UNDERGROUND STORAGE TANK CLOSURE REPORT

Walter Williams Property - Parcel 98 (including Parcels 99 & 101) 210 West 10th Street

210 West 10th Street Greenville, Pitt County, North Carolina ATC Project No. 45.19873.0007 NCDOT Project U-3315 WBS Element 35781.1.2



2725 East Millbrook Road Suite 121 Raleigh, NC 27604 Tel: 919-871-0999 Fax: 919-871-0335 www.atcassociates.com N.C. Engineering License No. C-1598

January 5, 2015

Mr. Gordon Box NC Department of Transportation GeoEnvironmental Section 1589 Mail Service Center Raleigh, North Carolina, 27699-1589

Re: UST CLOSURE Walter Williams Property - Parcel 98 (including Parcels 99 & 101) 210 West 10th Street Greenville, Pitt County, North Carolina State Project: U-3315 WBS Element: 35781.1.2 ATC Project No. 45.19873.0007

Dear Mr. Box:

ATC Associates of North Carolina, P.C., on behalf of NCDOT, is submitting this UST Closure Report for NCDOT Project U-3315, WBS Element 35781.1.2 located on 210 West 10th Street in Greenville, Pitt County, North Carolina. The report documents a UST closure at the site.

If you have any questions or require additional information, please contact our office at (919) 871-0999.

Sincerely,

ATC Associates of North Carolina, P.C.

& arrett Stancel

Garrett Stancil Staff Scientist

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Jeffrey A. Corson Senior Project Manager

cc: Terry Farr

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Mr. Gordon Box . . UST Closure Report - U-3315

I. SITE INFORMATION

Date of Report: 1/5/2015
Facility I.D.: N/A
UST Incident Number (if known): 38393 (Parcel 98)
Site Name: NCDOT U-3315 WBS Element 35781.1.2 Parcel 98 (including Parcels 99 & 101)
Site Location: 210 West 10 th Street
Nearest City/Town: Greenville County: Pitt
Description of Geographical Data Point (eg, diesel fill port): Multiple
Location Method (GPS, Topographical map, other): GPS
Latitude (decimal degrees): 35.606685 Longitude (decimal degrees): -77.376241
Contact Information Associated with the UST System
UST Owner: Abandoned in NCDOT Right of Way
Address: 1589 Mail Service Center Raleigh, NC 27699-1589 Phone: 919-707-6850
UST Operator: <u>N/A</u>
Address:Phone:
Property Owner: NCDOT
Address: 1589 Mail Service Center Raleigh, NC 27699-1589 Phone: 919-707-6850
Property Occupant: N/A
Address:Phone:
Consultant/Contractor: ATC Associates of North Carolina, P.C.
Address: 2725 E. Millbrook Road, Raleigh, NC 27604 Phone: 919-871-0999
Analytical Laboratory: Pace Analytical Services, Inc.
Address: 9800 Kincey Avenue, Suite 100 Huntersville, NC 28078 Phone: 704-875-9092
Release Information
Date Discovered: N/A

Estimated Quantity of Release: N/A

Cause of Release: N/A

Source of Release (Piping/UST): N/A

Sizes and contents of UST system(s) from which the release occurred: N/A

Certification

Kurt Ness a Professional Geologist for ATC Associates of North Carolina, P.C., do Ι,__ certify that the information contained in this report is correct and accurate to the best of my knowledge. (Affix Seal and Signature)

ATC Associates of North Carolina, P.C. is licensed to practice geology/engineering pcircle one or both) in North Carolina. The certification number of the company or corporation is <u>C-1598.</u>

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1	ATC Project No. 45.19873.0007 January 5, 2015

UST Closure Report NCDOT U-3315

II. INTRODUCTION

ATC Associates of North Carolina, P.C. (ATC) was retained by NCDOT to supervise the closure of multiple underground storage tanks (USTs) at 210 West 10th Street in Greenville, Pitt County, North Carolina from September 15 to September 18, 2014 and from September 29 to October 3, 2014. The site location is shown on a topographic map in *Figure 1*.

The scope of services provided by ATC included the following:

- Supervision of search and excavation of possible UST locations
- Supervision of the removal of two USTs
- Soil sampling and analyses
- Report preparation

This UST Closure Report presents a summary of field activities and observations and provides documentation of UST disposal and soil analytical results. As required by North Carolina Department of Environment and Natural Resources (NCDENR) guidelines, this UST closure report follows the GW/UST-12 format.

A. Site History

GPS coordinates of anomalies identified as possible or known USTs were obtained from a previous consultant for Parcel 98 (including Parcels 99 & 101). On September 10, 2014 ATC contracted Stantec to conduct a utility locate and explore and mark out the coordinates of the previous anomalies identified as possible or known USTs using Ground Penetrating Radar (GPR) and Electromagnetic Equipment (EM).

On September 16, 2014 ATC contracted A&D Environmental Services, Inc. (A&D) to perform search, excavation and removal activities for suspected USTs. ATC supervised A&D in the search and excavation of Parcel 98 (including Parcels 99 & 101).

Four different possible UST locations were explored on Parcel 98. During initial exploration activities, a Sheriff Deputy from the Sheriff's office on the adjacent property informed ATC that tanks had been removed from these locations approximately 6 months prior. The information was noted and ATC proceeded to verify the existence of the USTs at the other possible locations. Each anomaly identified as a possible UST marked out by Stantec was explored using a backhoe, excavating an area approximately 8 feet wide by 8 feet long by 8 feet deep. Most of the soil

appeared to be backfill and no USTs were discovered. ATC collected pictures and backfilled the excavation locations.

One suspected UST location was explored on Parcel 99. This suspected UST location was approximately 5 feet from a marked water utility line and adjacent to the existing roadway (10th Ave.). The anomaly identified as a possible UST marked out by Stantec was explored using a backhoe, excavating an area approximately 6 feet wide by 6 feet long by 6 feet deep. The water line was encountered without disturbance, though no UST was located. ATC collected pictures and backfilled the excavation location. After further discussion with NCDOT, the decision was made to perform a lane closure and explore further into the adjacent lane of 10th avenue. This was conducted on October 6, 2014. A&D excavated an area under the existing roadway approximately 4 feet wide by 8 feet long by 8 feet deep, however no UST was located. ATC collected pictures and backfilled the excavation location with confirmation on compaction from NCDOT onsite personnel.

Three suspected UST locations were identified on Parcel 101. These suspected USTs were not in the original scope of work but after discussion with NCDOT, the decision was made to proceed with location and removal of these USTs. The USTs had previously been abandoned in place and filled with concrete. On September 29, 2014 through October 3, 2014 ATC supervised A&D during the excavation of the three USTs on Parcel 101. This report documents the removal and closure assessment of the USTs.

III. GENERAL INFORMATION

A. UST Information

UST #	Installation Date	Size in Gallons	Tank Dimensions	Last Contents	Previous Contents (if any)
1 (101)	Unknown	5,000	6' x 20'	Unknown	Unknown
2 (101)	Unknown	5,000	6' x 20'	Unknown	Unknown
3 (101)	Unknown	6,000	6' x 30'	Unknown	Unknown

Table 1

B. Site Characteristics

1. Describe any past releases at this site:

According to a Notice of Regulatory Requirements letter from NCDENR dated March 12, 2014 a release was confirmed on Parcel 98 under incident number 38393.

2. Is the facility active or inactive at this time? If the facility is inactive, note the last time the UST(s) were in operation:

Parcel 98 (including Parcels 99 & 101) is inactive and currently vacant. The last time these USTs were in operation is unknown.

- 3. Describe surrounding property use (for example, residential, commercial, farming, etc.): Parcel 98 (including Parcels 99 & 101) is surrounded by commercial property to the north, commercial property to the west, W. 10th Street to the south and S. Washington Street to the east, which includes residential and retail commercial properties.
- 4. Describe site geology/hydrogeology:

The site lies within the coastal plain of North Carolina and is underlain by the Yorktown formation, which generally consists of fossiliferous clays and sands. The site lies in the Tar-Pamlico river basin.

During UST closure activities, the subsurface soils encountered consisted of light brown/orange, sandy clay. Groundwater was encountered at approximately 12 feet below ground surface during excavation activities.

5. Describe results of receptor survey:

ATC did not perform a receptor survey and there is no known completed survey.

IV. CLOSURE PROCEDURES

A. Preparations for Closure

In preparation of UST closure activities, ATC completed a Notice of Intent: UST Permanent Closure or Change-in-Service Form (GW/UST-3). A copy of the GW/UST-3 form is included in *Appendix A*. UST Information is included in *Table 1*.

ATC contacted the North Carolina One Call Center (ULOCO), as well as Stantec to mark underground utilities at the sites prior to tank closure activities. The Fire Marshall for the

City of Greenville was also notified by the tank removal subcontractor, A&D, prior to removal activities.

B. Amount of Residual Material

Approximately 87.27 tons of residual concrete debris was removed from the USTs on Parcel 101 and stockpiled pending removal on October 16, 2014. Approximately 40.74 tons of residual impacted soil was removed from the tank pit in order to remove the USTs on Parcel 101 and stockpiled pending removal on September 30, 2014 and October 1, 2014.

C. Storage, Sampling, and Disposal of Residual Material

Residual concrete debris and soil was stockpiled on top of a plastic barrier and covered with plastic. Bails of straw were also used around the perimeter of the stockpile to create a barrier. Residual concrete debris and soil removed from the USTs and tank pit was disposed of by A&D. Copies of the waste disposal manifests are included in *Appendix B*.

D. Excavation

1. Describe excavation procedures noting the condition of the soil encountered and the dimensions of the excavation in relation to the tanks, piping, and/or pumps:

On October 2, 2014, two 5,000-gallon USTs and one 6,000-gallon UST that were positioned side by side were removed from Parcel 101. The UST pit was excavated approximately 30 feet by 30 feet by 12 feet deep, just large enough to remove the tanks. Groundwater was encountered at approximately 12 feet bgs. Impacted soils excavated in order to remove the USTs were stockpiled and disposed of by A&D. Impacted soils from beneath the tanks were not excavated per direction of NCDOT Request for Proposal because clean closure did not appear possible.

2. Note the depth of tank burial(s) (from land surface to top of tank):

The top of the USTs were buried to a depth of approximately four (4) feet bgs. The bottom of the tanks rested at approximately eight (10) feet bgs.

3. Note volume of soil excavated:

Approximately 40.74 tons of impacted soils were excavated in order to remove the USTs. Impacted soil beneath the tanks was retained in the tank pit per direction of NCDOT.

4. Describe soil type(s) encountered:

Soils encountered during excavation at the site consisted of light brown/ orange, sandy clays.

5. Describe type and source of backfill used:

Following the removal of the USTs, A&D backfilled the tank pits with clean soil consisting of brown silty sand.

6. Describe condition of UST system(s) (i.e., pitting, holes, etc.):

Upon removal of the tanks, the tanks were visually inspected and appeared to be in fair condition. Soils underneath the tanks appeared to be impacted.

E. Contaminated Soil

1. Describe how it was determined to what extent to excavate the soil:

Soil was excavated to the extent necessary to remove the USTs and no other soil was excavated per direction of NCDOT.

2. Describe method of temporary storage, sampling, and treatment/disposal of soil:

Residual soil was stockpiled on top of a plastic barrier and covered with plastic. Bails of straw were also used around the perimeter of the stockpile to create a barrier. Soil was transported off-site for disposal by A&D and clean material provided by A&D was used to backfill the tank pit.

V. SITE INVESTIGATION

A. Field Screening

Following the removal of the USTs, soil samples were collected beneath the tanks for field screening by use of a PID. Sampling intervals were consistent with the Guidelines for Site Checks, Tank Closures, and Initial Response and Abatement for UST Releases (NCDENR, 2008). The highest PID field screening results was recorded from tank pit sample T1A-101 at 2107 parts per million (ppm).

B. Soil Sampling

On October 2, 2014 soil closure samples were collected from a total of nine locations in the tank pits following the UST removal activities. Three samples were collected beneath each tank on Parcel 101 (T1A-101 through T3C-101). The samples were submitted for Total

Petroleum Hydrocarbons– Gasoline Range Organics (TPH-GRO, EPA Method 8015-5030) and Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-DRO, EPA Method 8015-5030. The results of the laboratory analyses indicated concentrations of TPH-DRO above the NCDENR Action Level of 10 parts per million (ppm) in soil sample T1A-101, T1B-101 and T2A-101. The highest concentration of TPH-DRO was detected in sample T1A-101 at 79.8 mg/kg. Laboratory analyses also indicated concentrations of TPH-GRO above the NCDENR Action Level of 10 parts per million (ppm) in soil sample T1B-101. The highest concentration of TPH-GRO was detected in sample T1B-101. The highest concentration of TPH-GRO was detected in sample T1B-101. The highest concentration of TPH-GRO was detected in sample T1B-101 at 15.1 mg/kg. UST soil sample analytical results and locations are included in *Table 2* and *Figure 2*, respectively. The laboratory analytical report is provided in *Appendix C*. No piping associated with the UST system was encountered and samples were not collected.

C. Quality Control Measures

Laboratory samples were placed in laboratory supplied containers and shipped in an ice-filled cooler to Pace Analytical Laboratories (Pace) in Huntersville, North Carolina under chain of custody procedure. Pace is approved by the State of North Carolina under Certification No. 5342.

D. Investigation Results

The applicable action levels for the following compounds were exceeded:

- DRO: T1A-101, T1B-101, T2A-101
- GRO: T1B-101

VI. CONCLUSIONS

ATC supervised the removal of three USTs on Parcel 101 on NCDOT Project U-3315 located in Greenville, North Carolina on September 29, 2014 through October 3, 2014. Based on field activities, observations, and soil analytical results, tank pit samples exceeded the NCDENR Action Levels for TPH-DRO and TPH-GRO. Impacted soil beneath the tanks was not excavated per direction of NCDOT. If impacted soil or groundwater is encountered during construction activities, appropriate measures should be taken to ensure worker safety. In addition, any impacted soil or groundwater disturbed during construction should be handled and disposed of in accordance with applicable regulations. ATC appreciates the opportunity to assist the NCDOT with this project. If you have questions or require additional information, please do not hesitate to contact us at (919) 871-0999.

TABLES

TABLE 1

OWNER/OPERATOR AND UST SYSTEM INFORMATION

Walter Williams Property - Parcel 101 210 West 10th Street Greenville, Pitt County, North Carolina ATC Project No. 45.19873.0007 NCDOT Project U-3315

UST ID Number	Current/Last Product	Previous Contents		Tank Construction Details	Piping Construction Details	Date Installed - Tank-	Date Installed - Piping-	Status of UST/s	Was Release Associated With UST System? (Yes / No)
1 (101)	Unknown	Unknown	5,000	Steel	NA	Unknown	NA	Permanently removed 10/2/14	Yes
2 (101)	Unknown	Unknown	5,000	Steel	NA	Unknown	NA	Permanently removed 10/2/14	Yes
3 (101)	Unknown	Unknown	6,000	Steel	NA	Unknown	NA	Permanently removed 10/2/14	Yes

UST ID Number	Facility ID	Dates of Op	peration	Owner Information	(Name/Address/Phone)
		Unkr	nown	NCDOT: 1589 Mail	Service Center Raleigh, NC 27699-1589
Operator Inform	ation			Other Responsible	Party Information
NA					NA
Incident No/s	Date/s of Release	e or Discover	Material/s	Released	Description of Release/s
	NA		NA		NA

TABLE 2

UST CLOSURE SOIL ANALYTICAL DATA

Walter Williams Property - Parcel 101 204 West 10th Street Greenville, Pitt County, North Carolina ATC Project No. 45.19873.0007 NCDOT Project U-3315

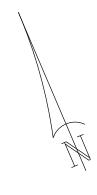
	EPA M	lethod:		5030/8015	3550/8015
Sample I.D.	Depth (feet)	Sampling Date	PID Reading (ppm)	TPH-GRO	TPH-DRO
T1A-101	NA	10/2/2014	2107	<8.7	79.8
T1B-101	NA	10/2/2014	1756	15.1	55.5
T1C-101	NA	10/2/2014	1842	9.1	<7.2
T2A-101	NA	10/2/2014	1671	<9.3	79.4
T2B-101	NA	10/2/2014	1613	<8.2	<7.7
T2C-101	NA	10/2/2014	1955	<8.1	<7.8
T3A-101	NA	10/2/2014	2004	<7.8	<7.4
T3B-101	NA	10/2/2014	1583	<7.1	<7.4
T3C-101	NA	10/2/2014	1490	<7.6	<7.5
	NCDENR A	ction Level		10	10
	Soil-to-Ground	dwater MSCC			
	Residenti	al MSCC			
]	ndustrial/Com	mercial MSC	С		

Notes:

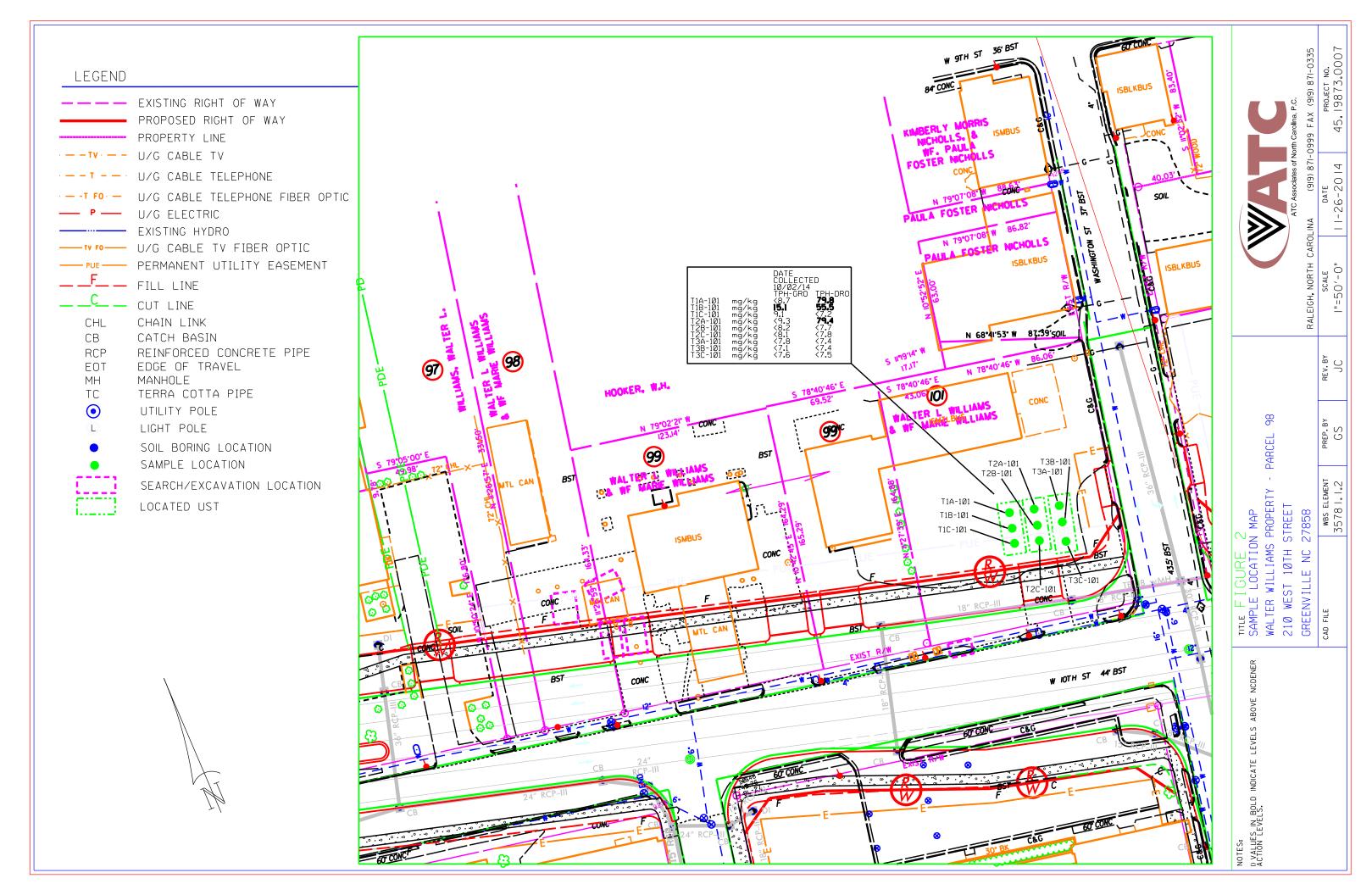
- 1. TPH = Total petroleum hydrocarbons.
- 2. GRO = Gasoline range organics.
- 3. DRO = Diesel range organics.
- 4. Concentrations reported in milligrams per kilogram (mg/kg).
- 5. "<" = not detected at or above the laboratory detection limit.
- 6. MSCC = Maximum Soil Contaminant Concentration Levels.
- 7. NE = Not established.
- 8. MTBE = Methyl tertiary butyl ether.
- 9. Values in **BOLD** indicate levels above Soil-to-Groundwater MSCCs and/or the NCDENR Action Level.
- 10. # = Health based level > 100%.

FIGURES

LEGEND		
F 	EXISTING RIGHT OF WAY PROPOSED RIGHT OF WAY PROPERTY LINE J/G CABLE TELEPHONE J/G CABLE TELEPHONE FIBER OPTIC U/G ELECTRIC EXISTING HYDRO J/G CABLE TV FIBER OPTIC PERMANENT UTILITY EASEMENT FILL LINE CUT LINE CUT LINE CUT LINE CUT LINK CATCH BASIN REINFORCED CONCRETE PIPE EDGE OF TRAVEL MANHOLE TERRA COTTA PIPE UTILITY POLE LIGHT POLE SOIL BORING LOCATION TEMPORARY WELL LOCATION SEARCH/EXCAVATION LOCATION LOCATED UST	







APPENDIX A

FORM GW/UST-3

the status of the t		e area where the facility is locate o "PERMANENTLY CLOSED" a				at I.D. #
SEE MAP ON TH	E BACK OF THIS FO	RM FOR THE CENTRAL AND F	EGIONAL OFFICE AD	DRESSES	B	Date Received
	ander anderen der einen der ein Rechtlichen der eine der einen d	INSTRUCTIO	NS (READ THIS FIF	RST)		an ing mulanta mulagan yang manang mula yang dari kumunan na sang mulang mulang mulang yang dari kumunan na sang mulang mulang mulang mulang mulang mulang mulang mulang mulang mulang mulang
Complete and ret provides supervis days notice is ac	sion for closure or cha	days prior to closure or change ange-in-service site assessment	-in-service activities. If activities and signs ar	a Profession and seals al	onal Engineer (P.E. I closure reports th) or a Licensed Geologi nen at least a five (5) v
of Waste Manage Office in Raleigh	ement (DWM) Regiona so that the status of th	ervice site assessment reports, a al Office within thirty (30) days fo e tanks may be changed to perm	blowing closure activition anently closed and you	es. The U ar tank fee	ST-2 form should a account can be clo	ilso be submitted to the sed out.
		e assessments must be comple ained at www.wastenotnc.org.	ted in accordance with	the latest	version of the Gu	idelines for Tank Closu
You must make s taken for disposa disposed of illega	sure that USTs remove I. Usually, USTs are o ally in fields or other du	ed from your property are dispo cleaned and cut up for scrap me mpsites can leak petroleum proc up of any environmental damage	tal. This is dangerous lucts and sludge into th	work and r	nust be performed	by a qualified company
	I. OWNERSHIP				II. LOCATIO	N
	prporation, Individual, F CDOT Right of Way	Public Agency, or Other Entity)	Facility Name of Parcel 98 (NCE		у	
Street Address 1589 Mail Service			Facility ID # (If Unknown			
City Raleigh		County Wake	Street Address 210 W. 10 th Str			
State NC		Zip Code 27699	City Greenville		County Pitt	Zip Code 27834
Phone Number			Phone Number			
919-707-6850			707-6850	n na stati	no a gradati	
Name:	<u> </u>	Company Name:	Job Tit	le:	<u>an an a</u>	Phone Number:
Jeff Corson		ATC Associates		Manager		871-0999
 Plan entire c Conduct Site 	al fire marshal. closure event. e Soil Assessment. tanks or closing in plac	5. Provide a ski soil sampling 6. Submit a clo UST-12 (incl	osure report in the fo uding the form UST-2	nks and ormat of ?) within	a P.E. or assessment and seal of th not occurred,	L.G., with all closu reports bearing the s le P.E. or L.G. If a rele the supervision, sign or L.G. is not required.
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APPENDIX B

DISPOSAL MANIFESTS



Environmental Services, Inc.

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

TANK DISPOSAL MANIFEST

			UCNOT
1) Tank Owner/Authorize	ed Representative: Name		NCDOT 9 Mail Caracter Conter
	*		9 Mail Service Center
, "		<u> </u> Na1	eigh, NC 27604
2) Tank Owner/Authoriz	ad Daprosentatives Cont	Jeff Corson	
2) Tank Owner/Authoriz	Phon	e#: (919) 871-09	99
3) Description Of Tanks:			
Tank No.	Capacity	Previous Contents	Comments
1	5.000 gal	a set and and	with an and fill
<u> </u>	v	pello progados	WILL LUNGIDIETING
	6.000 g-1	perso produces	www.concractille
_3	5,000 gar	perio produces	hvere concrete Fille
	•	• /	
		· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	······································		······
4) Tank Owner/Authoriz	ed Representative Certifi	cation: The undersigned of	certifies that the above listed storage
anks have been remove	ed from the premises of the	e lank owner.	
Carroll Ch	mail The Arch	DOT) & aney M	in it talalu
		• •	
Printed/Typed Name	? — · · · · · · · · · · · · · · · · · · ·	Signature	Month/Day/Year
5) Transporter: The un	dersigned certifies that the	above listed storage tanks	have been transported to A&D
Environmental and Ir	dustrial Services, 2718 Uv	wharrie Road, Archdale, N.C	C. 27263.
Kichard	Joyce (Fi	hord Joure	10-2-14
Printed/Typed Name	?	Signature	Month/Day/Year
6) Disposed Contification	The made of the state of the		
	: The undersigned certifi accepted by the metal recy		orage tank(s) have been cut
into serap pieces and			
Recycling Facility: 💪	JE Kecycl	ling - Greenv	sille NC
		1	CT 10211
		1	
Michael	Hoveman	Milet	Spremon -2-14
Prinied/Typed Nam	forema~	Signalyre	Month/Day/Year

			Bi
	1. Generator's US EPA ID Number Manife	NON-HAZARDOUS WASTE MANIFES	т 1811428
	Not Annlicable 18	7/1428 1	erent)
	1020 Sirch Ridge Dr	+Ation Faleich, NC 276/0 6 Phone P(1) 6 Phone P(1) 6 Phone P(1) 7 Phone P(1) 7 Phone P(1) 7 Phone P(1) 7 Phone P(1) 7 Phone P(1) 7 Phone Ph	+ Transportation 211 West 10th 14
	4. Phone 9/9) 707-6859 7. Transporter #1 Company Name	6. Phone (9/9) 707 8. US EPA ID Number	2-6859 9. Transporter #1's Phone
	Evelyn Baysdan Trucking ing. 10. Transporter #2 Company Name		9/0-298-4634 12. Transporter #2's Phone
	13. Designated T/S/D Facility Name and Site Addre	ess	15. Facility's Phone
	13. Designated T/S/D Facility Name and Site Addre EASTCAVOLINA LAND 1922 Republican Ro	Fill pad	To. Facility's Phone
	Aulander, NC 16. Waste Shipping Name and Description	Not Applicable	(252)348-3322
		17. Republic Services Approval # and Exp. Date	e 18. Containers 19. Total 20. Unit Quantity Wt/Vol No. Type
TOR	* Concrete Yebris (Non-Hazardovs J	(did) (Exp. 10-10-15) 30261417037	01 DT 12 112 T
ENERATOR	b.	914) <u>3026/4/7037</u>	
0			
	С.		
	 21. Additional Descriptions for Materials Listed Abo AAD JOB # 72233 22. Special Handling Instructions and Additional Infe 	72	
	been properly described, classified and packaged, a	rtify that the above named material is not a hazardous waste as o and is in proper condition for transportation according to applicabl the Land Disposal Restrictions. I certify and warrant that the wast as defined by 40 CFR 261.	e regulations; AND if this waste is a treatment residue
,	Printéd/Typed Name	Signature	Month Day Year
TRANSPORTER	24. Transporter #1: Acknowledgement of Receipt a Printed/Typed Name	forely signature A Ctori	Month Day Year
TRANS	25. Transporter #2: Acknowledgement of Receipt of Printed/Typed Name	of Materials Signature	Month Day Year
CILITY	26. Discrepancy Indication Space	/	
S/D FACIL	27. Facility Owner or Operator: Certification of rec James Grand	ceipt of waste materials covered by this perifest (except as note	d In Item 19) 10-16-13
<u>?</u>	Printed/Typed Name Chriz Harley As Agent to	NLDOT Signature	Month Day Year 10 16 14
· 新聞 / 0	1/14	ORIGINAL - RETURN TO GENERATOR	RS-F15

SITE EAST CAROLINA ENV LAN AULANDER, NC 27805 25 CUSTOMER 000753 A&D ENVIRONMENTALAND IND FO BOX 484 PO# 23166 30261417037	DFILL	SITE TICKET 01 WEIGHMASTER DATEMINE INE TENICLE TEUCK REFERENCE BLUE BILL OF LADING	975510	CELL DATE/TIME OUT 10-16 CONTAINER 2014 CONTAINER 2014	9:52 am
SCALE IN GROSS WEIGHT SCALE OUT TARE WEIGHT	25,620 NET	T TONS WEIGHT	13.43 26,860	INBOUND	
0.00 YD TRACKING QTY 13.43 TN SW-CONST DEBRIS				JON STAX	
Indemnification. Generator agrees to indemnifi of NC, LLC, its subsidiaries, affiliates, employed all liabilities, claims, penalties, forfeitures, suits cost of defense, settlement and resonable atto death or injuries to any person damende in on the reverse side and that he or she has the authority to sig RS-F042UPR (07/12) 2/21	es, officer and directors fro a, and cost and expenses ir rney's fees, which may be any anneaty, contamination	om and against an ncident therto, inc incurred, as a res rghonadurana stomer.	ny and sluding sult of	nditions	NET AMOUNT TENDERED CHANGE CHECK#

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Plea	se print or type. NON-HAZA	RDOUS WASTE MANIFEST			13615	24	
-	1. Generator's US EPA ID Number Manifest Document Number						2302
	3. Generator's Name and Malling Address NCDOT 1020 Yirch Ridged PAleigh, NC 27610	rive S. Generating Location (if diffe NCROT Prop Parce 199	rent) 211	west	t 10th	Stre	et:
	4. Phone () (9/9) 707-6859	Greenville 6. Phone () (919)			FJ-9		
	7. Transporter #1 Company Name Couly Boy den Trucking EEB-54 10. Transporter #2 Company Name	8. US EPA ID Number	9. Trans	porter #1's	Phone 98-46.3	4	
	10. Transporter #2 Company Name	11. US EPA ID Number		sporter #2			
	13. Designated T/S/D Facility Name and Site Address EAST CARDINA LANDFILL 1922 Republican ROAD	14. US EPA ID Number	15. Facil	ity's Phone	ə		
	Aulander, NC 27805	NotApplicable	25	2-3	48-33	22	
	16. Waste Shipping Name and Description	17. Allied Waste Approval # and Exp. Date	18. Conta No.	ainers Type	19. Total Quantity	20. Uni Wt/	
N N N	· Concrete Debris (Non-Hazardous Jolid)	2 under			10.01	1-	
GENERATOR	(NON-HAZArdous Jolid)	30261417037	01	וע	15,24	1/0	NJ
-GEN							
	С.						
	d.	······································				· .	<u> </u>
	u.						
	21. Additional Descriptions for Materials Listed Above AAD Job # 72332	I	<u>I</u>	L	L		
	22. Special Handling Instructions and Additional Information						·
	,						
	23. GENERATOR'S CERTIFICATION: I certify the materials described on	this manifest are not subject to federal regulations for	reporting p	roper dispos	al of Hazardous Wa	ste.	
4	Printed/Typed Name	Signature			M	onth De	y Year
-	24. Transporter #1: Acknowledgement of Receipt of Materials						
ORT	Printed/Typed Name	Signature				onth De	iy Year
TRANSPORTER	25. Transporter #2: Acknowledgement of Receipt of Materials Printed/Typed Name	Signature			. M	lonth De	ay . Year
ТR	26. Discrepancy Indication Space	Gigitado				_	
Ľ.		- /					
T/S/D FACILITY	27. Facility Owner or Operator: Certification of receipt of waste mat	erials covered ov this opprest (except as note	ed in Item	19)			
T/S/D	Printed Name	Hsippenter All	<u> </u>			onth De	iy Year
	Chris Hadley As Agus for NEDOT	- Un ft f	<u> 1</u>		1	0 10	, 17
v o	0RIGINAL 1/12 9(4 - LY9	- RETURN TO GENERATOR					COM00003 RS-F15

E EAST CAROLINA ENV	LANDFILL 252-348-3322			CELL	
STOMER 000753 A&D ENVIRONMENTALAND IND PO BOX 484 PO# 23166 30261417037			2014 9:23 a	DATE/TIME OUT 10-16-2014 9: CONTAINER INVOIC	54 a
SCALE IN GROSS WEIG SCALE OUT TARE WEIG		IET TONS F WEIGHT	15.24 30,480	INBOUND	
OTX 0.00 YD TRACKING QTY 15.24 TN SW-CONST DEBRIS	PITT				
Indemnification. Generator agrees to inde of NC, LLC, its subsidiaries, affiliates, em all liabilities, claims, penalties, forfeitures cost of defense, settlement and resonabl death or injuries to any person death or injuries to any person undersigned individual signing the uccutant on the reverse side and that he or she has the authorit	ployees, officer and directors f , suits, and cost and expenses e attorney's fees, which may b Ista any Disport Koonigminatio	rom and agains incident therto, e incurred, as a วด ฐก <i>อ</i> กุล งผู กรุล	t any and including result of	TEN nd conditions CH	AMOUN IDEREC IANGE IECK#

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Second		The second s	RDOUS WASTE MANIFES	т 181:	L429 🎆
	-	1. Generator's US EPA ID Number Manifest Document Number NOT AppliCAble 1811429		p. 30 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0	
	ſ	3. Generator's Name and Mailing Address NC Dept. of Transportatic	5. Generating Location (if di	Forenti) FOF Transport,	rtion
		1020 Girch Ridge Dr. PAle, 4. Phone 9/9 707-65-59 25	10 Parcel 610 Greenvi	Fof Transport, 99 211 West, 11e, NC	10th St
		4. Phone 9/9 707-6859 207 7. Transporter #1 Company Name	6. Phone (9/9 707 8. US EPA ID Number	9. Transporter #1's Phone	
		10. Transporter #2 Company Name	11. US EPA ID Number	12. Transporter #2's Phone	
		13. Designated T/S/D Facility Name and Site Address	14. US EPA ID Number	15. Facility's Phone	
		EAST CAVOLINA LANDFILL 1922 Pepublican Road			
	ŀ	Aulander, NC 16. Waste Shipping Name and Description	Not Applicable	(252)348-	3322
			17. Republic Services Approval # and Exp. Da	te 18. Containers 19. Total Quantity No. Type	20. Unit Wt/Vol
	ž	* Concrete Debris (Non-Hazardous Solid)	(Exp. 10-10-15)	01DT J.C	
		(<u>NON-HAZArdous Jolid)</u>	3026/4/7037	0191 11.18	
	5				
		C.			
	ŀ	21. Additional Descriptions for Materials Listed Above			
		A4) Job # 72332			
		22. Special Handling Instructions and Additional Information			
	•	23. GENERATOR'S CERTIFICATION: I hereby certify that the above na been properly described, classified and packaged, and is in proper cond of a provingsty restricted bazardous water subject to the London Discover J.	Ition for transportation according to applicat	le requisione: AND if this waste is a t	
	L	of a previously restricted hazardous waste subject to the Land Disposal R of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CF	-R 261.	te has been treated in accordance with	the requirements
Ļ		Printed Dyped Name Bill Bayscan 24. Transporter #1: Ackhowledgement of Receipt of Materials	Signature	Ma	onth Day Year
TRANSPORTER		Printed/Typed Name	Signature	I ^{Ma}	onth Day Year
ANSP		25. Transporter #2: Acknowledgement of Receipt of Materials Printed/Typed Name			
L TR		26. Discrepancy Indication Space	Signature	^{Mc}	onth Day Year
			_ /		
FACILITY	2	27. Facility Owner or Operator: Certification of receipt waste materi	als covered to this manifest (except as not		
T/S/D	F	Printee Nyped Name	Signature/	, Mo	nth , Day , Year
		Chris Hanley As Agent by NCDOT	I'len Hy		
REV (》。)))		RETURN TO GENERATOR		PC.515

EAST CAROLINA ENV LA	NDFILL 252-348-3322	SITE TIC 01 WEIGHMASTE	KET # 975533 R	CELL
ISTOMER 000753 A&D ENVIRONMENTALAND IND PO BOX 484				DATE/TIME OUT am 10-16-2014 10:52-a CONTAINER
PO# 23166 30261417037		WHITE BILL OF LAD	NG	TNVOICE
SCALE IN GROSS WEIGHT SCALE OUT TARE WEIGHT	23,760 NI	NET TONS ET WEIGHT	11.18 22,360	INBOUND
07% UNT 0.00 YD TRACKING QTY 11.18 TN SW-CONST DEBRIS	PITT			TENSION
	n an	11. - 12. 		
Indemnification. Generator agrees to indemr of NC, LLC, its subsidiaries, affiliates, emplo all liabilities, claims, penalties, forfeitures, su cost of defense, settlement and resonable at death or injuries to any person or damage to the undersigned manyour symptom document on settle on the reverse side and that he or she has the authority to a	yees, officer and directors its, and cost and expense torney's fees, which may i any any ang the source of the sou	from and agains s incident therto, be incurred, as a iob of or adverse	it any and including result∕of	nd conditions

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lease r	print or type	NON-HAZ	ARDOUS	WASTE MANIFES	Т		13615	14
1.0	Generator's US EPAID Number	Manifest Document Numbe	er 2. Page 1 d	f for the second s	<u>ACAU</u>			
≯ 3.	Generator's Name and Mailing Address NCDUT 1030 RALES Phone (019) 707-695	 °``	 	5. Generating Location (if dif NCDOT Prob C	ferent)			
	NCDU 10201	Surch-Ridge.	Drive	AC DOT MODE	(tý	last	IAL al	L
	KALL	GP, NC 274	10	Facel 99 a	NC		10th sty	ur
	Phone (999 707-195 Transporter #1 Company Name	7		6. Phone (919 70)	1-48	59		
	Evely Baysden Ton	adding in FE	0.03 EF			sporter #1's		
10.	. Transporter #2 Company Name	Sing Per	11. US EP	A ID Number	12. Tra	nsporter #2	r - 4634 's Phone	
13.	. Designated_T/S/D Facility Name and S	Site Address	14 110 50	A ID Number	-			
E	Designated T/S/D Facility Name and S AST CAPOLINA LAN 422 RUPUBLICAN K AULANDAN NC Waste Shipping Name and Description	th11	14. US EP	A ID Number	15. Fac	ility's Phon	e	
1	922 Republican R	load			25	<u>م</u>	alter on	
<u>i</u> 16.	Waste Shipping Name and Description	21805	Not.	Applicable.			348-33	22
			Allea W	aste Approval # and Exp. Date	18. Con	T	19. Total Quantity	20. Unit Wt/Vol
a./	Concrete Debris		1		No.	Туре		<u> </u>
ь. -	Concrete Debris (Non-Haz Soli	1	.70	2614	21	DT	12 22	ton
b.	INN INCOM	n.j		•		<u> </u>	13.33	In
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c.					_	 -		Ļ
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21.	Additional Descriptions for Materials Li	sted Above						L
C	A+DJob#	72332-	r					
	Special Handling Instructions and Addi	itional Information						
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. 22.						Topps dies an	al of Hazardous Wast	
23.	GENERATOR'S CERTIFICATION; 10	ertify the materials described on			r reporting p	Tuper dispusa	-	е.
23. Print	ted/Typed Name		this manifest are Signat		r reporting p		Mo	nth Day
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EAST CAROLINA ENV LANDFILL AULANDER, NC 27805 252-348-3322 CUSTOMER 000753 A&D ENVIRONMENTALAND IND PO BOX 484 PO# 23166 30261417037	SITE TICKET # 01 975556 WEIGHMASTER DATE/IME IN 10-16-2014 12:38 pm VEHICLE TRUCK REFERENCE EEB7 BILL OF LADING	CELL DATE/TIME OUT 10-16-2014 12:56 pir CONTAINER INVOICE
SCALE IN GROSS WEIGHT 52,120 MANUAL OUT TARE WEIGHT 25,460	NET TONS 13.33 NET WEIGHT 26,660	INBOUND
ONC TOMO 0.00 YD 13.33 TN SW-CONST DEBRIS PITT		
Indemnification. Generator agrees to indemnify, hold harmeless, of NC, LLC, its subsidiaries, affiliates, employees, officer and dire all liabilities, claims, penalties, forfeitures, suits, and cost and exp cost of defense, settlement and resonable attorney's fees, which death or injuries to any person or damage to any property for any on the reverse side and that he or she has the authority to sign this document on beha RS-F042UPR (07/12) 2/21 site	ectors from and against any and penses incident therto, including may be incurred, as a result of mination of or adverse effect on the term and ecco	Itilons

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lė	ase plint of type.	REPUBLIC SERVICES	EST		13615	/ 12
÷					17071)T2
5	1. Generator's US EPA ID Number NGT App/ Cable 3. Generator's Name and Mailing Address NCDOT 1020 Birch Ridge Paluigh, NC 37410		(16 a)(6	x Zolari (Massa)		
	NCDOT 1020 Birch Kidge	Drive S. Generating Location	oputu			
	Kalligh, NC 27410	Parcel 99	All 4	Ust,	10th Stre	at
	4. Phone (919, 707 - 6859 7. Transporter #1 Company Name	6. Phone (919) 7	NC.	59		
	7. Transporter #1 Company Name Evelys Bays den Truskij	8. US EPA ID Number		sporter #1		
	10. Transporter #2 Company Name	11. US EPA ID Number		<u>298.</u> nsporter #2	46.54 2's Phone	
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ļ	13. Designated T/S/D Facility Name and Site Address EAST (Groling Landtill 1932 Ripublicanta - Tulanding Carta	14. US EPA ID Number	15. Fac	ility's Phor	10	
	1932 PIPUDICANEd.		0.5			24.
	Autandin NC 27805	Not Apoli cable	2 25	22	348 - 3	322
	16. Waste Shipping Name and Description	17. Allied Waste Approval # and Exp. I	Date 18. Con	tainers	19. Total Quantity	20. Unit Wt/Vol
	a. A. John har	· · · · · · · · · · · · · · · · · · ·	No.	Туре		
	"Concrete Debris (Now-Hoz Salids)	200111	07	7-	10.	Tanc
	NON-HAZ Salids	502614			15,36	10115
		302614				
	с.					
	d.				<u> </u>	
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I	21. Additional Descriptions for Materials Listed Above			<u> </u>	L	
	AtD 66# 72332					
	22. Special Handling Instructions and Additional Information			·		
		•				
	Ches Harley (ATC) AS prest for NCDOT	PO AL	,			
	23. GENERATOR'S CERTIFICATION: I certify the materials described on t		op for reporting p	oroper dispos	al of Hazardous Wa	ste.
	Printed/Typed Name	Signeture	1			ionth Day Y
ĺ	24. Transporter #1: Acknowledgement of Receipt of Materials	0 1	•			
	Printed Typed Name Denley SEdwards	Signature				ionth Day Y
	25. Transporter #2: Acknowledgement of Receipt of Materials				/	<u>- 1/6 V</u>
	Printed/Typed Name	Signature			I	onth Day Y
ſ	26. Discrepancy Indication Space					<u> </u>
	27. Facility Owner or Operator: Certification of receipt of waste mater	rials covered by this manifest (except a	s noted in Item	19)		
	Λ.	/				
ľ	Printed/Typed Name	Signature		7	M	onth Day Y
	YTHING TIG		16 /	1		10/16/
		- Aur	1m			<u>10 191</u>

SITE EAST CAROLINA ENV LANDFILL AULANDER, NC 27805 252-348-3322 CUSTOMER 000753 A&D ENVIRONMENTALAND IND PO BOX 484 PO# 23166 30261417037	DATE TIME IN B.	ATE/TIME OUT LO_16_2014 1:04 prr ONTAINER INVOTCE
SCALE IN GROSS WEIGHT 57,180 MANUAL OUT TARE WEIGHT 26,460	NET TONS 15.36 NET WEIGHT 30,720	TNDOUND
OTV: DNN:		INBOUND
Indemnification. Generator agrees to indemnify, hold harmeless, of NC, LLC, its subsidiaries, affiliates, employees, officer and din all liabilities, claims, penalties, forfeitures, suits, and cost and ex cost of defense, settlement and resonable attorney's fees, which death or injuries to any person of demage to any provide the memory of the undersigned motion of the undersigned motion of the set of the	ectors from and against any and penses incident therto, including may be incurred, as a result of mination of or adverse offection to the section of the sec	TENDERED CHANGE
	GNATURE Day Elect	CHECK#

	HAZARDOUS	• •	EST		13615	15	
	nt Number 2. Page 1 of						2015
ALLIGH, NC 27410 Religh, NC 27410	Drive	5. Generating Location NCDOT Pro Parcel 99 5. Phone () ID Number	(if different)	· · · · · · · · · · · · · · · · · · ·	and na franklandski and ti	<u>ha na shi ku a</u>	<u></u>
Rolugh, NK 27410		Parcel 99	2H W	est le	oth Stree	1	
4. Phone (919) 707-6859 7. Transporter #1 Company Name	8. US EPA	6. Phone ()	Erren	nik, K	VC (919)	707-65	59
	0. 00 EFA	id number	9. Trans	sporter #1':	s Phone		
10. Transporter #2 Company Name	11. US EPA	ID Number	12. Trar	nsporter #2	's Phone		
13. Designated T/S/D Facility Name and Site Address	14. US EPA	ID Number	15. Faci	lity's Phon	8		
Past Carolina Landbill 1922 Republican Read			12-		2110.2	7 1 4	
Aulandur, NC 27705 16. Waste Shipping Name and Description	Not.	Applicable ste Approval # and Exp.	c ab		348-3		-
		ste Approval # and Exp.	Date 18. Cont No.	ainers Type	19. Total Quantity	20. Unit Wt/Vo	ł
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d.		· · · · · · · · · · · · · · · · · · ·		·			
21. Additional Descriptions for Materials Listed Above A+D Job # 723	32		<u>-</u> I	<u> </u>	L	1	
22. Special Handling Instructions and Additional Information	· · · · · · · · · · · · · · · · · · ·						
÷ .							
23. GENERATOR'S CERTIFICATION: I certify the materials det	cribed on this manifest are r	ot subject to federal regulat	ions for reporting p	roper dispos	al of Hazardous Wes		<u> </u>
Printed/Typed Name	Signatur				· · · · · · · · · · · · · · · · · · ·	onth Day	Yea
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24. Transporter #1: Acknowledgement of Receipt of Materia Printed/Typed Name 25. Transporter #2: Acknowledgement of Receipt of Materia Printed/Typed Name	ls Signatur				. Mc	onth Day	, Year
26. Discrepancy Indication Space							
27. Facility Owner or Operator: Certification of receipt of wa	aste materials covered by	this manifest texcepted	s noted in Item	19)			1
Chris Handley As Agent to NODOT		ALL			Ħ	7-16	
Printed/Typet/Name	Signatur	11/	·			nth Day	Yea
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EAST CAROLIN	A ENV LANDFILL		(ET #	CELL
AULANDER, NC 2 CUSTOMEN 000753 A&D ENVIRONMENTALAND IN PO BOX 484 PO# 23166 30261417037	7805 252-348-3322	DI WEIGHMASTE DATE/TIME IN VEHICLE REFERENCE VCh9 BILL OF LADIN	RCHIE B OUT 2014 - 12:52- p 	- БАТЕТІЛЕ ОТ
	WEIGHT 68,180 WEIGHT 30,720	NET TONS NET WEIGHT	18.73 37,460	INBOUND
0.00 YE TRACKING QTY 18.73 TN SW-CONST DEBRI				ENSIGN TAK
Indemnification. Generator agrees of NC, LLC, its subsidiaries, affiliat all liabilities, claims, penalties, forfe cost of defense, settlement and res death or injuries, in any person of the on the reverse side and that he or she has the the settlement of the settlement of the settlement on the reverse side and that he or she has the the settlement of the settlement of	authority to sign this document on behalf	ctors from and against a enses incident therto, in nay be incurred, as a re	any and Cluding	conditions

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Soilworks, Inc.

Facility Address: 7534 Hwy. 42E Selma, NC 27576 Mailing Address: 7230 Hwy. 42 East Selma, NC 27576



Certificate of Disposal

NCDENR Permit SRU600075 Phone (919) 366-1500 Fax (919) 553-5832 laura@soilworksnc.com

Soilworks, Inc., operating under Permit SRU600075, hereby acknowledges the receipt of 40.74 tons of soil contaminated with petroleum hydrocarbons and will properly execute the disposal of this soil in the prescribed manner set forth by the North Carolina Department of Environment and Natural Resources, Division of Waste Management in accordance with the requirements of SRU600075.

CLIENT

A&D Environmental Services, Inc. P.O. Box 484 High Point, NC 27262

GENERATOR

NC Department of Transportation 1020 Birch Ridge Drive Raleigh, NC 27610 Site: 211 West 10th Street, Greenville, NC 27834

TRANSPORTER

A&D Environmental Services, Inc. P.O. Box 484 High Point, NC 27262

DATE(S) ACCEPTED

September 20-October 1, 2014

CERTIFICATION BY SOILWORKS, INC.

ana J

Laura Buchanan PRINTED NAME

10/20/14 DATE

Soilworks, Inc.

Facility Address: 7534 Hwy. 42E Selma, NC 27576 Mailing Address: 7230 Hwy. 42 East Selma, NC 27576



Manifest

NCDENR Permit SRU600075

Contaminant(s):

Phone (919) 366-1500 Fax (919) 553-5832 laura@soilworksnc.com

gasoline

CLIENT

SHIPMENT INFORMATION

P.O. Box 484

High Point, NC 27262

A&D Environmental Services, Inc.

(800) 434-7750

Material Description: Petroleum Contaminated Soil

GENERATOR	NC Department of Transportation	Manifest Number:	1
MAILING	1020 Birch Ridge Drive		<u>_</u>
ADDRESS	Raleigh, NC 27610	Date Weighed:	9/30/14
SITE ADDRESS	NCDOT		· · ·
	211 West 10th Street	Truck Number:	D6
	Greenville, NC 27834		<u> </u>
•	. · · ·		
CONSULTANT	Cardno ATC	Gross Weight (lbs):	48320
	2725 E. Millbrook Road Ste. 121		
۴	Raleigh, NC 27604	Tare Weight (Ibs):	25840
	-		
		Net Weight (lbs):	22480
TRANSPORTER	A&D Environmental Services, Inc.		
	P.O. Box 484	Equivalent Tons:	11.24
	High Point, NC 27262		

INSPECTED & ACCEPTED BY SOILWORKS, INC.:

Jauras Bucharan SIGNATURE

Laura Buchanan

9/30/14 DATE

Weight tickets will be issued using scales owned and operated by Soilworks, Inc (regulated by the NCDA-Standards Division [registration #582]). Weight tickets are certified by a Public Weighmaster.

Sollworks, Inc.

Mailing Address:

7230 Hwy. 42 East

Selma, NC 27576

Facility Address:

7534 Hwy. 42E

Selma, NC 27576

	6
	A

Manifest

NCDENR Permit SRU600075 Phone (919) 366-1500 Fax (919) 553-5832 laura@soilworksnc.com

CLIENT	A&D Environmental Services, Inc.	ces, Inc. SHIPMENT INFORMATION Material Description: Petroleum Contaminated Soi	
	P.O. Box 484		
	High Point, NC 27262		
	(800) 434-7750		
		Contaminant(s):	gasoline
GENERATOR	NC Department of Transportation	Manifest Number:	2
MAILING ADDRESS	1020 Birch Ridge Drive		
	Raleigh, NC 27610	Date Weighed:	9/30/14
SITE ADDRESS	NCDOT		
	211 West 10th Street	Truck Number:	D6
	Greenville, NC 27834		
CONSULTANT	Cardno ATC	Gross Weight (lbs):	53540
	2725 E. Millbrook Road Ste. 121		
	Raleigh, NC 27604	Tare Weight (lbs):	25840
		Net Weight (lbs):	27700
TRANSPORTER	A&D Environmental Services, Inc.		
	P.O. Box 484	Equivalent Tons:	13.85
	High Point, NC 27262		

INSPECTED & ACCEPTED BY SOILWORKS, INC.:

Jucharan auro SIGNATURE

Laura Buchanan

9/30/14 DATE

Weight tickets will be issued using scales owned and operated by Soilworks, Inc (regulated by the NCDA-Standards Division [registration #582]). Weight tickets are certified by a Public Weighmaster.

Soilworks, Inc.

Facility Address: 7534 Hwy. 42E Selma, NC 27576 Mailing Address: 7230 Hwy. 42 East Selma, NC 27576



Manifest

NCDENR Permit SRU600075

Contaminant(s):

Phone (919) 366-1500 Fax (919) 553-5832 laura@soilworksnc.com

gasoline

CLIENT A&D Environmental Services, Inc. P.O. Box 484 High Point, NC 27262 (800) 434-7750

SHIPMENT INFORMATION

Material Description: Petroleum Contaminated Soil

	,	-	
GENERATOR	NC Department of Transportation	Manifest Number:	3
MAILING	1020 Birch Ridge Drive		
ADDRESS	Raleigh, NC 27610	Date Weighed:	10/1/14
SITE ADDRESS	NCDOT		
	211 West 10th Street	Truck Number:	D6
	Greenville, NC 27834		
CONSULTANT	Cardno ATC	Gross Weight (lbs):	57140
	2725 E. Millbrook Road Ste. 121		
	Raleigh, NC 27604	Tare Weight (lbs):	25840
		Net Weight (lbs):	31300
TRANSPORTER	A&D Environmental Services, Inc.		
	P.O. Box 484	Equivalent Tons:	15.65
	High Point, NC 27262		

INSPECTED & ACCEPTED BY SOILWORKS, INC.:

aura Bucharan SIGNATURE

Laura Buchanan

10/1/14 DATE

Weight tickets will be issued using scales owned and operated by Soilworks, Inc (regulated by the NCDA-Standards Division [registration #582]). Weight tickets are certified by a Public Weighmaster.

Soilwork	ks, Inc.							
75	534 Hwy. 42	East						
	elma, NC 2							
(919) 366-1500 Permit SRU600075								
EMPTY WT	TRUCK	<u>p-6</u>						
Transporter	A310							

12:07pm 09/30/2014 53540 1b GR

Sile Project 210 U.11 54 ዲ

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2015 RAYMOND EDWARD EARP 31977

Transporter

Client

VALID UNLESS SKONED

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 33, 2015 BOBBY G PAGAN 33380

INVALID UNLESS SIGNED

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2015 LAURA BUCHANAN 31739

INVALID UNLESS SIGNED

Soilworks, Inc. 7534 Hwy. 42 Selma, NC 2 (919) 366- Permit SRU60	27576 -1500
EMPTY WT TRUCK	DG
Transporter <u>A & C</u>	>
Client <u>AED</u> Epl	\checkmark
Project Ilow. 1050	. GREENVILLE
NORTH CAROLINA	NORTH CAROLINA

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2015 RAYMOND EDWARD EARP 31977

INVALID UNLESS SIGNED

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2015 BOBBY G PAGAN 33380 ŬI:41pm 10/01/2014 57140 16 SR

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2015 JOEY SULLIVAN 37250

INVALID UNLESS SIGNED

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2015 LAURA BUCHANAN 31739

INVALID UNLESS SIGNED

Sollworks, Inc.							
	84 Hwy. 42						
	ma, NC 2 919) 366-:	1500					
Perm	nit SRU60	0075					
EMPTYWT	TRUCK	<u>P6</u>					
Transporter	ASD						
Client $A^{3}L$	0						

09:02am 09/30/2014 25840 15 GR

LAURA BUCHANAN

Project 210 h 10x4 St, GC.YIL

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2015 RAYMOND EDWARD EARP 31977 NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 39, 2015 BOBBY G PAGAN 33380

INVALID UNLESS SIGNED

INVALID UNLESS SIGNED

NORTH CAROLINA PUBLIC WEIGHMASTER

LICENSE EXPIRES JUNE 30, 2015

31739

APPENDIX C

LABORATORY ANALYTICAL REPORTS



October 14, 2014

Chemical Testing Engineer NCDOT Materials & Tests Unit 1801 Blue Ridge Road Raleigh, NC 27607

RE: Project: Greenville DOT U3315 35781.12 Pace Project No.: 92219858

Dear Chemical Engineer:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Ar Sod-

Kevin Godwin kevin.godwin@pacelabs.com Project Manager

Enclosures

cc: Jeff Corson, Cardno ATC



REPORT OF LABORATORY ANALYSIS

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



CERTIFICATIONS

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 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 West Virginia Certification #: 357 Virginia/VELAP Certification #: 460221



SAMPLE ANALYTE COUNT

Project: Greenville DOT U3315 35781.12

219858

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92219858001		EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92219858002	T1B	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92219858003	T1C	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92219858004	T2A	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92219858005	T2B	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92219858006	T2C	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92219858007	T3A	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92219858008	ТЗВ	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92219858009	T3C	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Method: EPA 8015 Modified Description: 8015 GCS THC-Diesel Client: NCDOT North East

Date: October 14, 2014

General Information:

9 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Method: EPA 8015 Modified

Description:Gasoline Range OrganicsClient:NCDOT North EastDate:October 14, 2014

General Information:

9 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Sample: T1A	Lab ID: 922198580	01 Collected: 10/02/1	4 08:30	Received: 10)/03/14 08:00	Matrix: Solid	
Results reported on a "dry-weight"	basis						
Parameters	ResultsUni	ts Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EP	A 8015 Modified Prepara	ation Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	79.8 mg/kg	8.4	1	10/07/14 08:09	10/08/14 02:3	1	
n-Pentacosane (S)	67 %	41-119	1	10/07/14 08:09	10/08/14 02:3	1 629-99-2	
Gasoline Range Organics	Analytical Method: EP	A 8015 Modified Prepara	ation Me	ethod: EPA 5035A	/5030B		
Gas Range Organics (C6-C10) <i>Surrogates</i>	ND mg/kg	8.7	1	10/10/14 10:00	10/13/14 20:11	1	
4-Bromofluorobenzene (S)	86 %	70-167	1	10/10/14 10:00	10/13/14 20:11	460-00-4	
Percent Moisture	Analytical Method: AS	TM D2974-87					
Percent Moisture	40.3 %	0.10	1		10/07/14 14:47	7	



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Sample: T1B	Lab ID: 92219	9858002	Collected:	10/02/1	4 08:40	Received: 10	0/03/14 08:00	Matrix: Solid	
Results reported on a "dry-weight"	basis								
Parameters	Results	Units	Repor	rt Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Metho	od: EPA 80)15 Modified	Prepara	ation Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	55.5 mg/	kg		8.1	1	10/07/14 08:09	10/08/14 02:31	1	
n-Pentacosane (S)	72 %			41-119	1	10/07/14 08:09	10/08/14 02:31	629-99-2	
Gasoline Range Organics	Analytical Metho	od: EPA 80	015 Modified	Prepara	ation Me	ethod: EPA 5035A	\/5030B		
Gas Range Organics (C6-C10) <i>Surrogates</i>	15.1 mg/	kg		8.7	1	10/06/14 13:30	10/06/14 20:40)	
4-Bromofluorobenzene (S)	90 %			70-167	1	10/06/14 13:30	10/06/14 20:40	0 460-00-4	
Percent Moisture	Analytical Metho	d: ASTM	D2974-87						
Percent Moisture	38.0 %			0.10	1		10/07/14 14:47	7	



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Sample: T1C	Lab ID: 92219858003	Collected: 10/02/1	4 08:50	Received: 10)/03/14 08:00 I	Matrix: Solid	
Results reported on a "dry-weight"	basis						
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA	3015 Modified Prepara	ation Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	ND mg/kg	7.2	1	10/07/14 08:09	10/08/14 02:54	Ļ	
n-Pentacosane (S)	67 %	41-119	1	10/07/14 08:09	10/08/14 02:54	629-99-2	
Gasoline Range Organics	Analytical Method: EPA	3015 Modified Prepara	ation Me	ethod: EPA 5035A	V5030B		
Gas Range Organics (C6-C10) <i>Surrogates</i>	9.1 mg/kg	8.1	1	10/06/14 13:30	10/06/14 21:03	3	
4-Bromofluorobenzene (S)	84 %	70-167	1	10/06/14 13:30	10/06/14 21:03	8 460-00-4	
Percent Moisture	Analytical Method: ASTN	1 D2974-87					
Percent Moisture	30.2 %	0.10	1		10/07/14 14:47	7	



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Sample: T2A	Lab ID: 922	19858004	Collected:	10/02/1	4 09:00	Received: 10)/03/14 08:00 N	Matrix: Solid	
Results reported on a "dry-weight"	basis								
Parameters	Results	Units	Repo	rt Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Met	hod: EPA 80	015 Modified	Prepara	ation Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	79.4 m	g/kg		7.5	1	10/07/14 08:09	10/08/14 02:54		
n-Pentacosane (S)	71 %	,		41-119	1	10/07/14 08:09	10/08/14 02:54	629-99-2	
Gasoline Range Organics	Analytical Met	hod: EPA 80	015 Modified	Prepara	ation Me	ethod: EPA 5035A	/5030B		
Gas Range Organics (C6-C10) Surrogates	ND m	g/kg		9.3	1	10/06/14 13:30	10/06/14 21:26		
4-Bromofluorobenzene (S)	84 %	,		70-167	1	10/06/14 13:30	10/06/14 21:26	460-00-4	
Percent Moisture	Analytical Met	hod: ASTM	D2974-87						
Percent Moisture	33.6 %	,		0.10	1		10/07/14 14:47		



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Sample: T2B	Lab ID: 922	19858005	Collected:	10/02/1	4 09:10	Received: 10	0/03/14 08:00 I	Matrix: Solid	
Results reported on a "dry-weight"	basis								
Parameters	Results	Units	Repo	rt Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Met	hod: EPA 80)15 Modified	Prepara	ation Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	ND m	g/kg		7.7	1	10/07/14 08:09	10/08/14 03:17	7	
n-Pentacosane (S)	69 %	•		41-119	1	10/07/14 08:09	10/08/14 03:17	629-99-2	
Gasoline Range Organics	Analytical Met	hod: EPA 80	015 Modified	Prepara	ation Me	ethod: EPA 5035A	/5030B		
Gas Range Organics (C6-C10) <i>Surrogates</i>	ND m	g/kg		8.2	1	10/06/14 13:30	10/06/14 21:49)	
4-Bromofluorobenzene (S)	88 %	,		70-167	1	10/06/14 13:30	10/06/14 21:49	9 460-00-4	
Percent Moisture	Analytical Met	hod: ASTM	D2974-87						
Percent Moisture	34.7 %	,		0.10	1		10/07/14 14:47	7	



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Sample: T2C	Lab ID: 92219858006	6 Collected: 10/02/1	4 09:20	Received: 10	0/03/14 08:00	Matrix: Solid	
Results reported on a "dry-weight"	basis						
Parameters	ResultsUnits	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA	8015 Modified Prepara	ation Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	ND mg/kg	7.8	1	10/07/14 08:09	10/08/14 03:17	7	
n-Pentacosane (S)	68 %	41-119	1	10/07/14 08:09	10/08/14 03:17	629-99-2	
Gasoline Range Organics	Analytical Method: EPA	8015 Modified Prepara	ation Me	ethod: EPA 5035A	V5030B		
Gas Range Organics (C6-C10) <i>Surrogates</i>	ND mg/kg	8.1	1	10/10/14 10:00	10/13/14 20:33	3	
4-Bromofluorobenzene (S)	87 %	70-167	1	10/10/14 10:00	10/13/14 20:33	3 460-00-4	
Percent Moisture	Analytical Method: ASTI	M D2974-87					
Percent Moisture	35.9 %	0.10	1		10/07/14 14:47	7	



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Sample: T3A	Lab ID: 9221985800	07 Collected: 10/02/1	4 09:30	Received: 10	0/03/14 08:00	Matrix: Solid	
Results reported on a "dry-weight"	basis						
Parameters	ResultsUnit	s Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA	8015 Modified Prepara	ation Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	ND mg/kg	7.4	1	10/07/14 08:09	10/08/14 03:4	1	
n-Pentacosane (S)	69 %	41-119	1	10/07/14 08:09	10/08/14 03:4	1 629-99-2	
Gasoline Range Organics	Analytical Method: EPA	8015 Modified Prepara	ation Me	ethod: EPA 5035A	\/5030B		
Gas Range Organics (C6-C10) <i>Surrogates</i>	ND mg/kg	7.8	1	10/07/14 09:40	10/07/14 13:02	2	
4-Bromofluorobenzene (S)	95 %	70-167	1	10/07/14 09:40	10/07/14 13:02	2 460-00-4	
Percent Moisture	Analytical Method: AST	TM D2974-87					
Percent Moisture	32.5 %	0.10	1		10/07/14 14:48	8	



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Sample: T3B	Lab ID: 922198580	08 Collected: 10/02/	14 09:40	Received: 10	0/03/14 08:00 I	Matrix: Solid	
Results reported on a "dry-weight"	basis						
Parameters	Results Uni	ts Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EP	A 8015 Modified Prepar	ation Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	ND mg/kg	7.4	1	10/07/14 08:09	10/08/14 04:04	Ļ	
n-Pentacosane (S)	79 %	41-119	1	10/07/14 08:09	10/08/14 04:04	629-99-2	
Gasoline Range Organics	Analytical Method: EP	A 8015 Modified Prepar	ation Me	ethod: EPA 5035A	\/5030B		
Gas Range Organics (C6-C10) <i>Surrogates</i>	ND mg/kg	7.1	1	10/07/14 09:40	10/07/14 13:24	Ļ	
4-Bromofluorobenzene (S)	90 %	70-167	1	10/07/14 09:40	10/07/14 13:24	460-00-4	
Percent Moisture	Analytical Method: AS	TM D2974-87					
Percent Moisture	32.8 %	0.10	1		10/07/14 14:48	3	



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Sample: T3C	Lab ID: 92219858	009 Collected: 10/02	/14 09:50	Received: 10)/03/14 08:00 I	Matrix: Solid	
Results reported on a "dry-weight"	basis						
Parameters	Results U	nits Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: E	PA 8015 Modified Prepa	ration Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	ND mg/kg	7.5	1	10/07/14 08:09	10/08/14 04:28	•	
n-Pentacosane (S)	64 %	41-119	1	10/07/14 08:09	10/08/14 04:28	629-99-2	
Gasoline Range Organics	Analytical Method: E	PA 8015 Modified Prepa	ration Me	ethod: EPA 5035A	\/5030B		
Gas Range Organics (C6-C10) <i>Surrogates</i>	ND mg/kg	7.6	1	10/07/14 09:40	10/07/14 13:47		
4-Bromofluorobenzene (S)	87 %	70-167	1	10/07/14 09:40	10/07/14 13:47	460-00-4	
Percent Moisture	Analytical Method: A	STM D2974-87					
Percent Moisture	33.2 %	0.10	1		10/07/14 14:48	3	



		OT U3315 35	781.12									
Pace Project No.: 92	219858											
QC Batch: 0	GCV/8624			Analys	is Method:	E	PA 8015 Mc	dified				
QC Batch Method: E	EPA 5035A/	/5030B		Analys	is Descript	tion: G	Basoline Rar	ige Organio	cs			
Associated Lab Sample	es: 9221	9858002, 92	219858003	, 92219858	004, 92219	9858005						
METHOD BLANK: 13	00231			Ν	Aatrix: Soli	id						
Associated Lab Sample	es: 9221	9858002, 92	219858003	, 92219858	004, 92219	9858005						
				Blank	R	eporting						
Paramete	er		Units	Resul	t	Limit	Analyz	ed	Qualifiers			
Gas Range Organics (0	C6-C10)	mg/kg		· · <u>· · · · · · · · · · · · · · · · · </u>	ND	6.0	10/06/14	12:25		_		
4-Bromofluorobenzene	,	%			79	70-167	10/06/14	12:25				
LABORATORY CONTR	ROL SAMPI	LE: 13002	32									
				Spike	LCS	6	LCS	% Rec	;			
Paramete	er		Units	Conc.	Resu	ılt	% Rec	Limits	a Qi	ualifiers		
Gas Range Organics (0	C6-C10)	mg/kg		50		48.1	96	70	-165		-	
4-Bromofluorobenzene	(S)	%					81	70	-167			
MATRIX SPIKE & MAT	RIX SPIKE	DUPLICATE	E: 13002			1300234						
				MS	MSD					04 F		
Deremeter			19858005	Spike	Spike	MS	MSD	MS % Dee	MSD	% Rec		Quel
Parameter		Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Gas Range Organics (0		mg/kg	ND	68.3	68.3	81.9	73.2	113	101	47-187		
1-Bromofluorobenzene	(S)	%						81	82	70-167		

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



Project: Greenvi Pace Project No.: 922198	lle DOT U3315 3 58	5781.12									
QC Batch: GCV/8	627		Analys	is Method:	E	PA 8015 Mo	dified				
QC Batch Method: EPA 50	035A/5030B		Analys	is Descript	ion: G	asoline Ran	ige Organic	s			
Associated Lab Samples:	92219858007, 92	2219858008	, 92219858	009							
METHOD BLANK: 1300687	7		Ν	Aatrix: Soli	d						
Associated Lab Samples:	92219858007, 92	2219858008	, 92219858	009							
			Blank	K R	eporting						
Parameter		Units	Resul	t	Limit	Analyz	ed	Qualifiers			
Gas Range Organics (C6-C1	0) mg/kg			ND	6.0	10/07/14	10:44				
4-Bromofluorobenzene (S)	%			81	70-167	10/07/14	10:44				
LABORATORY CONTROL S	AMPLE: 13006	200									
LABORATORY CONTROL 5	AMPLE: 13006	880	Spike	LCS		LCS	% Rec				
Parameter		Units	Conc.	Resu		% Rec	Limits		ualifiers		
Gas Range Organics (C6-C1	0) mg/kg		50		46.8	94	70	-165		-	
4-Bromofluorobenzene (S)	%					84	70	-167			
MATRIX SPIKE & MATRIX S	PIKE DUPLICAT	E: 13006	89		1300690						
			MS	MSD							
	922	219858009	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Gas Range Organics (C6-C1 4-Bromofluorobenzene (S)	0) mg/kg %	ND	63.6	63.6	84.5	82.7	129 91	126 86	47-187 70-167	2	

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



Project:Greenville IPace Project No.:92219858	DOT U3315 357	81.12									
QC Batch: GCV/8647	7		Analys	is Method:	E	PA 8015 Mc	dified				
QC Batch Method: EPA 5035	A/5030B		Analys	is Descript	ion: G	asoline Rar	nge Organio	cs			
Associated Lab Samples: 922	19858001, 922 ⁻	19858006									
METHOD BLANK: 1303867			Ν	Aatrix: Soli	d						
Associated Lab Samples: 922	19858001, 922 ²	19858006									
			Blank	K R	eporting						
Parameter	Ur	nits	Resul	t	Limit	Analyz	ed	Qualifiers			
Gas Range Organics (C6-C10)	mg/kg			ND	6.0	10/13/14	16:45				
4-Bromofluorobenzene (S)	%			84	70-167	10/13/14	16:45				
LABORATORY CONTROL SAM	PLE: 1303868	3									
			Spike	LCS	;	LCS	% Red	;			
Parameter	Ur	nits	Conc.	Resu	lt	% Rec	Limits	a Qi	ualifiers		
Gas Range Organics (C6-C10)	mg/kg		50		50.1	100	70	-165		-	
4-Bromofluorobenzene (S)	%					85	70	-167			
MATRIX SPIKE & MATRIX SPIK	E DUPLICATE:	13038	69		1303870						
			MS	MSD							
	92219	9858006	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Gas Range Organics (C6-C10) 4-Bromofluorobenzene (S)		ND	67.4	67.4	92.9	90.3	138 91	134 91	47-187 70-167	3	

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



,	Greenville D 92219858	OT U3315 35	5781.12									
QC Batch:	OEXT/3029	22		Analys	is Method:	·	EPA 8015 Mo	dified				
QC Batch Method:	EPA 3546			,	is Descript		3015 Solid G					
				,	•							
Associated Lab Sam		9858001, 92 9858008, 92		·	003, 9221	9858004,	9221985800	5, 9221985	8006, 9221	9858007,		
METHOD BLANK:	1300642			Ν	/latrix: Soli	id						
Associated Lab Sam		9858001, 92 9858008, 92			003, 92219	9858004,	9221985800	5, 9221985	8006, 9221	9858007,	I.	
				Blank	K R	eporting						
Paramo	eter		Units	Resul	t	Limit	Analyz	ed	Qualifiers			
Diesel Range Organi	cs(C10-C28)	mg/kg			ND	5.	0 10/07/14	23:47		_		
n-Pentacosane (S)	,	%			71	41-11	9 10/07/14	23:47				
LABORATORY CON	TROL SAMP	LE: 13006	43	0			1.00	0/ D				
Derem	ator		Units	Spike	LCS		LCS % Rec	% Rec		ualifiers		
Paramo			Units	Conc.	Resu			Limits		Jaimers	-	
Diesel Range Organi	cs(C10-C28)			66.7		48.1	72		9-113			
n-Pentacosane (S)		%					71	41	-119			
MATRIX SPIKE & MA			E: 13006	44		1300645						
			10000	MS	MSD	.000040						
		922	19858007	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Diesel Range Organi C28)	cs(C10-	mg/kg	ND	98.8	98.8	67.1	63.0	66	62	10-146	6	
n-Pentacosane (S)		%						65	62	41-119		

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



Project:	Greenville DOT	U3315 35781.12					
Pace Project No.:	92219858						
QC Batch:	PMST/7096		Analysis Meth	iod:	ASTM D2974-87		
QC Batch Method:	ASTM D2974-	-87	Analysis Desc	ription:	Dry Weight/Perc	ent Moisture	
Associated Lab Sat		58001, 9221985800 58008, 9221985800	, ,	219858004,	92219858005, 9	2219858006, 92219858007	7,
SAMPLE DUPLICA	TE: 1299478						
			92219925001	Dup			
Para	meter	Units	Result	Result	RPD	Qualifiers	
Percent Moisture		%	9.9	16.	0 4	8 R1	
SAMPLE DUPLICA	ATE: 1299479						
			92219858009	Dup			
Para	meter	Units	Result	Result	RPD	Qualifiers	
		%		32.		2	

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



QUALIFIERS

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219858

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92219858001		EPA 3546	OEXT/30292	EPA 8015 Modified	GCSV/19117
92219858002	T1B	EPA 3546	OEXT/30292	EPA 8015 Modified	GCSV/19117
92219858003	T1C	EPA 3546	OEXT/30292	EPA 8015 Modified	GCSV/19117
92219858004	T2A	EPA 3546	OEXT/30292	EPA 8015 Modified	GCSV/19117
92219858005	T2B	EPA 3546	OEXT/30292	EPA 8015 Modified	GCSV/19117
92219858006	T2C	EPA 3546	OEXT/30292	EPA 8015 Modified	GCSV/19117
92219858007	T3A	EPA 3546	OEXT/30292	EPA 8015 Modified	GCSV/19117
92219858008	ТЗВ	EPA 3546	OEXT/30292	EPA 8015 Modified	GCSV/19117
92219858009	T3C	EPA 3546	OEXT/30292	EPA 8015 Modified	GCSV/19117
92219858001	T1A	EPA 5035A/5030B	GCV/8647	EPA 8015 Modified	GCV/8649
92219858002	T1B	EPA 5035A/5030B	GCV/8624	EPA 8015 Modified	GCV/8628
92219858003	T1C	EPA 5035A/5030B	GCV/8624	EPA 8015 Modified	GCV/8628
92219858004	T2A	EPA 5035A/5030B	GCV/8624	EPA 8015 Modified	GCV/8628
92219858005	T2B	EPA 5035A/5030B	GCV/8624	EPA 8015 Modified	GCV/8628
92219858006	T2C	EPA 5035A/5030B	GCV/8647	EPA 8015 Modified	GCV/8649
92219858007	ТЗА	EPA 5035A/5030B	GCV/8627	EPA 8015 Modified	GCV/8633
92219858008	ТЗВ	EPA 5035A/5030B	GCV/8627	EPA 8015 Modified	GCV/8633
92219858009	T3C	EPA 5035A/5030B	GCV/8627	EPA 8015 Modified	GCV/8633
92219858001	T1A	ASTM D2974-87	PMST/7096		
92219858002	T1B	ASTM D2974-87	PMST/7096		
92219858003	T1C	ASTM D2974-87	PMST/7096		
92219858004	T2A	ASTM D2974-87	PMST/7096		
92219858005	T2B	ASTM D2974-87	PMST/7096		
92219858006	T2C	ASTM D2974-87	PMST/7096		
92219858007	T3A	ASTM D2974-87	PMST/7096		
92219858008	T3B	ASTM D2974-87	PMST/7096		
92219858009	T3C	ASTM D2974-87	PMST/7096		

Ø.	Sample Condition Upo		Page 1	
Pace Analytical*	Document N		Issuing Au	ithority:
1	F-CHR-CS-00	3-rev.15	Pace Huntersville	Quality Office
Client Name: Cardno	ATC	A.F		
Courier: C Fed Ex UPS USPS	Client Commerci	al Pace Other		
Custody Seal on Cooler/Box Present:	🗌 yes 🖉 no 🛛 Se	als intact: 🔲 yes	no Proj. Due Proj. Nan	The second se
Packing Material: Bubble V p	TBubble Bags None	Other	1 TOJA TO	
Thermometer Used: IR Gun (1401)		~	. Samples on ice, coolin	g process has begun
	Correction			
Corrected Cooler Temp.: 2.2	·C Biological Tiss	ue is Frozen: Yes No	N/A Date and Initials of contents:	f person examining
Temp should be above freezing to 6°C	- Birth Alter	Comments:		
Chain of Custody Present:	EYes DNo D	N/A 1.		P-1
Chain of Custody Filled Out:		N/A 2.		0.5
Chain of Custody Relinquished:	DYes DNo D	N/A 3.		
Sampler Name & Signature on COC:	ŬYes □No □	N/A 4.		
Samples Arrived within Hold Time:	⊠Yes □No □	N/A 5.		
Short Hold Time Analysis (<72hr):	DYes No D	N/A 6.		
Rush Turn Around Time Requested:	DYes BNO D	N/A 7.		
Sufficient Volume:	Effes 🗆 No 🗆	N/A 8.		
Correct Containers Used:	Eres DNO D	N/A 9.		the state
-Pace Containers Used:	LYes DNO D	N/A		
Containers Intact:	ØYes □No □	N/A 10.		
Filtered volume received for Dissolved t	ests □Yes □No Ď	N/A 11.		
Sample Labels match COC:	Eres DNo D	N/A 12.		
-Includes date/time/ID/Analysis	Matrix:			•
All containers needing preservation have been	checked. 🛛 🖓 Yes 🖾 No 🖻	ÍN/A 13.	 And the second se	and the second s
All containers needing preservation are found compliance with EPA recommendation.	d to be in 🛛 Yes LiNo 🖻		*	1
exceptions: VOA, coliform, TOC, O&G, WI-DRO (v	vater) 🛛 Yes 🗐 No			
Samples checked for dechlorination:	□Yes □No E	IN/A 14.	· · · · · · · · · · · · · · · · · · ·	
Headspace in VOA Vials (>6mm):		IN/A 15.		24
Trip Blank Present:	□Yes □No □	IN/A 16.		
Trip Blank Custody Seals Present	Dires DNo E	IN/A		
Pace Trip Blank Lot # (if purchased):				
Client Notification/ Resolution:			Field Data Required?	Y/N
Person Contacted:	D	ate/Time:		
Comments/ Resolution:				North Hard Street
SCURF Review: 11-2	Date: 10/3/14		Place label he	re
SRF Review:	Date: 10/3/14	JO# : 922:	19858	Luni al Iry al I I
Note: Whenever there is a discrepancy af samples, a copy of this form will be sen Certification Office (i.e out of hold, inco incorrect conta	to the North Carolina DE preservative, out of	2219858		mber le)
incorrect conta				

Page	22	of	23
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		2	Themest	needs Rush RESULTS!	oncrete sample CSP-1	ADDITIONAL COMMENTS			CSP-1	T3C	TSB	T3A	720	T28	T2A	TIC	TIB	TIA		(A-Z, 0-9 / -) (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE Tissue other		Section D Matrix Codes Required Client Information MATRIX / CODE		Requested Due Date/TAT:	1911-0989 Fax:	Λ	Raliah, NC 27604	Š	Company: CARDNO ATC	Required Client Information:	Microseeps
	C II C II C II C II				12							Super Press			140-000					୳ଟଟନ୍ଦ	۹ ۵۵ ۵۵ ۵۵ ۵۵ ۵۳ ۵۵ ۵۵	CODE		Project Number: 45.19873.	Project Name:	Purchase Order No .:	ROUGE E	Copy To: Garrett. Stanuile cardh o. con	Report To: Jeff, Corson Ocgidno, com	Required Project Information:	Section R
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October 09, 2014

Chemical Testing Engineer NCDOT Materials & Tests Unit 1801 Blue Ridge Road Raleigh, NC 27607

RE: Project: Greenville DOT U3315 35781.12 Pace Project No.: 92219859

Dear Chemical Engineer:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kri Dod-

Kevin Godwin kevin.godwin@pacelabs.com Project Manager

Enclosures

cc: Jeff Corson, Cardno ATC





CERTIFICATIONS

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 North Carolina Drinking Water Certification #: 37706 North Carolina Field Services Certification #: 5342 North Carolina Wastewater Certification #: 12 South Carolina Certification #: 99006001

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804 Florida/NELAP Certification #: E87648 Massachusetts Certification #: M-NC030 North Carolina Drinking Water Certification #: 37712 Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84 West Virginia Certification #: 357 Virginia/VELAP Certification #: 460221

North Carolina Wastewater Certification #: 40 South Carolina Certification #: 99030001 West Virginia Certification #: 356 Virginia/VELAP Certification #: 460222



SAMPLE ANALYTE COUNT

Project:Greenville DOT U3315 35781.12Pace Project No.:92219859

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92219859001	CSP-1	EPA 6010	JMW	7	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8270	RES	18	PASI-C
		EPA 8260	DLK	14	PASI-C
		EPA 8260	DLK	4	PASI-C
		ASTM D2974-87	ACS	1	PASI-C



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

Method: EPA 6010

Description:6010 MET ICP, TCLPClient:NCDOT North EastDate:October 09, 2014

General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

Method: EPA 7470

Description: 7470 Mercury, TCLP Client: NCDOT North East Date: October 09, 2014

General Information:

1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

Method: EPA 8270

Description:8270 MSSV TCLP Sep FunnelClient:NCDOT North EastDate:October 09, 2014

General Information:

1 sample was analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: OEXT/30325

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92219859001

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
 - MS (Lab ID: 1302188)
 - Pyridine
- R1: RPD value was outside control limits.
 - MSD (Lab ID: 1302189)
 - Pyridine

Additional Comments:



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

Method: EPA 8260

Description:8260 MSV TCLPClient:NCDOT North EastDate:October 09, 2014

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: MSV/28650

1g: 8260 results are from a total analysis which show that analytes are not present or that they are present but at such low levels that the appropriate regulatory levels could not possibly be exceeded, per Section 1.2 of Method 1311.

- CSP-1 (Lab ID: 92219859001)
 - 1,2-Dichloroethane-d4 (S)



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

Method: EPA 8260

Description:8260/5035A Volatile OrganicsClient:NCDOT North EastDate:October 09, 2014

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

Analyte Comments:

QC Batch: MSV/28648

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

- CSP-1 (Lab ID: 92219859001)
 - Toluene-d8 (S)

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



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

Sample: CSP-1 Lab ID: 92219859001 Collected: 10/02/14 14:45 Received: 10/03/14 08:00 Matrix: Solid Results reported on a "dry-weight" basis Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual Analytical Method: EPA 6010 Preparation Method: EPA 3010 6010 MET ICP, TCLP Leachate Method/Date: EPA 1311; 10/06/14 20:00 ND mg/L Arsenic 0.050 1 10/07/14 15:00 10/08/14 13:01 7440-38-2 Barium 0.60 mg/L 0.25 10/07/14 15:00 10/08/14 13:01 7440-39-3 1 Cadmium ND mg/L 0.0050 1 10/07/14 15:00 10/08/14 13:01 7440-43-9 ND mg/L 0.025 Chromium 1 10/07/14 15:00 10/08/14 13:01 7440-47-3 ND mg/L 0.025 I ead 1 10/07/14 15:00 10/08/14 13:01 7439-92-1 Selenium ND mg/L 0.10 10/07/14 15:00 10/08/14 13:01 7782-49-2 1 Silver ND mg/L 0.025 10/07/14 15:00 10/08/14 13:01 7440-22-4 1 Analytical Method: EPA 7470 Preparation Method: EPA 7470 7470 Mercury, TCLP Leachate Method/Date: EPA 1311; 10/06/14 20:00 ND ug/L 0.20 10/07/14 15:50 10/08/14 13:39 7439-97-6 Mercury 1 8270 MSSV TCLP Sep Funnel Analytical Method: EPA 8270 Preparation Method: EPA 3510 Leachate Method/Date: EPA 1311; 10/07/14 14:20 ND ug/L 50.0 10/08/14 13:20 10/08/14 19:42 106-46-7 1,4-Dichlorobenzene 1 2,4-Dinitrotoluene ND ug/L 50.0 10/08/14 13:20 10/08/14 19:42 121-14-2 1 Hexachloro-1,3-butadiene ND ug/L 50.0 10/08/14 13:20 10/08/14 19:42 87-68-3 1 Hexachlorobenzene ND ug/L 50.0 10/08/14 13:20 10/08/14 19:42 118-74-1 1 50.0 10/08/14 13:20 10/08/14 19:42 67-72-1 Hexachloroethane ND ug/L 1 50.0 2-Methylphenol(o-Cresol) ND ug/L 10/08/14 13:20 10/08/14 19:42 95-48-7 1 50.0 3&4-Methylphenol(m&p Cresol) ND ug/L 1 10/08/14 13:20 10/08/14 19:42 Nitrobenzene ND ug/L 50.0 10/08/14 13:20 10/08/14 19:42 98-95-3 1 Pentachlorophenol ND ug/L 100 10/08/14 13:20 10/08/14 19:42 87-86-5 1 ND ug/L 50.0 10/08/14 13:20 10/08/14 19:42 110-86-1 Pyridine 1 2,4,5-Trichlorophenol ND ug/L 50.0 1 10/08/14 13:20 10/08/14 19:42 95-95-4 2,4,6-Trichlorophenol ND ug/L 50.0 1 10/08/14 13:20 10/08/14 19:42 88-06-2 Surrogates Nitrobenzene-d5 (S) 85 % 12-102 1 10/08/14 13:20 10/08/14 19:42 4165-60-0 2-Fluorobiphenyl (S) 82 % 13-107 10/08/14 13:20 10/08/14 19:42 321-60-8 1 Terphenyl-d14 (S) 89 % 21-132 10/08/14 13:20 10/08/14 19:42 1718-51-0 1 Phenol-d6 (S) 30 % 10-110 1 10/08/14 13:20 10/08/14 19:42 13127-88-3 2-Fluorophenol (S) 43 % 10-110 1 10/08/14 13:20 10/08/14 19:42 367-12-4 2,4,6-Tribromophenol (S) 78 % 27-108 10/08/14 13:20 10/08/14 19:42 118-79-6 1 8260 MSV TCLP Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 10/05/14 11:57 Benzene 154 ua/L 125 25 10/07/14 17:14 71-43-2 2-Butanone (MEK) ND ug/L 250 25 10/07/14 17:14 78-93-3 Carbon tetrachloride ND ug/L 125 25 10/07/14 17:14 56-23-5 125 Chlorobenzene ND ug/L 25 10/07/14 17:14 108-90-7 125 Chloroform ND ug/L 25 10/07/14 17:14 67-66-3 1,4-Dichlorobenzene ND ug/L 125 25 10/07/14 17:14 106-46-7 1,2-Dichloroethane ND ug/L 125 25 10/07/14 17:14 107-06-2 1,1-Dichloroethene ND ug/L 125 25 10/07/14 17:14 75-35-4 Tetrachloroethene ND ug/L 125 25 10/07/14 17:14 127-18-4 ND ug/L 125 10/07/14 17:14 79-01-6 Trichloroethene 25

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

Sample: CSP-1	Lab ID: 9221	9859001	Collected: 10	/02/14	14:45	Received:	10/03/14 08:00	Matrix: Solid	
Results reported on a "dry-weight	t" basis								
Parameters	Results	Units	Report Lin	nit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Meth	od: EPA 82	60 Leachate M	ethod/	Date: E	PA 1311; 10/0	05/14 11:57		
Vinyl chloride <i>Surrogates</i>	ND ug/	۲L	1	125	25		10/07/14 17:1	4 75-01-4	
1,2-Dichloroethane-d4 (S)	97 %		70-1	130	25		10/07/14 17:1	4 17060-07-0	1g
Toluene-d8 (S)	98 %		67-1	135	25		10/07/14 17:1	4 2037-26-5	
4-Bromofluorobenzene (S)	101 %		70-1	130	25		10/07/14 17:1	4 460-00-4	
8260/5035A Volatile Organics	Analytical Meth	od: EPA 82	60						
Benzene Surrogates	197 ug/	′kg	1	159	25		10/07/14 17:1	4 71-43-2	
Toluene-d8 (S)	98 %		70-1	130	25		10/07/14 17:1	4 2037-26-5	D3
4-Bromofluorobenzene (S)	101 %		70-1	130	25		10/07/14 17:14	4 460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-1	132	25		10/07/14 17:1	4 17060-07-0	
Percent Moisture	Analytical Meth	od: ASTM I	02974-87						
Percent Moisture	21.6 %		0	.10	1		10/07/14 14:4	7	



Project: Pace Project No.:	Greenville DOT l 92219859	J3315 3	5781.12									
QC Batch:	MERP/7152			Analys	is Method:	F	PA 7470					
QC Batch Method:	EPA 7470				is Descript		470 Mercury					
Associated Lab Sar	-	9001		Analys	is Descript			TOLI				
METHOD BLANK:	1301305			N	latrix: Wa	ter						
Associated Lab Sar	nples: 9221985	9001										
Paran	neter		Units	Blank Result		eporting Limit	Analyz	ed	Qualifiers			
Mercury		ug/L			ND	0.20	-					
LABORATORY CO	NTROL SAMPLE:	13013	306	0.1				04 D				
Paran	neter		Units	Spike Conc.	LCS Resu		LCS % Rec	% Red Limits		ualifiers		
Mercury		ug/L		2.5		2.3	90	80)-120		-	
MATRIX SPIKE & M	IATRIX SPIKE DU	PLICAT	E: 13013			1301308						
				MS	MSD							
Parame	er	922 Units	218342001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/		0.30	2.5	2.5	2.5	2.5	88		75-125		

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



Analysis Method:

Matrix: Water

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

QC Batch:	MPR	P/17061
QC Batch Method:	EPA	3010
Associated Lab Sam	ples:	922198

010 Analysis Description: 92219859001

ription: 6010 MET TCLP

EPA 6010

METHOD BLANK: 1301239

Associated Lab Samples: 92219859001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.050	10/08/14 12:12	
Barium	mg/L	ND	0.25	10/08/14 12:12	
Cadmium	mg/L	ND	0.0050	10/08/14 12:12	
Chromium	mg/L	ND	0.025	10/08/14 12:12	
Lead	mg/L	ND	0.025	10/08/14 12:12	
Selenium	mg/L	ND	0.10	10/08/14 12:12	
Silver	mg/L	ND	0.025	10/08/14 12:12	

LABORATORY CONTROL SAMPLE: 1301240

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	2.5	2.7	107	80-120	
Barium	mg/L	2.5	2.5	100	80-120	
Cadmium	mg/L	2.5	2.6	105	80-120	
Chromium	mg/L	2.5	2.5	99	80-120	
Lead	mg/L	2.5	2.5	98	80-120	
Selenium	mg/L	2.5	2.7	108	80-120	
Silver	mg/L	1.2	1.3	101	80-120	

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 13012			1301242						
Parameter	92: Units	218342001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Falameter				COIIC.	Result		/0 Kec	/0 Kec			Quai
Arsenic	mg/L	ND	2.5	2.5	2.7	2.7	107	110	75-125	2	
Barium	mg/L	0.60	2.5	2.5	3.1	3.2	99	103	75-125	3	
Cadmium	mg/L	0.28	2.5	2.5	2.9	3.0	105	108	75-125	2	
Chromium	mg/L	ND	2.5	2.5	2.4	2.4	96	94	75-125	1	
Lead	mg/L	0.40	2.5	2.5	2.8	2.9	96	98	75-125	3	
Selenium	mg/L	ND	2.5	2.5	2.7	2.8	108	111	75-125	2	
Silver	mg/L	ND	1.2	1.2	1.3	1.3	102	103	75-125	1	

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

REPORT OF LABORATORY ANALYSIS



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

QC Batch:	MSV/28650	Analysis Me	ethod:	EPA 8260	
QC Batch Method:	EPA 8260	Analysis De	scription:	8260 MSV TCLP	
Associated Lab Sam	oles: 92219859001				
METHOD BLANK:	1300780	Matrix	: Water		
Associated Lab Sam	oles: 92219859001				
		Blank	Reporting		

Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L		5.0	10/07/14 10:37	
1,2-Dichloroethane	ug/L	ND	5.0	10/07/14 10:37	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/07/14 10:37	
2-Butanone (MEK)	ug/L	ND	10.0	10/07/14 10:37	
Benzene	ug/L	ND	5.0	10/07/14 10:37	
Carbon tetrachloride	ug/L	ND	5.0	10/07/14 10:37	
Chlorobenzene	ug/L	ND	5.0	10/07/14 10:37	
Chloroform	ug/L	ND	5.0	10/07/14 10:37	
Tetrachloroethene	ug/L	ND	5.0	10/07/14 10:37	
Trichloroethene	ug/L	ND	5.0	10/07/14 10:37	
Vinyl chloride	ug/L	ND	5.0	10/07/14 10:37	
1,2-Dichloroethane-d4 (S)	%	92	70-130	10/07/14 10:37	
4-Bromofluorobenzene (S)	%	96	70-130	10/07/14 10:37	
Toluene-d8 (S)	%	102	67-135	10/07/14 10:37	

LABORATORY CONTROL SAMPLE: 1300781

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1-Dichloroethene	ug/L		55.1	110	66-135	
1,2-Dichloroethane	ug/L	50	52.4	105	67-128	
1,4-Dichlorobenzene	ug/L	50	52.7	105	78-130	
2-Butanone (MEK)	ug/L	100	95.6	96	61-144	
Benzene	ug/L	50	51.6	103	80-125	
Carbon tetrachloride	ug/L	50	53.4	107	69-131	
Chlorobenzene	ug/L	50	52.9	106	81-122	
Chloroform	ug/L	50	53.5	107	73-127	
Tetrachloroethene	ug/L	50	48.3	97	78-122	
Trichloroethene	ug/L	50	54.9	110	78-122	
/inyl chloride	ug/L	50	51.5	103	58-137	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
I-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	67-135	

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REPORT OF LABORATORY ANALYSIS



Ducient	Create the DOT LIDDAE 05704 40
Project:	Greenville DOT U3315 35781.12

QC Batch: MSV/28648	3	Analysis	Method	d: E	PA 8260					
QC Batch Method: EPA 8260		Analysis	Descrip	otion: 8	260 MSV 5035	60 MSV 5035A Volatile Organics				
Associated Lab Samples: 922	19859001									
METHOD BLANK: 1300773		Ма	trix: Sc	olid						
Associated Lab Samples: 922	19859001									
		Blank	I	Reporting						
Parameter	Units	Result		Limit	Analyzed	Qualifie	ers			
Benzene	ug/kg	1	ND	5.0	0 10/07/14 10	:57				
1,2-Dichloroethane-d4 (S)	%		92	70-132	2 10/07/14 10	:57				
4-Bromofluorobenzene (S)	%		95	70-130						
Toluene-d8 (S)	%	1	03	70-130) 10/07/14 10	:57				
LABORATORY CONTROL SAMP	PLE: 1300774	Spike	LC	c	LCS	% Rec				
Parameter	Units	Conc.	Res		% Rec	Limits	Qualifiers			
Benzene	ug/kg	55.2		58.9	107	73-135				
1,2-Dichloroethane-d4 (S)	%				99	70-132				
4-Bromofluorobenzene (S)	%				100	70-130				
Toluene-d8 (S)	%				102	70-130				
MATRIX SPIKE SAMPLE:	1301852									
MATTIN OF INE OAMI EE.	1001002	92219809	019	Spike	MS	MS	% Rec			
Parameter	Units	Result		Conc.	Result	% Rec	Limits	Qualifiers		
Benzene	ug/kg		ND	32.7	32.5	99	50-166			
1,2-Dichloroethane-d4 (S)	%					116	5 70-132			
4-Bromofluorobenzene (S)	%					105				
Toluene-d8 (S)	%					101	70-130			
SAMPLE DUPLICATE: 130185	1									
SAIVIFLE DUPLICATE: 130185	I	9221970800	04	Dup						

		92219708004	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Benzene	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	91	101	6	
4-Bromofluorobenzene (S)	%	92	100	4	
Toluene-d8 (S)	%	102	99	8	

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

REPORT OF LABORATORY ANALYSIS



Analysis Method:

Matrix: Water

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

QC Batch:	OEX	T/30325
QC Batch Method:	EPA	3510
Associated Lab Sam	ples:	92219859001

Analysis Description: 8270 TCLP MSSV

EPA 8270

METHOD BLANK: 1302186

Associated Lab Samples: 92219859001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	50.0	10/08/14 18:48	
2,4,5-Trichlorophenol	ug/L	ND	50.0	10/08/14 18:48	
2,4,6-Trichlorophenol	ug/L	ND	50.0	10/08/14 18:48	
2,4-Dinitrotoluene	ug/L	ND	50.0	10/08/14 18:48	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	10/08/14 18:48	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	10/08/14 18:48	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	10/08/14 18:48	
Hexachlorobenzene	ug/L	ND	50.0	10/08/14 18:48	
Hexachloroethane	ug/L	ND	50.0	10/08/14 18:48	
Nitrobenzene	ug/L	ND	50.0	10/08/14 18:48	
Pentachlorophenol	ug/L	ND	100	10/08/14 18:48	
Pyridine	ug/L	ND	50.0	10/08/14 18:48	
2,4,6-Tribromophenol (S)	%	77	27-108	10/08/14 18:48	
2-Fluorobiphenyl (S)	%	78	13-107	10/08/14 18:48	
2-Fluorophenol (S)	%	40	10-110	10/08/14 18:48	
Nitrobenzene-d5 (S)	%	81	12-102	10/08/14 18:48	
Phenol-d6 (S)	%	29	10-110	10/08/14 18:48	
Terphenyl-d14 (S)	%	84	21-132	10/08/14 18:48	

LABORATORY CONTROL SAMPLE: 1302187

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	339	68	10-110	
2,4,5-Trichlorophenol	ug/L	500	384	77	39-108	
2,4,6-Trichlorophenol	ug/L	500	380	76	40-104	
2,4-Dinitrotoluene	ug/L	500	436	87	42-109	
2-Methylphenol(o-Cresol)	ug/L	500	319	64	31-110	
3&4-Methylphenol(m&p Cresol)	ug/L	500	283	57	30-110	
Hexachloro-1,3-butadiene	ug/L	500	328	66	10-110	
Hexachlorobenzene	ug/L	500	376	75	39-121	
Hexachloroethane	ug/L	500	329	66	10-110	
Nitrobenzene	ug/L	500	424	85	32-101	
Pentachlorophenol	ug/L	1000	478	48	18-108	
Pyridine	ug/L	500	97.2	19	10-110	
2,4,6-Tribromophenol (S)	%			75	27-108	
2-Fluorobiphenyl (S)	%			80	13-107	
2-Fluorophenol (S)	%			42	10-110	
Nitrobenzene-d5 (S)	%			82	12-102	
Phenol-d6 (S)	%			30	10-110	
Terphenyl-d14 (S)	%			85	21-132	

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REPORT OF LABORATORY ANALYSIS



Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 13021			1302189						
			MS	MSD							
	922	219859001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qua
1,4-Dichlorobenzene	ug/L	ND	500	500	360	352	72	70	30-150	2	
2,4,5-Trichlorophenol	ug/L	ND	500	500	398	401	80	80	30-150	1	
2,4,6-Trichlorophenol	ug/L	ND	500	500	399	392	80	78	30-150	2	
2,4-Dinitrotoluene	ug/L	ND	500	500	449	455	90	91	30-150	1	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	330	334	66	67	30-150	1	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	500	500	305	304	61	61	30-150	0	
lexachloro-1,3-butadiene	ug/L	ND	500	500	347	327	69	65	30-150	6	
lexachlorobenzene	ug/L	ND	500	500	410	400	82	80	30-150	2	
lexachloroethane	ug/L	ND	500	500	349	337	70	67	30-150	4	
Nitrobenzene	ug/L	ND	500	500	439	430	88	86	30-150	2	
Pentachlorophenol	ug/L	ND	1000	1000	542	570	53	55	30-150	5	
Pyridine	ug/L	ND	500	500	86.5	163	17	33	30-150	61	M1,R1
2,4,6-Tribromophenol (S)	%						81	77	27-108		
2-Fluorobiphenyl (S)	%						80	80	13-107		
2-Fluorophenol (S)	%						44	43	10-110		
Nitrobenzene-d5 (S)	%						84	83	12-102		
Phenol-d6 (S)	%						31	31	10-110		
Terphenyl-d14 (S)	%						88	83	21-132		

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

REPORT OF LABORATORY ANALYSIS



Project: Greenville Pace Project No.: 92219859	DOT U3315 35781.12				
QC Batch: PMST/70 QC Batch Method: ASTM D2		Analysis Meth Analysis Desc		ASTM D2974-87 Dry Weight/Perc	
Associated Lab Samples: 922	219859001				
SAMPLE DUPLICATE: 12994	78				
Parameter	Units	92219925001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	9.9	16.	.0 2	18 R1
SAMPLE DUPLICATE: 12994	79	92219858009	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Percent Moisture	%	33.2	32.	.6	2

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



QUALIFIERS

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219859

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

- 1g 8260 results are from a total analysis which show that analytes are not present or that they are present but at such low levels that the appropriate regulatory levels could not possibly be exceeded, per Section 1.2 of Method 1311.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:Greenville DOT U3315 35781.12Pace Project No.:92219859

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92219859001	CSP-1	EPA 3010	MPRP/17061	EPA 6010	ICP/15382
92219859001	CSP-1	EPA 7470	MERP/7152	EPA 7470	MERC/6880
92219859001	CSP-1	EPA 3510	OEXT/30325	EPA 8270	MSSV/9750
92219859001	CSP-1	EPA 8260	MSV/28650		
92219859001	CSP-1	EPA 8260	MSV/28648		
92219859001	CSP-1	ASTM D2974-87	PMST/7096		

Pace Analytical" Sample	 Condition Upon Receipt (SCUR) Document Number: F-CHR-CS-003-rev.15 	Page 1 of 2 Issuing Authority: Pace Huntersville Quality Office
Client Name: Cardno ATC	11 N 12 N 2 1	
Courier: Fed Ex UPS USPS Clie Custody Seal on Cooler/Box Present: yes	ent□ Commercial□ Pace Other_ s ₽ no Seals intact: □ yes	Optional Proj. Due Date: Proj. Name:
Packing Material: Bubble V p Bubble	18	
Thermometer Used: IR Gun (1401) Temp Correction Factor T1401 No Correct		Samples on ice, cooling process has begun
Corrected Cooler Temp.: 2.2 °C Temp should be above freezing to 6°C	Biological Tissue is Frozen: Yes No Comments:	N/A Date and Initials of person examining contents: <u>CE 10/3/14</u>
Chain of Custody Present:	1. Dives DN0 DN/A 1.	
Chain of Custody Filled Out:	TYes INO IN/A 2.	contraction of the second s
Chain of Custody Relinquished:	Elyes DNO DN/A 3.	
Sampler Name & Signature on COC:	ŬYes □No □N/A 4.	
Samples Arrived within Hold Time:	Eres DNO DN/A 5.	
Short Hold Time Analysis (<72hr):	DYes DNO DN/A 6.	
Rush Turn Around Time Requested:	DYes DNO DN/A 7.	
Sufficient Volume:	Effes Ino In/A 8.	
Correct Containers Used:	Elyes INO IN/A 9.	С. н
-Pace Containers Used:		1 _N -
Containers Intact	ØYes □No □N/A 10.	
Filtered volume received for Dissolved tests	□Yes □No □N/A 11.	
Sample Labels match COC:	Elyes INO IN/A 12.	
-Includes date/time/ID/Analysis Matrix: All containers needing preservation have been checked	□Yes □No ੴN/A 13.	And the second s
All containers needing preservation are found to be in compliance with EPA recommendation.		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	DYes EINo	
Samples checked for dechlorination:	□Yes □No	
Headspace in VOA Vials (>6mm):	DYes CINO DN/A 15.	
Trip Blank Present:	□Yes □No □N/A 16.	
Trip Blank Custody Seals Present	Dives DNo BN/A	
Pace Trip Blank Lot # (if purchased):		
Client Notification/ Resolution: Person Contacted: <u>Jeff Corsur</u> Comments/ Resolution: <u>Teff requested</u> Coc ly St S. KG.	/ TCLP 8260, TLLP 827	Field Data Required? Y / N / O & TCLP Refails for TCLP
	ate: 10/3/14 104 · C	92219859
1 PM	ate: $10/3/14$ WOH · S	76610000
Note: Whenever there is a discrepancy affecting No samples, a copy of this form will be sent to the No Certification Office (i.e out of hold, incorrect pres incorrect containers)	orth Carolina compliance orth Carolina DEHNR	available)

• •

				Teeds Rush	Concrete Sample		11		9 7.	8 T	-1	1. 7	5 7.	4 77	3 7	2 1		ľ	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE		Section D Required Client Information		Requested Due Date/TAT:	(2919) 871-0999	Jeff Corson	Raleigh, NC	Address: E. Millbra	Company: CARDNO	Required Client Information:	Microseeps
		0		SH RESULTS:	0.597	ADDITIONAL COMMENTS		CSP-1	T3C	TSB	T3A	.20	T28	TZA	C	B	IA			Water Water Waste Water Product Soil/Solid	Matrix Codes MATRIX / CODE			Fax:	Corson@cardno.com		NR Rd. Suite 121	ATC		
		ORIGINAL			1 Flanch	RELIN		SL 0	N.								ST C	┝			to left)		Project Number: 4	Project Name: Gr	Purchase Order No.:		Copy To: Gare	Report To: Jeff (Required Project Information:	Section B
	T	SAI			H Staneil	RELINGUISHED BY / AFFILIATION		G 10/2/14 14:45	<	ch: 6	9:	9;20	9:10	9:00	00 04	8:40	a 10/2/148:30	DAIE		COMPOSITE	1. A		15.19873.	areenville			copy To Garrett. Stanulle cardno. com	left, Corson Ecgidnoicom	or:nation:	
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SIGNATURE of SAMPLER:	PRINT Name of SAMPLER: (D SIGNATURE			1/2/14	DATE										10.00			SAMPLE TEMP AT	COLLECTION			Fac	Ma	Ref			Atte	Inv	Se
Danit Starre	Ganet				15:00 (BWIL					4								# OF CONTAINER Unpreserved H ₂ SO ₄ HNO ₃		Prese		Ce Profile #:	Manager:	Reference:	Audiess.	Company Name:	Attention:	Invoice Information:	Section C
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14					4 800	TIME																tered (Y/N)			- ACRA	1 -	RYAC			Page:
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F-ALL-Q-020rev.07, 15-May-2007	ealed	stody d Coole (/N)	er	2	ک	SAMPLE CONDITIONS			COLLA	N COT							1		ק כ כ(לא כ) Pace Project No./ Lab I.D	Š						OTHER	DRINKING WATER		50	-
		es Inta (/N)	ict		×	NS			Flan	びと									/ Lab I.D.	3							NATER			Pa



Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

October 14, 2014

Chemical Testing Engineer NCDOT Materials & Tests Unit 1801 Blue Ridge Road Raleigh, NC 27607

RE: Project: Greenville DOT U3315 35781.12 Pace Project No.: 92219433

Dear Chemical Engineer:

Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kri Dod-

Kevin Godwin kevin.godwin@pacelabs.com Project Manager

Enclosures

cc: Jeff Corson, Cardno ATC



REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

CERTIFICATIONS

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219433

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 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 West Virginia Certification #: 357 Virginia/VELAP Certification #: 460221



SAMPLE ANALYTE COUNT

Project:Greenville DOT U3315 35781.12Pace Project No.:92219433

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92219433001	SSP-1	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	ACS	1	PASI-C



PROJECT NARRATIVE

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219433

Method: EPA 8015 Modified Description: 8015 GCS THC-Diesel

Client:NCDOT North EastDate:October 14, 2014

General Information:

1 sample was analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: OEXT/30198

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92219314001

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 1296485)
- Diesel Range Organics(C10-C28)
- MSD (Lab ID: 1296486)

Diesel Range Organics(C10-C28)

- R1: RPD value was outside control limits.
 - MSD (Lab ID: 1296486)
 - Diesel Range Organics(C10-C28)

Additional Comments:



PROJECT NARRATIVE

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219433

Method: EPA 8015 Modified

Description:Gasoline Range OrganicsClient:NCDOT North EastDate:October 14, 2014

General Information:

1 sample was analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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



ANALYTICAL RESULTS

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219433

Sample: SSP-1	Lab ID: 92219433	001 Collected: 09/30/	14 10:00	Received: 10)/01/14 09:45	Matrix: Solid	
Results reported on a "dry-weight"	basis						
Parameters	ResultsU	nits Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: E	PA 8015 Modified Prepar	ation Me	ethod: EPA 3546			
Diesel Range Organics(C10-C28) Surrogates	92.8 mg/kg	7.3	1	10/01/14 15:35	10/02/14 17:27	7	
n-Pentacosane (S)	51 %	41-119	1	10/01/14 15:35	10/02/14 17:27	629-99-2	
Gasoline Range Organics	Analytical Method: E	PA 8015 Modified Prepar	ation Me	ethod: EPA 5035A	\/5030B		
Gas Range Organics (C6-C10) <i>Surrogates</i>	323 mg/kg	67.5	10	10/10/14 10:00	10/14/14 00:22	2	
4-Bromofluorobenzene (S)	86 %	70-167	10	10/10/14 10:00	10/14/14 00:22	2 460-00-4	
Percent Moisture	Analytical Method: A	STM D2974-87					
Percent Moisture	31.4 %	0.10	1		10/03/14 13:11	l	



Project: Greenville D Pace Project No.: 92219433	OT U3315 3	5781.12									
QC Batch: GCV/8647			Analys	is Method:	E	PA 8015 Mo	dified				
QC Batch Method: EPA 5035/	V5030B			is Descript		Sasoline Ran					
Associated Lab Samples: 922	19433001			·			0 0				
METHOD BLANK: 1303867			Ν	/latrix: Soli	id						
Associated Lab Samples: 922	19433001										
			Blank	K R	eporting						
Parameter		Units	Resul	t	Limit	Analyz	ed	Qualifiers			
Gas Range Organics (C6-C10)	mg/kg			ND	6.0	10/13/14	16:45				
4-Bromofluorobenzene (S)	%			84	70-167	10/13/14	16:45				
_ABORATORY CONTROL SAME	PLE: 13038	68									
			Spike	LCS	5	LCS	% Re	C			
Parameter		Units	Conc.	Resu	ılt	% Rec	Limits	s Q	ualifiers		
Gas Range Organics (C6-C10)	mg/kg		50		50.1	100	70)-165		•	
4-Bromofluorobenzene (S)	%					85	70)-167			
MATRIX SPIKE & MATRIX SPIKI	E DUPLICATI	E: 13038	69		1303870						
			MS	MSD							
	922	19858006	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Gas Range Organics (C6-C10)	mg/kg	ND	67.4	67.4	92.9	90.3	138	134	-	3	
1-Bromofluorobenzene (S)	%						91	91	70-167		

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



Project: Greenv Pace Project No.: 922194	lle DOT U3315 3 33	5781.12									
QC Batch: OEXT	/30198		Analys	is Method:	E	PA 8015 Mo	dified				
QC Batch Method: EPA 3	546		Analys	is Descript	ion: 80	015 Solid G	CSV				
Associated Lab Samples:	92219433001										
METHOD BLANK: 129648	3		Ν	latrix: Soli	d						
Associated Lab Samples:	92219433001										
Parameter		Units	Blank Result		eporting Limit	Analyz	ed	Qualifiers			
Diesel Range Organics(C10- n-Pentacosane (S)	C28) mg/kg %			ND 62	5.0 41-119		-		_		
LABORATORY CONTROL S	AMPLE: 12964	184									
Parameter		Units	Spike Conc.	LCS Resu		LCS % Rec	% Reo Limits		ualifiers		
Diesel Range Organics(C10	, 00		66.7		42.7	64		9-113		-	
n-Pentacosane (S)	%					71	41	I-119			
MATRIX SPIKE & MATRIX S	PIKE DUPLICAT	E: 12964	85 MS	MSD	1296486						
	922	219314001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Diesel Range Organics(C10- C28)	mg/kg	500	97.6	97.6	503	241	3	-266	10-146	70	M3,R1
n-Pentacosane (S)	%						78	70	41-119		

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



Project: Pace Project No.:	Greenville DOT U 92219433	3315 35781.12					
QC Batch: QC Batch Method:	PMST/7089 ASTM D2974-87	Analysis Meth Analysis Desc	ASTM D2974-87 Dry Weight/Percent Moisture				
Associated Lab Sar	nples: 92219433	3001					
SAMPLE DUPLICA	TE: 1298209			_			
Parar	neter	Units	92219200002 Result	Dup Result	RPD	Q	alifiers
Percent Moisture		%	23.3	3	5.0	40 R1	
SAMPLE DUPLICA	TE: 1298210						
Paran		Units	92219599002 Result	Dup Result	RPD	Q	ualifiers
Percent Moisture		%	92.2	92	2.2	0	

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



QUALIFIERS

Project: Greenville DOT U3315 35781.12

Pace Project No.: 92219433

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

- M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
- R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:Greenville DOT U3315 35781.12Pace Project No.:92219433

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92219433001	SSP-1	EPA 3546	OEXT/30198	EPA 8015 Modified	GCSV/19064
92219433001	SSP-1	EPA 5035A/5030B	GCV/8647	EPA 8015 Modified	GCV/8649
92219433001	SSP-1	ASTM D2974-87	PMST/7089		

Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2								
a door whay their	Document Number:	Issuing Authority: Pace Huntersville Quality Office								
ı	F-CHR-CS-003-rev.15	Pace Humersville Quality Office								
Client Name: Cardno	D ATC									
	PS Client Commercial Pace Other	Optional								
Custody Seal on Cooler/Box Presen	t: 🗌 yes 🖉 no Seals intact: 🗌 yes	no Proj. Due Date:								
Packing Material: Bubble	Bubble Bags 🗌 None 🗌 Other									
Thermometer Used: IR Gun (T140)	Type of Ice: Wet Blue None	Samples on ice, cooling process has begun								
Temp Correction Factor T1401 N	lo Correction									
Corrected Cooler Temp.: <u>4-6</u> Temp should be above freezing to 6°C	C Biological Tissue is Frozen: Yes No Comments;	Date and Initials of person examining contents: <u><u><u></u></u><u><u></u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u>								
Chain of Custody Present:	XEPres □No □N/A 1.									
Chain of Custody Filled Out:	Pres □No □N/A 2.									
Chain of Custody Relinquished:	Yes DNO DN/A 3.	4								
Sampler Name & Signature on COC:	5ØPes □N0 □N/A 4.									
Samples Arrived within Hold Time:	→ → → → → → → → → → → → → → → → → → →									
Short Hold Time Analysis (<72hr):	□Yes 940 □N/A 6.	•								
Rush Turn Around Time Requested	: □Yes 9440 □N/A 7.									
Sufficient Volume:	→ → → → → → → → → → → → → → → → → → →									
Correct Containers Used:	Effes DNO DN/A 9.									
-Pace Containers Used:										
Containers Intact:	Yes DNo DN/A 10.									
Filtered volume received for Dissolved		a na								
Sample Labels match COC:	Pres INO IN/A 12.	,								
-Includes date/time/ID/Analysis All containers needing preservation have bee	Matrix: In checkedYesNo V2N/A 13.	n ng gangarité ng tinggan ng gangarité ng tinggan ng gangarité ng tinggan ng gangarité ng tinggan ng gang ng pang ng gang ng pangarité ng tinggan ng pangarité ng tinggan ng pangarité ng tinggan ng pangarité ng tinggan ng pang								
All containers needing preservation are for compliance with EPA recommendation		a page a s								
exceptions: VOA, coliform, TOC, O&G, WI-DRC	C :									
Samples checked for dechlorination:										
Headspace in VOA Vials (>6mm):	□Yes □No XA/A 15.									
Trip Blank Present:	□Yes □No ARIA 16.									
Trip Blank Custody Seals Present	L'Yes DNO XAM/A									
Puce Trip Blank Lot # (if purchased):		4. (SSN)								
Client Notification/ Resolution:		Field Data Required?								
Person Contacted:	Date/Time:									
Comments/ Resolution:		<u></u>								
		Place label have								
SCURF Review:	Date: $\frac{10}{1}$ /1/1/	:92219433								
Note: Whenever there is a discrepancy	affecting North Carolina compliance									
samples, a copy of this form will be s Certification Office (i.e out of hold, ir incorrect co	ent to the North Carolina DEHNR ncorrect preservative, out of temp,	3								

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SIGNATORE	PRINT Name of SAMPLER:	SAMPLER NAME AND SIGNATURE			Atomed	BY / AFFILIATION												14 10; 00 +	ART	COLLECTED		19873,0667	ille NCDOT		· · · · · · · · · · · · · · · · · · ·	Stan cillecardo	Corson @ cardno.com			CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.
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Important Note: By signing this form you are accepting Pace's NET 30 day payment