L	ND	50.0	9.0	09/27/17 19:50	
2,4-Dinitrotoluene	ug/L	ND	5.0	0.90	09/27/17 19:50	
2,6-Dinitrotoluene	ug/L	ND	5.0	0.98	09/27/17 19:50	
2-Chloronaphthalene	ug/L	ND	5.0	0.98	09/27/17 19:50	
2-Chlorophenol	ug/L	ND	5.0	1.3	09/27/17 19:50	
2-Nitrophenol	ug/L	ND	5.0	0.91	09/27/17 19:50	
3,3'-Dichlorobenzidine	ug/L	ND	25.0	2.1	09/27/17 19:50	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	2.6	09/27/17 19:50	
4-Bromophenylphenyl ether	ug/L	ND	5.0	0.82	09/27/17 19:50	
4-Chloro-3-methylphenol	ug/L	ND	5.0	3.7	09/27/17 19:50	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	0.87	09/27/17 19:50	
4-Nitrophenol	ug/L	ND	50.0	4.1	09/27/17 19:50	
Acenaphthene	ug/L	ND	5.0	0.25	09/27/17 19:50	
Acenaphthylene	ug/L	ND	5.0	0.21	09/27/17 19:50	
Anthracene	ug/L	ND	5.0	0.14	09/27/17 19:50	
Benzo(a)anthracene	ug/L	ND	5.0	0.33	09/27/17 19:50	
Benzo(a)pyrene	ug/L	ND	5.0	0.30	09/27/17 19:50	
Benzo(b)fluoranthene	ug/L	ND	5.0	0.28	09/27/17 19:50	
Benzo(g,h,i)perylene	ug/L	ND	5.0	0.38	09/27/17 19:50	
Benzo(k)fluoranthene	ug/L	ND	5.0	0.43	09/27/17 19:50	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	0.92	09/27/17 19:50	
bis(2-Chloroethyl) ether	ug/L	ND	5.0	1.0	09/27/17 19:50	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	0.79	09/27/17 19:50	
Butylbenzylphthalate	ug/L	ND	5.0	0.79	09/27/17 19:50	
Chrysene	ug/L	ND	5.0	0.21	09/27/17 19:50	
Di-n-butylphthalate	ug/L	ND	5.0	0.75	09/27/17 19:50	
Di-n-octylphthalate	ug/L	ND	5.0	0.66	09/27/17 19:50	
Dibenz(a,h)anthracene	ug/L	ND	5.0	0.55	09/27/17 19:50	
Diethylphthalate	ug/L	ND	5.0	0.58	09/27/17 19:50	
Dimethylphthalate	ug/L	ND	5.0	0.76	09/27/17 19:50	
Fluoranthene	ug/L	ND	5.0	0.21	09/27/17 19:50	
Fluorene	ug/L	ND	5.0	0.21	09/27/17 19:50	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	0.94	09/27/17 19:50	
Hexachlorobenzene	ug/L	ND	5.0	0.72	09/27/17 19:50	
Hexachlorocyclopentadiene	ug/L	ND	10.0	0.88	09/27/17 19:50	
Hexachloroethane	ug/L	ND	5.0	1.1	09/27/17 19:50	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

METHOD BLANK: 2102352

Matrix: Water

Associated Lab Samples: 92356367012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	0.29	09/27/17 19:50	
Isophorone	ug/L	ND	10.0	0.89	09/27/17 19:50	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	0.99	09/27/17 19:50	
N-Nitrosodimethylamine	ug/L	ND	5.0	0.91	09/27/17 19:50	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.0	09/27/17 19:50	
Naphthalene	ug/L	ND	5.0	0.34	09/27/17 19:50	
Nitrobenzene	ug/L	ND	5.0	1.1	09/27/17 19:50	
Pentachlorophenol	ug/L	ND	10.0	4.6	09/27/17 19:50	
Phenanthrene	ug/L	ND	5.0	0.22	09/27/17 19:50	
Phenol	ug/L	ND	5.0	1.9	09/27/17 19:50	
Pyrene	ug/L	ND	5.0	0.19	09/27/17 19:50	
2,4,6-Tribromophenol (S)	%	79	10-137		09/27/17 19:50	
2-Fluorobiphenyl (S)	%	65	15-120		09/27/17 19:50	
2-Fluorophenol (S)	%	31	10-120		09/27/17 19:50	
Nitrobenzene-d5 (S)	%	72	10-120		09/27/17 19:50	
Phenol-d6 (S)	%	18	10-120		09/27/17 19:50	
Terphenyl-d14 (S)	%	84	11-131		09/27/17 19:50	

LABORATORY CONTROL SAMPLE: 2102353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	27.6	55	44-142	
2,2'-Oxybis(1-chloropropane)	ug/L	50	25.3	51	36-166	
2,4,6-Trichlorophenol	ug/L	50	44.7	89	37-144	
2,4-Dichlorophenol	ug/L	50	35.1	70	1-191	
2,4-Dimethylphenol	ug/L	50	36.3	73	32-119	
2,4-Dinitrophenol	ug/L	250	237	95	1-181	
2,4-Dinitrotoluene	ug/L	50	48.5	97	39-139	
2,6-Dinitrotoluene	ug/L	50	46.3	93	50-158	
2-Chloronaphthalene	ug/L	50	36.4	73	60-118	
2-Chlorophenol	ug/L	50	29.9	60	23-134	
2-Nitrophenol	ug/L	50	37.8	76	29-182	
3,3'-Dichlorobenzidine	ug/L	100	76.1	76	1-262	
4,6-Dinitro-2-methylphenol	ug/L	100	114	114	1-181	
4-Bromophenylphenyl ether	ug/L	50	42.5	85	53-127	
4-Chloro-3-methylphenol	ug/L	100	79.8	80	22-147	
4-Chlorophenylphenyl ether	ug/L	50	41.3	83	25-158	
4-Nitrophenol	ug/L	250	101	40	1-132	
Acenaphthene	ug/L	50	37.9	76	47-145	
Acenaphthylene	ug/L	50	37.6	75	33-145	
Anthracene	ug/L	50	40.2	80	1-166	
Benzo(a)anthracene	ug/L	50	45.0	90	33-143	
Benzo(a)pyrene	ug/L	50	45.0	90	17-163	
Benzo(b)fluoranthene	ug/L	50	43.7	87	24-159	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1
Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2102353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(g,h,i)perylene	ug/L	50	41.9	84	1-219	
Benzo(k)fluoranthene	ug/L	50	48.1	96	11-162	
bis(2-Chloroethoxy)methane	ug/L	50	39.1	78	33-184	
bis(2-Chloroethyl) ether	ug/L	50	31.8	64	12-158	
bis(2-Ethylhexyl)phthalate	ug/L	50	47.2	94	8-158	
Butylbenzylphthalate	ug/L	50	46.3	93	1-152	
Chrysene	ug/L	50	44.8	90	17-168	
Di-n-butylphthalate	ug/L	50	48.0	96	1-118	
Di-n-octylphthalate	ug/L	50	42.3	85	4-146	
Dibenz(a,h)anthracene	ug/L	50	44.0	88	1-227	
Diethylphthalate	ug/L	50	49.2	98	1-114	
Dimethylphthalate	ug/L	50	46.4	93	1-112	
Fluoranthene	ug/L	50	45.4	91	26-137	
Fluorene	ug/L	50	41.8	84	59-121	
Hexachloro-1,3-butadiene	ug/L	50	26.9	54	24-116	
Hexachlorobenzene	ug/L	50	40.6	81	1-152	
Hexachlorocyclopentadiene	ug/L	50	23.3	47	25-150	
Hexachloroethane	ug/L	50	21.7	43	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.9	86	1-171	
Isophorone	ug/L	50	42.8	86	21-196	
N-Nitroso-di-n-propylamine	ug/L	50	38.5	77	1-230	
N-Nitrosodimethylamine	ug/L	50	23.1	46	25-150	
N-Nitrosodiphenylamine	ug/L	50	38.9	78	25-150	
Naphthalene	ug/L	50	30.3	61	21-133	
Nitrobenzene	ug/L	50	38.1	76	35-180	
Pentachlorophenol	ug/L	100	88.5	89	14-176	
Phenanthrene	ug/L	50	39.6	79	54-120	
Phenol	ug/L	50	11.5	23	5-112	
Pyrene	ug/L	50	41.0	82	52-115	
2,4,6-Tribromophenol (S)	%			91	10-137	
2-Fluorobiphenyl (S)	%			76	15-120	
2-Fluorophenol (S)	%			36	10-120	
Nitrobenzene-d5 (S)	%			76	10-120	
Phenol-d6 (S)	%			24	10-120	
Terphenyl-d14 (S)	%			80	11-131	

SAMPLE DUPLICATE: 2102355

Parameter	Units	92356026004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	ND		30	
2,4,6-Trichlorophenol	ug/L	ND	ND		30	
2,4-Dichlorophenol	ug/L	ND	ND		30	
2,4-Dimethylphenol	ug/L	ND	ND		30	
2,4-Dinitrophenol	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2102355

Parameter	Units	92356026004 Result	Dup Result	RPD	Max RPD	Qualifiers
2,4-Dinitrotoluene	ug/L	ND	ND		30	
2,6-Dinitrotoluene	ug/L	ND	ND		30	
2-Chloronaphthalene	ug/L	ND	ND		30	
2-Chlorophenol	ug/L	ND	ND		30	
2-Nitrophenol	ug/L	ND	ND		30	
3,3'-Dichlorobenzidine	ug/L	ND	ND		30	
4,6-Dinitro-2-methylphenol	ug/L	ND	ND		30	
4-Bromophenylphenyl ether	ug/L	ND	ND		30	
4-Chloro-3-methylphenol	ug/L	ND	ND		30	
4-Chlorophenylphenyl ether	ug/L	ND	ND		30	
4-Nitrophenol	ug/L	ND	ND		30	
Acenaphthene	ug/L	ND	ND		30	
Acenaphthylene	ug/L	ND	ND		30	
Anthracene	ug/L	ND	ND		30	
Benzo(a)anthracene	ug/L	ND	ND		30	
Benzo(a)pyrene	ug/L	ND	ND		30	
Benzo(b)fluoranthene	ug/L	ND	ND		30	
Benzo(g,h,i)perylene	ug/L	ND	ND		30	
Benzo(k)fluoranthene	ug/L	ND	ND		30	
bis(2-Chloroethoxy)methane	ug/L	ND	ND		30	
bis(2-Chloroethyl) ether	ug/L	ND	ND		30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	ND		30	
Butylbenzylphthalate	ug/L	ND	ND		30	
Chrysene	ug/L	ND	ND		30	
Di-n-butylphthalate	ug/L	ND	ND		30	
Di-n-octylphthalate	ug/L	ND	ND		30	
Dibenz(a,h)anthracene	ug/L	ND	ND		30	
Diethylphthalate	ug/L	ND	ND		30	
Dimethylphthalate	ug/L	ND	ND		30	
Fluoranthene	ug/L	ND	ND		30	
Fluorene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Hexachlorobenzene	ug/L	ND	ND		30	
Hexachlorocyclopentadiene	ug/L	ND	ND		30	
Hexachloroethane	ug/L	ND	ND		30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND		30	
Isophorone	ug/L	ND	ND		30	
N-Nitroso-di-n-propylamine	ug/L	ND	ND		30	
N-Nitrosodimethylamine	ug/L	ND	ND		30	
N-Nitrosodiphenylamine	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
Nitrobenzene	ug/L	ND	ND		30	
Pentachlorophenol	ug/L	ND	ND		30	
Phenanthrene	ug/L	ND	ND		30	
Phenol	ug/L	2760	3170	14	30	
Pyrene	ug/L	ND	ND		30	
2,4,6-Tribromophenol (S)	%	0	0			S4

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2102355

Parameter	Units	92356026004 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Fluorobiphenyl (S)	%	0	0			S4
2-Fluorophenol (S)	%	0	0			S4
Nitrobenzene-d5 (S)	%	0	0			D3,P3,S4
Phenol-d6 (S)	%	0	0			S4
Terphenyl-d14 (S)	%	0	0			S4

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379044 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92356367001, 92356367002, 92356367003, 92356367004, 92356367005, 92356367006, 92356367007, 92356367008, 92356367009, 92356367010, 92356367011

METHOD BLANK: 2100679 Matrix: Solid
Associated Lab Samples: 92356367001, 92356367002, 92356367003, 92356367004, 92356367005, 92356367006, 92356367007, 92356367008, 92356367009, 92356367010, 92356367011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	ND	0.33	0.064	09/25/17 16:54	
1,2-Dichlorobenzene	mg/kg	ND	0.33	0.089	09/25/17 16:54	
1,3-Dichlorobenzene	mg/kg	ND	0.33	0.076	09/25/17 16:54	
1,4-Dichlorobenzene	mg/kg	ND	0.33	0.094	09/25/17 16:54	
1-Methylnaphthalene	mg/kg	ND	0.33	0.087	09/25/17 16:54	
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	0.33	0.089	09/25/17 16:54	
2,4,5-Trichlorophenol	mg/kg	ND	0.33	0.10	09/25/17 16:54	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	0.073	09/25/17 16:54	
2,4-Dichlorophenol	mg/kg	ND	0.33	0.072	09/25/17 16:54	
2,4-Dimethylphenol	mg/kg	ND	0.33	0.13	09/25/17 16:54	
2,4-Dinitrophenol	mg/kg	ND	1.7	0.054	09/25/17 16:54	
2,4-Dinitrotoluene	mg/kg	ND	0.33	0.062	09/25/17 16:54	
2,6-Dinitrotoluene	mg/kg	ND	0.33	0.069	09/25/17 16:54	
2-Chloronaphthalene	mg/kg	ND	0.33	0.065	09/25/17 16:54	
2-Chlorophenol	mg/kg	ND	0.33	0.091	09/25/17 16:54	
2-Methylnaphthalene	mg/kg	ND	0.33	0.071	09/25/17 16:54	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	0.10	09/25/17 16:54	
2-Nitroaniline	mg/kg	ND	1.7	0.10	09/25/17 16:54	
2-Nitrophenol	mg/kg	ND	0.33	0.081	09/25/17 16:54	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.33	0.13	09/25/17 16:54	
3,3'-Dichlorobenzidine	mg/kg	ND	1.7	0.072	09/25/17 16:54	
3-Nitroaniline	mg/kg	ND	1.7	0.091	09/25/17 16:54	
4,6-Dinitro-2-methylphenol	mg/kg	ND	0.66	0.066	09/25/17 16:54	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	0.060	09/25/17 16:54	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	0.068	09/25/17 16:54	
4-Chloroaniline	mg/kg	ND	1.7	0.093	09/25/17 16:54	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	0.068	09/25/17 16:54	
4-Nitroaniline	mg/kg	ND	0.66	0.094	09/25/17 16:54	
4-Nitrophenol	mg/kg	ND	1.7	0.059	09/25/17 16:54	
Acenaphthene	mg/kg	ND	0.33	0.077	09/25/17 16:54	
Acenaphthylene	mg/kg	ND	0.33	0.079	09/25/17 16:54	
Aniline	mg/kg	ND	0.33	0.090	09/25/17 16:54	
Anthracene	mg/kg	ND	0.33	0.074	09/25/17 16:54	
Benzo(a)anthracene	mg/kg	ND	0.33	0.061	09/25/17 16:54	
Benzo(a)pyrene	mg/kg	ND	0.33	0.063	09/25/17 16:54	
Benzo(b)fluoranthene	mg/kg	ND	0.33	0.057	09/25/17 16:54	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	0.085	09/25/17 16:54	
Benzo(k)fluoranthene	mg/kg	ND	0.33	0.065	09/25/17 16:54	
Benzoic Acid	mg/kg	ND	1.7	0.060	09/25/17 16:54	
Benzyl alcohol	mg/kg	ND	0.66	0.066	09/25/17 16:54	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

METHOD BLANK: 2100679

Matrix: Solid

Associated Lab Samples: 92356367001, 92356367002, 92356367003, 92356367004, 92356367005, 92356367006, 92356367007, 92356367008, 92356367009, 92356367010, 92356367011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	0.078	09/25/17 16:54	
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	0.085	09/25/17 16:54	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	0.091	09/25/17 16:54	
Butylbenzylphthalate	mg/kg	ND	0.33	0.070	09/25/17 16:54	
Chrysene	mg/kg	ND	0.33	0.044	09/25/17 16:54	
Di-n-butylphthalate	mg/kg	ND	0.33	0.054	09/25/17 16:54	
Di-n-octylphthalate	mg/kg	ND	0.33	0.069	09/25/17 16:54	
Dibenz(a,h)anthracene	mg/kg	ND	0.33	0.070	09/25/17 16:54	
Dibenzofuran	mg/kg	ND	0.33	0.054	09/25/17 16:54	
Diethylphthalate	mg/kg	ND	0.33	0.051	09/25/17 16:54	
Dimethylphthalate	mg/kg	ND	0.33	0.067	09/25/17 16:54	
Fluoranthene	mg/kg	ND	0.33	0.048	09/25/17 16:54	
Fluorene	mg/kg	ND	0.33	0.068	09/25/17 16:54	
Hexachloro-1,3-butadiene	mg/kg	ND	0.33	0.057	09/25/17 16:54	
Hexachlorobenzene	mg/kg	ND	0.33	0.042	09/25/17 16:54	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	0.061	09/25/17 16:54	
Hexachloroethane	mg/kg	ND	0.33	0.088	09/25/17 16:54	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	0.068	09/25/17 16:54	
Isophorone	mg/kg	ND	0.33	0.074	09/25/17 16:54	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	0.063	09/25/17 16:54	
N-Nitrosodimethylamine	mg/kg	ND	0.33	0.11	09/25/17 16:54	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	0.099	09/25/17 16:54	
Naphthalene	mg/kg	ND	0.33	0.082	09/25/17 16:54	
Nitrobenzene	mg/kg	ND	0.33	0.091	09/25/17 16:54	
Pentachlorophenol	mg/kg	ND	1.7	0.060	09/25/17 16:54	
Phenanthrene	mg/kg	ND	0.33	0.055	09/25/17 16:54	
Phenol	mg/kg	ND	0.33	0.10	09/25/17 16:54	
Pyrene	mg/kg	ND	0.33	0.056	09/25/17 16:54	
2,4,6-Tribromophenol (S)	%	70	27-110		09/25/17 16:54	
2-Fluorobiphenyl (S)	%	67	30-110		09/25/17 16:54	
2-Fluorophenol (S)	%	64	13-110		09/25/17 16:54	
Nitrobenzene-d5 (S)	%	66	23-110		09/25/17 16:54	
Phenol-d6 (S)	%	68	22-110		09/25/17 16:54	
Terphenyl-d14 (S)	%	80	28-110		09/25/17 16:54	

LABORATORY CONTROL SAMPLE: 2100680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	1.7	1.3	75	36-120	
1,2-Dichlorobenzene	mg/kg	1.7	1.2	72	41-120	
1,3-Dichlorobenzene	mg/kg	1.7	1.2	71	66-120	
1,4-Dichlorobenzene	mg/kg	1.7	1.2	71	42-120	
1-Methylnaphthalene	mg/kg	1.7	1.3	77	40-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2100680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2'-Oxybis(1-chloropropane)	mg/kg	1.7	1.1	63	17-120	
2,4,5-Trichlorophenol	mg/kg	1.7	1.4	82	37-120	
2,4,6-Trichlorophenol	mg/kg	1.7	1.3	76	40-120	
2,4-Dichlorophenol	mg/kg	1.7	1.3	76	33-120	
2,4-Dimethylphenol	mg/kg	1.7	1.3	80	36-120	
2,4-Dinitrophenol	mg/kg	8.4	6.8	81	22-121	
2,4-Dinitrotoluene	mg/kg	1.7	1.4	85	60-120	
2,6-Dinitrotoluene	mg/kg	1.7	1.4	85	54-120	
2-Chloronaphthalene	mg/kg	1.7	1.3	74	41-120	
2-Chlorophenol	mg/kg	1.7	1.2	74	39-120	
2-Methylnaphthalene	mg/kg	1.7	1.3	76	26-120	
2-Methylphenol(o-Cresol)	mg/kg	1.7	1.4	81	41-120	
2-Nitroaniline	mg/kg	3.4	2.7	79	45-120	
2-Nitrophenol	mg/kg	1.7	1.3	76	35-120	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.7	1.4	81	35-120	
3,3'-Dichlorobenzidine	mg/kg	3.4	2.5	73	16-125	
3-Nitroaniline	mg/kg	3.4	2.6	77	45-120	
4,6-Dinitro-2-methylphenol	mg/kg	3.4	3.0	89	46-120	
4-Bromophenylphenyl ether	mg/kg	1.7	1.3	77	36-120	
4-Chloro-3-methylphenol	mg/kg	3.4	2.6	79	37-120	
4-Chloroaniline	mg/kg	3.4	2.4	71	35-120	
4-Chlorophenylphenyl ether	mg/kg	1.7	1.2	73	30-120	
4-Nitroaniline	mg/kg	3.4	2.9	85	48-120	
4-Nitrophenol	mg/kg	8.4	7.1	84	43-120	
Acenaphthene	mg/kg	1.7	1.2	73	46-120	
Acenaphthylene	mg/kg	1.7	1.3	77	46-120	
Aniline	mg/kg	1.7	1.2	70	33-120	
Anthracene	mg/kg	1.7	1.4	81	63-120	
Benzo(a)anthracene	mg/kg	1.7	1.3	75	61-120	
Benzo(a)pyrene	mg/kg	1.7	1.2	72	59-120	
Benzo(b)fluoranthene	mg/kg	1.7	1.2	70	55-120	
Benzo(g,h,i)perylene	mg/kg	1.7	1.1	67	57-120	
Benzo(k)fluoranthene	mg/kg	1.7	1.1	68	56-120	
Benzoic Acid	mg/kg	8.4	6.0	72	13-120	
Benzyl alcohol	mg/kg	3.4	2.5	75	34-120	
bis(2-Chloroethoxy)methane	mg/kg	1.7	1.3	77	21-120	
bis(2-Chloroethyl) ether	mg/kg	1.7	1.3	74	25-120	
bis(2-Ethylhexyl)phthalate	mg/kg	1.7	1.5	88	56-123	
Butylbenzylphthalate	mg/kg	1.7	1.5	88	57-120	
Chrysene	mg/kg	1.7	1.2	74	64-120	
Di-n-butylphthalate	mg/kg	1.7	1.4	85	58-120	
Di-n-octylphthalate	mg/kg	1.7	1.4	85	47-121	
Dibenz(a,h)anthracene	mg/kg	1.7	1.2	68	56-120	
Dibenzofuran	mg/kg	1.7	1.2	73	43-120	
Diethylphthalate	mg/kg	1.7	1.4	84	55-120	
Dimethylphthalate	mg/kg	1.7	1.4	85	54-120	
Fluoranthene	mg/kg	1.7	1.4	81	61-120	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

LABORATORY CONTROL SAMPLE: 2100680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	mg/kg	1.7	1.3	78	51-120	
Hexachloro-1,3-butadiene	mg/kg	1.7	1.2	72	22-120	
Hexachlorobenzene	mg/kg	1.7	1.3	80	53-120	
Hexachlorocyclopentadiene	mg/kg	1.7	1.2	73	18-150	
Hexachloroethane	mg/kg	1.7	1.2	72	39-120	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.2	70	58-120	
Isophorone	mg/kg	1.7	1.3	79	38-120	
N-Nitroso-di-n-propylamine	mg/kg	1.7	1.4	81	30-120	
N-Nitrosodimethylamine	mg/kg	1.7	1.2	73	32-120	
N-Nitrosodiphenylamine	mg/kg	1.7	1.3	78	50-120	
Naphthalene	mg/kg	1.7	1.2	73	38-120	
Nitrobenzene	mg/kg	1.7	1.3	75	37-120	
Pentachlorophenol	mg/kg	3.4	2.9	85	10-120	
Phenanthrene	mg/kg	1.7	1.3	78	62-120	
Phenol	mg/kg	1.7	1.3	74	37-120	
Pyrene	mg/kg	1.7	1.3	75	63-120	
2,4,6-Tribromophenol (S)	%			82	27-110	
2-Fluorobiphenyl (S)	%			74	30-110	
2-Fluorophenol (S)	%			74	13-110	
Nitrobenzene-d5 (S)	%			72	23-110	
Phenol-d6 (S)	%			77	22-110	
Terphenyl-d14 (S)	%			74	28-110	

MATRIX SPIKE SAMPLE: 2100681

Parameter	Units	92356334001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	ND	2	0.36J	19	18-119	
1,2-Dichlorobenzene	mg/kg	ND	2	0.34J	18	50-110	M1
1,3-Dichlorobenzene	mg/kg	ND	2	0.34J	18	27-110	M1
1,4-Dichlorobenzene	mg/kg	ND	2	0.33J	17	28-110	M1
1-Methylnaphthalene	mg/kg	ND	2	0.49	25	24-116	
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	2	0.29J	15	50-150	M1
2,4,5-Trichlorophenol	mg/kg	ND	2	1.1	59	28-110	
2,4,6-Trichlorophenol	mg/kg	ND	2	0.92	48	17-117	
2,4-Dichlorophenol	mg/kg	ND	2	0.49	26	21-128	
2,4-Dimethylphenol	mg/kg	ND	2	0.58	30	10-120	
2,4-Dinitrophenol	mg/kg	ND	9.6	2.7	29	10-107	
2,4-Dinitrotoluene	mg/kg	ND	2	1.5	78	36-109	
2,6-Dinitrotoluene	mg/kg	ND	2	1.4	73	32-110	
2-Chloronaphthalene	mg/kg	ND	2	0.62	33	30-107	
2-Chlorophenol	mg/kg	ND	2	0.36J	19	14-106	
2-Methylnaphthalene	mg/kg	ND	2	0.48	25	10-135	
2-Methylphenol(o-Cresol)	mg/kg	ND	2	0.45	24	10-124	
2-Nitroaniline	mg/kg	ND	3.8	2.4	63	26-116	
2-Nitrophenol	mg/kg	ND	2	0.40	21	28-103	M1

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

MATRIX SPIKE SAMPLE:	2100681	92356334001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	2	0.50	26	10-109	
3,3'-Dichlorobenzidine	mg/kg	ND	3.8	2.4	59	10-150	
3-Nitroaniline	mg/kg	ND	3.8	2.8	72	22-110	
4,6-Dinitro-2-methylphenol	mg/kg	ND	3.8	2.8	74	13-121	
4-Bromophenylphenyl ether	mg/kg	ND	2	1.2	63	31-109	
4-Chloro-3-methylphenol	mg/kg	ND	3.8	2.0	51	13-128	
4-Chloroaniline	mg/kg	ND	3.8	1.1J	30	18-102	
4-Chlorophenylphenyl ether	mg/kg	ND	2	0.99	52	29-112	
4-Nitroaniline	mg/kg	ND	3.8	3.0	77	16-111	
4-Nitrophenol	mg/kg	ND	9.6	7.1	73	14-135	
Acenaphthene	mg/kg	ND	2	0.87	46	26-114	
Acenaphthylene	mg/kg	ND	2	0.85	45	32-108	
Aniline	mg/kg	ND	2	0.40	21	10-107	
Anthracene	mg/kg	ND	2	1.3	69	32-111	
Benzo(a)anthracene	mg/kg	ND	2	1.2	58	25-117	
Benzo(a)pyrene	mg/kg	ND	2	1.1	54	25-106	
Benzo(b)fluoranthene	mg/kg	ND	2	1.1	53	24-110	
Benzo(g,h,i)perylene	mg/kg	ND	2	1.0	50	19-112	
Benzo(k)fluoranthene	mg/kg	ND	2	1.1	53	24-114	
Benzoic Acid	mg/kg	ND	9.6	ND	0	10-110	M1
Benzyl alcohol	mg/kg	ND	3.8	0.96	25	24-106	
bis(2-Chloroethoxy)methane	mg/kg	ND	2	0.44	23	13-119	
bis(2-Chloroethyl) ether	mg/kg	ND	2	0.37J	19	10-134	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	2	1.5	76	10-125	
Butylbenzylphthalate	mg/kg	ND	2	1.4	73	18-110	
Chrysene	mg/kg	ND	2	1.2	57	30-110	
Di-n-butylphthalate	mg/kg	ND	2	1.4	76	19-112	
Di-n-octylphthalate	mg/kg	ND	2	1.4	66	17-105	
Dibenz(a,h)anthracene	mg/kg	ND	2	1.0	51	23-111	
Dibenzofuran	mg/kg	ND	2	0.95	50	35-103	
Diethylphthalate	mg/kg	ND	2	1.5	76	27-113	
Dimethylphthalate	mg/kg	ND	2	1.4	74	26-111	
Fluoranthene	mg/kg	ND	2	1.3	70	33-109	
Fluorene	mg/kg	ND	2	1.1	57	32-113	
Hexachloro-1,3-butadiene	mg/kg	ND	2	0.32J	17	16-116	
Hexachlorobenzene	mg/kg	ND	2	1.2	65	27-120	
Hexachlorocyclopentadiene	mg/kg	ND	2	0.32J	17	10-108	
Hexachloroethane	mg/kg	ND	2	0.38	20	10-117	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	2	1.1	53	10-122	
Isophorone	mg/kg	ND	2	0.76	40	28-114	
N-Nitroso-di-n-propylamine	mg/kg	ND	2	0.53	28	27-113	
N-Nitrosodimethylamine	mg/kg	ND	2	0.41	21	10-109	
N-Nitrosodiphenylamine	mg/kg	ND	2	1.4	71	10-128	
Naphthalene	mg/kg	ND	2	0.39	20	25-110	M1
Nitrobenzene	mg/kg	ND	2	0.41	21	18-114	
Pentachlorophenol	mg/kg	ND	3.8	3.1	81	10-122	
Phenanthrene	mg/kg	ND	2	1.3	67	30-114	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

MATRIX SPIKE SAMPLE: 2100681		92356334001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Phenol	mg/kg	ND	2	0.42	22	11-102	
Pyrene	mg/kg	ND	2	1.3	67	25-116	
2,4,6-Tribromophenol (S)	%				78	27-110	
2-Fluorobiphenyl (S)	%				27	30-110	SO
2-Fluorophenol (S)	%				19	13-110	
Nitrobenzene-d5 (S)	%				21	23-110	SO
Phenol-d6 (S)	%				22	22-110	
Terphenyl-d14 (S)	%				65	28-110	

SAMPLE DUPLICATE: 2100682

Parameter	Units	92356334001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
1-Methylnaphthalene	mg/kg	ND	ND		30	
2,2'-Oxybis(1-chloropropane)	mg/kg	ND	ND		30	
2,4,5-Trichlorophenol	mg/kg	ND	ND		30	
2,4,6-Trichlorophenol	mg/kg	ND	ND		30	
2,4-Dichlorophenol	mg/kg	ND	ND		30	
2,4-Dimethylphenol	mg/kg	ND	ND		30	
2,4-Dinitrophenol	mg/kg	ND	ND		30	
2,4-Dinitrotoluene	mg/kg	ND	ND		30	
2,6-Dinitrotoluene	mg/kg	ND	ND		30	
2-Chloronaphthalene	mg/kg	ND	ND		30	
2-Chlorophenol	mg/kg	ND	ND		30	
2-Methylnaphthalene	mg/kg	ND	0.11J		30	
2-Methylphenol(o-Cresol)	mg/kg	ND	ND		30	
2-Nitroaniline	mg/kg	ND	ND		30	
2-Nitrophenol	mg/kg	ND	ND		30	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	ND		30	
3,3'-Dichlorobenzidine	mg/kg	ND	ND		30	
3-Nitroaniline	mg/kg	ND	ND		30	
4,6-Dinitro-2-methylphenol	mg/kg	ND	ND		30	
4-Bromophenylphenyl ether	mg/kg	ND	ND		30	
4-Chloro-3-methylphenol	mg/kg	ND	ND		30	
4-Chloroaniline	mg/kg	ND	ND		30	
4-Chlorophenylphenyl ether	mg/kg	ND	ND		30	
4-Nitroaniline	mg/kg	ND	ND		30	
4-Nitrophenol	mg/kg	ND	ND		30	
Acenaphthene	mg/kg	ND	ND		30	
Acenaphthylene	mg/kg	ND	ND		30	
Aniline	mg/kg	ND	ND		30	
Anthracene	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

SAMPLE DUPLICATE: 2100682

Parameter	Units	92356334001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzo(a)anthracene	mg/kg	ND	ND		30	
Benzo(a)pyrene	mg/kg	ND	ND		30	
Benzo(b)fluoranthene	mg/kg	ND	ND		30	
Benzo(g,h,i)perylene	mg/kg	ND	ND		30	
Benzo(k)fluoranthene	mg/kg	ND	ND		30	
Benzoic Acid	mg/kg	ND	ND		30	
Benzyl alcohol	mg/kg	ND	ND		30	
bis(2-Chloroethoxy)methane	mg/kg	ND	ND		30	
bis(2-Chloroethyl) ether	mg/kg	ND	ND		30	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	ND		30	
Butylbenzylphthalate	mg/kg	ND	ND		30	
Chrysene	mg/kg	ND	ND		30	
Di-n-butylphthalate	mg/kg	ND	ND		30	
Di-n-octylphthalate	mg/kg	ND	ND		30	
Dibenz(a,h)anthracene	mg/kg	ND	ND		30	
Dibenzofuran	mg/kg	ND	ND		30	
Diethylphthalate	mg/kg	ND	ND		30	
Dimethylphthalate	mg/kg	ND	ND		30	
Fluoranthene	mg/kg	ND	ND		30	
Fluorene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Hexachlorobenzene	mg/kg	ND	ND		30	
Hexachlorocyclopentadiene	mg/kg	ND	ND		30	
Hexachloroethane	mg/kg	ND	ND		30	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND		30	
Isophorone	mg/kg	ND	ND		30	
N-Nitroso-di-n-propylamine	mg/kg	ND	ND		30	
N-Nitrosodimethylamine	mg/kg	ND	ND		30	
N-Nitrosodiphenylamine	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
Nitrobenzene	mg/kg	ND	ND		30	
Pentachlorophenol	mg/kg	ND	ND		30	
Phenanthrene	mg/kg	ND	ND		30	
Phenol	mg/kg	ND	ND		30	
Pyrene	mg/kg	ND	ND		30	
2,4,6-Tribromophenol (S)	%	59	66	10		
2-Fluorobiphenyl (S)	%	13	41	103		
2-Fluorophenol (S)	%	17	44	88		
Nitrobenzene-d5 (S)	%	18	50	95		
Phenol-d6 (S)	%	17	49	95		
Terphenyl-d14 (S)	%	66	64	4		

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1
Pace Project No.: 92356367

QC Batch: 379047 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil
Associated Lab Samples: 92356367001, 92356367002, 92356367003, 92356367004, 92356367005, 92356367006, 92356367007, 92356367008

METHOD BLANK: 2100693 Matrix: Solid
Associated Lab Samples: 92356367001, 92356367002, 92356367003, 92356367004, 92356367005, 92356367006, 92356367007, 92356367008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.0	10.0	09/25/17 12:33	N2
Aliphatic (C19-C36)	mg/kg	ND	10.0	10.0	09/25/17 12:33	N2
Aromatic (C11-C22)	mg/kg	ND	10.0	10.0	09/25/17 12:33	N2
2-Bromonaphthalene (S)	%	71	40-140		09/25/17 12:33	
2-Fluorobiphenyl (S)	%	70	40-140		09/25/17 12:33	
Nonatriacontane (S)	%	49	40-140		09/25/17 12:33	
o-Terphenyl (S)	%	41	40-140		09/25/17 12:33	

LABORATORY CONTROL SAMPLE & LCSD: 2100694

Parameter	Units	2100695							RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits				
Aliphatic (C09-C18)	mg/kg	10	ND	ND	68	69	40-140		50	N2	
Aliphatic (C19-C36)	mg/kg	13.3	10.6	10.5	79	79	40-140	1	50	N2	
Aromatic (C11-C22)	mg/kg	28.3	22.0	21.6	78	76	40-140	2	50	N2	
2-Bromonaphthalene (S)	%				93	88	40-140				
2-Fluorobiphenyl (S)	%				94	89	40-140				
Nonatriacontane (S)	%				41	56	40-140				
o-Terphenyl (S)	%				84	84	40-140				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379629 Analysis Method: MADEP EPH
 QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil
 Associated Lab Samples: 92356367009, 92356367010

METHOD BLANK: 2103818 Matrix: Solid

Associated Lab Samples: 92356367009, 92356367010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.0	10.0	09/28/17 14:03	N2
Aliphatic (C19-C36)	mg/kg	ND	10.0	10.0	09/28/17 14:03	N2
Aromatic (C11-C22)	mg/kg	ND	10.0	10.0	09/28/17 14:03	N2
2-Bromonaphthalene (S)	%	88	40-140		09/28/17 14:03	
2-Fluorobiphenyl (S)	%	88	40-140		09/28/17 14:03	
Nonatriacontane (S)	%	45	40-140		09/28/17 14:03	
o-Terphenyl (S)	%	63	40-140		09/28/17 14:03	

LABORATORY CONTROL SAMPLE & LCSD: 2103819 2103820

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	mg/kg	10	ND	ND	60	65	40-140		50	N2
Aliphatic (C19-C36)	mg/kg	13.3	ND	ND	69	74	40-140		50	N2
Aromatic (C11-C22)	mg/kg	28.3	20.7	23.8	73	84	40-140	14	50	N2
2-Bromonaphthalene (S)	%				80	94	40-140			
2-Fluorobiphenyl (S)	%				90	101	40-140			
Nonatriacontane (S)	%				63	71	40-140			
o-Terphenyl (S)	%				77	92	40-140			

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 380369	Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH	Analysis Description: MADEP EPH NC Soil
Associated Lab Samples: 92356367011	

METHOD BLANK: 2107765 Matrix: Solid

Associated Lab Samples: 92356367011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.0	10.0	10/02/17 13:37	N2
Aliphatic (C19-C36)	mg/kg	ND	10.0	10.0	10/02/17 13:37	N2
Aromatic (C11-C22)	mg/kg	ND	10.0	10.0	10/02/17 13:37	N2
2-Bromonaphthalene (S)	%	85	40-140		10/02/17 13:37	
2-Fluorobiphenyl (S)	%	83	40-140		10/02/17 13:37	
Nonatriacontane (S)	%	47	40-140		10/02/17 13:37	
o-Terphenyl (S)	%	57	40-140		10/02/17 13:37	

LABORATORY CONTROL SAMPLE & LCSD: 2107766

2107767

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	mg/kg	10	ND	ND	57	51	40-140		50	N2
Aliphatic (C19-C36)	mg/kg	13.3	ND	ND	50	47	40-140		50	N2
Aromatic (C11-C22)	mg/kg	28.3	20.7	18.9	73	67	40-140	9	50	N2
2-Bromonaphthalene (S)	%				71	69	40-140			
2-Fluorobiphenyl (S)	%				91	89	40-140			
Nonatriacontane (S)	%				57	56	40-140			
o-Terphenyl (S)	%				91	81	40-140			

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379198	Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH	Analysis Description: MADEP EPH NC Water
Associated Lab Samples: 92356367012	

METHOD BLANK: 2101354 Matrix: Water

Associated Lab Samples: 92356367012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C09-C18)	ug/L	ND	100	100	09/25/17 23:30	N2
Aliphatic (C19-C36)	ug/L	ND	100	100	09/25/17 23:30	N2
Aromatic (C11-C22)	ug/L	ND	100	100	09/25/17 23:30	N2
2-Bromonaphthalene (S)	%	95	40-140		09/25/17 23:30	
2-Fluorobiphenyl (S)	%	110	40-140		09/25/17 23:30	
Nonatriacontane (S)	%	68	40-140		09/25/17 23:30	
o-Terphenyl (S)	%	78	40-140		09/25/17 23:30	

LABORATORY CONTROL SAMPLE & LCSD: 2101355

2101356

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	ug/L	300	164	221	55	74	40-140	29	50	N2
Aliphatic (C19-C36)	ug/L	400	248	330	62	83	40-140	28	50	N2
Aromatic (C11-C22)	ug/L	850	620	657	73	77	40-140	6	50	N2
2-Bromonaphthalene (S)	%				77	67	40-140			
2-Fluorobiphenyl (S)	%				95	93	40-140			
Nonatriacontane (S)	%				60	82	40-140			
o-Terphenyl (S)	%				75	81	40-140			

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379008 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 92356367001, 92356367002, 92356367003, 92356367004, 92356367005, 92356367006, 92356367007

SAMPLE DUPLICATE: 2100460

Parameter	Units	92356319001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	85.8	85.3	1	25	

SAMPLE DUPLICATE: 2100461

Parameter	Units	92356283002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.3	5.7	7	25	

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QUALITY CONTROL DATA

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

QC Batch: 379017 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 92356367008, 92356367009, 92356367010, 92356367011

SAMPLE DUPLICATE: 2100529

Parameter	Units	92356367008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.0	25.4	6	25	

SAMPLE DUPLICATE: 2100530

Parameter	Units	92356375005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.8	10.5	3	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

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 adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
S0	Surrogate recovery outside laboratory control limits.
S1	Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92356367001	R5021-P004-SS1	MADEP EPH	379047	MADEP EPH	379274
92356367002	R5021-P004-SS2	MADEP EPH	379047	MADEP EPH	379274
92356367003	R5021-P004-SS3	MADEP EPH	379047	MADEP EPH	379274
92356367004	R5021-P004-SS4	MADEP EPH	379047	MADEP EPH	379274
92356367005	R5021-P004-SS5	MADEP EPH	379047	MADEP EPH	379274
92356367006	R5021-P004-SS6	MADEP EPH	379047	MADEP EPH	379274
92356367007	R5021-P004-SS7	MADEP EPH	379047	MADEP EPH	379274
92356367008	R5021-P004-SS8	MADEP EPH	379047	MADEP EPH	379274
92356367009	R5021-P004-SS9	MADEP EPH	379629	MADEP EPH	379941
92356367010	R5021-P004-SS10	MADEP EPH	379629	MADEP EPH	379941
92356367011	R5021-P004-Stockpile	MADEP EPH	380369	MADEP EPH	380476
92356367012	R5021-P004-TMW-1	MADEP EPH	379198	MADEP EPH	379276
92356367001	R5021-P004-SS1	MADEP VPH	379187	MADEP VPH	379418
92356367002	R5021-P004-SS2	MADEP VPH	379187	MADEP VPH	379418
92356367003	R5021-P004-SS3	MADEP VPH	379187	MADEP VPH	379418
92356367004	R5021-P004-SS4	MADEP VPH	379187	MADEP VPH	379418
92356367005	R5021-P004-SS5	MADEP VPH	379187	MADEP VPH	379418
92356367006	R5021-P004-SS6	MADEP VPH	379187	MADEP VPH	379418
92356367007	R5021-P004-SS7	MADEP VPH	379187	MADEP VPH	379418
92356367008	R5021-P004-SS8	MADEP VPH	379187	MADEP VPH	379418
92356367009	R5021-P004-SS9	MADEP VPH	379187	MADEP VPH	379418
92356367010	R5021-P004-SS10	MADEP VPH	379187	MADEP VPH	379418
92356367011	R5021-P004-Stockpile	MADEP VPH	379843	MADEP VPH	380093
92356367012	R5021-P004-TMW-1	MADEP VPH	379189		
92356367012	R5021-P004-TMW-1	EPA 625	379361	EPA 625	379677
92356367001	R5021-P004-SS1	EPA 3546	379044	EPA 8270	379211
92356367002	R5021-P004-SS2	EPA 3546	379044	EPA 8270	379211
92356367003	R5021-P004-SS3	EPA 3546	379044	EPA 8270	379211
92356367004	R5021-P004-SS4	EPA 3546	379044	EPA 8270	379211
92356367005	R5021-P004-SS5	EPA 3546	379044	EPA 8270	379211
92356367006	R5021-P004-SS6	EPA 3546	379044	EPA 8270	379211
92356367007	R5021-P004-SS7	EPA 3546	379044	EPA 8270	379211
92356367008	R5021-P004-SS8	EPA 3546	379044	EPA 8270	379211
92356367009	R5021-P004-SS9	EPA 3546	379044	EPA 8270	379211
92356367010	R5021-P004-SS10	EPA 3546	379044	EPA 8270	379211
92356367011	R5021-P004-Stockpile	EPA 3546	379044	EPA 8270	379211
92356367012	R5021-P004-TMW-1	SM 6200B	379638		
92356367001	R5021-P004-SS1	EPA 8260	379248		
92356367002	R5021-P004-SS2	EPA 8260	379413		
92356367003	R5021-P004-SS3	EPA 8260	379413		
92356367004	R5021-P004-SS4	EPA 8260	379413		
92356367005	R5021-P004-SS5	EPA 8260	379413		
92356367006	R5021-P004-SS6	EPA 8260	379614		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tip No. R5021 WBS: 41582.1.1

Pace Project No.: 92356367

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92356367007	R5021-P004-SS7	EPA 8260	379413		
92356367008	R5021-P004-SS8	EPA 8260	379835		
92356367009	R5021-P004-SS9	EPA 8260	379835		
92356367010	R5021-P004-SS10	EPA 8260	379835		
92356367011	R5021-P004-Stockpile	EPA 8260	379835		
92356367001	R5021-P004-SS1	ASTM D2974-87	379008		
92356367002	R5021-P004-SS2	ASTM D2974-87	379008		
92356367003	R5021-P004-SS3	ASTM D2974-87	379008		
92356367004	R5021-P004-SS4	ASTM D2974-87	379008		
92356367005	R5021-P004-SS5	ASTM D2974-87	379008		
92356367006	R5021-P004-SS6	ASTM D2974-87	379008		
92356367007	R5021-P004-SS7	ASTM D2974-87	379008		
92356367008	R5021-P004-SS8	ASTM D2974-87	379017		
92356367009	R5021-P004-SS9	ASTM D2974-87	379017		
92356367010	R5021-P004-SS10	ASTM D2974-87	379017		
92356367011	R5021-P004-Stockpile	ASTM D2974-87	379017		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name: Kleinfelder

Project # **WO# : 92356367**



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: LD 9.22.17

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: T1701 Type of Ice: Wet Blue None

Correction Factor: Cooler Temp Corrected (°C): 5.5

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.	Sample #2 received a total of 13 containers - Received an extra sample that is not on COC (see below)
-Includes Date/Time/ID/Analysis Matrix:			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Sample Discrepancy: Sample ID # S021-P17-SS8
9-19 (date)
16:10 (time)
2 WGFU

Lot ID of split containers: 6 VOA
3 V/GK

Project Manager SCURF Review: _____ Date: 9/25

Project Manager SRF Review: _____ Date: 9/25

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)

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project # **WO# : 92356367**

PM: AMB Due Date: 09/29/17
CLIENT: 92-NCDOT SE

**Bottom half of box is to list number of bottles

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
1	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	2	2	/	/	/	/	/	9	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: KleinFelder Report To: Mike Burns Invoice Information: Attention: Taylor Ezell

Section B Required Project Information: Address: 3200 Gaffney Centre Blvd Copy To: Chris Hollinger Company Name: REGULATORY AGENCY

Address: Seitz Job, Morrisville, NC Purchase Order No.: WAS 41582.1.1 Reference: 0444-1,-2

Email To: chris.hollinger@kleinfielder.com Project Name: Tip No. R502J Pace Project Manager: Taylor Ezell

Phone: 919 916 9073 Fax: 919 916 9073 Project Number: WAS 41582.1.1 Pace Profile #: 0444-1,-2

Requested Due Date/FAT: 9/21/17 Site Location STATE: NC

Section D Required Client Information: Matrix Codes: Drinking Water, Water, Waste Water, Product, Soil/Solid, Oil, Wipe, Air, Tissue, Other

SAMPLE ID (A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

ITEM #	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	RSD21-P004-SS1	SL G	9/19	14:30	9/19	14:30		4	2									X		001
2	RSD21-P004-SS2	SL G	9/19	14:30	9/19	14:30		1										X		002
3	RSD21-P004-SS3	SL G	9/19	15:20	9/19	15:20		1										X		003
4	RSD21-P004-SS4	SL G	9/19	15:25	9/19	15:25		1										X		004
5	RSD21-P004-SS5	SL G	9/19	15:40	9/19	15:40		1										X		005
6	RSD21-P004-SS6	SL G	9/19	15:45	9/19	15:45		1										X		006
7	RSD21-P004-SS7	SL G	9/19	16:00	9/19	16:00		1										X		007
8	RSD21-P004-SS8	SL G	9/20	12:10	9/20	12:10		1										X		008
9	RSD21-P004-SS9	SL G	9/20	16:30	9/20	16:30		1										X		009
10	RSD21-P004-SS10	SL G	9/19	15:10	9/19	15:10		1										X		010
11	RSD21-P004-SS11	SL G	9/19	12:00	9/19	12:00		1										X		011
12	RSD21-P004-TMW-1	SL G	9/21	08:30	9/21	08:30		1										X		012

Section C Required Project Information: Relinquished by / Affiliation: Joseph C. Hollinger DATE: 9/22/17 ACCEPTED BY / AFFILIATION: Michael Hill DATE: 9/22/17

Signature: Joseph C. Hollinger DATE: 9/21/17

Signature: Michael Hill DATE: 9/21/17

Temp in °C: 55

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): N

Samples Intact (Y/N): Y

Section A Required Client Information: Company: KleinFelder Report To: Mike Burns Invoice Information: Attention: Taylor Ezell

Section B Required Project Information: Address: 3200 Gaffney Centre Blvd Copy To: Chris Hollinger Company Name: REGULATORY AGENCY

Address: Seitz Job, Morrisville, NC Purchase Order No.: WAS 41582.1.1 Reference: 0444-1,-2

Email To: chris.hollinger@kleinfielder.com Project Name: Tip No. R502J Pace Project Manager: Taylor Ezell

Phone: 919 916 9073 Fax: 919 916 9073 Project Number: WAS 41582.1.1 Pace Profile #: 0444-1,-2

Requested Due Date/FAT: 9/21/17 Site Location STATE: NC

Section D Required Client Information: Matrix Codes: Drinking Water, Water, Waste Water, Product, Soil/Solid, Oil, Wipe, Air, Tissue, Other

SAMPLE ID (A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

ITEM #	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	RSD21-P004-SS1	SL G	9/19	14:30	9/19	14:30		4	2									X		001
2	RSD21-P004-SS2	SL G	9/19	14:30	9/19	14:30		1										X		002
3	RSD21-P004-SS3	SL G	9/19	15:20	9/19	15:20		1										X		003
4	RSD21-P004-SS4	SL G	9/19	15:25	9/19	15:25		1										X		004
5	RSD21-P004-SS5	SL G	9/19	15:40	9/19	15:40		1										X		005
6	RSD21-P004-SS6	SL G	9/19	15:45	9/19	15:45		1										X		006
7	RSD21-P004-SS7	SL G	9/19	16:00	9/19	16:00		1										X		007
8	RSD21-P004-SS8	SL G	9/20	12:10	9/20	12:10		1										X		008
9	RSD21-P004-SS9	SL G	9/20	16:30	9/20	16:30		1										X		009
10	RSD21-P004-SS10	SL G	9/19	15:10	9/19	15:10		1										X		010
11	RSD21-P004-SS11	SL G	9/19	12:00	9/19	12:00		1										X		011
12	RSD21-P004-TMW-1	SL G	9/21	08:30	9/21	08:30		1										X		012

Section C Required Project Information: Relinquished by / Affiliation: Joseph C. Hollinger DATE: 9/22/17 ACCEPTED BY / AFFILIATION: Michael Hill DATE: 9/22/17

Signature: Joseph C. Hollinger DATE: 9/21/17

Signature: Michael Hill DATE: 9/21/17

Temp in °C: 55

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): N

Samples Intact (Y/N): Y