PARTNER

PHASE II SUBSURFACE INVESTIGATION REPORT

500 West 5th Street
Winston-Salem, North Carolina 27101

March 4, 2015
Partner Project Number: 14-131345.4

Prepared for:

Grubb Properties, Inc.
4500 Cameron Valley Parkway, Suite 350
Charlotte, North Carolina 28211

Engineers who understand your business

PARTNER

March 4, 2015

Dan Schumacher
Grubb Properties, Inc.
4500 Cameron Valley Parkway, Suite 350
Charlotte, North Carolina 28211

Subject: Phase II Subsurface Investigation Report
500 West 5th Street
Winston-Salem, North Carolina 27101
Partner Project Number: 14-131345.4

Dear Mr. Schumacher:

The following report describes the field activities, methods, and findings of the Phase II Subsurface Investigation conducted by Partner Engineering North Carolina, PLLC (Partner) at the above-referenced property. The objectives of the investigation were to:

- Investigate whether underground storage tanks (USTs) related to the former filling station remain on the subject property;
- Evaluate whether the former filling station on the southwest portion of the subject property has resulted in impacts by petroleum hydrocarbons to soil and/or groundwater;
- Evaluate the integrity of the 2,000-gallon diesel UST on the east side of the subject property; and,
- Evaluate the integrity of the 2,000-gallon waste oil UST on the east side of the subject property.

Grubb Properties, Inc. approved this scope of work and provided project authorization of Partner Proposal Number P14-131345.4.

Site Description

The subject property consists of one parcel totaling approximately 2.171 acres. It occupies the block bound to the north by West 5th Street, to the south by West 4th Street, to the west by Poplar Street Northwest, and to the east by Spruce Street North. The subject property is located in a mixed commercial/retail/residential area of downtown Winston-Salem, North Carolina and is currently developed with an unoccupied office building the south tower of which was constructed in 1951, and the north tower of which was constructed in 1980. In addition to the structures, the subject property is also improved with asphalt-paved parking areas and associated landscaping.

The subject property is currently occupied by vacant commercial office buildings. On-site operations consist of routine building maintenance. The subject property consists of one 21-story building with a basement (North Tower), one six-story building with a basement (South Tower), and one single-story building which houses the emergency generator. In addition to the current structures, the subject property is also improved with landscaping and concrete walkways on the north end, and an asphalt parking area on the south end

The subject property is bound by First Baptist Church across West 5th Street to the north; The Lowrey Building across West 4th Street to the south, the Winston-Salem Journal, an unoccupied historic domicile, and Chamber Plaza retail building across Spruce Street to the east, and a paved asphalt parking lot and a concrete parking structure across Poplar Street Northwest to the west. Refer to Figure 1 for a site plan showing site features and surrounding properties.

Site History

Partner completed a Phase I Environmental Site Assessment (Phase I) Report for the subject property, dated January 8, 2015, on behalf of Grubb Properties, Inc.

As documented in the Phase I report, according to available historical sources, the subject property was developed with residential dwellings as early as 1885; developed with residences and a church between 1885 and at least 1917; developed with residential and commercial structures from as early as 1917 to at least 1969, and developed with the current three structures in 1950, 1980, and 1999 for the South Tower, North Tower, and Emergency Generator Building, respectively. Tenants on the subject property have included a filling station (at least 1950 to at least 1957), Integon Insurance (at least 1987 to at least 2008) and GMAC Insurance (at least 2008 to 2013).

According to the Phase I, the subject property is equipped with one 2,000-gallon diesel fuel UST on its east side between the north and south tower. The 2,000-gallon UST was installed in 2005 and is constructed of steel-clad fiberglass reinforced plastic (FRP). The diesel UST provides fuel for the North Tower emergency generator. Based on the age of the tank and limited additional information regarding construction and potential leakage, the diesel fuel UST was identified as a recognized environmental condition.

Historical Sanborn Fire Insurance Maps dated 1950 and 1957 depicted a filling station with four tanks located on the southwest corner of the subject property. There is no regulatory record of the filling station or any related environmental investigation. Further, information regarding a monitoring well located on the southwest portion of the subject property (in the area of the former fill station), associated with the adjoining western property groundwater investigation (Leaking Underground Storage Tank (LUST) Incident #8943), indicated naphthalene and bis(2-ethylhexyl)phthalate were detected in groundwater at the subject property. The on-site well was installed as an up-gradient well for the adjoining property, and therefore, the naphthalene and bis(2-ethylhexyl)phthalate likely did not originate at the release associated with the adjoining site. As such, the source of on-site groundwater impacts has not been identified and is potentially associated with a release from the subject property. The historical use of the subject property as a gasoline filling station, and the potentially associated groundwater impacts previously identified on site, were considered recognized environmental conditions where further investigation was warranted.

The Phase I also identified a 2,000-gallon waste oil UST, designed to contain transformer oil in the event of a rupture of on-site transformers, that has been located on the east side of the subject property since approximately 1980. Since this tank is used solely for emergency purposes and is otherwise empty, the

waste oil UST is considered a *de minimis* environmental concern. A 12,000-gallon diesel UST, which fuels the emergency generator for the South Tower, was observed in the south parking lot. This UST was the subject of recent inspections, which did not reveal any leaks, and therefore was not considered a recognized environmental condition.

Aside from the three current USTs, two former USTs were also identified. A former 10,000-gallon diesel UST has been closed in-place on the west side of the subject property, and a former 2,000-gallon diesel UST was removed when the current 2,000-gallon diesel UST replaced it on the east side of the subject property. Both of these USTs were the subjects of previous investigations that revealed soil impacts. The resultant UST Section incidents were closed with a Notice of Residual Petroleum, and are considered a controlled recognized environmental condition.

Geology and Hydrogeology

According to the Geologic Map of North Carolina (1985), the project site is located within the Milton Belt Region. The Milton Belt consists of gneisses, schist, and metamorphosed intrusive rocks. The Milton Belt Region lies in the Piedmont Province which is characterized by gently rolling well rounded hills and long low ridges with a few feet of elevation difference between the hills and the valleys. More specifically, the site is underlain by the biotite and gneiss schist. Refer to Figure 2 for a topographic map of the site vicinity.

According to the *Soil and Groundwater Assessment Report* prepared for the adjoining Fourth Street Parking Deck by Aquaterra, Inc. (July 9, 1991), the depth and direction of groundwater in the vicinity of the subject property was approximately 43-44 feet below ground surface (bgs) and inferred to flow to the southwest.

Based on borings advanced during this investigation, the upper 20 to 30 feet of the subsurface consists predominantly of orange silt and silty clay, which is underlain by light brown and mottled purple silt to medium sand.

Groundwater was not encountered during this investigation, as bedrock refusal occurred between 29 feet bgs and 37 bgs in the borings drilled. Refer to Appendix A for boring logs from this investigation.

Pre-Field Activities

Prior to the initiation of fieldwork, Partner completed the following activities:

Utility Clearance

Partner notified NC811 to clear public utility lines as required by law at least three business days prior to drilling activities. NC811 issued ticket number C150351249 for the project.

Field Activities

Refer to Table 1 for a summary of the borings, sampling schedule and laboratory analyses for this investigation. The scope of the Phase II Subsurface Investigation included a geophysical survey and the advancement of four borings (B01 through B04) for the collection of representative soil and groundwater

samples. As bedrock refusal occurred at each boring prior to encountering groundwater, groundwater samples were not collected.

Underground Storage Tank Tightness Testing

On February 10, 2015, Precision Tank Services, Inc. (PTS) of Cornelius, North Carolina conducted UST tightness testing under the supervision of Partner. When attempting to test the empty 2,000-gallon waste oil UST, PTS discovered that the wood and fiberglass lid covering the UST tankhold was installed upside down, such that the handle designed for removing the lid was inside the tankhold. Additionally, the condition of the lid was deteriorated to the degree that removing it would result in its destruction. Because of these conditions, the empty waste oil UST was not tested.

When the 2,000-gallon diesel was inspected by PTS it was found to be double-walled fiberglass, and to have interstitial spill detection equipment. The spill detection equipment indicated that no release had occurred. To test the diesel UST, PTS applied a vacuum for eight minutes. The delivery and return lines were closed at the location of the pumps in the basement of the north tower, so that the underground portions of the lines would also be subjected to the vacuum and therefore tested along with the UST. After the eight-minute testing period, the vacuum was undiminished, indicating that neither the UST or subsurface portions of the lines have been compromised. A copy of the tightness testing report is included in Appendix B.

Geophysical Survey

On February 10, 2015, KCI Associates of North Carolina, P.A. (KCI) conducted a geophysical survey under the supervision of Partner. The purpose of the geophysical survey was to identify any USTs remaining in place and clear boring locations of utilities. The geophysical survey was conducted with electromagnetic induction (EM) equipment and ground penetrating radar (GPR) unit.

KCI systematically free-traversed the investigation area with the aforementioned equipment. The equipment data were interpreted in real time and compiled as necessary in order to identify subsurface anomalies consistent with USTs, disturbed soil resembling utility lines, and/or other subsurface conduits/features.

The geophysical survey identified several subsurface anomalies in the investigation area that were consistent with a former building location, but none that appeared to represent a UST. One linear feature, trending west-east near the south end of the investigation area was interpreted to be either a defunct utility or product piping.

Health and Safety Plan

Partner reviewed the site-specific Health and Safety Plan with on-site personnel involved in the project prior to the commencement of drilling activities.

Drilling Equipment

On February 10, 2015, Partner subcontracted with Probe Technology, Inc. of Concord, North Carolina (Probe Tech) to provide and operate drilling equipment. Probe-Tech, under the direction of Partner, advanced borings B01 through B04 with a track-mounted Geoprobe direct push rig. Sampling equipment was decontaminated between sample intervals and boring locations to prevent cross-contamination.

Boring Locations

Borings B01 through B04 were advanced in the southwest portion of the parking lot on the south end of the subject property, in the area formerly occupied by a filing station. Boring B01 was advanced near a subsurface anomaly on the east side of the inferred former filling station building location, and boring B02 was advanced on the west side of the area inferred to have been occupied by the former filling station building. Boring B03 was advanced next to the linear feature on the south end of the former filling station area, and boring B04 was advanced on the southwest corner of the former filling station area, in the inferred downgradient direction. Refer to Figure 3 for a map depicting boring locations.

Soil Sampling

All borings were overlain by asphalt, which was penetrated using a punch bit attachment advanced by the direct-push drill rig. Boring B01 was advanced to a terminal depth of 29 feet bgs; boring B02 was advanced to a terminal depth of 37 feet bgs, boring B03 was advanced to a terminal depth of 27.5 feet bgs, and boring B04 was advanced to a terminal depth of 36 feet bgs.

Soil samples were collected using a five-foot long by 2.25-inch diameter MacroCore sampler with a five-foot long polyvinyl chloride (PVC) liner, which was advanced by the direct-push drill rig using five-foot long by 1.5-inch diameter drill rods. The sampler was driven into the subsurface to allow undisturbed soil to enter the open MacroCore barrel and retrieved in five-foot intervals to recover the soil-filled liners.

A lengthwise section of each PVC liner was removed with a splitting tool to expose the soil. The soil column was visually inspected for discoloration, monitored for odors, and classified in accordance with the Unified Soil Classification System (USCS). The soil column was field-screened at one-foot intervals with a photoionization detector (PID) calibrated to isobutylene. None of the PID readings suggested the presence of elevated volatile organics concentrations. Please refer to Appendix A for boring logs.

Soil depths selected for laboratory analysis were sampled directly from the liners using laboratory-supplied vials and jars. The jars were filled with soil to capacity to minimize headspace and reduce the potential for volatilization. The jars and vials were labeled for identification and stored in an iced cooler.

In boring SB01, a sample was collected at 6.0 feet bgs, near the inferred base of the subsurface anamoly. As no elevated PID readings were observed, samples in borings B02, B03, and B04 were collected from just above the terminal depths, 36.0 feet bgs, 27.0 feet bgs, and 35.0 feet bgs, respectively.

Following sampling activities the boreholes were backfilled with hydrated bentonite chips following sampling activities. Boreholes advanced in improved areas were capped with asphalt patch to match existing ground cover after being backfilled.

No significant amounts of derived wastes were generated during this investigation.

Laboratory Analysis

Partner collected four soil samples on February 10, 2015, which were transported in an iced cooler under proper chain-of-custody protocol to Pace Analytical Services, Inc. of Charlotte, North Carolina, a North Carolina state-certified laboratory. The four soil samples were analyzed for total petroleum hydrocarbons – gasoline range organics (TPH-GRO) in accordance with EPA Method 8015.

Regulatory Agency Guidance

The North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management, Underground Storage Tank Section (UST Section) has established an Action Level of 10 milligrams per kilogram (mg/kg) for TPH-GRO in soil. Should THP-DRO exceed the Action Level, additional analyses are required to determine whether a release requiring remediation has occurred.

Laboratory Analytical Results

Laboratory analytical results are included in Appendix C and discussed below.

Soil Sample Analytical Results

None of the analyzed soil samples contained detectable concentrations of TPH-DRO.

Refer to Table 2 for a summary of the soil sample laboratory analysis results.

Discussion

The 2,000-gallon waste oil UST was not tested, due to the access limitations described above. However, as this UST is empty and has never been used, Partner does not expect that it has adversely impacted the subject property and no further investigation associated with the 2,000-gallon empty waste oil UST is warranted.

The 2,000-gallon diesel UST and subsurface portions of associated product and return lines passed tightness testing, and as such, Partner does not expect that it has adversely affected the subject property. As such, no further investigation associated with the 2,000-gallon diesel UST is warranted.

During advancement of the soil borings, no visual or olfactory evidence of a release was observed, and field-screening with a PID did not indicate the presence of VOCs. Additionally, TPH-GRO was not detected in any of the four soil samples. Coupled with the fact that the geophysical survey did not detect anomalies indicative of USTs in the former filling station area, Partner does not expect that the former filling station has adversely affected the subject property, and no further investigation associated with the former filling station is warranted.

Summary and Conclusions

Partner conducted a Phase II Subsurface Investigation at the subject property to investigate the potential impact of petroleum hydrocarbons as a consequence of a release or releases from a 2,000-gallon waste

oil UST, a 2,000-gallon diesel UST, and a former filling station. The scope of the Phase II Subsurface Investigation included UST tightness testing, a geophysical survey and four soil and borings. Four soil samples were analyzed for TPH-GRO.

The 2,000-gallon waste oil UST is empty and has never been used and does not pose a threat to the subject property.

The 2,000-gallon diesel UST and associated subsurface product and return lines passed tightness testing, indicating that they have not leaked.

The geophysical survey did not identify the presence of USTs and/or excavations and/or anomalies.

Field screening of soil borings did not indicate the presence of a petroleum or VOC release; further, THP-GRO was not detected in any of the soil borings.

Based on the results of the Subsurface Investigation, there is no evidence of a release of hazardous materials from the 2,000-gallon diesel UST or former filling station, and Partner recommends no further investigation with respect to these features at this time.

Limitations

This Report presents a summary of work conducted by Partner. The work includes observations of site conditions encountered and the analytical results provided by an independent third party laboratory of samples collected during the course of the project. The number and location of samples were selected to provide the required information. However, it cannot be assumed that the limited available data are representative of subsurface conditions in areas not sampled.

Conclusions and/or recommendations are based on the observations, laboratory analyses, and the governing regulations. Conclusions and/or recommendations beyond those stated and reported herein should not be inferred from this document.

Partner warrants that the environmental consulting services contained herein were accomplished in accordance with generally accepted practices in the environmental engineering, geology, and hydrogeology fields that existed at the time and location of work. No other warranties are implied or expressed.

Reports, both verbal and written, as they pertain to the property located at 500 West 5th Street in Winston-Salem, North Carolina, are for the sole use and benefit of Grubb Properties, Inc. This report has no other purpose and may not be relied upon by another person or entity without the written consent of Partner.

Signatures of Participating Professionals

Thank you for the opportunity to be of service. If you have questions regarding this investigation, please contact the undersigned at (310) 615-4500.

Sincerely,

PARTNER

Michael P. McKenna
Project Manager

Kristine M. MacWilliams, P.E.
Technical Director – Subsurface Investigation

Attachments:

Tables	1. Summary of Investigation Scope 2. Soil Sample TPH Laboratory Results
Figures	1. Site Plan 2. Topographic Map 3. Sample Location Map
Appendices	A. Boring Logs B. UST Tightness Testing Report C. Laboratory Analytical Reports

TABLES

PARTNER

Table 1: Summary of Investigation Scope
500 West 5th Street
Winston-Salem, North Carolina
Partner Project Number 14-131345.4
February 10, 2015

Boring Identification	Location	Terminal Depth (feet bgs)	Matrix Sampled	Sampling Depths* (feet bgs)	Target Contaminants
B01	Subsurface feature in the former filling station area	29.0**	Soil	6	TPH-GRO
B02	Former filling station area	37.0**	Soil	36	TPH-GRO
B03	Linear subsurface feature in the former filling station area	27.5**	Soil	27	TPH-GRO
B04	Southwest (downgradient) corner of the former filling station area	36.0**	Soil	35	TPH-GRO

Notes:

**Refusal encountered at the terminal depth

bgs = below ground surface

Table 2: Soil Sample TPH-DRO Laboratory Results
500 West 5th Street
Winston-Salem, North Carolina
Partner Project Number 14-131345.4
February 10, 2015

EPA Method	TPH-GRO via 8015M				
Units	(mg/kg)				
Chemical of Concern	Action Level	B01-6.0	B02-36.0	B03-27.0	B04-35.0
TPH-GRO	**10**	<6.9	<6.8	<7.0	<9.5

Notes:

TPH-GRO = total petroleum hydrocarbons - gasoline range

Action Level = North Carolina Department of Environmenta and Natural Resources Underground Storage Tank Section TPH-DRO Action Level

mg/kg = milligrams per kilogram

< = not detected above indicated laboratory Practical Quantitation Limit (PQL)

Values in **bold** exceed one or more regulatory guideline

FIGURES

FIGURE 1: SITE PLAN

Site Address:

500 West 5th Street
Winston-Salem, North Carolina

N

Key

Subject Property

Former Filling Station

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Project No. 14-131345.4

FIGURE 2: TOPOGRAPHIC MAP

Site Address:

500 West 5th Street
Winston-Salem, North Carolina

N

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(800) 419-4923

Project No. 14-131345.4

FIGURE 3: BORING LOCATIONS

Site Address:

500 West 5th Street
Winston-Salem, North Carolina

N

Key

Subject Property

Former Filling Station

Soil Boring Location

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Project No. 14-131345.4

APPENDIX A: BORING LOGS

PARTNER

Boring Number:	**B01**				Page 1 of 1
Location:	500 West 5th Street			Date Started:	2/10/2015
Site Address:	500 West 5th Street			Date Completed:	2/10/2015
	Winston-Salem NC			Depth to Groundwater:	NA
Project Number:	14-131345.4			Field Technician:	M. McKenna
Drill Rig Type:	Direct-Push			**Partner Engineering and Science**	
Sampling Equipment:	PVC liner			8000 Corporate Center Drive Suite 104	
Borehole Diameter:	2.25"			Charlotte, North Carolina 28226	

Depth	Sample	PID	USCS	Description	Notes
1		0.0		0.0'-0.5': Asphalt	
2		0.0			
3		0.0	CL	0.5'-4.0': Orange sandy clay. Micaceous. Dry.	
4		0.0			
5		0.0	ML	4.0'-5.5': Orange silt. Micaceous. Dry.	
6	B01-6.0	0.0			
7		0.0			
8		0.0			
9		0.0	ML	5.5'-13.0': Light purple clayey silt. Micaceous. Dry.	
10		0.0			
11		0.0			
12		0.0			
13		0.0			
14		0.0	SC	13.0'-14.2': Light orange silty fine sand. Dry.	
15		0.0	CL	14.2'-15.0': Orange silty clay. Few pebbles. Dry	
16		0.0			
17		0.0			
18		0.0			
19		0.0	SM	15.0'-23.0': Light purple silty fine sand. Micaceous. Dry	
20		0.0			
21		0.0			
22		0.0			

Boring Number:	**B01**				Page 1 of 1
Location:	500 West 5th Street			Date Started:	2/10/2015
Site Address:	500 West 5th Street			Date Completed:	2/10/2015
	Winston-Salem NC			Depth to Groundwater:	NA
Project Number:	14-131345.4			Field Technician:	M. McKenna
Drill Rig Type:	Direct-Push			**Partner Engineering and Science**	
Sampling Equipment:	PVC liner			8000 Corporate Center Drive Suite 104	
Borehole Diameter:	2.25"			Charlotte, North Carolina 28226	

Depth	Sample	PID	USCS	Description	Notes
23		0.0			
24		0.0	SM	23.0'-25.0': Light brown silty fine to medium sand. Dry	
25		0.0			
26					
27			SM	25.0'-28.0': Light orange silty fine to medium sand. Micaceous. Biotite pebble zones. Dry.	
28					
29			SM	28.0'-29.0': Speckled black and gray fine to medium sand and weathered biotite. Dry	
30				Bottom of Boring: 29.0'	
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Boring Number:	**B02**				Page 1 of 1
Location:	500 West 5th Street			Date Started:	2/10/2015
Site Address:	500 West 5th Street			Date Completed:	2/10/2015
	Winston-Salem NC			Depth to Groundwater:	NA
Project Number:	14-131345.4			Field Technician:	M. McKenna
Drill Rig Type:	Direct-Push			**Partner Engineering and Science**	
Sampling Equipment:	PVC liner			8000 Corporate Center Drive Suite 104	
Borehole Diameter:	2.25"			Charlotte, North Carolina 28226	

Depth	Sample	PID	USCS	Description	Notes
1		0.0		0.0'-0.5': Asphalt	
2		0.0	CL	0.5'-2.5': Orange silty clay. Dry.	
3		0.0	ML	2.5'-3.5': Orange clayey silt. Dry.	
4		0.0			
5		0.0			
6		0.0			
7		0.0			
8		0.0			
9		0.0			
10		0.0			
11		0.0	SM	3.5'-18.0': Light purple silty fine sand. Micaceous. Dry. Interbedded light orange weathered biotite-rich granite from 15.0'-18.0'.	
12		0.0			
13		0.0			
14		0.0			
15		0.0			
16		0.0			
17		0.0			
18		0.0			
19		0.0			
20		0.0			
21		0.0	CL	18.0'-24.5': Purple-, light orange-, and black-mottled clayey silt to fine sand. Dry.	
22		0.0			
23		0.0			
24		0.0			
25		0.0			

Boring Number:	**B02**		Page 1 of 1
Location:	500 West 5th Street	Date Started:	2/10/2015
Site Address:	500 West 5th Street	Date Completed:	2/10/2015
	Winston-Salem NC	Depth to Groundwater:	NA
Project Number:	14-131345.4	Field Technician:	M. McKenna
Drill Rig Type:	Direct-Push	**Partner Engineering and Science**	
Sampling Equipment:	PVC liner	8000 Corporate Center Drive Suite 104	
Borehole Diameter:	2.25"	Charlotte, North Carolina 28226	

Depth	Sample	PID	USCS	Description	Notes
26		0.0		24.5'-28.5': Weathered granitic rock. Dry.	
27		0.0			
28		0.0			
29		0.0			
30		0.0	CL	28.5'-30.0': Orange silty clay. Moist.	
31		0.0			
32		0.0			
33		0.0			
34		0.0	SM	30.0'-37.0': Orange-, purple-, brown-, and black-mottled clayey silt to medium sand. Moist.	
35		0.0			
36	B02-36.0	0.0			
37		0.0			
38				Bottom of boring: 37.0'	
39					
40					

Boring Number:	**B03**				Page 1 of 1
Location:	500 West 5th Street			Date Started:	2/10/2015
Site Address:	500 West 5th Street			Date Completed:	2/10/2015
	Winston-Salem NC			Depth to Groundwater:	NA
Project Number:	14-131345.4			Field Technician:	M. McKenna
Drill Rig Type:	Direct-Push			**Partner Engineering and Science**	
Sampling Equipment:	PVC liner			8000 Corporate Center Drive Suite 104	
Borehole Diameter:	2.25"			Charlotte, North Carolina 28226	

Depth	Sample	PID	USCS	Description	Notes
1		0.0		0.0'-0.5': Asphalt	
2		0.0			
3		0.0	CL	0.5'-5.0': Orange silty clay. Dry.	
4		0.0			
5		0.0			
6		0.0			
7		0.0			
8		0.0			
9		0.0	SC	5.0'-12.0': Orange silt. Micaceous. Dry.	
10		0.0			
11		0.0			
12		0.0			
13		0.0			
14		0.0			
15		0.0	SM	12.0'-17.5': Light purple silty fine sand. Micaceous. Dry.	
16		0.0			
17		0.0			
18		0.0			
19		0.0	SM	17.5'-20.0': Light orange silt to fine sand. Weathered biotite pebbles. Dry.	
20		0.0			
21		0.0			
22		0.0			
23		0.0			
24		0.0	SM	20.0'-25.0': Light purple-, light orange-, and tan-mottled silt to fine sand. Dry.	
25		0.0			

Boring Number:	**B03**				Page 1 of 1
Location:	500 West 5th Street			Date Started:	2/10/2015
Site Address:	500 West 5th Street			Date Completed:	2/10/2015
	Winston-Salem NC			Depth to Groundwater:	NA
Project Number:	14-131345.4			Field Technician:	M. McKenna
Drill Rig Type:	Direct-Push			**Partner Engineering and Science**	
Sampling Equipment:	PVC liner			8000 Corporate Center Drive Suite 104	
Borehole Diameter:	2.25"			Charlotte, North Carolina 28226	

Depth	Sample	PID	USCS	Description	Notes
26		0.0			
27	B03-27.0	0.0			
28		0.0			
29				Bottom of boring: 27.5'	
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Boring Number:	**B04**				Page 1 of 1
Location:	500 West 5th Street			Date Started:	2/10/2015
Site Address:	500 West 5th Street			Date Completed:	2/10/2015
	Winston-Salem NC			Depth to Groundwater:	NA
Project Number:	14-131345.4			Field Technician:	M. McKenna
Drill Rig Type:	Direct-Push			**Partner Engineering and Science**	
Sampling Equipment:	PVC liner			8000 Corporate Center Drive Suite 104	
Borehole Diameter:	2.25"			Charlotte, North Carolina 28226	

Depth	Sample	PID	USCS	Description	Notes
1		0.0		0.0'-0.5': Asphalt	
2		0.0			
3		0.0			
4		0.0	CL	0.5'-6.5': Orange silty clay. Micaceous. Dry.	
5		0.0			
6		0.0			
7		0.0			
8		0.0	SC	6.5'-10.0': Orange clayey silt to fine sand. Micaceous. Dry.	
9		0.0			
10		0.0			
11		0.0			
12		0.0			
13		0.0	SM	10.0'-15.0': Light purple silt to fine sand. Micaceous. Dry.	
14		0.0			
15		0.0			
16		0.0			
17		0.0			
18		0.0			
19		0.0			
20		0.0			
21		0.0		15.0'-27.5': Light purple- and orange-mottled silty clay. Micaceous. Dry.	
22		0.0	CL		
23		0.0			
24		0.0			
25		0.0			

Boring Number:	**B04**				Page 1 of 1
Location:	500 West 5th Street			Date Started:	2/10/2015
Site Address:	500 West 5th Street			Date Completed:	2/10/2015
	Winston-Salem NC			Depth to Groundwater:	NA
Project Number:	14-131345.4			Field Technician:	M. McKenna
Drill Rig Type:	Direct-Push			**Partner Engineering and Science**	
Sampling Equipment:	PVC liner			8000 Corporate Center Drive Suite 104	
Borehole Diameter:	2.25"			Charlotte, North Carolina 28226	

Depth	Sample	PID	USCS	Description	Notes
26		0.0			
27		0.0			
28		0.0		27.5'-29.0': Light brown silt. Micaceous. Dry.	
29		0.0	ML		
30		0.0		29.0'-30.0': Weathered biotite-rich granitic rock. Dry.	
31		0.0			
32		0.0	SP	30.0'-32.5': Light brown fine to medium sand. Micaceous. Dry.	
33		0.0			
34		0.0			
35	B04-35.0	0.0		32.5'-36.0': Weathered biotite-rich granitic rock. Dry.	
36		0.0			
37				Bottom of boring: 36.0'	
38					
39					
40					

APPENDIX B: UST TIGHTNESS TESTING REPORT

PARTNER

EZY 3 LOCATOR PLUS

PRESSURE CALCULATION & WATER SENSOR CALIBRATION

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATA SHEET

DATE: 2/10/2015

PBS # (NEW YORK): PARTNER ENGINEERING & SCIENCE. INC

TOTAL TANK VOL.: 2000

TANK #: 1 150210A-50

PRODUCT VOL.:

LOCATION: GMAC BUILDING

ULLAGE VOL.:

500 W. 5TH STREET

PRODUCT TYPE: Diesel

WINSTON SALEM, NC

PRESSURE SENSOR CALCULATION

23 (INCHES OF PRODUCT)	x .031 (WEIGHT OF PRODUCT)	= .713	PSI (1)
(INCHES OF WATER IN TANK)	x .036	=	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank		= .713	PSI (3)
(INCHES OF WATER OUTSIDE TANK)	x .036	=	PSI (4)
Total Head Pressure Minus Outside Water Pressure		= .713	+/-PSI (5)
Always add .5 PSI		+ 1.213	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI			
TEST PRESSURE		= -1.24	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	9:16	0
Test Pressure Reached:	9:19	-1.24
Blower Turned Off:	9:22	-1.24
Test Began:	9:22	-1.24
Test Ended:	9:24	-1.24

Depth of Groundwater Determined:

By: DWT

Where: DWT

WATER SENSOR CALIBRATION

Added: Cal #1 Cal #2 Cal #3

Average:

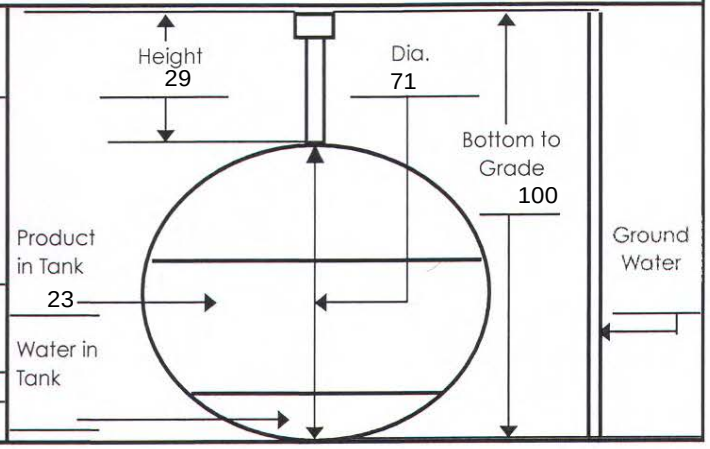
Calculation for Test Period:

(Ave. Cal.) 3780 = ("A" Factor) .05 60 (Min) Time of Test

WATER INTRUSION TEST PERIOD

Began:

Ended:



notes

EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE 2/10/2015

PBS # (NEW YORK) PARTNER ENGINEERING & SCIENCE. INC

TOTAL TANK VOL. 2000

TANK # 1

PRODUCT VOL. _____

LOCATION GMAC BUILDING

ULLAGE VOL. _____

500 W. 5TH STREET

PRODUCT TYPE Diesel

WINSTON SALEM, NC

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X TIGHT TANK

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE _____

Operator Information:

Print Name Don Reeves

Certification # 94-7353

Sign Name D Reeves

Expiration Date 08/10/2015

Testing Firm Precision Tank Service, Inc.

Telephone # 800-533-8039

Address P.O. Box 2040

Cornelius, NC 28031

NEW YORK STATE REQUIREMENT: A DIAGRAM OF THE TANK SYSTEM MUST BE SUBMITTED TO THE STATE WITH THIS REPORT.

Rev: 04/2001

APPENDIX C: LABORATORY ANALYTICAL REPORT

PARTNER

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

February 16, 2015

Mike McKenna
Partner ESI
8000 Corporate Center Drive
Charlotte,

RE: Project: 14-131345.5
Pace Project No.: 92237616

Dear Mike McKenna:
Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2015. 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,

Kevin Herring
kevin.herring@pacelabs.com
HORIZON Database Administrator

Enclosures

cc: Bruce Dalton, Partner ESI
Billing Dept., Partner Engineering and Science

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 14-131345.5
Pace Project No.: 92237616

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 14-131345.5
Pace Project No.: 92237616

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92237616001	**B01-6.0**	EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92237616002	**B02-36.0**	EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92237616003	**B03-27.0**	EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92237616004	**B04-35.0**	EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	EJK	1	PASI-C

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: 14-131345.5
Pace Project No.: 92237616

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92237616001	**B01-6.0**					
ASTM D2974-87	Percent Moisture	10.2	%	0.10	02/16/15 11:07	
92237616002	**B02-36.0**					
ASTM D2974-87	Percent Moisture	22.5	%	0.10	02/16/15 11:07	
92237616003	**B03-27.0**					
ASTM D2974-87	Percent Moisture	8.0	%	0.10	02/16/15 11:08	
92237616004	**B04-35.0**					
ASTM D2974-87	Percent Moisture	7.9	%	0.10	02/16/15 11:08	

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

PROJECT NARRATIVE

Project: 14-131345.5
Pace Project No.: 92237616

Method: **EPA 8015 Modified**
Description: Gasoline Range Organics
Client: Partner Engineering and Science
Date: February 16, 2015

General Information:
4 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.

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

ANALYTICAL RESULTS

Project: 14-131345.5
Pace Project No.: 92237616

Sample: B01-6.0 **Lab ID: 92237616001** Collected: 02/10/15 10:54 Received: 02/12/15 17:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gas Range Organics (C6-C10)	ND	mg/kg	6.9	1	02/13/15 08:48	02/13/15 17:50		
Surrogates								
4-Bromofluorobenzene (S)	83	%	70-167	1	02/13/15 08:48	02/13/15 17:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.2**	%	0.10	1		02/16/15 11:07		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 14-131345.5
Pace Project No.: 92237616

Sample: B02-36.0 **Lab ID: 92237616002** Collected: 02/10/15 11:40 Received: 02/12/15 17:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gas Range Organics (C6-C10)	ND	mg/kg	6.8	1	02/13/15 08:48	02/13/15 18:16		
Surrogates								
4-Bromofluorobenzene (S)	87	%	70-167	1	02/13/15 08:48	02/13/15 18:16	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.5**	%	0.10	1		02/16/15 11:07		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 14-131345.5
Pace Project No.: 92237616

Sample: B03-27.0 **Lab ID: 92237616003** Collected: 02/10/15 13:32 Received: 02/12/15 17:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gas Range Organics (C6-C10)	ND	mg/kg	7.0	1	02/13/15 08:48	02/13/15 18:42		
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-167	1	02/13/15 08:48	02/13/15 18:42	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.0**	%	0.10	1		02/16/15 11:08		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 14-131345.5
Pace Project No.: 92237616

Sample: B04-35.0 **Lab ID: 92237616004** Collected: 02/10/15 14:40 Received: 02/12/15 17:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gas Range Organics (C6-C10)	ND	mg/kg	9.5	1	02/13/15 08:48	02/13/15 19:08		
Surrogates								
4-Bromofluorobenzene (S)	83	%	70-167	1	02/13/15 08:48	02/13/15 19:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.9**	%	0.10	1		02/16/15 11:08		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 14-131345.5
Pace Project No.: 92237616

QC Batch: GCV/9004 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92237616001, 92237616002, 92237616003, 92237616004

METHOD BLANK: 1390990 Matrix: Solid
Associated Lab Samples: 92237616001, 92237616002, 92237616003, 92237616004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	02/13/15 12:06	
4-Bromofluorobenzene (S)	%	83	70-167	02/13/15 12:06	

LABORATORY CONTROL SAMPLE: 1390991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50	52.6	105	70-165	
4-Bromofluorobenzene (S)	%			85	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1390992 1390993

Parameter	Units	92237025004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gas Range Organics (C6-C10)	mg/kg	ND	44.4	44.4	57.2	47.4	129	107	47-187	19	
4-Bromofluorobenzene (S)	%						85	86	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 14-131345.5
Pace Project No.: 92237616

QC Batch: PMST/7525 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92237616001, 92237616002, 92237616003, 92237616004

SAMPLE DUPLICATE: 1391534

Parameter	Units	92237439001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	10.4	11.2	7	

SAMPLE DUPLICATE: 1391535

Parameter	Units	92237570005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.2	22.4	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

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

QUALIFIERS

Project: 14-131345.5
Pace Project No.: 92237616

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.

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

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14-131345.5
Pace Project No.: 92237616

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92237616001	**B01-6.0**	EPA 5035A/5030B	GCV/9004	EPA 8015 Modified	GCV/9007
92237616002	**B02-36.0**	EPA 5035A/5030B	GCV/9004	EPA 8015 Modified	GCV/9007
92237616003	**B03-27.0**	EPA 5035A/5030B	GCV/9004	EPA 8015 Modified	GCV/9007
92237616004	**B04-35.0**	EPA 5035A/5030B	GCV/9004	EPA 8015 Modified	GCV/9007
92237616001	**B01-6.0**	ASTM D2974-87	PMST/7525		
92237616002	**B02-36.0**	ASTM D2974-87	PMST/7525		
92237616003	**B03-27.0**	ASTM D2974-87	PMST/7525		
92237616004	**B04-35.0**	ASTM D2974-87	PMST/7525		

Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-003-rev.15	Issuing Authority: Pace Huntersville Quality Office

Client Name: Partners

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ (Pace) Other_____

Custody Seal on Cooler/Box Present: ☐ yes (☑ no) Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ (None) ☐ Other_____

Thermometer Used: IR Gun T1401 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 1.9 °C Biological Tissue is Frozen: Yes No (N/A)

Date and Initials of person examining contents: PS 2/12/15

Temp should be above freezing to 6°C Comments:

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

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: (NB) Date: 2/12/15

SRF Review: VHH Date: 2/13/15

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

Place label here

WO#: 92237616

92237616

Pace Analytical

Pick up

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Partners Engineering	Report To:	Michael McKenna	Attention:	APC PARTNERESI.COM
Address:	4020 Candlewick Way	Copy To:		Company Name:	
	Durham, NC 27704			Address:	
Email To:	MMCKENNA@PARTNERESI.COM	Purchase Order #:	14-131345.4	Pace Quote:	
Phone:	Fax:	Project Name:	14-131345.4	Pace Project Manager:	kevin.herring@pacelabs.com
Requested Due Date:	5-DAY	Project #:		Pace Profile #:	7204-1

Regulatory Agency

State / Location

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	GRO 8015	8260 Volatile Organic Comp	VPH	6200	VPH	Residual Chlorine (Y/N)	9223744
1	BØ1 - 6.Ø			2/10/15	1054				12										X	X	X				HOLD 8260 + VPH
2	BØ2 - 36.Ø			2/10/15	1140				12										X	X	X				HOLD 8260 + VPH
3	BØ3 - 27.Ø			2/10/15	1332				12										X	X	X				HOLD 8260 + VPH
4	BØ4 - 35.Ø			2/10/15	1440				12										X	X	X				HOLD 8260 + VPH
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
HOLD 8260 + VPH	[signature] /PARTNER	2-11-15	11:25	[signature] -PACE	2/11/15	11:25
ANALYSES PENDING	[signature] -PACE	2-11-15	1760	[signature] 2 PACE	2-12-15	1025
RESULTS OF GRO	[signature] PACE	2-12-15	1735	[signature] /PACE	2/12/15	1735

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: