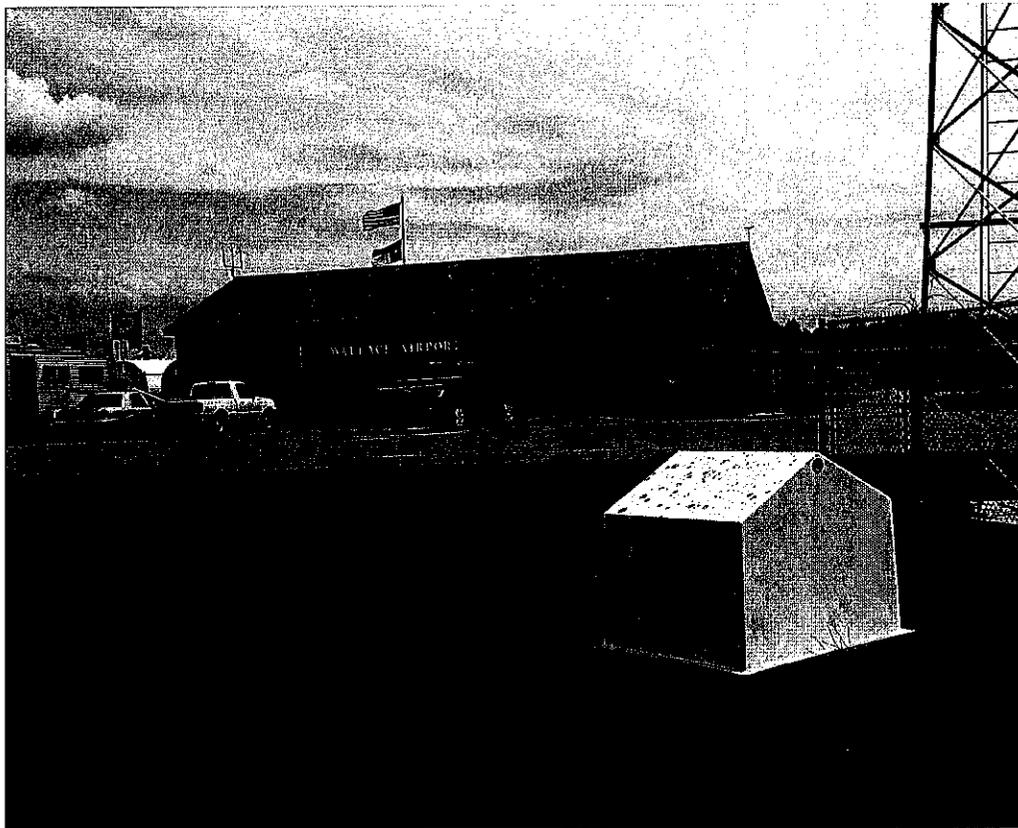


Site Cleanup Questionnaire

Wallace Airport

250 Henderson Field Road
Wallace, NC



Prepared for:

The Town of Wallace c/o Judy Weseman
WK Dickson & Co., Inc.
720 Corporate Center Drive
Raleigh, NC 27607

F&R Project No.: 66R-0077

Issue Date: October 15, 2013



FROEHLING & ROBERTSON, INC.
Engineering Stability Since 1881

3015 Dumbarton Road
Richmond, Virginia 23228-5831
T 804.264.2701 | F 804.264.1202

September 12, 2013

Judy Weseman
WK Dickson & Co., Inc.
720 Corporate Center Drive
Raleigh, NC 27607

**Re: Site Cleanup Questionnaire
Wallace Airport
250 Henderson Field Road
Wallace, NC
F&R Project No. 66R-0077**

As requested, F&R has completed the Site Cleanup Questionnaire for the above referenced Property. This letter serves to supply additional information to the questions within the Site Cleanup Questionnaire.

The subject property is the Town of Wallace Airport, a 135.48-acre parcel of land designated as Pender County PIN 2395-83-7713-000L. The Wallace Airport is located in a rural area south of the Town of Wallace, in Pender County, North Carolina. The property generally consists of cleared land, and is developed with a terminal building, several hangars and an asphalt-paved runway. The terminal building and hangars are located on the northern-central portion of the site.

Historically, soil and groundwater contamination has been detected at the property in association with three USTs that were removed in September 2003. Until July 2011, the contamination consisted of petroleum constituents. Since that time, increasing levels of trichloroethene (TCE) have been detected in the water supply well north of the terminal building. For additional information regarding previous soil and groundwater assessments and cleanup activities, please see the attached Groundwater Monitoring Report, prepared by ATC Associates and dated August 1, 2012.

F&R visited the Wallace Airport site on July 8, 2013 and interviewed Mr. Bill Cook, Airport Manager, to complete the Site Cleanup Questionnaire.

Question 1: The subject property is located adjacent to the Wallace Moose Lodge and several single-family residential properties. These properties are located adjoining the northern property boundary.

Question 2: The residence located nearest to the property line is the Sullivan site, approximately 550 feet west-northwest of the airport's water supply well.

Question 3: Portions of the subject property's northern boundary are secured with a chain link fence. However, the fence only extends along limited stretches of the site boundary at several access drives. The remainder of the subject property is not secured by a fence.

Corporate HQ: 3015 Dumbarton Road Richmond, Virginia 23228 T 804.264.2701 F 804.264.1202 www.fandr.com

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A Minority-Owned Business



Question 4: Site surface soils are not known to be contaminated. According to Mr. Bill Cook, Wallace Airport Manager, previous soil excavation has been conducted at the property. The excavated soils were associated with a release from former underground storage tanks containing jet and aviation fuel. Mr. Cook believes that excavation activities removed the impacted soils.

Question 5: According to a Health Risk Evaluation of Water Supply Letter issued by Mr. Steve Kay, Environmental Engineer with the NCDENR Wilmington Office, one contaminant (TCE) was detected in a water sample collected from the Wallace Airport water supply well on February 3, 2012. According to a Groundwater Monitoring Report prepared by ATC Associates in August 2012, TCE was detected in the water supply well and benzene was detected in two monitoring wells (MW-8 and DW-1).

Question 6: Site sediment or surface water is not known to be contaminated.

Question 7: Groundwater contamination has affected drinking water wells. See Question 5.

Question 8: The nearest down-gradient drinking water well is at the Murphy Property, approximately 525 feet east-northeast of the Wallace Airport well.

The closest well is located on the Bryant Property, located approximately 270 feet east-southeast of the airport's water supply well. Based on information in the Groundwater Elevation Map in ATC's August 2012 report, the Bryant well is located up-gradient of the airport's supply well. The Groundwater Elevation Map shows the direction of flow to the northwest toward an irrigation ditch along the property's northern boundary.

Question 9: F&R contacted Mr. Terry Duff, Superintendent with the Town of Wallace Water Department. Mr. Duff indicated that the Town of Wallace does not draw water from Rockfish Creek. F&R also contacted Mr. Bob Forand, Water & Sewer Superintendent with Pender County Utilities. Mr. Forand indicated that the nearest surface water intake he was aware of is Cape Fear Lock and Dam No. 1, located approximately 28 miles south-southwest of the Wallace Airport. Mr. Forand was not aware of other intakes along Rockfish Creek or Northeast Cape Fear River.

Question 10: Mr. Cook indicated that hazardous vapors, air emissions or contaminated dust are not migrating into occupied residential, commercial or industrial areas.

Question 11: It is unknown if hazardous substances have migrated off property at concentrations in excess of Branch restricted-use remediation goals.

Question 12: Mr. Cook is not aware of concerns expressed by the community regarding contamination at the site.

Question 13: According to the following agencies, sensitive environments are located on the subject property:

- NCDENR Division of Water Quality indicated Stills and Rockfish Creeks are in the Northeast Cape Fear River watershed, which is a highly sensitive aquatic ecosystem. Please see the attached email from Ms. Nora Deamer for additional information.



- US Fish and Wildlife Service indicated that the proposed action is not likely to adversely affect federally listed or endangered species; however, the Service indicated concern about potential impacts to aquatic species, and recommended practicable measures be taken to avoid adverse impacts to aquatic species. Please see the attached letter from Mr. Pete Benjamin of USFWS.
- US Army Corps of Engineers reported wetland areas on the property. Please see the attached WK Dickson Waters of the US Figure, which was researched by Ms. Crystal Amshler of USACE.

Please see the attached correspondences from these agencies for further explanation of the sensitive areas.

Question 14: It is not known whether contamination from the subject property has migrated into the above sensitive environments.

Question 15: Mr. Cook indicated that site contaminants do not include radioactive or mixed radioactive and chemical wastes.

F&R appreciates the opportunity to provide environmental services to WK Dickson. Please do not hesitate to contact us with any questions regarding the information provided.

Benjamin Whitley, PE
Project Engineer

Christopher J. Burkhardt
Senior Environmental Professional

Attachments: Site Cleanup Questionnaire
 Figure 1 – Property Observation Map
 Figure 2 – Property Detail Map
 Notice of Regulatory Requirements for Contaminant Assessment and Cleanup
 Health Risk Evaluation of Water Supply
 Groundwater Monitoring Report, ATC Associates, August 1, 2012
 Sensitive Environment Agency Responses

14. Based on current information, has contamination from the site migrated into any sensitive environments? Y N

If yes, or unknown, please explain on a separate page.

15. Do site contaminants include radioactive or mixed radioactive and chemical wastes? Y N

If yes, or unknown, please explain on a separate page.

Remediating Party Certification Statement

After first being duly sworn or affirmed, I, Matthew S. Livingston, hereby state that: I am over the age of eighteen, I am competent to make this certification based upon my own personal knowledge and belief, and, to the best of my knowledge and belief, after thorough investigation, the information contained herein is accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information.

Matthew S. Livingston
(Signature of Remediating Party Representative)

10/7/13
(Date)

Matthew S. Livingston
(Printed Name and Title of Remediating Party Representative)

Town of Wallace
(Printed Name of Company)

STATE OF NC

COUNTY OF Duplin

I, Jacqueline E. Nicholson, a Notary Public of said County and State, do hereby certify that Matthew S. Livingston personally appeared before me this day, produced proper identification in the form of Personal Knowledge of identity, was duly sworn and/or affirmed, and declared that he or she is the owner of the property referenced above or is a duly authorized agent of said owner and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is accurate and complete, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal the 7 day of Oct., 2013

Jacqueline E. Nicholson
Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: 10/27/14

Environmental Consultant Certification Statement

After first being duly sworn or affirmed, I, CHRISTOPHER J. BURKHARDT, hereby state that: I am over the age of eighteen, I am competent to make this certification based upon my own personal knowledge and belief, and, to the best of my knowledge and belief, after thorough investigation, the information contained herein is accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information.

Christopher J. Burkhardt
(Signature)

10-15-2013
(Date)

CHRISTOPHER J. BURKHARDT
(Printed Name)

CHRISTOPHER J. BURKHARDT
(Printed Name of Environmental Consultant)

STATE OF North Carolina

COUNTY OF Wake

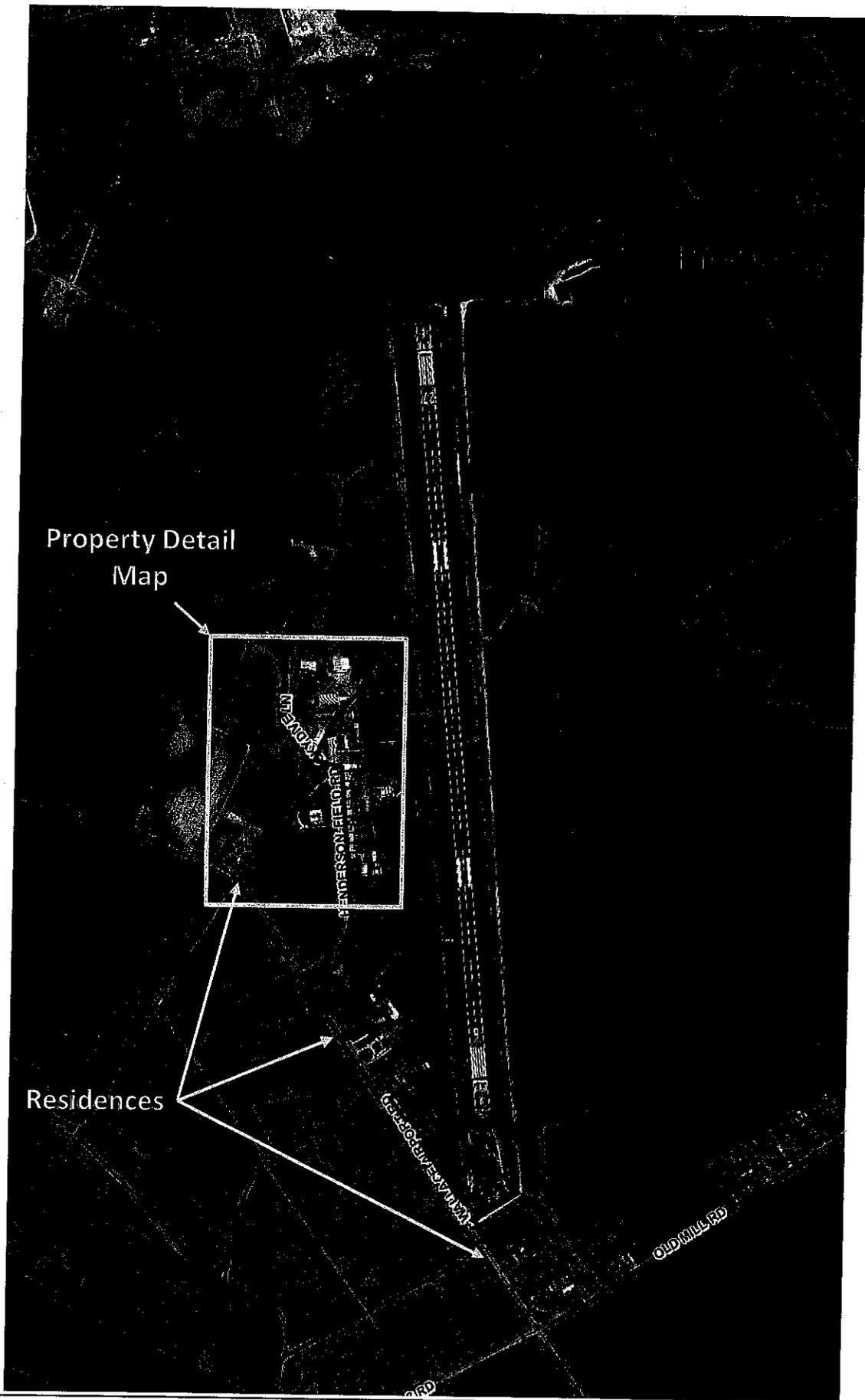
I, Paula R. Gibson ^{Johnston} a Notary Public of said County and State, do hereby certify that Christopher J. Burkhardt personally appeared before me this day, produced proper identification in the form of personally known to me, was duly sworn and/or affirmed, and declared that he or she is an environmental consultant for the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is accurate and complete, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal the 15th day of October, 2013.

Paula R. Gibson
Notary Public (signature)



My commission expires: June 24, 2018



PROPERTY OBSERVATION MAP

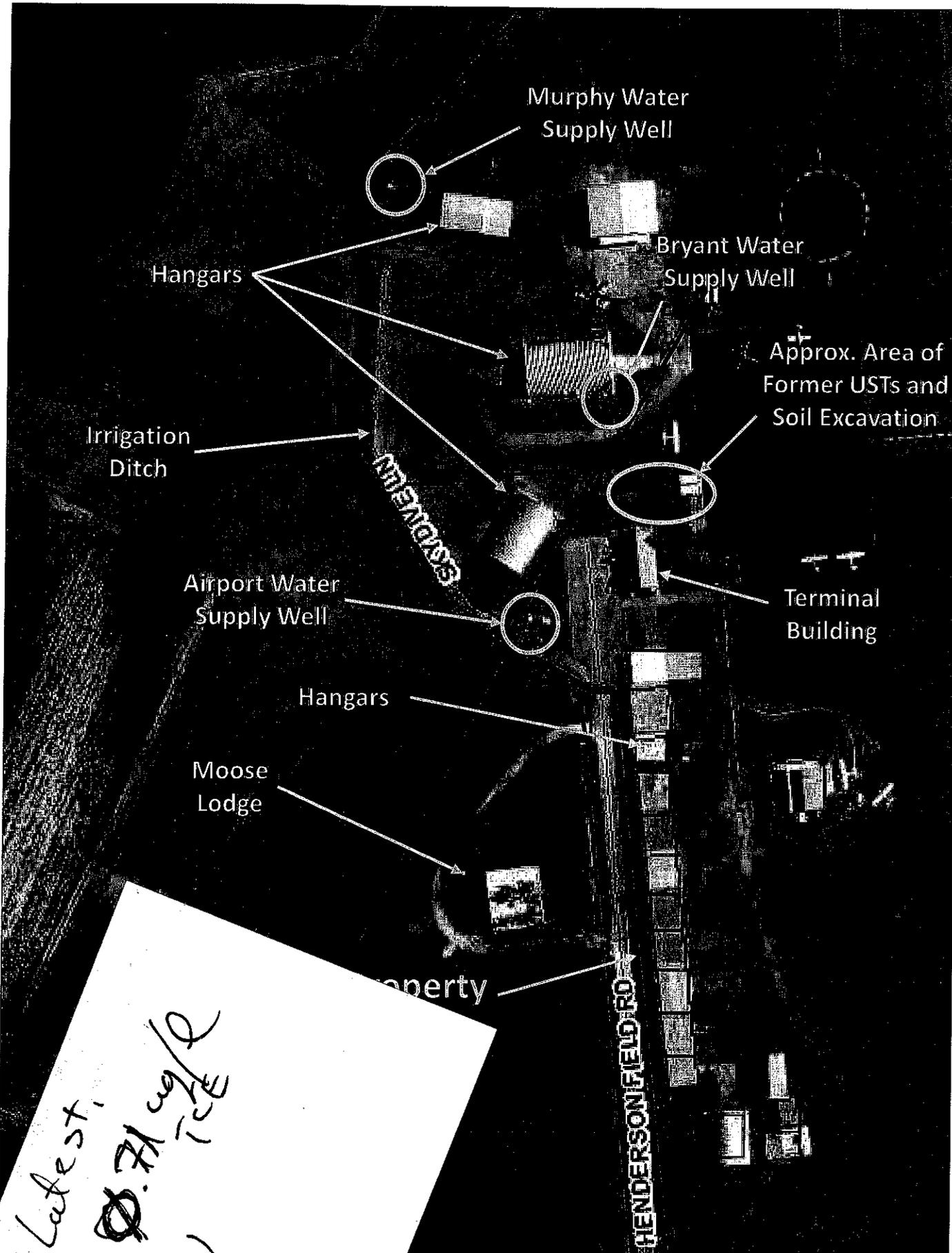
North ←



FROEHLING & ROBERTSON, INC.
 ENGINEERING • ENVIRONMENTAL • GEOTECHNICAL
 310 Hubert Street
 Raleigh, North Carolina 27603-2302 | USA
 T 919.828.3441 | F 919.828.5751

Client:	WK Dickson Co., Inc.
Project:	Site Cleanup Questionnaire
Location:	Wallace, Pender County, NC
F&R Project No:	66R-0077
Source:	Pender County GIS dated 2010
Date: September 2013	Scale Not Shown

Figure 1



*Latest, 0.71 w/p
TCE*

LOCATION MAP		North ←	
Client:	WK Dickson Co., Inc.		
Project:	Site Cleanup Questionnaire		
Location:	Wallace, Pender County, NC		
F&R Project No:	66R-0077		
Source:	Pender County GIS dated 2010		
Date: September 2013	Scale Not shown	Figure 2	


F&R
 ENGINEERING & TECHNICAL
 310 h...
 Raleigh, North Carolina 27601 USA
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North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

December 21, 2012

Mr. Matthew S. Livingston
Town Manager
Town of Wallace
316 E. Murray
Wallace, NC 28466

(910) 285-4136

Re: **NOTICE OF REGULATORY REQUIREMENTS FOR CONTAMINANT ASSESSMENT AND CLEANUP**
Wallace Airport
250 Henderson Field Road
Wallace, Pender County, NC

Dear Mr. Livingston:

We received information from the Division of Waste Management's UST Section, which reports that your site has been contaminated by one or more hazardous substances. Depending on the contaminants involved and whether the contaminants have impacted or may impact groundwater quality, you will be required to assess and cleanup the contamination under one or more cleanup authorities. Regulatory oversight for the assessment and cleanup of non-petroleum compounds under all applicable authorities will be provided by the Division of Waste Management through its Superfund Section, Inactive Hazardous Sites Branch ("Branch").

Based on information provided to date, the Inactive Hazardous Sites Response Act ("IHSRA"), codified under N.C. Gen. Stat. § 130A-310, *et seq.*, applies to your site. In addition, initial immediate actions may be required under 15A NCAC 2L, Groundwater Classifications and Standards.

I. ACTIONS REQUIRED AT THIS TIME:

Complete the Site Cleanup Questionnaire.

To comply with the requirements of State law, a Site Cleanup Questionnaire, available on the website noted at the end of this letter, must be completed and returned to this office. The information you provide will be reviewed along with other information to prioritize the site, so please make certain that the information you provide is complete and accurate. Please note that your failure to inform the Branch of any nearby potable wells or other high risk conditions may adversely affect the Branch's ability to identify this site as a higher-risk site.

Take Initial Abatement Actions Required Under 15A NCAC 2L.

If you have not already done so, you must take the initial abatement actions required under 15A NCAC 2L. Pursuant to 15A NCAC 2L .0106(b), any person conducting or controlling an activity which results in the discharge of a waste or hazardous substance to the groundwaters of the State, or in proximity thereto, shall take immediate action to terminate and control the discharge, and mitigate any hazards resulting from exposure to the pollutants. Pursuant to 15A NCAC 2L .0106(c), if groundwater standards have been exceeded, you must take immediate action to eliminate the source or sources of contamination. Beyond initial abatement actions, all assessment and remediation will be done through the IHSRA.

II. FUTURE ASSESSMENT AND CLEANUP ACTIVITIES:

All correspondence regarding this site should be sent to the Branch. Future assessment and cleanup activities (activities conducted after the initial abatement steps required in 15A NCAC 2L) may be conducted through the Voluntary Cleanup Program (discussed below) or pursuant to an Order issued under N.C. Gen. Stat. § 130A-310.3. In addition, if you choose not to conduct a cleanup through the Voluntary Cleanup Program, the site may be referred to the United States Environmental Protection Agency ("EPA"). If so referred, EPA will screen the site for Federal enforcement action under the Federal Superfund Program, established under the Comprehensive Environmental Responsibility, Compensation, and Liability Act ("CERCLA").

III. VOLUNTARY CLEANUP PROGRAM:

Under the IHSRA, persons who move forward to assess and remediate contamination, without being compelled to do so through formal legal action filed against them, are called "volunteers." To participate in the voluntary cleanup program, you will be required to enter into an administrative agreement with the Branch. The voluntary cleanup will proceed through the Registered Environmental Consultant Program or under direct oversight by the Branch Staff, as discussed below:

Agreement to Conduct Assessment and Remediation Through the Registered Environmental Consultant Program.

The Branch has a privatized oversight arm of the voluntary cleanup program known as the Registered Environmental Consultant ("REC") program. Based on the responses provided on the questionnaire (degree of hazard and public interest in the site), the Branch will determine whether a staff person or an REC will perform the oversight and approval of your assessment and cleanup action. Please note that having one or more of the conditions identified on the questionnaire does not necessarily preclude the site for qualifying for an REC-directed cleanup action.

Under the REC program, the volunteer hires an environmental consulting firm, which the State has approved as having met certain qualifications, to implement a cleanup and certify that the work is being performed in compliance with regulations. In other words, the REC's certifications of compliance are in place of direct oversight by the Branch. Details of the REC program can be found at <http://portal.ncdenr.org/web/wm/sf/ihs/recprogram>. If you have any questions specific to the REC Program, including how to participate, please contact the REC Program Manager, Kim Caulk, at (919) 707-8350.



North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Division of Waste Management
UST Section

Dee Freeman, Secretary
Dexter R. Matthews, Director

March 22, 2012

Mr. Matthew S. Livingston
Town Manager
316 East Murray Street
Wallace, NC 28466

Re: Health Risk Evaluation of Water Supply
Wallace Airport
Tracking ID: 32077

Dear Mr. Livingston:

Please find attached the Sample Analytical Results for a water sample collected from your well, identified as SW-1, located at 250 Henderson Field Road, Wallace, Pender County, on February 3, 2012. The sample was collected and analyzed as part of the investigation of a petroleum release in the vicinity. The water sample was analyzed for specific target analytes (contaminants), which are listed on the attached Sample Analytical Results. Contaminants were detected in the water sample, as shown on the attached Sample Analytical Results.

Because contaminants were detected in the water sample, a Health Risk Evaluation of the water supply was performed by an environmental toxicologist in the Division of Waste Management. The Health Risk Evaluation, which is attached also, compares the detected concentration of contaminants to acceptable concentrations and provides a recommendation for safe use of the water.

If you have any questions, please contact Dave Lilley at (919) 707-8241 or contact me at (910) 796-7396 or the address listed.

Sincerely,

Steve Kay
Environmental Engineer
Wilmington Regional Office

Attachments: Wallace Airport Sample Analytical Results
Health Risk Evaluation

cc: WiRO-Inactive Hazardous Waste
WiRO-UST

Wilmington (WIL) R.O. – 127 Cardinal Drive Extension, Wilmington, NC 28405 (910) 796-7215



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

March 19, 2012

TO: Steve Kay
Wilmington Regional Office
NC UST Section

FROM: David Lilley *Out: dl*
Environmental Toxicologist
NC Division of Waste Management

RE: Health Risk Evaluation
Tracking ID: 32077
Wallace Airport Well Sampling Results
250 Henderson Field Road
Wallace, NC

During this sampling event, one contaminant was detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If the contaminant concentration exceeds the applicable standard for using the water for drinking and cooking, the contaminant concentration is further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentration with the applicable standard:

Sample ID	Contaminant	Concentration (ug/l)*	MCL (ug/l)	2L (ug/l)
L0011471-10	Trichloroethene	0.53	5	

* The abbreviation ug/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

RECOMMENDATION: The detected contaminant did not exceed the applicable water standard. Therefore, no restrictions on the use of this water are recommended at this time.



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Client Sample ID SW-1 Collected: 02/03/2012 14:30 Lab Sample ID: L0011471-10

Site: WALLACE AIRPORT

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroform	ND		0.1	1	02/10/12 18:17	DN	4420189
Chloromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
cis-1,2-Dichloroethene	ND		0.1	1	02/10/12 18:17	DN	4420189
cis-1,3-Dichloropropene	ND		0.2	1	02/10/12 18:17	DN	4420189
Dibromochloromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Dibromomethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Dichlorodifluoromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Ethanol	ND		50	1	02/10/12 18:17	DN	4420189
Ethylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Hexachlorobutadiene	ND		0.2	1	02/10/12 18:17	DN	4420189
Isopropyl ether	ND		0.1	1	02/10/12 18:17	DN	4420189
Isopropylbenzene	ND		0.2	1	02/10/12 18:17	DN	4420189
Methyl tert-butyl ether	ND		0.2	1	02/10/12 18:17	DN	4420189
Methylene chloride	ND		0.2	1	02/10/12 18:17	DN	4420189
Naphthalene	ND		0.2	1	02/10/12 18:17	DN	4420189
n-Butylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
n-Propylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
p-Isopropyltoluene	ND		0.1	1	02/10/12 18:17	DN	4420189
sec-Butylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Styrene	ND		0.1	1	02/10/12 18:17	DN	4420189
tert-Butylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Tetrachloroethene	ND		0.2	1	02/10/12 18:17	DN	4420189
Toluene	ND		0.1	1	02/10/12 18:17	DN	4420189
trans-1,2-Dichloroethene	ND		0.1	1	02/10/12 18:17	DN	4420189
trans-1,3-Dichloropropene	ND		0.2	1	02/10/12 18:17	DN	4420189
Trichloroethene	0.53		0.1	1	02/10/12 18:17	DN	4420189
Trichlorofluoromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Vinyl acetate	ND		0.2	1	02/10/12 18:17	DN	4420189
Vinyl chloride	ND		0.1	1	02/10/12 18:17	DN	4420189
m & p-Xylene	ND		0.2	1	02/10/12 18:17	DN	4420189
o-Xylene	ND		0.1	1	02/10/12 18:17	DN	4420189
Xylene, Total	ND		0.3	1	02/10/12 18:17	DN	4420189
Surr: 1,2-Dichloroethane-d4	99.2		% 70-130	1	02/10/12 18:17	DN	4420189
Surr: 4-Bromofluorobenzene	98.8		% 70-130	1	02/10/12 18:17	DN	4420189
Surr: Toluene-d8	101		% 70-130	1	02/10/12 18:17	DN	4420189

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte Detected In The Associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

2/13/2012 1:44:27 PM

Version 2.2 - Modified January 16, 2012



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Client Sample ID SW-1 Collected: 02/03/2012 14:30 Lab Sample ID: L0011471-10

Site: WALLACE AIRPORT

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY GCMS: SM6200 B							
				MCL	SM6200 B	Units: ug/L	
1,1,1,2-Tetrachloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1,1-Trichloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1,2,2-Tetrachloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1,2-Trichloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1-Dichloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1-Dichloroethene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1-Dichloropropene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2,3-Trichlorobenzene	ND		0.2	1	02/10/12 18:17	DN	4420189
1,2,3-Trichloropropane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2,4-Trichlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2,4-Trimethylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2-Dibromo-3-chloropropane	ND		0.5	1	02/10/12 18:17	DN	4420189
1,2-Dibromoethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2-Dichlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2-Dichloroethane	ND		0.2	1	02/10/12 18:17	DN	4420189
1,2-Dichloropropane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,3,5-Trimethylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,3-Dichlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,3-Dichloropropane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,4-Dichlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
2,2-Dichloropropane	ND		0.1	1	02/10/12 18:17	DN	4420189
2-Butanone	ND		12	1	02/10/12 18:17	DN	4420189
2-Chlorotoluene	ND		0.2	1	02/10/12 18:17	DN	4420189
2-Hexanone	ND		0.5	1	02/10/12 18:17	DN	4420189
4-Chlorotoluene	ND		0.1	1	02/10/12 18:17	DN	4420189
4-Methyl-2-pentanone	ND		0.5	1	02/10/12 18:17	DN	4420189
Acetone	ND		10	1	02/10/12 18:17	DN	4420189
Benzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromochloromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromodichloromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromoform	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromomethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Carbon tetrachloride	ND		0.1	1	02/10/12 18:17	DN	4420189
Chlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Chloroethane	ND		0.2	1	02/10/12 18:17	DN	4420189

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte Detected In The Associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

2/13/2012 1:44:26 PM

Version 2.2 - Modified January 16, 2012

GROUNDWATER MONITORING REPORT
Wallace Airport
250 Henderson Field Road
Wallace, Pender County, North Carolina
ATC Project No. 45.40675.5004

Site Identification

A. Site Information

1. Site Identification

Date of Report: 08/01/2012
 Facility I.D.: _____ UST Incident Number (if known): 32077
 Site Name: Wallace Airport
 Site Street Address: 250 Henderson Field Road
 City/Town: Wallace Zip Code: 28466 County: Pender
 Description of Geographical Data Point: Jet Fuel AST AV GAS
 Location Method: Google Maps
 Latitude (decimal degrees): 34°43'09" Longitude (decimal degrees): 78°00'14"

2. Information about Contacts Associated with the Leaking UST System

UST Owner: Worsley Family Holdings, LLC (Formerly Worsley Companies, Inc.)
 Address: 123 Shipyard Boulevard, Wilmington, North Carolina 28412 Tel.: (910) 343-1991
 UST Operator: Worsley Family Holdings, LLC (Formerly Worsley Companies, Inc.)
 Address: 123 Shipyard Boulevard, Wilmington, North Carolina 28412 Tel.: (910) 343-1991
 Property Owner: Town of Wallace
 Address: 316 East Murray Road Tel.: (910) 285-6642
 Property Occupant: Wallace Airport
 Address: 250 Henderson Field Wallace, North Carolina Tel.: (910) 285-6642
 Consultant/Contractor: ATC Associates of North Carolina, P.C.
 Address: 2725 E. Millbrook Road, Suite 121, Raleigh, NC 27604 Tel.: (919) 871-0999
 Analytical Laboratory: Accutest Laboratories State Certification No. 487
 Address: 500 Ambassador Caffery Parkway, Scott, LA 70583 Tel.: 337-237-4775

3. Information about Release

Date Discovered: August 7, 2003
 Estimated Quantity of Release: _____ Unknown
 Cause of Release: UST System
 Source of Release (Dispenser/Piping/UST): Unknown
 Sizes and contents of UST system(s) from which the release occurred:
One 8,000-gallon jet fuel USTs, and two 2,000-gallon aviation fuel USTs

4. Certification

I, Kurt Ness, a Professional Engineer/Licensed Geologist (circle one) for (firm or company of employment), do certify that the information contained in this report is correct and accurate to the best of my knowledge.
 (Please Affix Seal and Signature)

ATC Associates of North Carolina, P.C. is licensed to practise geology/engineering (circle one or both) in North Carolina. The certification number of the company or corporation is C1598.



TABLE OF CONTENTS

1.0 INTRODUCTION.....1

2.0 SITE BACKGROUND.....1

3.0 GROUNDWATER MONITORING.....4

 3.1 Groundwater Elevations.....4

 3.2 Groundwater Analytical Results.....4

 3.3 Potable Well Analytical Results.....5

4.0 CONCLUSIONS.....5

TABLES

Table 1 Monitoring Well Construction Details

Table 2 Historical Groundwater Elevation Data

Table 3 Groundwater Analytical Data

Table 4 Historical Groundwater Analytical Results

Table 5 Historical Supply Well Analytical Data

FIGURES

Figure 1 Topographic Map

Figure 2 Site Map

Figure 3 Groundwater Elevation Contour Map

Figure 4 Dissolved Benzene Isoconcentration Contour Map

APPENDICES

Appendix A Laboratory Analytical Results

1.0 INTRODUCTION

ATC Associates of North Carolina, P.C. (ATC), on behalf of Worsley Family Holdings, LLC (Worsley), is submitting this groundwater monitoring report for Wallace Airport located at 250 Henderson Field Road, Wallace, North Carolina (Incident # 32077). The scope of services included groundwater sampling, laboratory testing, groundwater elevation monitoring, and report preparation. A Site Topographic Map is included as *Figure 1* and a Site Map is included as *Figure 2*. This report includes the laboratory analytical results for the groundwater sampling event performed on June 15, 2012.

2.0 SITE BACKGROUND

Wallace Airport is a small, regional airport located at 250 Henderson Field Road in Wallace, Pender County, North Carolina. The site is currently active and formerly contained one 8,000-gallon jet fuel and two 2,000-gallon aviation fuel underground storage tanks (UST). These were removed on August 7, 2003. There are currently no known USTs located on site.

According to a Delta Environmental Consultants, Incorporated (Delta) UST Closure Report, dated September 8, 2003, three USTs (UST-1 through UST-3) were removed from the site on August 7, 2003. Delta submitted a 24-Hour Release and UST Leak Reporting Form to North Carolina Department of Environment and Natural Resources (NCDENR), Wilmington Regional Office on August 7, 2003. Laboratory analytical results indicated detectable concentrations of petroleum constituents within soil samples collected from the excavated UST area.

In accordance with NCDENR Division of Waste Management (DWM) - UST Section guidelines, a Limited Site Assessment (LSA) was initiated by Delta. On October 21 and 22, 2003, four Type-II (MW-1 through MW-4) and one Type-III (DW-1) wells were installed surrounding the former UST excavation.

During the installation of MW-1, one sample (SMW-1 (1.5-2.0')) was collected for laboratory analysis. Aliphatics in the C5-C8 range and aromatics in the C9-C22 range were detected in the soil sample SMW-1 (1.5-2.0') at concentrations above the Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCCs) but below the Residential MSCCs. On October 23, 2003, groundwater samples were collected from monitoring wells MW-1 through MW-4 and DW-1. Petroleum constituents were detected in monitoring well samples at concentrations greater than ten times the 15A NCAC 2L Standards but below Gross Contamination Levels (GCLs). A Limited Site Assessment Report was submitted by Delta on December 18, 2003.

In response to the information provided in the *LSA Report*, NCDENR provided a site risk classification of High and land use of Residential. At the request of WCI, SEI Engineering & Geological Services, P.C. (SEI) continued with additional assessment activities: SEI personnel advanced ten soil borings (SS-1 through SS-10), installed five additional shallow Type II monitoring wells (MW-5, MW-6, MW-7, MW-9, and MW-10), installed one deep, Type III monitoring well (MW-8), submitted soil and groundwater samples for laboratory analyses and performed slug tests. Results of these activities indicated the presence of soil contamination at levels in excess of MSCCs and groundwater contamination in excess of 2L Standards, but below GCLs. The results of these activities were provided in a *Comprehensive Site Assessment (CSA) Report*, prepared by SEI, dated October 27, 2004.

Due to the low site score and lack of funding by the North Carolina Leaking Petroleum Underground Storage Tank Cleanup Fund, activities at the site were temporarily halted. In a NORR, dated December 6, 2007, NCDENR requested the completion of a groundwater monitoring event.

On February 28, 2008, ESS performed a comprehensive groundwater sampling event. The results were provided to NCDENR in the *Pre Corrective Action Plan Monitoring Report*, dated August 15, 2008. The data provided in the report revealed the petroleum was no longer defined in both the vertical and horizontal dimensions. Additional assessment activities were recommended by ESS and approved by NCDENR in a correspondence dated October 7, 2008.

Groundwater Monitoring Report
NCDENR Incident No. 32077

August 1, 2012
ATC Project No. 45.40675.5004

The CSA addendum work included the installation of two Type II wells (MW-11 and MW-12), and a Type III well (DW-2). The *CSA Addendum Report* submitted January 12, 2009, recommended preparation of a *Corrective Action Plan Report* for active soil and groundwater mitigation.

In response to the *CSA Addendum Report*, NCDENR requested an additional comprehensive groundwater sampling event and additional soil assessment in a correspondence dated February 18, 2009. The additional assessment work was conducted and summarized in a *Pre Corrective Action Plan Monitoring Report* dated July 1, 2009. The report provided the approximate extent of impacted soil and recommended excavation activities.

NCDENR requested an additional groundwater sampling event in correspondence dated August 5, 2009. The groundwater sampling event was conducted on December 22, 2009 and results submitted in a *Pre Corrective Action Plan Monitoring Report* dated January 26, 2010. In the 2009 report, ESS recommended excavation of impacted soil.

In a correspondence dated February 18, 2010, the NCDENR approved excavation of impacted soil. Approximately 1,900 tons of impacted soil were excavated and removed during and excavation supervised by ESS personnel between May 13, 2010 and June 2, 2010. The activities and results from this excavation are summarized in an *Excavation Report* dated July 2, 2010.

In August 2010, environmental services were transferred to ATC Associates of North Carolina, P.C. (ATC)

On May 10, 2011, ATC submitted a pre-approval task authorization to NCDENR for the next semi-annual groundwater sampling event. Pre-approval 32077-11 was issued by NCDENR. A Groundwater Monitoring Report, documenting the July 21, 2011 groundwater sampling event, was submitted to NCDENR during August 2011.

On October 27, 2011, NCDENR issued a letter agreeing with the recommendations in the August 2011 report. On November 7, 2011, ATC submitted a pre-approval task authorization to NCDENR for the next semi-annual groundwater sampling event. Pre-approval 32077-12 was issued by NCDENR on January 20, 2012. A Groundwater Monitoring Report documenting the February 3, 2012 groundwater sampling event was submitted to NCDENR during March 2012.

On April 18, 2012, ATC submitted a pre-approval task authorization to NCDENR for the next semi-annual groundwater sampling event. Pre-approval 32077-13 was issued by NCDENR on May 22, 2012. This report documents the groundwater sampling event performed on June 15, 2012.

3.0 GROUNDWATER MONITORING

3.1 Groundwater Elevations

On June 15, 2012, ATC collected static water level measurements from monitoring wells MW-2, MW-3, MW-5, MW-8, MW-10, MW-11, MW-12, DW-1, and DW-2. Free product was not encountered in the monitoring wells. Monitoring well construction information is included in *Table 1*. Depths to water measurements were collected using an electronic oil/water interface probe. Historical groundwater elevations are included in *Table 2*. A groundwater elevation contour map based on the June 2012 static water level data is included as *Figure 3*. Based on the recent groundwater level measurements, groundwater flows northwest across the site.

3.2 Groundwater Analytical Results

On June 15, 2012, groundwater samples were collected from MW-2, MW-3, MW-5, MW-8, MW-10, MW-11, MW-12, DW-1, and DW-2. Groundwater samples were collected in laboratory-approved containers which were then placed in ice-filled coolers and delivered under chain-of-custody protocol to Accutest Laboratories (Accutest), in Scott, Louisiana, for analysis. Groundwater samples were analyzed for volatile organic compounds (VOCs) by Method 6200B.

A summary of the recent groundwater analytical data is presented in *Table 3* and a historical summary of groundwater analytical data is presented in *Table 4*.

The laboratory analytical results from the June 15, 2012 sampling event indicates that benzene exceeded its Title 15A NCAC 2L.0202 (2L) standard in monitoring wells MW-8 and DW-1. A copy of the laboratory analytical report is included as *Appendix A*.

3.3 Potable Well Analytical Results

On June 15, 2012, ATC sampled the on-site water supply well. Prior to the collection of the sample, a spigot on the well pump house was allowed to run for approximately 15 minutes. The sample was collected in laboratory-approved containers which were then placed in ice-filled coolers and delivered under chain-of-custody protocol to Accutest for chemical analysis by Standard Method 6200B. Trichloroethene was detected at 0.71 ug/L. It should be noted this compound was not detected in the groundwater samples collected from the onsite monitoring wells. The location of the water supply well is indicated on *Figure 2*. Current and historical water supply well analytical data is presented in *Table 5*.

4.0 CONCLUSIONS

ATC has performed a groundwater monitoring event at the Wallace Airport located in Wallace, North Carolina. Based on field activities, observations, and groundwater analytical results, ATC concludes the following:

- The site risk classification is **H230D**.
- Free product was not encountered during this sampling event.
- Benzene was detected in the groundwater samples above its 2L Standards in MW-8 and DW-1.
- The on-site water supply well was sampled and a trichloroethene concentration of 0.71 ug/L was detected in the water sample.

Groundwater Monitoring Report
NCDENR Incident No. 32077

August 1, 2012
ATC Project No. 45.40675.5004

- Depth to groundwater measurements ranged from 2.98 feet to 8.88 feet below ground surface in MW-11 and DW-2, respectively. The inferred shallow groundwater flow direction across the site is toward the northwest.

Based on the results of this investigation, ATC recommends continued semi-annual groundwater monitoring.

TABLES

**TABLE 1
MONITORING WELL CONSTRUCTION DETAILS**

**WALLACE AIRPORT
250 HENDERSON FIELD ROAD
WALLACE, NORTH CAROLINA
NCDENR INCIDENT NO. 32077
ATC PROJECT NO. 45.40675.5064**

Well No.	Date of Construction	Well Diameter (Inches)	Well Depth (Feet)	Screen Interval (Feet)	Top of Casing Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-1	10/21/2003	2	12	2-12	498.88	Well Not Sampled	
MW-2	10/21/2003	2	12	2-12	499.07	4.18	494.89
MW-3	10/21/2003	2	12	2-12	499.25	4.04	495.21
MW-4	10/22/2003	2	12	2-12	499.52	Well Not Sampled	
MW-5	7/15/2004	2	15	5-15	499.14	4.22	494.92
MW-6	7/15/2004	2	15	5-15	499.82	Well Not Sampled	
MW-7	7/15/2004	2	15	5-15	498.79	Well Not Sampled	
MW-8	7/16-17/04	2	40	35-40	499.19	8.50	490.69
MW-9	7/16/2004	2	15	5-15	498.98	Well Destroyed	
MW-10	7/16/2004	2	15	5-15	498.02	3.72	494.30
MW-11	December 2008	2	15	5-15	496.92	2.98	493.94
MW-12	December 2008	2	15	5-15	498.11	3.83	494.28
DW-1	10/21-22/03	2	28	23-28	498.71	4.97	493.74
DW-2	December 2008	2	46	42-46	499.50	8.88	490.62

Notes:

1. MW - Type II monitoring well
2. DW - Type III deep monitoring well
3. NA - Not Available
4. NM - Not Measured
5. Groundwater elevations measured June 15, 2012.

TABLE 2
HISTORICAL GROUNDWATER ELEVATION DATA

WALLACE AIRPORT
259 HENDERSON FIELD ROAD
WALLACE, NORTH CAROLINA
NCDENR INCIDENT NO. 31077
ATC PROJECT NO. 45.40675.5004

Well No.	Date	Top of Casing Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-1	10/23/03	498.83	4.89	493.92
	07/28/04		4.60	494.28
	09/22/04		3.70	495.18
	09/24/04		3.32	495.05
	02/28/08		3.67	495.21
	12/03/08		4.06	494.82
	06/09/09		4.22	494.66
	12/22/09		3.50	495.38
	12/30/10		NM	NM
	07/21/11		5.21	493.67
	02/03/12		Well Not Measured	
	06/15/12		Well Not Measured	
MW-2	10/23/03	499.07	4.61	494.46
	07/28/04		4.59	494.08
	09/22/04		3.50	495.17
	09/24/04		4.28	494.87
	02/28/08		4.20	494.87
	12/03/08		4.56	494.51
	06/09/09		4.64	494.43
	12/22/09		4.00	495.07
	12/30/10		NM	NM
	07/21/11		5.61	493.46
	02/03/12		4.35	494.52
	06/15/12		4.18	494.89
MW-3	10/23/03	499.25	4.81	494.44
	07/28/04		5.08	494.17
	09/22/04		4.13	495.12
	09/24/04		4.22	495.03
	02/28/08		4.01	495.24
	12/03/08		4.51	494.74
	06/09/09		4.60	494.65
	12/22/09		3.92	495.33
	12/30/10		NM	NM
	07/21/11		5.03	493.62
	02/03/12		4.40	494.85
	06/15/12		4.04	495.21
MW-4	10/23/03	499.52	4.78	494.74
	07/28/04		5.19	494.33
	09/22/04		3.95	495.57
	09/24/04		4.35	495.17
	02/28/08		4.08	495.44
	12/03/08		4.45	495.07
	06/09/09		4.68	494.84
	12/30/10		NM	NM
	07/21/11		5.78	493.74
	02/03/12		Well Not Measured	
	06/15/12		Well Not Measured	
	MW-5		07/28/04	489.14
09/22/04		4.20	494.94	
09/24/04		4.30	494.84	
02/28/08		4.26	494.88	
12/03/08		4.70	494.44	
06/09/09		4.73	494.41	
12/22/09		4.10	495.04	
12/30/10		NM	NM	
07/21/11		5.60	493.54	
02/03/12		4.56	494.58	
06/15/12		4.22	494.92	
07/28/04		5.50	494.32	
MW-6	09/22/04	489.82	4.55	495.27
	02/28/08		4.35	495.47
	12/03/08		4.76	495.06
	06/09/09		4.95	494.87
	12/30/10		4.48	495.34
	07/21/11		6.88	493.74
	02/03/12		Well Not Measured	
	06/15/12		Well Not Measured	

Notes:
MW - Type II monitoring well
MWD - Type III deep monitoring well
NA - Not Available
NS - Not Surveyed
NM - Not Measured

TABLE 3
GROUNDWATER ANALYTICAL DATA

WALLACE AIRPORT
250 HENDERSON FIELD ROAD
WALLACE, NORTH CAROLINA
NC DENR INCIDENT NO. 32077
ATC PROJECT NO. 48.40675.6084

Monitoring Well	Date	Standard Method 6020B																	
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MIBK	IPB	Naphthalene	1,2,4-Trimethylbenzene	1,2,5-Trimethylbenzene	Propylbenzene	n-Propylbenzene	p-Isopropyltoluene	m-Butylbenzene	Vinyl acetate	Methylene Chloride	1,4-Dichlorobenzene	
MW-1	6/15/2012																		
MW-2	6/15/2012	<0.1	<0.1	<0.1	<0.3	ND	<0.2	<0.1	0.74	0.18	<0.1	0.94	0.85	0.3	<0.2	<0.2	<0.2	<0.2	
MW-3	6/15/2012	<0.1	<0.1	<0.1	<0.3	ND	<0.2	<0.1	0.43	<0.1	<0.1	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	
MW-4	6/15/2012																		
MW-5	6/15/2012	<0.1	<0.1	<0.1	<0.3	ND	<0.2	<0.1	0.57	<0.1	<0.1	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	
MW-6	6/15/2012																		
MW-7	6/15/2012																		
MW-8	6/15/2012	3.6	<0.1	3.5	<0.3	7.1	<0.2	<0.1	<0.4	<0.1	<0.1	<0.2	<0.3	<0.2	<0.2	<0.2	0.68	<0.2	
MW-9	6/15/2012																		
MW-10	6/15/2012	<0.1	<0.1	<0.1	0.26	0.26	0.51	<0.1	<0.4	<0.1	<0.1	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	
MW-11	6/15/2012	<0.1	<0.1	<0.1	<0.3	ND	<0.2	<0.1	<0.4	<0.1	<0.1	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	
MW-12	6/15/2012	<0.1	<0.1	<0.1	<0.3	ND	<0.2	<0.1	<0.4	<0.1	<0.1	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	
DW-1	6/15/2012	3.4	0.18	0.8	0.9	5.28	<0.2	<0.1	<0.4	0.15	<0.1	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	
DW-2	6/15/2012	0.38	0.1	0.41	<0.3	0.89	<0.2	<0.1	<0.4	<0.1	<0.1	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	
ZL		1	600	600	500	NE	20	70	5	400	400	70	70	NE	70	NE	5	1.4	
GCL		5000	260,000	81,500	85,800	NE	20,000	70,000	5,000	28,500	28,000	25,000	20,000	NE	1,500	NE	5,000	33,500	

Notes:
 1. *C or ND = Not detected or above the laboratory detection limit.
 2. Concentrations are reported in micrograms per liter (µg/L) = parts per billion.
 3. Concentrations in total petroleum hydrocarbons (TPH) are reported in milligrams per liter (mg/L).
 4. ND/NR = North Carolina Department of Environment and Natural Resources.
 5. QCL = Gross Quarterly Sales Limit.
 6. NA = Not Analyzed.
 7. NE = Not Established.
 8. NS = Not Sampled.
 9. BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes.
 10. MIBK = Methyl Isobutyl Ketone.
 11. QCLs (Quarterly Sales Limits) for Chlorobenzene are referenced in the October 2010 Assessment and Corrective Action, July 2008 and revised January 2010.

TABLE 2
HISTORICAL GROUNDWATER ELEVATION DATA

WALLACE AIRPORT
250 HENDERSON FIELD ROAD
WALLACE, NORTH CAROLINA
NCDEMR INCIDENT NO. 32077
ATC PROJECT NO. 4540675.0004

Well No.	Date	Top of Casing Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-7	07/28/04	498.79	4.48	494.31
	02/28/08		6.55	492.24
	12/03/08		3.84	494.95
	06/09/09		4.12	494.67
	12/30/10		3.55	495.24
	07/21/11		5.11	493.68
	02/03/12		Well Not Measured	
	06/15/12	Well Not Measured		
MW-8	01/28/04	499.19	5.23	493.96
	09/22/04		5.45	493.74
	02/28/08		7.12	492.07
	12/03/08		7.67	491.52
	06/09/09		7.10	492.09
	12/22/09		6.19	493.00
	12/30/10		7.72	491.47
	07/21/11		11.10	488.09
	02/03/12		9.29	489.90
	06/15/12		8.50	490.69
MW-9	07/28/04	98.72	4.62	94.10
	09/22/04		3.40	95.32
	02/28/08		3.24	95.38
	12/03/08		3.65	95.07
	06/09/09		4.02	94.70
	12/30/10		Destroyed	
	07/21/11		Destroyed	
	02/03/12	Destroyed		
	06/15/12	Destroyed		
MW-10	07/28/04	498.02	4.19	493.83
	09/22/04		3.55	494.47
	09/24/04		3.81	494.21
	02/28/08		3.97	494.05
	12/03/08		4.20	493.82
	06/09/09		4.21	493.81
	12/22/09		3.75	494.27
	12/30/10		3.68	498.02
	07/21/11		4.78	493.24
	02/03/12		4.04	493.98
	06/15/12	3.72	494.30	
MW-11	12/03/08	496.92	3.44	493.48
	06/09/09		3.45	493.47
	12/22/09		3.09	493.83
	12/30/10		3.03	493.89
	07/21/11		3.80	493.12
	02/03/12		3.21	493.71
	06/15/12		2.98	493.94
MW-12	12/03/08	498.11	4.26	493.85
	06/09/09		4.30	493.81
	12/22/09		3.86	494.25
	12/30/10		4.00	494.11
	07/21/11		4.85	493.26
	02/03/12		4.08	494.03
	02/03/12		3.83	494.28
DW-1	10/23/03	498.71	12.21	486.50
	07/28/04		4.23	494.48
	09/22/04		3.53	495.18
	02/28/08		3.93	494.78
	12/03/08		15.28	483.43
	06/09/09		9.91	488.80
	12/22/09		3.40	495.31
	12/30/10		NM	NM
	07/21/11		5.53	493.18
	02/03/12		3.91	494.80
	06/15/12	4.97	493.74	
DW-2	12/03/08	499.50	7.99	491.51
	06/09/09		7.40	492.10
	12/22/09		6.48	493.02
	12/30/10		NM	NM
	07/21/11		12.40	487.10
	02/03/12	9.33	490.17	
	06/15/12	8.68	490.82	

Notes:
MW - Type II monitoring well
MWD - Type III deep monitoring well
NA - Not Available
NS - Not Surveyed
NM - Not Measured

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

WALLACE AIRPORT
250 HENDERSON FIELD ROAD
WALLACE, NORTH CAROLINA
NCDENR INCIDENT NO. 32077
ATC PROJECT NO. 45.40675.5004

Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE
MW-1	4/17/2003	<1	<1	<1	<1	<1	<1
	11/2/2003	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/7-8/2004	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	5/21/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	5/21/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	10/9/2007	<1	<1	<1	<1	<1	<1
	4/11/2008	<1	<1	<1	<1	<1	<1
	10/17/2008	<1	<1	<1	<1	<1	<1
	3/31/2009	<1	<1	<1	<1	<1	<1
	10/9/2009	<1	<1	<1	<1	<1	<1
	4/5/2010	<1	<1	<1	<1	<1	<1
	10/8/2010	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1
	7/21/2011						
	2/3/2012						
6/15/2012							
MW-2	4/17/2003	<1	<1	<1	<1	<1	<1
	11/2/2003	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/7-8/2004	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	9/15/2004	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/7/2004	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	10/9/2007	<1	<1	<1	<1	<1	<1
	4/11/2008	<1	<1	<1	<1	<1	<1
	10/17/2008	<1	<1	<1	<1	<1	<1
	3/31/2009	<1	<1	<1	<1	<1	<1
	10/9/2009	<1	<1	<1	<1	<1	<1
	4/5/2010	<1	<1	<1	<1	<1	<1
	10/8/2010	<0.2	<0.2	<0.1	<0.1	<0.2	<0.1
	7/21/2011	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1
	2/3/2012	0.78	0.17	0.11	0.55	<0.2	<0.1
6/15/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1	
MW-3	4/17/2003	1,600	12,000	2,400	13,600	1,300	<200
	11/2/2003	552	9,420	1,370	8,760	<2,500	<2,500
	6/7-8/2004	320	12,900	1,740	14,600	<2,500	<2,500
	9/15/2004	63.2	1,200	369	2,420	<2,500	<2,500
	12/7/2004	50.3	1,630	500	4,390	<500	<500
	9/21/2005	21.6	34.1	<10	7,103	<10	142
	10/9/2007	30	1,200	530	4,400	<20	<20
	4/11/2008	7.6	530	340	2,700	<1	<1
	10/17/2008	<200	1,380	602	6,210	<400	<200
	3/31/2009	<20	222	271	2,478	<20	<20
	10/9/2009	7.4	386	261	2,635	<1	<1
	4/5/2010	<10	42.2	48.6	683	<10	<20
	10/8/2010	11	530	450	2,940	2.6	<0.1
	7/21/2011	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1
2/3/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1	
6/15/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1	
MW-4	4/17/2003	<1	<1	<1	<1	8.4	<1
	11/2/2003	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/7-8/2004	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	9/15/2004	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/7/2004	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	10/9/2007	<1	<1	<1	<1	<1	<1
	4/11/2008	<1	<1	<1	<1	<1	<1
	10/17/2008	<1	<1	<1	<1	<1	<1
	3/31/2009	<1	<1	<1	<1	<1	<1
	10/9/2009	<1	<1	<1	3.5	<1	<1
	4/5/2010	<1	<1	<1	<1	<1	<1
	10/8/2010	<0.2	<0.2	<0.1	<0.1	<0.2	<0.1
	7/21/2011	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1
	2/3/2012						
6/15/2012							
NCAC 2L Standards							
	1	600	600	500	20	70	

1. <1 or ND = Not detected at or above the laboratory detection limit.
 2. Concentrations are reported in micrograms per liter (µg/L) = parts per billion.
 3. Concentrations in bold print equal or exceed the NCDEMR 2L Standard (QL).
 4. NCDEMR = North Carolina Department of Environment and Natural Resources.
 5. IPE = Impregnated Glass.
 6. MTBE = Methyl Tertiary Butyl Ether.
 7. NA = Not Available.

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

WALLACE AIRPORT
250 HENDERSON FIELD ROAD
WALLACE, NORTH CAROLINA
NCDEMR INCIDENT NO. 32077
ATC PROJECT NO. 45,40675.5904

Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPK	
MW-5	4/17/2003	1.1	<1	<1	<4	24	<1	
	11/7/2003	<0.5	<0.5	<0.5	<0.5	21.3	<5	
	6/7-8/2004	2.53	<0.5	3.21	2.08	29.9	<5	
	9/15/2004	14.3	1.8	5.3	4.5	978	29.5	
	12/1/2004	<0.5	<0.5	<0.5	<0.5	71.3	4.11	
	9/21/2005	1.6	<0.5	<0.5	<1.5	204	2.6	
	10/9/2007	2.6	<5	1.5	<3	5.4	<1	
	4/17/2008	2.2	<5	4.3	<3	2.7	<1	
	10/17/2008	7.79	<1	11.0	18.24	<2	1.51	
	3/31/2009	7.85	<1	8.54	4.01	796	1.99	
	10/9/2009	9.1	<1	15.4	<3	12.5	1	
	4/5/2010	1.71	<1	14.8	15.65	243	<1	
	10/8/2010	0.57	1.3	6.9	20	<0.2	<0.1	
	7/21/2011	<0.1	<0.1	<0.1	<0.5	<0.2	<0.1	
	2/3/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1	
	MW-6	6/15/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1
4/17/2003		<1	<1	<1	<4	<2	<1	
11/3/2003		<0.5	<0.5	<0.5	<0.5	<5	<5	
6/7-8/2004		<0.5	<0.5	<0.5	<0.5	170	<5	
12/1/2004		<0.5	<0.5	<0.5	<0.5	341	<5	
10/9/2007		<1	<5	<1	<3	<1	<1	
4/17/2008		<1	<5	<1	<3	<1	<1	
10/17/2008		<1	<5	<1	<4	<2	<1	
7/21/2009		<1	<1	<1	<4	<2	<1	
10/9/2009		<1	<1	<1	<4	<2	<1	
10/9/2009		<1	<1	<1	<4	<2	<1	
4/5/2010		<1	<1	<1	<4	<2	<1	
10/8/2010		Well Not Sampled						
7/21/2011		<0.1	<0.1	<0.1	<0.5	<0.2	<0.1	
2/3/2012		Well Not Sampled						
6/15/2012		Well Not Sampled						
MW-7	4/17/2003	690	280	150	690	3,000	28	
	10/9/2007	<1	<5	<1	<3	24	4.1	
	4/17/2008	120	64	92	340	15	<1	
	10/17/2008	80.9	<10.0	32.8	91.0	<20.0	<10.0	
	3/31/2009	350	169	450	2,201	<30.0	<20.0	
	10/9/2009	184	31.5	216	1,180	27.0	<5	
	4/5/2010	55.3	29.8	66.3	308	<16.0	<8.0	
	10/8/2010	81	21	120	650	11	0.64	
	7/21/2011	<0.1	<0.1	<0.1	<0.5	<0.2	<0.1	
	2/3/2012	Well Not Sampled						
MW-8	6/15/2012	Well Not Sampled						
	4/17/2003	<1	<1	<1	<4	<2	<1	
	10/9/2007	1.4	<5	14	<3	37	5.1	
	4/17/2008	<1	<5	<1	<3	<1	<1	
	10/17/2008	<1	<1	<1	<4	<2	<1	
	3/31/2009	<1	<1	<1	<4	<2	<1	
	10/9/2009	<1	<1	<1	<3	<1	<1	
	4/5/2010	<1	<1	<1	<4	<2	<1	
	10/8/2010	Well Not Sampled						
	7/21/2011	4.2	0.12	6.4	<0.5	<0.2	<0.1	
2/3/2012	4.2	0.13	5.6	<0.3	<0.2	<0.1		
6/15/2012	3.6	<0.1	3.5	<0.3	<0.2	<0.1		
MW-9	4/17/2003	90	<1	13	2.2	640	6.7	
	10/9/2007	<1	<5	<1	<3	3.3	2	
	10/17/2008	16.0	<2	12.6	9.59	4.09	<2	
	3/31/2009	13.5	<2	<2	<8.00	4	<2	
	10/9/2009	28.7	2	28.6	43	7.6	<1	
	4/5/2010	18.3	28.0	22.6	112.0	<10.0	<30	
	10/8/2010	1.8	0.34	3.2	5.9	1.3	<0.1	
	7/21/2011	Well Destroyed						
	4/17/2003	<1	<1	<1	<4	<2	<1	
	10/8/2010	Well Not Sampled						
MW-10	7/21/2011	<0.1	<0.1	<0.1	0.59	<0.2	<0.1	
	2/3/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1	
	6/15/2012	<0.1	<0.1	<0.1	0.26	0.53	<0.1	
	NCAC 2L Standards	1	600	600	500	20	70	

1. < or ND = Not detected at or above the laboratory detection limit.
 2. Concentrations are reported in micrograms per liter (µg/l) = parts per billion.
 3. Concentrations in bold print equal or exceed the NCDEMR 2L Standard (2L).
 4. NCDEMR = North Carolina Department of Environment and Natural Resources.
 5. BE = Benzopyl Ether.
 6. MTBE = Methyl Tertiary Butyl Ether.
 7. NA = Not Available.

**TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS**

**WALLACE AIRPORT
250 HENDERSON FIELD ROAD
WALLACE, NORTH CAROLINA
NCDENR INCIDENT NO. 32077
ATC PROJECT NO. 45.40675.5004**

Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPF
MW-11	9/17/2003	<1	<1	<1	<4	<2	<1
	10/8/2010	Well Not Sampled					
	7/21/2011	<0.1	<0.1	<0.1	<0.5	<0.2	<0.1
	2/9/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1
	6/13/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1
MW-12	10/9/2009	<1	<5	<1	<3	<1	<1
	3/31/2009	<1	<1	<1	<1	<2	<1
	10/9/2009	<1	<1	<1	<3	<1	<1
	4/5/2010	<1	<1	<1	<4	<2	<1
	10/8/2010	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1
	7/21/2011	<0.1	<0.1	<0.1	<0.5	<0.2	<0.1
	2/9/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1
	6/13/2012	<0.1	<0.1	<0.1	<0.3	<0.2	<0.1
DW-1	4/17/2003	3.3	4.7	<1	<4	7.4 ²	<1
	11/8/2003	<0.5	<0.5	<0.5	<0.5	<3	<3
	6/7/2004	<0.5	<0.5	<0.5	<0.5	<3	<3
	12/7/2004	<0.5	<0.5	<0.5	<0.5	<3	<3
	9/21/2005	<0.5	<0.5	<0.5	<0.5	<1	<0.5
	10/9/2009	<1	<5	<1	<3	<1	<1
	4/11/2008	<1	<5	<1	<3	<1	<1
	10/17/2008	<1	<1	<1	<4	<3	<1
	9/31/2009	<1	<1	<1	<4	<3	<1
	10/9/2009	<1	<1	<1	<3	<1	<1
	4/5/2010	<1	<1	<1	<4	<2	<1
	10/8/2010	<0.2	<0.2	<0.1	<0.1	<0.2	<0.1
	7/21/2011	6.6	0.42	2	2.8	<0.2	<0.1
	2/9/2012	4	0.26	1.1	1.6	<0.2	<0.1
6/13/2012	3.4	0.18	0.8	0.9	<0.2	<0.1	
DW-2	10/8/2010	Well Not Sampled					
	7/21/2011	<0.1	0.14	0.26	<0.5	<0.2	<0.1
	2/9/2012	0.17	0.28	0.75	0.27	<0.2	<0.1
	6/13/2012	0.38	0.1	0.41	<0.3	<0.2	<0.1
OB-1	3/31/2009	<1	<1	<1	<4	<2	<1
	4/5/2010	<1	<1	<1	<4	<2	<1
	10/8/2010	<0.2	<0.2	<0.1	<0.1	<0.2	<0.1
OB-2	7/21/2011	Well Not Sampled					
	9/31/2009	<1	<1	<1	<4	<2	<1
	4/5/2010	<1	<1	<1	<4	<2	<1
	10/8/2010	<0.2	<0.2	<0.1	<0.1	<0.2	<0.1
	7/21/2011	Well Not Sampled					
NCAC 2L Standards		1	600	600	500	20	70

1. * <1 or ND = Not detected after above the laboratory detection limit.
2. Concentrations are reported in micrograms per liter (µg/L) = parts per billion (ppb).
3. Concentrations in bold print equal or exceed the NCDEP 2L Standard (LL).
4. * NCDENR = North Carolina Department of Environment and Natural Resources.
5. EU = Ecological Use.
6. MTBE = Methyl Tertiary Butyl Ether.
7. NA = Not Available.

**TABLE 5
HISTORICAL SUPPLY WELL ANALYTICAL DATA**

**WALLACE AIRPORT
250 HENDERSON FIELD ROAD
WALLACE, NORTH CAROLINA
NCDENR INCIDENT NO. 32077
ATC PROJECT NO. 45.40675.5004**

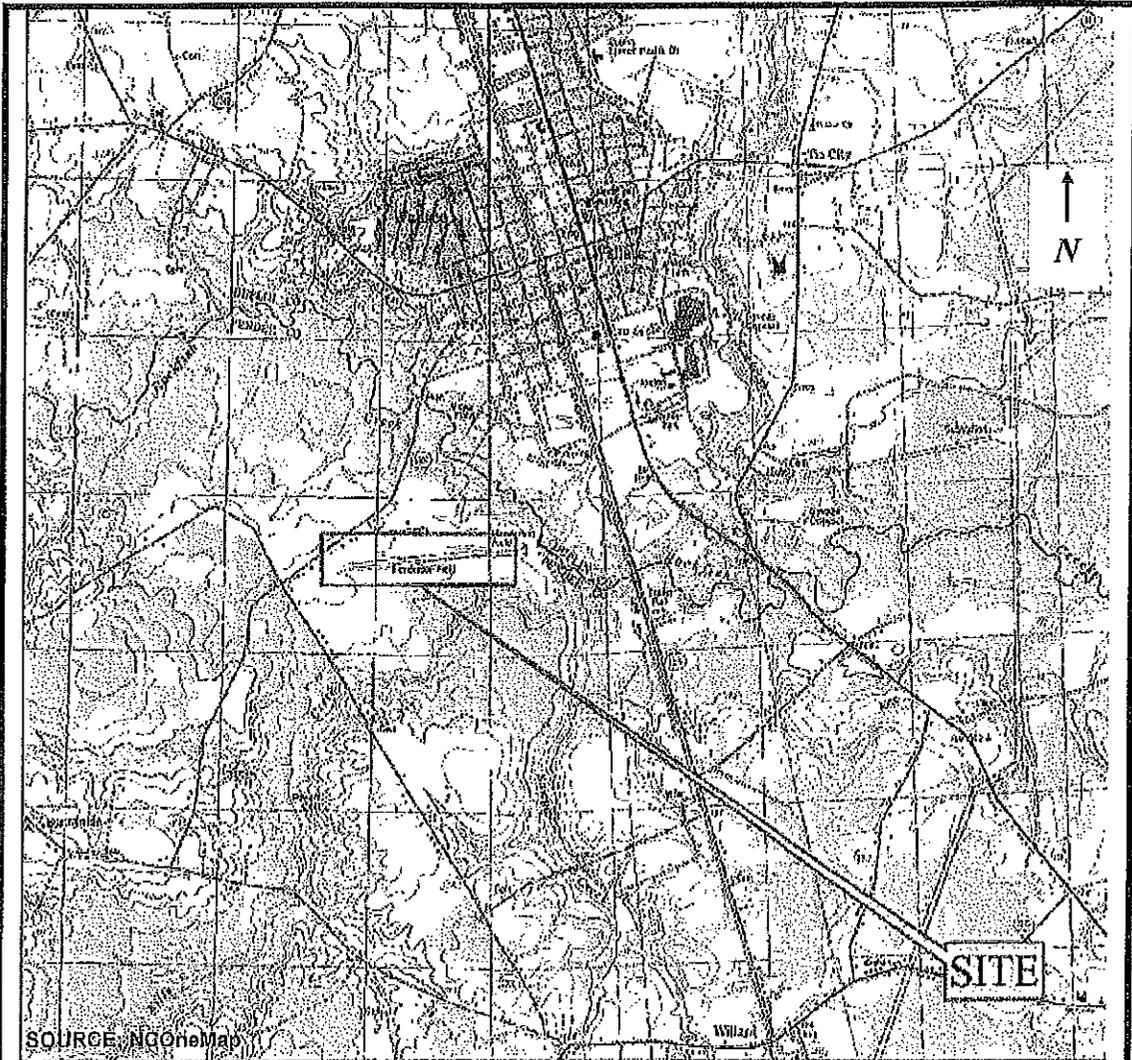
Analytical Method:		Standard Method 8200B						
Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	Trichloroethene
Supply Well SW-1	9/21/2005	<0.5	<0.5	<0.5	<1.5	<3.0	<0.5	--
	5/21/2002	<1	<5	<1	<3	<10	<1	--
	5/21/2002	<1	<1	<1	<4	<7	<2	--
	3/31/2009	<1	<1	<1	<4	<7	<2	--
	10/9/2009	<1	<1	<1	<3	<6	<1	--
	4/5/2010	<1	<1	<1	<4	<7	<2	--
	12/30/2010	<0.1	<0.2	<0.1	<0.1	<0.5	<0.2	--
	7/21/2011	<0.1	<0.1	<0.1	<0.5	<0.8	<0.2	0.3
	2/3/2012	<0.1	<0.1	<0.1	<0.3	<0.6	<0.2	0.53
6/15/2012	<0.1	<0.1	<0.1	<0.3	<0.6	<0.2	0.71	
2L	---	1	600	600	500	NE	20	3
GCL	---	5,000	257,500	29,000	87,500	NE	200,000	3,000

Notes:

1. "<" or ND = Not detected at or above the laboratory detection limit.
2. Concentrations are reported in micrograms per liter (µg/l) = parts per billion.
3. Concentrations in bold print equal or exceed the NCDENR 2L Standard (2L).
4. NCDENR = North Carolina Department of Environmental and Natural Resources.
5. GCL = Gross Contamination Level.
6. NE = Not Established.
7. BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes.
8. MTBE = Methyl Tertiary Butyl Ether.
9. Gross Contamination Levels for Groundwater are referenced in the Guidelines for Assessment and Corrective Action, July 2008 and revised January 2010.

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FIGURES



2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

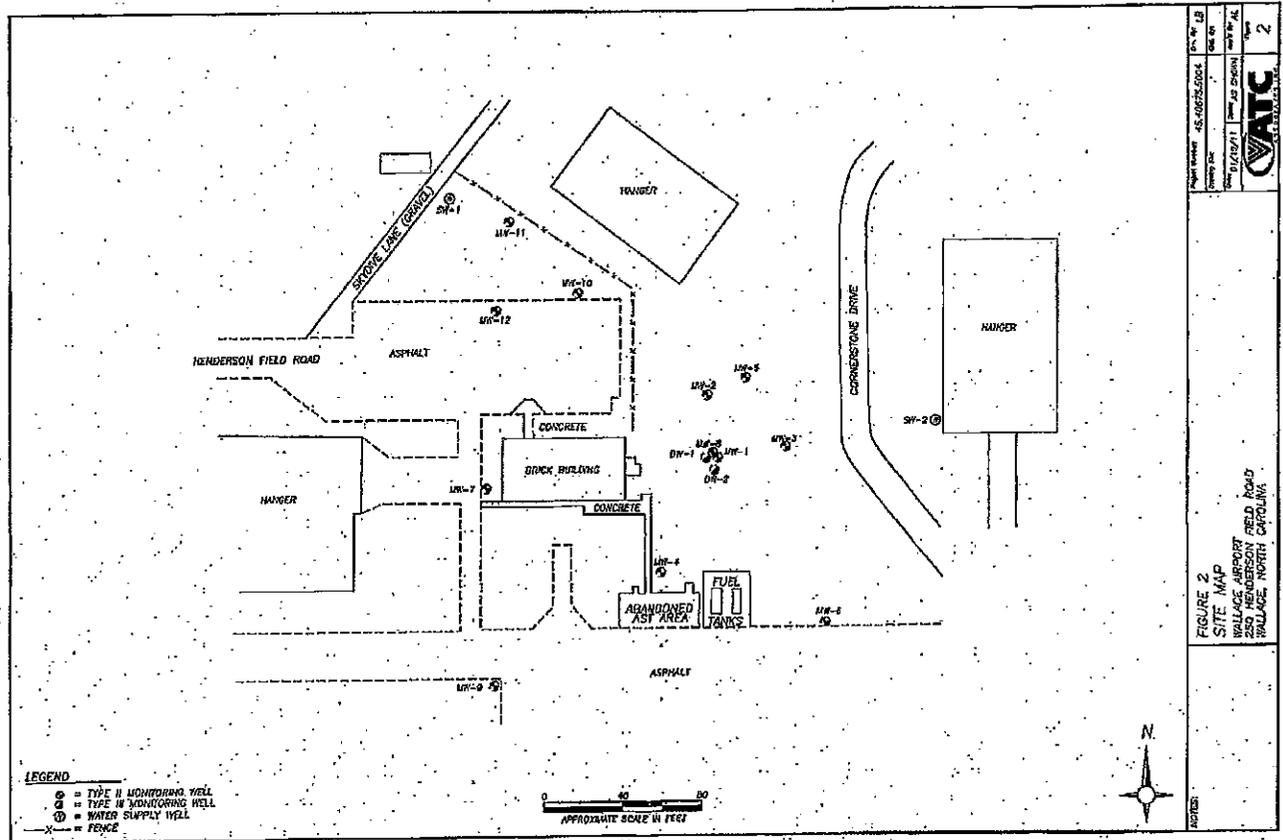
ATC Project No: 45.40675.8004

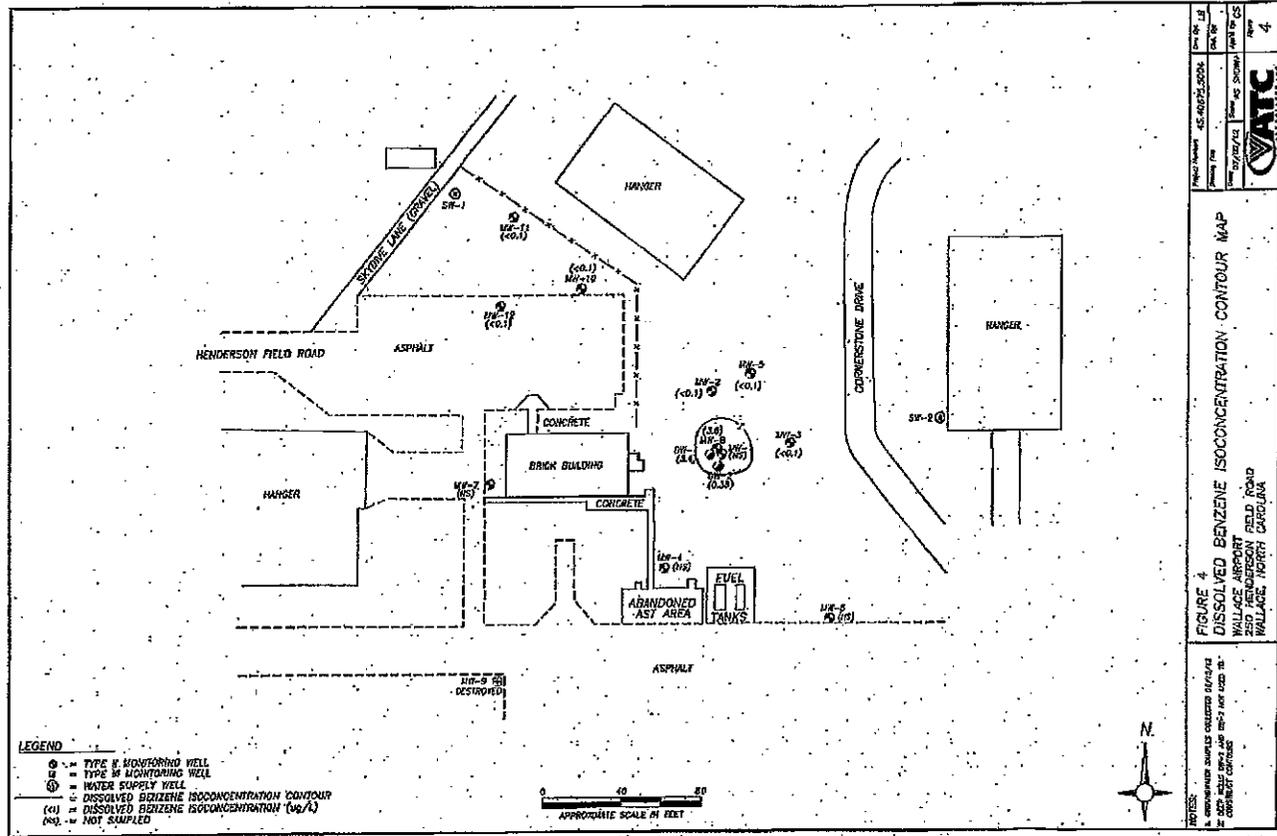
Reviewed By: CS

Scale: 1"=840'

Date: 07/2012

Figure 1
Site Topographic Map
Wallace Airport
250 Henderson Field Road
Wallace, North Carolina





Project Number	45-0000000000	Drawn By	JK
Revision	00	Checked By	JK
Scale	AS SHOWN	Approved By	JK
Date	10/14/14	Project Name	WALLACE AIRPORT FIELD ROAD
Sheet No.	4	Client	WALLACE, NORTH CAROLINA

ATC

FIGURE 4
 DISSOLVED BENZENE ISOCNTRATION CONTOUR MAP
 WALLACE AIRPORT FIELD ROAD
 WALLACE, NORTH CAROLINA

APPENDIX A

LABORATORY ANALYTICAL RESULTS

From: [Weakley, Allison](#)
To: [Benjamin Whitley](#)
Subject: Wallace Airport - Environmentally Sensitive Areas
Date: Thursday, July 25, 2013 2:36:44 PM
Attachments: [wallace airport pender county nc.pdf](#)

Dear Mr. Whitley:

Thank you for contacting the NC Natural Heritage Program about this project. As noted in your email below and the results you received from the NHP map viewer, we do have records for the following rare species within one mile of the project site. The records for the Regal Darner and Eastern Diamondback Rattlesnake are very low accuracy, and the record for Four-toed Salamander is low accuracy; in other words, the locational information associated with these records is not specific (see below).

SCIENTIFIC NAME	COMMON NAME	NC_STATUS	USA_STATUS	SURVEYSITE
<i>Coryphaeschna ingens</i>	Regal Darner	SR	---	Pender County
<i>Crotalus adamanteus</i>	Eastern Diamondback Rattlesnake	E	---	6 MILES WEST OF WALLACE
<i>Hemidactylum scutatum</i>	Four-toed Salamander	SC	---	4.2 KM WEST OF WALLACE.

Other than the records for rare species above, we do know show any records for the following sensitive areas on the proposed project site or within one mile of the site:

- State Parks
- Areas Important to Maintenance of Unique Natural Communities
- Sensitive Areas Identified Under the National Estuary Program Designated State Natural Areas
- State Seashore, Lakeshore and River Recreational Areas
- Rare Species (state and federal Threatened and Endangered)
- Sensitive Aquatic Habitat
- State Wild and Scenic Rivers

Please let me know if you have any questions or need anything further.

Sincerely,

Allison (Schwarz) Weakley, Conservation Planner

[North Carolina Natural Heritage Program](#)

Office of Conservation, Planning and Community Affairs

NC Department of Environment and Natural Resources

1601 Mail Service Center, Raleigh, NC 27699-1601

(919) 707.8629 / allison.weakley@ncdenr.gov

Visit the new NC Conservation Planning Tool website at www.conservationtool.nc.gov!

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Finnegan, John
Sent: Wednesday, July 17, 2013 2:58 PM
To: Weakley, Allison
Subject: FW: Environmentally Sensitive Areas

Allison,

Please respond to the attached information request.

John

From: Benjamin Whitley [mailto:BWhitley@FandR.com]
Sent: Wednesday, July 17, 2013 1:15 PM
To: Finnegan, John
Subject: Environmentally Sensitive Areas

Good afternoon:

I am working on an Environmental Questionnaire as a requirement for NCDENR IHSB (Inactive Hazardous Sites Branch). The Questionnaire is associated with the subject property, located at **250 Henderson Field Road in Wallace, North Carolina (Wallace Airport)**. See attached for a property outline.

The Questionnaire inquires on the presence of "sensitive environments" on the subject property. Sensitive environments are further defined in the "IHSB Guidelines for Assessment and Cleanup" document, and includes:

- State Parks
- Areas Important to Maintenance of Unique Natural Communities
- Sensitive Areas Identified Under the National Estuary Program
- Designated State Natural Areas
- State Seashore, Lakeshore and River Recreational Areas
- Rare Species (state and federal Threatened and Endangered)
- Sensitive Aquatic Habitat
- State Wild and Scenic Rivers

I used the NHP Map Viewer to search for the above items, and included a screen grab of the results. I would greatly appreciate it if someone could review and confirm the results as they relate to the above sensitive areas. Three element occurrences were listed, with no Significant or Managed areas.

Please do not hesitate to contact me for further details or questions, and thank you in advance for any help you can provide.

Regards,

Benjamin Whitley, P.E.
Project Engineer

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PHONE RECORD

Call to: _____ from: _____ rtn: _____ Date: 7-17-13 Time: 1200

Company: NPS Phone No: (404) 507-5706
Fax No: () -

Contact: Anita Barnett Mobile: () -

Project: Wallace Airport

File Number: 66R-0077

Summary: left vm re: sensitive environments

Received By: BAW

PLACE IN FILE FOLDER

From: [Berner, Ruth -FS](#)
To: [Benjamin Whitley](#)
Subject: RE: Environmentally Sensitive Areas, Wallace Airport NC
Date: Wednesday, July 17, 2013 1:53:17 PM

The U.S. Forest Service has NO CONCERNS regarding any sensitive environments at or in the vicinity of the project site identified in Pender County, NC.

Ruth Berner
National Forests in North Carolina
Forest Planner
828-257-4862

From: Benjamin Whitley [mailto:BWhitley@FandR.com]
Sent: Wednesday, July 17, 2013 1:44 PM
To: Berner, Ruth -FS
Subject: Environmentally Sensitive Areas, Wallace Airport NC

Good afternoon Ms. Berner:

I am working on an Environmental Questionnaire as a requirement for NCDENR IHSB (North Carolina Department of Environment and Natural Resources Inactive Hazardous Sites Branch). The Questionnaire is associated with the subject property, located at **250 Henderson Field Road in Wallace, North Carolina (Wallace Airport)**. See attached for a property outline.

The Questionnaire inquires on the presence of "sensitive environments" on the subject property. Sensitive environments are further defined in the "IHSB Guidelines for Assessment and Cleanup" document, and includes:

- Designated and Proposed Federal Wilderness and Natural Areas
- National Preserves and Forests
- Federal Land designated for the protection of Natural Ecosystems

You were listed within the Guidelines document as the US Forest Service contact who could identify the above sensitive environments. Please let me know if any of these areas are located on the property.

Please do not hesitate to contact me for further details or questions, and thank you in advance for any help you can provide.

Regards,

Benjamin Whitley, P.E.
Project Engineer

FROEHLING & ROBERTSON, INC.
310 Hubert Street, Raleigh, NC 27603 | USA
T 919.719.1960 | F 919.828.5751 | M 919.630.5661

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From: Deamer, Nora
To: Benjamin Whitley
Subject: RE: Environmentally Sensitive Areas, Wallace Airport NC
Date: Wednesday, July 17, 2013 4:24:53 PM

Good Afternoon,

In Reviewing the information for the property at 250 Henderson Field Rd. , Wallace NC, I have determined that this area is classified as "environmentally sensitive".

The property at 250 Henderson Field Rd. in Wallace NC is located at the confluence of Stills Creek and Rock Fish Creek in the Northeast Cape Fear River watershed (HUC 0303000705). The streams in this section of the Northeast Cape Fear River watershed are classified as C, sw (swamp water). This is a highly sensitive aquatic ecosystem. All of these systems have low dissolved oxygen issues. The lower portion of the Northeast Cape Fear River is also classified as a primary nursery area (PNA) for local fish species and drain to the Cape Fear River Estuary. The Northeast Cape Fear River is impaired for Copper standard violations and the Cape Fear River Estuary is impaired due to Low Dissolved Oxygen standard violations (2012 NC 303(d)/305(b) list).

The coastal plain region including the Northeast Cape Fear River and the Cape Fear River Estuary is also highly sensitive to mercury. While the entire State of NC is impaired due to fish tissue mercury levels, mercury in this region becomes readily bioavailable and finds its way up the food chain.

There are also federally endangered fish species in this stretch that need to be protected (Atlantic Sturgeon and Shortnose Sturgeon). Any activity on this property needs to eliminate sediment, nutrients and any other pollutants from running offsite. These will have a direct impact on water quality of the Cape Fear River system and the aquatic species that inhabit the area.

Please let me know if you have any questions.

Thank you and have a great evening.

Nora

Nora Deamer
Basinwide Planner
DENR-Division of Water Quality
Planning Section
1617 MSC, Raleigh, NC 27699-1617
919-807-6431
nora.deamer@ncdenr.gov
<http://portal.ncdenr.org/web/wq/ps/bpu>

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From: Benjamin Whitley [mailto:BWWhitley@FandR.com]
Sent: Wednesday, July 17, 2013 3:00 PM
To: Deamer, Nora
Subject: Environmentally Sensitive Areas, Wallace Airport NC

Good afternoon Ms. Deamer:

I am working on an Environmental Questionnaire as a requirement for NCDENR IHSB (North Carolina Department of Environment and Natural Resources Inactive Hazardous Sites Branch). The Questionnaire is associated with the subject property, located at **250 Henderson Field Road in Wallace, Pender County, North Carolina (Wallace Airport)**. See attached for a property outline.

The Questionnaire inquires on the presence of "sensitive environments" on the subject property. Sensitive environments are further defined in the "IHSB Guidelines for Assessment and Cleanup" document, and includes:

- State-Designated Areas for Protection or Maintenance of Aquatic Life

Please let me know if any of these areas are located on the property.

Also, please do not hesitate to contact me for further details or questions if needed, and thank you in advance for any help you can provide.

Regards,

Benjamin Whitley, P.E.
Project Engineer

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PHONE RECORD

Call to: from: rtn: Date: 7-17-13 Time: 1405

Company: NC Div of Forest Resources Phone No: (919) 857-4819
Fax No: () -

Contact: Chris Carlson Mobile: (919) 632-0185

Project: Wallace Airport
File Number: 66R-0077

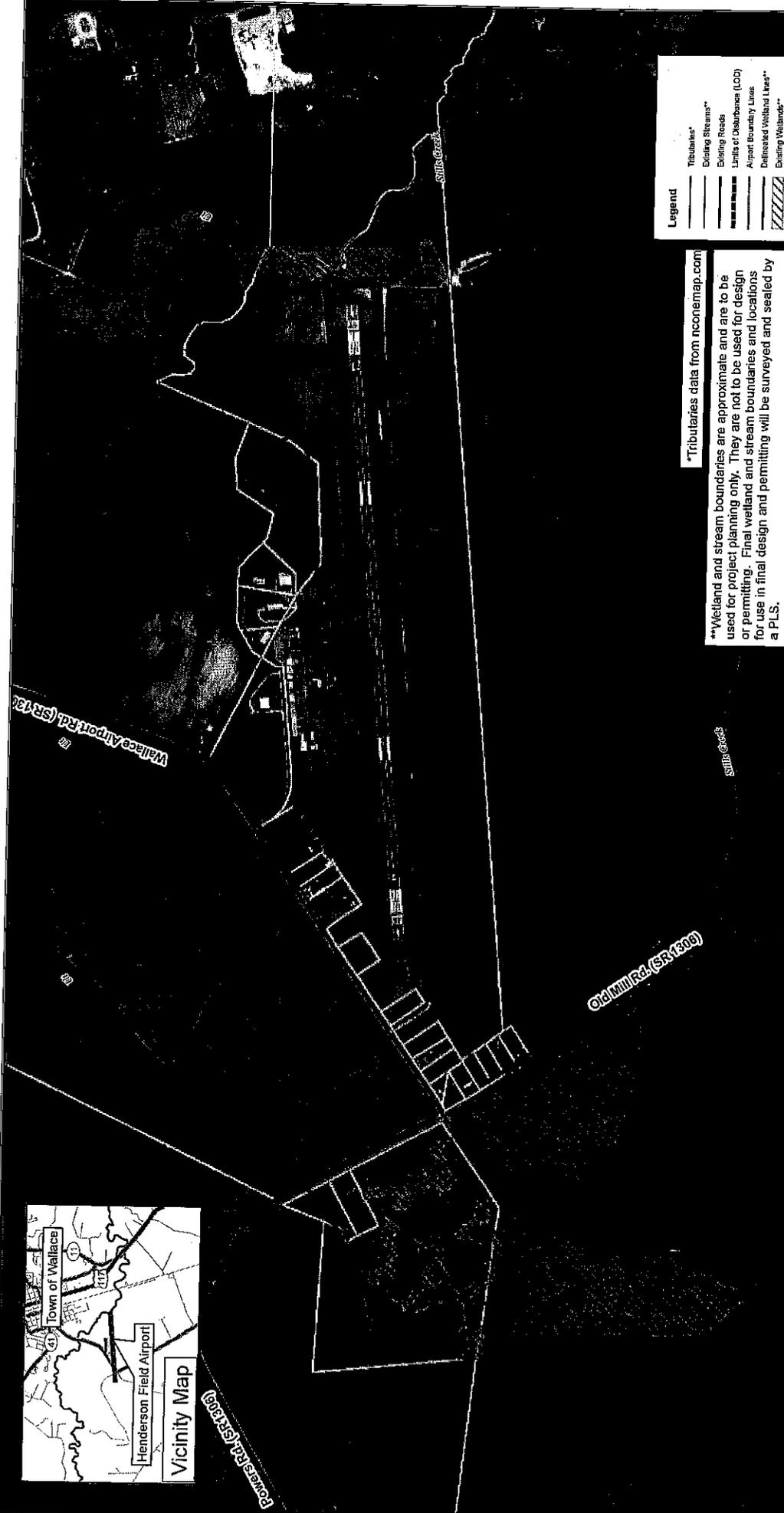
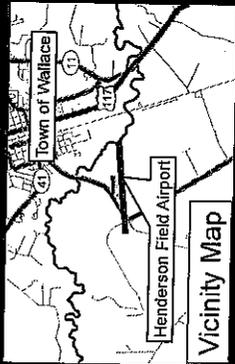
Summary: left vm

7-20 left vm

7-29 RTW - no state or federal presence in the area

Received By: BAW

PLACE IN FILE FOLDER



Legend

- Tributaries*
- Existing Streams**
- Existing Roads
- Limits of Disturbance (LOD)
- Airport Boundary Lines
- Delimited Wetland Lease**
- Existing Wetlands**

*Tributaries data from rconemap.com

**Wetland and stream boundaries are approximate and are to be used for project planning only. They are not to be used for design or permitting. Final wetland and stream boundaries and locations for use in final design and permitting will be surveyed and sealed by a PLS.



WK DICKSON

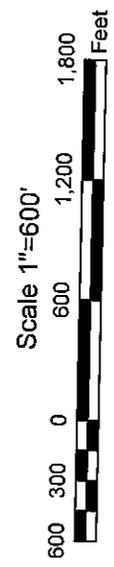
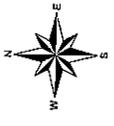


Figure 3
Waters of the US - Existing Conditions
Henderson Field Airport
Wallace, NC

