FOURTH SUPERFUND FIVE-YEAR REVIEW REPORT
NATIONAL STARCH & CHEMICAL COMPANY SUPERFUND SITE
SALISBURY, ROWAN COUNTY, NORTH CAROLINA
EPA ID: NCD 991 278 953

Prepared by

U.S. Environmental Protection Agency
Region 4
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With the Assistance of
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Approved by:

Signature

for Franklin E. Hill, Director
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9/24/12
Date

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Table of Contents

Page #

List of Acronyms ..... *vii*
Executive Summary ..... *ix*
Five-Year Review Summary Form xi

1 Introduction 1
2 Site Chronology 2
3 Background 4
3.1 Physical Characteristics 4
3.2 Land and Resource Use 5
3.3 History of Contamination 6
3.4 Initial Response 7
3.5 Basis for Taking Action 7
3.5.1 Operable Unit 1 7
3.5.2 Operable Unit 2 8
3.5.3 Operable Unit 3/Operable Unit 4 8
4. Remedial Actions 9
4.1 Operable Unit 1 10
4.1.1 Remedy Selection 10
4.1.2 Remedy Implementation 11
4.1.3 System Operations/Operation & Maintenance 13
4.2 Operable Unit 2 13
4.2.1 Remedy Selection 17
4.2.2 Remedy Implementation 17
4.2.3 System Operations/Operation & Maintenance 17
4.3 Operable Unit 3 17
4.3.1 Remedy Selection 18
4.3.2 Remedy Implementation 19
4.3.3 System Operations/Operation & Maintenance 20
4.4 Operable Unit 4 20
4.4.1 Remedy Selection 21
4.4.2 Remedy Implementation 22
4.4.3 System Operations/Operation & Maintenance 22
5. Progress since the Last Five-Year Review 23
6. Five-Year Review Process 24
6.1 Administrative Components 24
6.2 Community Notification and Involvement 26
6.3 Document Review 26
6.4 Data Review 29
6.4.1 Operable Unit 1 29
6.4.2 Operable Unit 2 41
6.4.3 Operable Unit 3 43
6.4.4 Operable Unit 4 56
6.5 Site Inspection 58
6.6 Interviews 62

Table of Contents

Page #

7. Technical Assessment 63
   7.1 Question A: Is the Remedy Functioning as Intended by the Decision Documents? 63
   7.2 Question B: Are the Exposure Assumptions, Toxicity Data, Clean-up Levels, and Remedial Action Objective s Used at the Time of the Remedy Still Valid? 64
   7.3 Question C: Has Any Other Information Come to Light that Could Call into Question the Protectiveness of the Remedy(ies)? 65
   7.4 Technical Assessment Summary 65
8. Issues 65
9. Recommendations and Follow-Up Actions 66
10. Protectiveness Statement 68
   10.1 Operable Unit 1 68
   10.2 Operable Unit 2 68
   10.3 Operable Unit 3 68
   10.4 Operable Unit 4 69
11. Next Review 69

Tables

Page #

1 Chronology of Site Events 2
2 Groundwater Performance Standards for Operable Unit 1 and Operable Unit 3; Current Federal Maximum Contaminant Levels and North Carolina Groundwater Standards; and A Comparison between Existing Chemical-Specific Applicable or Relevant and Appropriate Requirements and New Standards 14
3 Summary of Remediation Costs 16
4 Status of 2007 Recommendations and Follow-Up Actions from 2007 25
5 Historical Analytical Results – Operable Unit 1 Extraction and Monitoring Wells ..... Located at End of Report
6 Operable Unit 2 Trench Area Soil Analytical Results ..... Located at End of Report
7 Historical Analytical Results – Operable Unit 3 Extraction and Monitoring Wells ..... Located at End of Report
8 Northeast Tributary Surface Water and Sediment Monitoring 45
9 Operable Unit 4 Soil-Gas Analytical Results 59
10 Operable Unit 4 Soil Analytical Results 60
11 Deed Document from Rowan County Register of Deeds Website 62
12 Institutional Control (IC) Summary Table 62
13 List of Significant Issues 66
14 Recommendations and Follow-Up Actions 67

Figures

1 USGS Topographic Map
2 Site Plan
3 Potentiometric Surface of the Saprolite Aquifer – December 2011
4 Potentiometric Surface of the Shallow Bedrock Aquifer – December 2011
5 Potentiometric Surface of the Deep Bedrock Aquifer – December 2011
6 EX-5 and EX-9 Simulated Steady-State Capture Zones in Shallow Bedrock (Model Layer 3)
7 EX-5, EX-9, and EX-11 Simulated Steady-State Capture Zones in Shallow Bedrock (Model Layer 3)
8 Volatile Organic Compounds, Semi-Volatile Organic Compounds and Metals in Operable Unit 1 Groundwater – Saprolite Wells
9 Volatile Organic Compounds and Semi-Volatile Organic Compounds in Operable Unit 1 Groundwater – Shallow Bedrock Wells
10 Metals in Operable Unit 1 Groundwater – Shallow Bedrock Wells
11 Volatile Organic Compounds, Semi-Volatile Organic Compounds, and Metals in Operable Unit 1 Groundwater – Deep Bedrock Wells
12 Operable Unit 2 Soil Sampling Locations
13 Potentiometric Surface of the Saprolite Aquifer (Lagoon Area)
14 Potentiometric Surface of the Shallow Bedrock Aquifer (Lagoon Area)
15 IWB-1 Simulated Steady-State Capture Zone in Saprolite at 15 gpm
16 IWB-1 Simulated Steady-State Capture Zone in Saprolite at 30 gpm
17 Volatile Organic Compounds, Semi-Volatile Organic Compounds, and Metals in Operable Unit 3 Groundwater – Saprolite Wells
18 Volatile Organic Compounds, Semi-Volatile Organic Compounds, and Metals in Operable Unit 3 Groundwater – Shallow Bedrock Wells
19 Volatile Organic Compounds, Semi-Volatile Organic Compounds, and Metals in Operable Unit 3 Groundwater – Deep Bedrock Wells
20 Soil Vapor and Air Sparge Locations
21 Operable Unit 4 Soil Sampling Results

Appendices

A References
B Deed Notice
C. Mann-Kendall Statistical Evaluation
D. Public Notice Published in the Salisbury Post on Thursday, September 6, 2012

Acronyms/Abbreviations

ACI	Acceptable Chronic Intake
AkzoNobel	AkzoNobel Surface Chemistry, LLC
AOC	Administrative Order of Consent
ARARs	Applicable or Relevant and Appropriate Requirements
ARCADIS	ARCADIS G&M of North Carolina, Inc.
btoc	below top of casing
CAP	Community Advisory Panel
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR	Code of Federal Regulations
COC	constituent of concern
CT	collection trench
dba	doing business as
DNAPL	dense nonaqueous-phase liquid
1,2-DCA	1,2-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCP	1,2-dichloropropane
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
EQ	equalization
ERD	Enhanced Reductive Dechlorination
ESD	Explanation of Significant Difference
FS	feasibility study
ft bls	feet below land surface
ft/day	feet per day
ft/yr	feet per year
FYR	Five-Year Review
gpm	gallons per minute
GWPTS	groundwater pretreatment system
HRS	Hazardous Ranking System
HSU	hydrostratigraphic unit
IT	International Technology Corporation
IWB	Injection Well Bedrock
LTRA	Long-Term Remedial Actions
MCL	Maximum Contaminant Level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mV	milliVolt
NAPL	nonaqueous-phase liquid
NCAC 15-2B	North Carolina Administrative Code Title 15A Subchapter 2B, Classification and Water Quality Standards Applicable to the Surface Waters and Wetlands of North Carolina
NCAC 15A- 2L	North Carolina Administrative Code Title 15A Subchapter 2L, Groundwater Classification and Standards
NCDENR	North Carolina Department of Environment and Natural Resources

Acronyms/Abbreviations

NCP	National Oil and Hazardous Substance Contingency Plan
NPL	National Priorities List
NSCC	National Starch & Chemical Company
O&M	operation and maintenance
OU	Operable Unit
OSWER	Office of Solid Waste and Emergency Response
OWB	Observation Well Bedrock
OWS	Observation Well Saprolite
PCE	tetrachloroethene
PCOR	Preliminary Close Out Report
PDB	passive diffusion bag
PID	photoionization detector
PPES	Plume Periphery Extraction System
POTW	Publicly-Owned Treatment Works
PSRG	Preliminary Soil Remediation Goal
PRP	Potentially Responsible Party
PVP	Performance Verification Plan
RA	remedial action
RAO	Remedial Action Objective
RD	remedial design
RD/RA	Remedial Design/Remedial Action
R_fD	reference dose
RI	remedial investigation
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
ROI	radius of influence
SAP	Sampling and Analysis Plan
SCM	site conceptual model
SDWA	Safe Drinking Water Act
SVE	soil vapor extraction
SVOC	semi-volatile organic compounds
TAES	Trench Area Extraction System
TCE	trichloroethene
TCL	target compound list
UAO	Unilateral Administrative Order
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
EPA	United States Environmental Protection Agency
USGS	United States Geologic Survey
VOC	volatile organic compound

EXECUTIVE SUMMARY

The National Starch & Chemical Company (NSCC) Superfund Site (Site; EPA ID # NCD 991 278 953) is located in the City of Salisbury, Rowan County, North Carolina. This is an active manufacturing facility currently owned and operated by AkzoNobel Surface Chemistry, LLC (AkzoNobel). The NSCC facility was included on the National Priorities List (NPL) in October 1989. This is the fourth Five-Year Review of the NSCC Site. The triggering action for this statutory review was the signing of the most recent Five-Year Review on September 28, 2007.

The NSCC Superfund Site consists of four operable units (OUs):

- OU1: groundwater impacts attributed to historic use of wastewater effluent trenches (Trench Area) on the western portion of the Site.
- OU2: soil impacts in the vicinity of the former wastewater trenches.
- OU3: groundwater impacts attributed to former unlined wastewater treatment lagoons, underground terra-cotta process wastewater lines, and miscellaneous spills within the drainage basin of the Northeast Tributary.
- OU4: soil impacts attributed to former unlined wastewater treatment lagoons, underground terra-cotta process wastewater lines, and miscellaneous spills.

Constituents of concern associated with the Site include volatile organic compounds (VOCs); primarily 1,2-dichloroethane, 1,2-dichloropropane, acetone, ethylbenzene, toluene, and xylenes and semi-volatile organic compounds (SVOCs); primarily bis(2-chloroethyl) ether. Manganese, which is naturally-occurring, is also a primary constituent present in groundwater due to increased dissolution as a result of reducing conditions, and was not a component of the original wastewater discharge. The OU1 and OU3 groundwater remedies include groundwater extraction, pretreatment, and discharge to the publicly owned treatment works (POTW) owned by the City of Salisbury. OU2 is a no action alternative (e.g., natural flushing) with long term monitoring of constituents of concern in soils. A soil vapor extraction (SVE) system was implemented in OU4 to address VOCs in vadose zone soils. The Preliminary Close Out Report (PCOR) documents that construction activities were completed at all four OUs at the Site in accordance with Close Out Procedures for NPL Sites was finalized in September 2010.

The clean-up levels issued in the RODs do not meet the more stringent groundwater standards of the current North Carolina Classification and Water Quality Standards, Subchapter 2L of the North Carolina Administrative Code (NCAC 2L) and/or the Maximum Contaminant Levels (MCLs) for several compounds. Although the remediation goals do not reflect the new standards, there are no known current exposure routes to contaminated soil or groundwater that would cause the Site to not be protective in the short term.

The Site remedies addressing potential soil exposures are protective of human health and the environment in the short term. The OU2 Trench Area and the OU4 Production and Lagoon Areas remain covered eliminating direct contact threats and the deed restrictions are in place. The contingent remedy, SVE, was implemented in the OU4 Production Area in 2009. The OU1 and OU3 remedies are also protective in the short term as there are no current onsite groundwater receptors and the nearest private, potable wells are located approximately 2,700 feet from any

onsite source and there is no indication of contaminated groundwater or surface water leaving the Site. The groundwater pumping array in both the OU1 Trench Area and the OU3 Lagoon Area are currently being re-evaluated, and at least two additional extraction wells (EX-11 and IWB-1, respectively) will be added to the remedial action in 2012 to improve plume capture. To assess long term protectiveness of the groundwater extraction remedy, an evaluation of the current capture zone is needed to ascertain whether adequate capture of the plume has been achieved and can be maintained.

Five-Year Review Summary Form		
SITE IDENTIFICATION		
Site Name: National Starch & Chemical Company		
EPA ID: NCD 991 278 953		
Region: 4	**State:** NC	**City/County:** Salisbury/Rowan
SITE STATUS		
NPL Status: Final		
Multiple OUs? Yes (4)	**Has the site achieved construction completion?** Yes	
REVIEW STATUS		
Lead agency: EPA		
Author name: Elizabeth Rhine, ARCADIS, Jon Bornholm, EPA		
Review period: October 2011 – August 2012		
Date of site inspection: April 04, 2012		
Type of review: Statutory		
Review number: 4		
Triggering action date: September 28, 2007		
Due date *(five years after triggering action date)*: September 28, 2012		

Five-Year Review Summary Form (continued)				
Issues/Recommendations				
Issues and Recommendations Identified in the Five-Year Review:				
OU(s): 1 and 3	Issue Category: Monitoring			
	Issue: Continued high method detection levels for groundwater analyses			
	Recommendation: Work with laboratories conducting analytical analyses to resolve the high method detection levels			
Affect Current Protectiveness	Affect Future Protectiveness	Implementing Party	Oversight Party	Milestone Date
No	Yes	PRP	EPA/State	September 30, 2017
OU(s): 1, 3 and 4	Issue Category: Institutional Controls			
	Issue: Deed Recordation presently in place does not reflect current potential chemical-specific Applicable or Relevant and Appropriate Requirements			
	Recommendation: Amend, if necessary, present deed recordation or replace existing deed recordation with NCDENR Perpetual Land Use Restriction language			
Affect Current Protectiveness	Affect Future Protectiveness	Implementing Party	Oversight Party	Milestone Date
No	Yes	PRP	EPA/State	September 30, 2014
OU(s): 2	Issue Category: Operations and Maintenance			
	Issue: Before Site can be considered for deletion, the issue of how clean is clean for the soils in the Trench Area needs to be addressed			
	Recommendation: Conduct a focus risk assessment/leachate study to determine what contaminant concentrations can be left in the soils in the Trench Area and still be protective of human health and the environment			
Affect Current Protectiveness	Affect Future Protectiveness	Implementing Party	Oversight Party	Milestone Date
No	Yes	PRP	EPA/State	September 30, 2022
OU(s): 1	Issue Category: Operations and Maintenance			
	Issue: Trench Area Extraction System may not be achieving complete hydraulic capture			
	Recommendation: Conduct groundwater capture zone analysis of the Trench Area Extraction System and install additional wells (monitoring and/or extraction) if needed			
Affect Current Protectiveness	Affect Future Protectiveness	Implementing Party	Oversight Party	Milestone Date
No	Yes	PRP	EPA/State	September 30, 2014

Five-Year Review Summary Form (continued)

Issues/Recommendations

Issues and Recommendations Identified in the Five-Year Review:

OU(s): 3	Issue Category: Monitoring			
	Issue: Extent of recently discovered deep bedrock contamination in the Operable Unit 3 Lagoon Area is unknown			
	Recommendation: Complete the delineation of contamination in the deep bedrock zone of the aquifer in the Operable Unit 3 Lagoon Area			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Implementing Party**	**Oversight Party**	**Milestone Date**
No	Yes	PRP	EPA/State	September 30, 2015

Protectiveness Statement(s)

Operable Unit: **1** *Protectiveness Determination:* **Short-term Protective**

Protectiveness Statement:

The remedy at OU1 currently protects human health and the environment in the short term because there are no current on-site groundwater receptors and the nearest private, potable wells are located approximately 2,700 feet southwest and there is no indication of contaminated groundwater or surface water exiting the Site. However, in order for the OU1 remedy to be protective in the long-term, a groundwater capture zone analysis of the groundwater extraction system needs to be conducted after extraction well EX-11 is brought online to ensure the plume emanating from the Trench Area is being captured and evaluate the need to update the deed recordation.

Operable Unit: **2** *Protectiveness Determination:* **Short-term Protective**

Protectiveness Statement:

OU2 was a No Action ROD that addressed the contaminated soils associated with the Trench Area. The No Action at OU2 currently protects human health and the environment in the short term because the soil cover over the Trench Area prevents direct contact to contaminated soil and deed restrictions are in place. However, in order for the OU2 remedy to be protective in the long-term, an end point for soil monitoring needs to be defined based on what concentrations of the contaminants detected in the soils in the Trench Area will allow for unlimited use and unrestricted exposure.

Five-Year Review Summary Form (continued)

Protectiveness Statement(s)

Operable Unit: **3** *Protectiveness Determination:* **Short-term Protective**

Protectiveness Statement:

The remedy at OU3 currently protects human health and the environment in the short term because there are no current onsite groundwater receptors and the nearest private, potable wells are located approximately 2,700 feet north and there is no indication of contaminated groundwater or surface water exiting the Site. However, in order for the OU3 remedy to be protective in the long-term, the vertical extent of groundwater contamination in this area needs to be completed and the need to update the deed recordation needs to occur.

Operable Unit: **4** *Protectiveness Determination:* **Short-term Protective**

Protectiveness Statement:

The contingent remedy for OU4, soil vapor extraction, was recently installed and implemented. OU4 addresses the contaminated soil beneath the production area. The OU4 remedy currently protects human health and the environment in the short term because adversely impacted soil is covered with an impervious cover (asphalt or concrete) that prevents direct contact to contaminated soil and deed restrictions are in place. However, in order for the OU4 remedy to be protective in the long-term, the soil vapor extraction system needs to achieve the cleanup level specified in the OU4 ROD and the need to update the deed recordation needs to occur.

Overall Protectiveness Statement:

The Site remedies addressing potential soil exposures (OU2 and OU4) are protective of human health and the environment in the short term as there are no direct contact risks and deed restrictions are in place. The OU1 and OU3 remedies are also protective in the short term as there are no current on-site groundwater receptors and the nearest private, potable wells are located approximately 2,700 feet from any onsite source and there is currently no indication of contaminated groundwater or surface water exiting the site. However, in order for these remedies to be protective in the long-term, the following actions need to be taken: a capture zone analysis is needed to ascertain whether adequate capture of the plumes is being achieved and if these capture zones are being maintained at OU1, complete the delineation of deep bedrock contamination in the Lagoon Area (OU3), and determine if the deed recordation needs to be updated.

Fourth Five-Year Review Report
National Starch & Chemical Company Superfund Site
Salisbury, North Carolina

1.0 Introduction

The purpose of the Five-Year Review (FYR) is to determine whether the remedy at a site is protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in FYR reports. In addition, FYRs identify issues, if any, and recommendations to address them.

The U. S. Environmental Protection Agency (EPA) prepares FYRs pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121 and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). CERCLA § 121(c), as amended states:

> *If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each five years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented. In addition, if upon such review it is the judgment of the President that action is appropriate at such site in accordance with section [104] or [106], the President shall take or require such action. The President shall report to the Congress a list of facilities for which such review is required, the results of all such reviews, and any actions taken as a result of such reviews.*

EPA interpreted this requirement further in the NCP; Title 40 Code of Federal Regulations (CFR) Section 300.430(f)(4)(ii), which states:

> *If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such actions no less often than every five years after the initiation of the selected remedial action.*

The EPA has conducted its fourth FYR of the remedial actions (RAs) implemented at the National Starch & Chemical Company (NSCC) Superfund Site (Site)(EPA ID # NCD 991 278 953), which is located in the City of Salisbury, Rowan County, North Carolina. The NSCC Site consists of four operable units (OUs), encompassing remedies for Site soil, surface water, sediment, and groundwater. The completion dates for the three previous FYR reports are highlighted in **Table 1**.

The FYR was conducted from October 2011 through August 2012 and incorporates data collected through first quarter 2012. This is the fourth FYR of the NSCC site. The triggering action for this statutory review was the signing of the third FYR on September 28, 2007. The 2007 FYR was inadvertently titled the Second FYR, when in fact it was the Third. The FYR is required due to the

fact that waste remains on Site and does not allow for unlimited use and unrestricted exposure and the groundwater remedy continues to operate and will require more than five years to complete.

2.0 Site Chronology

Table 1 lists chronologically the major milestones of activities at the Site.

Table 1 Chronology of Site Events

Event	Date
Proctor Chemical Company purchased the 465-acre tract	September 1968
Construction of facility	1970
Site proposed for National Priorities List (NPL)	April 1985
Special notice letter to conduct Remedial Investigation/Feasibility Study (RI/FS)	May 30, 1986
Administrative Order on Consent signed	December 1, 1986
RI/FS Work Plan	December 1986
Site re-proposed for NPL	June 1988
First RI Report [for Operable Unit (OU) #1]	June 21, 1988
First FS Document (OU #1)	September 8, 1988
Proposed Plan Fact Sheet	September 1988
Proposed Plan Public Meeting (OU #1)	September 14, 1988
Proposed Plan public comment period (OU #1)	September 3 - 24, 1988
OU #1 Record of Decision (ROD) Signed, divided Site into two OUs, created OU #2	September 30, 1988
Issued Special Notice Letter to conduct Remedial Design/Remedial Action (RD/RA) for OU #1	March 27, 1989
Unilateral Administrative Order issued to perform OU #1 RD/RA	July 27, 1989
Site finalized on NPL	October 1989
Supplemental RI Report for OU #2	May 1990
Initiation of OU #1 construction - building access roads to bedrock plume periphery extraction well locations	August 14, 1990
Installation of four bedrock plume periphery extraction wells	August 30 - November 14, 1990
Proposed Plan for OU #2	July 1990
Proposed Plan public comment period	July 30 - August 29, 1990
Supplemental FS Document for OU #2	September 1990
ROD for OU #2 signed, divided Site into three OUs, created OU #3	September 28, 1990
Consent Decree for OU #2	CD signed August 1991, entered in Federal Court on July 20, 1992
OU #3 RI Report	June 2, 1993
OU #3 FS Document	June 21, 1993

Table 1 Chronology of Site Events	
Event	**Date**
Proposed Plan Fact Sheet for OU #3	July 15, 1993
Construction of trench area extraction wells and pretreatment system	July 1993 - February 1996
OU #3 Proposed Plan Public Meeting	August 3, 1993
Proposed Plan public comment period	July 19 - August 17, 1993
ROD for OU #3 signed, divided Site into 4 OUs, created OU #4	October 7, 1993
OU #4 RI Report (used June 1993 OU #3 Remedial Investigation)	June 1993
OU #4 Feasibility Study Document	June 20, 1994
Proposed Plan Fact Sheet for OU #4	July 8, 1994
OU #4 Proposed Plan public comment period	July 12 - August 11, 1994
OU #4 Proposed Plan Public Meeting	July 26, 1994
ROD for OU #4	October 6, 1994
Unilateral Administrative Order for OU #3 and OU #4 RD/RA	September 29, 1995
Initiated OU #3 and OU #4 RD	October 1995
Construction Completion for OU #1 Remedial Action	March 1996
First Five-Year Review Report	June 18, 1996
Initiated OU #4 Natural Degradation Treatability Study - Phase I	December 1996
First Explanation of Significant Difference	June 10, 1997
Completed OU #4 Natural Degradation Treatability Study - Phase I	March 26, 1998
OU #3 RD completed	June 1998
Second Explanation of Significant Difference	November 4, 1998
Initiation of OU #3 Remedial Action	June 15, 1999
Initiation of OU #1 + OU #3 Combined Pretreatment System	September 23, 1999
Plume Periphery Extraction System (PPES) was shut down	January 2000
Completion of OU #1 + OU #3 Combined Pretreatment System	February 18, 2000
Construction Completion for OU #3	February 18, 2000
Initiated OU #4 Natural Degradation Treatability Study - Phase II	November 5, 2001
Second Five-Year Review Report	September 27, 2002
Complete OU #1 Plume Periphery Evaluation	July 2003
Implement Recommendations of OU #1 Plume Periphery Evaluation	September 2003
Completed Supplemental OU1 Remedy Evaluation Report	January 2005
Complete OU #4 Natural Degradation Treatability Study - Phase II	Fall 2006
Initiated the Third Five-Year Review effort	March 2007
Initiated Delineation of Soil Contamination and Focused FS on Remediation Technologies for OU4	April 2007
Third Five-Year Review Report	September 28, 2007
Complete evaluation of Remediation Technologies for OU4	October 2007
AkzoNobel Surface Chemistry, LLC (AkzoNobel) purchased property/facility from Indopco Inc. [dba] NSCC, a member of the ICI group of companies	2008

Table 1 Chronology of Site Events	
Event	**Date**
Groundwater Pretreatment System was inoperable due to damage by fire	October 17, 2008 - October 2010
Implement Selected Remedial Alternative(s) for OU4	December 2008
Complete Construction Phase of OU4	December 2009
Modification of the Annual Site-Wide Groundwater Sampling Plan	September 2009
Superfund Preliminary Close-Out Report (PCOR)	September 29, 2010
Initiated the Fourth Five-Year Review effort	October 2011
2011 Site Monitoring Report	June 20, 2012

3.0 Background

This section includes a description of the Site and its surroundings, Site operations and history, and regulatory history.

3.1 Physical Characteristics

The NSCC Site is located on Cedar Springs Road in Salisbury, Rowan County, North Carolina (**Figure 1**), approximately five miles south of the city of Salisbury (**Figure 1**), approximately 40 miles northeast of Charlotte. This is an active manufacturing facility owned and operated by AkzoNobel Surface Chemistry, LLC (AkzoNobel). Prior to 2008, the Site was entirely owned and operated by Indopco Inc. [dba] NSCC, a member of the ICI group of companies. The transfer of ownership of this facility occurred in 2008. AkzoNobel is the only Potentially Responsible Party (PRP) and is responsible for management of environmental activities at this Site.

The Site is situated on a 500-acre parcel and includes operating laboratory and manufacturing facilities (Production Area) in the southeast portion of the property. Commercial, industrial, and residential developments surround the Site. The Site is currently owned and occupied by AkzoNobel, with the exception of 50 acres along the northeastern portion of the facility, which is owned and operated by Henkel Corporation. Grants Creek forms the western property boundary. Two separate tributaries of Grants Creek, the Unnamed Tributary and the Northeast Tributary, are located in the southwest and northeast portions of the Site, respectively. **Figure 2** presents a Site map.

The Site is located on top of the complex Piedmont Physiographic Province geologic formation which has led to an equally complex groundwater flow system. Topographic highs (the upland ridges) act as the principle areas of groundwater recharge, and perennial streams represent discharge boundaries where groundwater flows to the surface as diffuse seepage or from springs. The path of natural groundwater flow is relatively short and, in most cases, is restricted to the saprolite and shallow bedrock underlying the slope.

The hydrogeologic profile at the Site includes a three unit system: saprolite, shallow bedrock and deep bedrock. The saprolite across the Site ranges in thickness from approximately 80 feet in the

Trench Area to approximately 10 feet near the Unnamed Tributary to the west and 115 feet in the Lagoon Area to approximately 10 feet near the Northeast Tributary to the east. The saprolite is characterized as mixed silt and clay at shallower depths with an increasing percentage of sand-sized grains with depth. Just above the competent bedrock, the soil is primarily composed of partially weathered bedrock and coarse sand. The weathering characteristics of the saprolite at the site are consistent with a typical Piedmont weathering profile. The base of the saprolite unit is defined as the depth of refusal encountered when drilling with hollow stem augers. The coarser grained sands and partially weathered rock represent the initial stages of the chemical weathering process from bedrock to saprolite and has unique geologic and hydrogeologic properties; however, the transition zone between saprolite and shallow bedrock cannot be distinguished in most locations based on boring logs for the site, which lack significant resolution to determine the vertical and lateral extent of this zone. Therefore, where present, the coarser grained unconsolidated zone is included within the saprolite zone for the purpose of describing hydrostratigraphic units (HSUs).

Underlying the saprolite is the shallow bedrock unit. Generally speaking, the shallow bedrock is characterized with close fracture spacing (2-inch to 1-foot spacing) in the upper portion of the shallow bedrock. The transition from highly fractured to less fractured is gradual and varies in depth across the site, generally 50 to 200 feet into the bedrock. The final underlying unit is the deep bedrock. The deep bedrock is a continuation of the shallow bedrock unit, with no distinct contact between these units. The change from shallow to deep bedrock is characterized by the decrease in fracture density, wherein the deep bedrock has considerably fewer fractures.

Water level measurements from the three units indicate that hydraulic heads decrease from both the east and west toward either the Unnamed Tributary or the Northeast Tributary. There is a downward vertical gradient present near the ridge, which transitions to an upward hydraulic gradient in the well pairs adjacent to both tributaries. This pattern in the distribution of vertical gradients indicates that the tributaries are acting as groundwater discharge locations. Based on aquifer testing completed on Site, the average hydraulic conductivity of the saprolite unit is 2.42 feet per day (ft/day). The shallow bedrock unit has the highest reported hydraulic conductivity values at 9.53 ft/day and is the primary unit for groundwater flow across the site. The deep bedrock has an average hydraulic conductivity of 0.38 ft/day. Based on the above information, the horizontal flow of groundwater in the saprolite was estimated to have a velocity of 80 feet/year (ft/yr) in the lagoon area and 27 ft/yr in Area 2 in OU3.

Based on the data collected to date, this Site is not located in any environmentally sensitive area.

3.2 Land and Resource Use

The groundwater beneath the NSCC Site is designated as Class GA in accordance with North Carolina's water classification system and Class IIA under EPA Groundwater Classification Guidelines (December 1986). The Class GA classifications means that the groundwater is an existing or potential source of drinking water supply for humans as specified under North Carolina Administrative Code, Title 15, Subchapter 2L (NCAC 15-2L.02). EPA classifies the groundwater as Class IIA since the aquifer is currently being used as a source of drinking water in the vicinity of the NSCC facility.

Neither the Unnamed Tributary nor the Northeast Tributary is specifically classified due to the low flow conditions within these streams. However, these streams are considered Class "C" under NCAC, Title 15A, Subchapter 2B (NCAC 15A-2B.02) because the receiving stream, Grants Creek, is classified as a Class C stream. A Class C stream is defined as being suitable for secondary recreation and the "propagation of natural trout and maintenance of trout."
Land use of the areas immediately adjacent to the NSCC site is a mixture of residential and industrial developments (refer to **Figure 2**). Industrial parks are located on the east and south sides of the NSCC facility. A mobile home park adjoins the southwestern corner of the Site and the nearest private, potable well is approximately 2,700 feet southwest of the Trench Area. Two housing developments are located to the north, one of which is adjacent to the facility. The location of the nearest private, potable well is approximately 2,700 feet north of Area 2 in OU4.

3.3 History of Contamination

Construction of the Cedar Springs Road Plant began in 1970 and included the production facility and three originally unlined wastewater lagoons located in an area of clay in the southeast portion of the site. The plant produces textile-finishing chemicals and custom specialty chemicals, and chemical production takes place on a batch basis and varies depending on demand. Volatile and semi-volatile chemicals are used in the manufacturing process, and acid and alkaline solutions are used in both the manufacturing and cleaning processes.

Contamination at the Site can be traced back to the following activities/structures: disposal of approximately 350,000 gallons of reaction vessel wash waters in the Trench Area, former unlined wastewater treatment lagoons; and the use of an underground terra-cotta pipe line conveying process wastewater to the treatment lagoons.

From 1971 to 1978, approximately 350,000 gallons of reaction vessel wash waters were disposed of in trenches constructed in a 5-acre tract of land referred to as the Trench Area, which is located west of the production area of the Site. The liquid waste included salt brines, sulfuric acid solution, and sulfonating fats and oils containing trace quantities of organic constituents. The trenches measured approximately 200 to 300 feet long and 8 feet deep and were oriented both east to west and north to south. During this time, effluent was pumped from the plant to the easternmost pretreatment lagoon and subsequently pumped to an active trench in the Trench Area. Each trench was used until liquid no longer readily percolated into the ground. When this occurred, the trench was backfilled and seeded, and a new trench was constructed.

At the request of the state of North Carolina in 1978, NSCC discontinued the use of the trenches for disposal and connected the wastewater treatment lagoons to the local municipal sewer system. Lagoons 1 and 2 were excavated and lined with concrete in 1984 and Lagoon 3 was lined with concrete in 1978. The three lagoons were used for pretreatment, including equalization, settling, and surface aeration of the raw waste stream before controlled discharge to the City of Salisbury publicly-owned treatment work (POTW) (sewer system).

In 1992, Lagoon 4 was constructed as part of the RA for OU1 to pretreat plant effluent and groundwater extracted from the Trench Area Extraction System (TAES) and Plume Periphery Extraction System (PPES). After construction of the Lagoon 4, the plant effluent and groundwater

extracted from the TAES was aerated in Lagoons 1 and 2 and combined with PPES water in Lagoon 3. Lagoon 4 is operated as a continuous flow activated sludge bio-treatment system for all of the waters. The effluent from the bio-treatment lagoon is clarified before discharge to the Salisbury POTW.

3.4 Initial Response

Based on a 1984 CERCLA 103(c) notification report prepared by NSCC, from 1971 to 1978, NSCC disposed of approximately 350,000 gallons of D002 waste (corrosive waste with pH $\leq$2) reaction vessel wash waters in trenches constructed in a 5-acre tract of land located behind the manufacturing facility. The corrosive reaction vessel wash water consisted predominantly of salt brines, sulfuric acid solutions, sulfonating fats and oils, and solvents. Liquid effluent from the plant production area flowed into unlined, pretreatment holding lagoons and was then pumped to the trenches.

The NSCC facility was proposed for inclusion on the National Priorities List (NPL) in April 1985, re-proposed in June 1988, and finalized on the list in October 1989 with a Hazardous Ranking System (HRS) score of 46.51. The HRS score was based on an exposure via groundwater pathway score of 80.46 and a score of 0.00 for both exposure via surface water and air.

In May 1986, EPA sent a special notice letter to NSCC providing an opportunity to conduct the remedial investigation/feasibility study (RI/FS). A good faith offer was submitted, and negotiations began between EPA and NSCC with the December 1, 1986 Administrative Order on Consent (AOC). The RI and FS were completed in June 1988 and September 1988, respectively (IT, 1988a and 1988b).

No removal actions have been taken at the Site.

3.5 Basis for Taking Action

3.5.1 OU1

Twenty-three (23) additional monitoring wells were installed during the OU1 RI. In the 38 ground water samples collected 29 different organic compounds were detected at least once. No pesticides and no PCBs were detected. Acetone was the most widespread organic present in the ground water. The other prevalent organic contaminants included: bis(2-chloroethyl)ether, 1,2-dichloroethane (1,2-DCA), 1,2-dichloropropane (1,2-DCP), and xylene. Elevated levels of the following metals were also detected in the ground water: beryllium, cadmium, and manganese. The 1988 RI documented ground water contamination found in the western portion of the facility occurred as a result of the production waste being disposed in the Trench Area. None of this contamination has reached the NSCC property boundary.

Surface water/sediment samples were also collected from the Northeast Tributary as part of the OU1 RI. The primary contaminant detected was 1,2-DCA. After additional surface water/sediment sampling, the data established that although 1,2-DCA was detected in the surface water onsite, by the time the surface water left the Site, the levels of 1,2-DCA fell below detection levels; therefore,

the RI Report concluded that 1,2-DCA was not migrating off site. However, the presence of 1,2-DCA in this stream warranted further investigations which lead to OU3.

The following exposure pathways were evaluated as part of the Site Risk Assessment:

- consumption of ground water downgradient of the Site
- direct contact with waters and sediments from the creeks adjacent to the Site that may have elevated levels of chemicals as a result of surface runoff. Direct contact with Site soils including both dermal and ingestion exposures
- inhalation of vapor emitted from the Site or inhalation of chemical bearing dust that becomes airborne by wind erosion.

3.5.2 OU2

The following contaminants were detected in the soils associated with or around the Trench Area: acetone, bis(2-chloroethyl)ether, 2-butanone, 1,2-DCA, 1,2-DCP, ethylbenzene, methyl chloride, toluene, and xylenes. The RI estimated 100,000 cubic yards of soil were adversely impacted in the Trench Area.

The 1990 Supplemental RI Report stated the following:

- the contaminants in the Trench Area soils will leach over time into the ground water;
- this leachate will be captured by the OU1 ground water extraction system and treated in the onsite pretreatment system
- a conservative model predicted that most contaminants will leach into the ground water in 5 years and that it will take 22 years for the levels of 1,2-DCA to drop to a concentration where it will no longer adversely impact ground water;
- additional soil samples should be collected near soil boring BH-10 every 5 years to verify the progress of soil cleanup in the Trench Area.

3.5.3 OU3/OU4

OU3/OU4 focused on the eastern portion or the active production area of the facility and the wastewater lagoons. Contaminants have been found in the soils, groundwater, and surface water/sediment on the NSCC property. This contamination can be traced back to past chemical handling and wastewater treatment practices of the NSCC facility. The sources, the types/concentrations and extent of contamination have been verified. Fourteen different volatile organic compounds, one semi-volatile organic compound, and one pesticide were detected in the vadose soils. The primary contaminant is 1,2-DCA. The other organic chemicals included: acetone, bis (2-chloroethyl) ether, , trichloroethene, and vinyl chloride. The following inorganics were also detected: aluminum, antimony, arsenic, barium, beryllium, chromium, cobalt, copper, cyanide, lead, manganese, mercury, nickel, selenium, thallium, vanadium, and zinc. However, all of the metals detected are naturally occurring and the difference in concentrations between the background sediment sample and on-site soil samples indicate the Site has not released inorganic contaminants into the environment.

The primary source of contamination in Area 2 was a buried, leaking terra-cotta (fired clay) pipeline. The terra-cotta pipeline transported liquid waste from Area 2 to the wastewater treatment lagoons. Replacement of the terra-cotta pipeline with an overhead stainless steel pipeline was completed in February 1994. Therefore, the terra-cotta pipeline is no longer in use. The source of the contaminants detected in the wastewater treatment lagoon area is the soil under and around the lagoons which were contaminated prior to the lagoons being lined with concrete.

The results of the surface water/sediment sample data indicate that the surrounding tributaries have not been impacted by ground water contamination. However, the Northeast Tributary was determined to have 1,2-DCA contamination. The source of this contamination is unknown but it was assumed to have originated from surface runoff from the plant area. Consequently, NSCC installed curbs on the paved areas in this area of the plant area to contain surface water runoff.

Field work performed to support OU4 activities, in addition to the field investigation conducted as part of OU3, include a hydrophobic dye test to determine if 1,2-DCA existed as a liquid (dense non-aqueous phase liquid (DNAPL)) in the subsurface soils at the Site. The results of the hydrophobic dye test (September 1993) on six samples indicate that 1,2-DCA does not exist as a free liquid in the soils at the Site. Extensive soil sampling was conducted in Area 2 as part of the Natural Degradation Treatability Study in 1996 through 2007.

The OU3/OU4 Baseline Risk Assessment (IT, 1993) stated the following conclusions:

- under current conditions, the soil contamination associated with OU3/OU4 does not pose an unacceptable current risk to human health as there is no complete exposure pathway for the contaminants to reach the public at large.
- However, the following three future risk scenarios could lead to unacceptable future risks:
  - residents living in homes built on or near the Site and using the contaminated groundwater as their source for potable water
  - the exposure of a child to the surface water, and spring water, and
  - individuals being exposed to contaminated subsurface soil.

4.0 Remedial Actions

The 1988 ROD divided the Site into two operable units: OU1 for the groundwater in the west/southwest portion of the Site and OU2 for the soils in the Trench Area (EPA, 1988).

In accordance with the OU1 ROD, a *Supplemental RI* was completed for OU2 in May 1990 (IT, 1990). EPA issued the OU2 ROD in September 1990 (EPA, 1990). The OU2 ROD selected no further action for the Trench Area soil because constituents remaining in the soil were expected to mobilize to groundwater, which will undergo remediation in accordance with the OU1 ROD. While active remediation for soil impacts was not required for the Trench Area, the OU2 ROD required that soil samples be collected for monitoring purposes no less frequently than every five years to verify that soil remediation is progressing through natural percolation. The OU2 ROD divided the Site into a third OU due to constant detection of contaminants in the Northeast Tributary.

The focus of the 1993 OU3 RI/FS, completed in accordance with the OU2 ROD, was to identify the source of contaminants being detected in the Northeast Tributary (IT, 1993a and 1993b). As a result of the OU3 RI/FS, two additional RODs were issued: OU3 on October 7, 1993 and OU4 on October 6, 1994 (EPA, 1993 and 1994). OU3 consists of groundwater impacts beneath the Production Area, including Area 2, the parking lot, and the wastewater lagoons, and surface water and sediment in the Northeast Tributary and OU4 consists of impacted soil in the Production Area and the wastewater treatment lagoon area. A Unilateral Administrative Order (UAO) and Statement of Work for Remedial Design/Remedial Action (RD/RA) for OU3 and OU4 were issued by EPA on September 29, 1995.

In August 1996, NSCC collected groundwater samples from six wells located in the Little Acres Trailer Community. The groundwater samples were analyzed for the target compound list (TCL) of volatile organic compounds (VOCs) by Pace Analytical Services. The analytical results indicate that concentrations of all TCL VOCs were below laboratory detection levels in all of the samples collected.

North Carolina Department of Environment and Natural Resources (NCDENR) investigated groundwater quality from a domestic well located on the opposite side and uphill of the Unnamed Tributary. NCDENR conveyed the results in an October 20, 2003 letter that concluded no detectable concentrations of VOCs and concentrations of inorganic constituents are within the range of natural background concentrations. These results are consistent with the conceptual hydrogeologic model as groundwater encountered upslope and on the other side of the Unnamed Tributary is in a separate groundwater compartment from the impacted groundwater in OU1. Thus, groundwater for the domestic well is derived from infiltration in a recharge zone which is not impacted by site-related constituents.

4.1 OU1

4.1.1 Remedy Selection

Groundwater impacts are attributed to historic use of wastewater discharge trenches (Trench Area) on the western portion of the Site within the drainage basin of the Unnamed Tributary of Grants Creek. The selected remedy for OU1 included a two-phased groundwater pump-and-treat system. The first phase, which was brought online in July 1992, consisted of the extraction of groundwater from the PPES wells located adjacent to the Unnamed Tributary. The second phase, which was brought online in February 1996, consists of the extraction of groundwater from the TAES wells located in the vicinity of the former Trench Area. These two systems have been constructed. The extracted groundwater is pretreated on site to remove the VOCs and then is pumped into the facility's wastewater treatment system prior to being disposed to the POTW. After evaluation of groundwater quality between January 2000 when the PPES was shut down and 2005, the *Supplemental OU1 Remedy Evaluation Report* (BBL, 2005) concluded that operation of the PPES increased the area and magnitude of impacted bedrock by drawing impacted groundwater further downgradient and side-gradient at a greater rate than under non-pumping conditions. As a result, extraction of groundwater through the PPES has been discontinued. The TAES is now the primary active remediation effort of OU1 and is now the main focus of operation and maintenance (O&M)

activities. The TAES was inoperable between October 17, 2008 and October 2010 due to a fire that extensively damaged the groundwater pretreatment system.

The general objective of the OU1 RA is to effectively contain and remediate impacted groundwater in the former Trench Area. A groundwater monitoring program is in place to monitor the performance of the selected remedy. OU1 remedial objectives specified in the ROD include:

- install a groundwater interception and extraction system downgradient of the source area;
- pretreatment of extracted groundwater through air stripping, filtering through activated carbon filter, metal removal and treatment through the company's existing lagoon system;
- pretreatment to the degree necessary to meet the limits set by the POTW;
- perform remediation until all contaminated water meets cleanup goals through the plume; and
- establish a groundwater monitoring program.

4.1.2 Remedy Implementation

The remedy for OU1 addresses groundwater impacts in the west-southwest portion of the Site due to the historic use of wastewater effluent trenches.

The 1988 ROD for OU1 required the following: install a groundwater interception and extraction system downgradient of the source area(s). The level and degree of pretreatment of the extracted groundwater will depend on the effluent limits set by the POTW. The range of pretreatment for the extracted groundwater includes air stripping, filtration through an activated carbon filter, metal removal, and treatment through the company's existing lagoon system. The extracted groundwater is discharged to the Salisbury POTW. Groundwater remediation will be performed until all contaminated water throughout the plume area(s) meets the clean-up goals specified in the ROD.

In accordance with the ROD for OU1, a two-phase pump-and-treat system has been implemented to contain and remediate impacted groundwater downgradient of the Trench Area. The first phase was installed in 1993 and pumped groundwater from four bedrock wells (EX-01 through EX-04) at the Plume Periphery (**Figure 2**). The PPES is located roughly adjacent to the Unnamed Tributary, which runs along the southwestern portion of the site. The lithology intercepted by these deep bedrock open-hole wells was reportedly fractured to produce higher yield. From mid-1993 to early 2000, the PPES was operated at a combined rate ranging from 35 to 85 gallons per minute (gpm). Extracted groundwater was conveyed to the wastewater treatment lagoons for treatment by equalization and biological processes prior to discharge to the POTW.

The second phase was installed in 1995 and involved extracting groundwater from six wells (EX-05 through EX-10) completed in the saprolite and shallow bedrock in the vicinity of the former Trench Area (**Figure 2**). From 1995 to early 2000, the TAES operated at a combined rate ranging from 11 to 6 gpm, exhibiting a declining yield each year. Groundwater extracted from the six Trench Area extraction wells was treated in the on-site groundwater pretreatment facility. The OU1 pretreatment system was upgraded in February 2000 to improve operations and treat the combined groundwater streams extracted from OU1 and OU3. The upgraded pretreatment system uses an

equalization (EQ) tank, an air stripper, and a catalytic oxidizer and scrubbing system to remediate the impacted groundwater and mitigate potential impacts to the air. The effluent groundwater from the pretreatment facility undergoes further treatment in the on-site wastewater lagoon system. The groundwater pretreatment system (GWPTS) can discharge to either Lagoon 4 (the final effluent holding lagoon) or Lagoon 1 (influent equalization) prior to discharging to the POTW.

The TAES operated at a combined rate of less than 1 gpm from 2000 to October 2008, when a fire severely damaged the scrubber and electrical components of the groundwater pretreatment system. Repairs and improvements were made to the TAES and pretreatment system to increase performance and reduce maintenance. EX-05 and EX-09 were brought back online in October 2010. EX-06 and EX-07 exhibit low concentrations and low yields, and are now used as monitoring wells only. An attempt was made to rehabilitate EX-08, but the yield was less than 0.5 gpm. EX-10 also has a low yield. EX-08 and EX-10 are now used for monitoring purposes only.

The metals removal component of the pretreatment system specified in the OU1 ROD has not been implemented because it has not been necessary to meet the design effluents. Concentrations of metals in the influent stream of the pretreatment system are less than the effluent requirements. However, naturally-occurring metals precipitate in the air stripper, which requires frequent cleaning using a soda blasting technique. A bag filter and EasyWater system were added between the EQ tank and the air stripper in 2011 to reduce the frequency and downtime associated with maintenance of the air stripper.

The goals of the extraction and interception system include:

- restore impacted groundwater on site for potential beneficial use;
- mitigate the potential human health risks posed by potential consumption of groundwater at the Site;
- prevent the migration of impacted groundwater; and
- prevent off-site migration of affected surface water and sediments that may pertain to groundwater.

The ROD specifies that the groundwater treatment system shall continue to operate until the concentrations of the COCs in groundwater in the Trench Area meet the groundwater Performance Standards specified in the ROD throughout the entire plume. The OU1 Performance Standards are listed in the second column of **Table 2**.

Implementation of the OU1 RA was carried out under an UAO dated July 27, 1989. Initiation of OU1 construction activities began with building access roads to the bedrock plume periphery extraction well locations in August 1990. Installation of these four bedrock plume periphery extraction wells (EX-01 through EX-04) was completed in November 1990. The PPES is located roughly adjacent to the Unnamed Tributary, which runs along the southwestern portion of the property. The PPES was brought online in July 1992.

Construction of the second phase, the trench area extraction wells (EX-05 through EX-10) and the groundwater pretreatment system occurred between July 1993 and February 1996. The TAES was

brought online in February 1996. Construction activities for the OU1 RA were completed in March 1996.

4.1.3 System Operations/Operation and Maintenance

Groundwater monitoring for OU1 occurs on an annual basis in compliance with the OU1 ROD. The sampling and analysis plan (SAP; ARCADIS 2009b) was updated in September 2009. Groundwater samples are collected from the following monitoring and extraction wells (refer to **Figure 2**)as a part of the OU1 monitoring program:

- OU1 Monitoring Wells: EX-01, EX-02, EX-03, EX-04, EX-05, EX-07, EX-08, EX-09, EX-10, EX-11, NS-07, NS-09, NS-10, NS-15 NS-17, NS-21, NS-22, NS-26, NS-29, NS-30, NS-31, NS-31A, NS-31B, NS-32, NS-55, NS-56, NS-57, NS-58, NS-58A, and NS-58B.

Plume Periphery extraction and monitoring wells were sampled quarterly for 24 quarters from first quarter 1993 through fourth quarter 1998, with the exception of extraction well EX-02, which was not sampled during first quarter 1993. Trench Area extraction wells have been sampled quarterly for 11 quarters from the second quarter 1996 through the fourth quarter 1998, and Trench Area monitoring wells have been sampled quarterly for 23 quarters from the second quarter 1993 through the fourth quarter 1998. The frequency for the Plume Periphery and Trench Area extraction and monitoring wells was reduced from quarterly to annually in December 1999 with the approval of the EPA. Plume Periphery and Trench Area extraction and monitoring wells have been sampled annually for 13 years from fourth quarter 1999 through the present. As a component of the OU1 Remedy Evaluation, bedrock monitoring well NS-55 and NS-56 were installed in August 2003 in the Plume Periphery and Trench Area, respectively. Monitoring wells NS-55 and NS-56 were first sampled in January 2004, and these wells were subsequently added to the annual monitoring program in December 2004. Wells NS-31A, NS-31B, NS-58A, NS-58B, and EX-11 were installed in 2010 and 2011, and sampled in December 2011 in addition to the approved SAP.

Refer to **Table 3** for a summary of O&M costs.

4.2 OU2

OU2 consists of constituents impacting soil in the Trench Area.

Table 2 **Groundwater Performance Standards for OU1 and OU3**
Current Federal Maximum Contaminant Levels and North Carolina Groundwater Standards
Comparison between Existing Chemical-Specific Applicable or Relevant and Appropriate Requirements (ARARs) and New Standards

Constituent	OU1 ROD Performance Standard [1]	OU3 ROD Performance Standard [2]	North Carolina Groundwater Standards [3]	MCL [4]	ARARs changed? More or less stringent?
VOLATILE ORGANIC COMPOUNDS (µg/L)					
1,1,2-Trichloroethane	5	5	-	5	No
1,1-Dichloroethene	7	7	7	7	No
1,2-Dichloroethane	5	1	0.4	5	Yes/More Stringent
1,2-Dichloropropane	6	1	0.6	5	Yes/More Stringent
Acetone	3,500	700	6000	-	Yes/Less Stringent
Benzene	5	-	1	5	Yes/More Stringent
Bromodichloromethane	5	-	0.6	80[5]	Yes/More Stringent
Chloroform	5	1	70	80[5]	Yes/Less Stringent
cis-1,2-Dichloroethene	-	70	70	70	No
Ethylbenzene	3,500	-	600	700	Yes/More Stringent
Methylene chloride	5	5	5	-	No
Toluene	2,000	-	600	1,000	Yes/More Stringent
Tetrachloroethene	-	1	0.7	5	Yes/More Stringent
trans-1,2-Dichloroethene	-	70	100	100	Yes/Less Stringent
Trichloroethene	5	2.8	3	5	Yes/More Stringent
Vinyl chloride	2	1	0.03	2	Yes/More Stringent
Xylene	350	-	500	10,000	Yes/Less Stringent
SEMI-VOLATILE ORGANIC COMPOUNDS (µg/L)					
Bis(2-chloroethyl)ether	5	5	-	-	No
Bis(2-ethylhexyl)phthalate	-	5	3	6	Yes/More Stringent
4-Nitrophenol	350	-	-	-	No

**Table 2 Groundwater Performance Standards for OU1 and OU3
Current Federal Maximum Contaminant Levels and North Carolina Groundwater Standards
Comparison between Existing Chemical-Specific ARARs and New Standards**

Constituent	OU1 ROD Performance Standard [1]	OU3 ROD Performance Standard [2]	North Carolina Groundwater Standards [3]	MCL [4]	ARARs changed? More or less stringent?
METALS (µg/L)					
Arsenic	10	-	10	10	No
Antimony	-	6	-	6	No
Barium	1,000	-	700	2,000	Yes/More Stringent
Beryllium	17.5	-	-	4	Yes/More Stringent
Cadmium	10	-	2	5	Yes/More Stringent
Chromium	50	50	10	100	Yes/More Stringent
Manganese	7,700	50	50	50	Yes/More Stringent
Nickel	350	-	100	-	Yes/More Stringent
Selenium	10	-	20	50	Yes/Less Stringent
Thallium	-	2	-	2	No
Zinc	7,350	2,100	1,000	5,000	Yes/More Stringent

NOTES:
ROD – Record of Decision
µg/L – micrograms per liter
[1] – OU1 ROD, page 10
[2] – OU3 ROD, page 81
[3] – State Groundwater Quality Standards (NCAC 15-2L.0202), updated January 1, 2010
[4] – Current Maximum Contaminant Levels (MCLs) as specified in Safe Drinking Water Act (40 CFR CH.1 § 141.61-141.62)
[5] – Bromodichloromethane, Bromoform, Chloroform and Dibromochloromethane are in a chemical group called trihalomethanes. The total trihalomethane amount should not exceed 80 µg/L as specified in Safe Drinking Act (40 CFR CH.1 § 141.61-141.62).

Table 3
Summary of Remediation Costs

Operable Unit and Task	ROD Cost Estimate	PRPs Reported Costs				
		2007	2008	2009	2010	2011
OU1 - Plume Periphery and Trench Area						
Extraction System and Pretreatment System						
Total Capital Costs	$ 597,000.00			$ 12,000.00		$ 170,200.00
O&M Costs/year	$ 55,000.00					
O&M Costs/year (maintenance)		*$ 77,600.00*	*$ 59,700.00*	*$ 175,400.00*	*$ 94,500.00*	*$ 312,700.00*
O&M Costs/year (power, utilities)		*$ 100,000.00*	*$ 85,700.00*	*$ 85,700.00*	*$ 85,700.00*	*$ 87,700.00*
Depreciation		*$ 102,700.00*	*$ 102,700.00*	*$ 102,700.00*	*$ 102,700.00*	*$ 102,700.00*
Total Present Worth from page 29 of 1988 ROD	$ 3,036,000.00					
Total Present Worth from page 31 of 1998 ROD	$ 1,001,000.00					
OU2 - No Action for Soil in Trench Area						
Total Capital Costs	$ 1,000.00					
O&M Costs for 30 years	*$ 150,000.00*	*$ 70,000.00*				
Reforestation O&M		*$ 35,000.00*	*$ 34,900.00*	*$ 17,800.00*		
Total Present Worth	$ 151,000.00					
OU3 - Groundwater in Production Area						
Total Capital Costs	$ 1,635,000.00			$ 24,000.00		
O&M Costs per year	$ 878,000.00					
O&M Costs/year (maintenance)		*$ 144,100.00*	*$ 110,900.00*	*$ 172,300.00*	*$ 189,100.00*	*$ 147,200.00*
O&M Costs/year (power, utilities)		*$ 185,700.00*	*$ 171,400.00*	*$ 171,400.00*	*$ 171,300.00*	*$ 175,300.00*
Depreciation		*$ 205,400.00*	*$ 205,400.00*	*$ 205,400.00*	*$ 205,400.00*	*$ 205,400.00*
Total Present Worth	$ 8,159,000.00					
OU4 - Soil in Production Area						
For Natural Degradation and Institutional Controls						
Total Capital Costs	$ 196,000.00	$ 139,700.00	$ 96,100.00			
O&M Costs per year	$ 4,000.00			$ 13,800.00		
Total Present Worth	$ 246,000.00					
Soil Vapor Extraction						
Total Capital Costs	$ 2,887,000.00		$ 172,400.00	$ 1,344,300.00	$ 19,800.00	
O&M Costs per year	$ 416,000.00					
O&M Costs/year (maintenance)					*$ 26,000.00*	*$ 54,200.00*
O&M Costs/year (power, utilities)			*$ 28,600.00*	*$ 28,600.00*	*$ 28,600.00*	*$ 29,200.00*
Total Present Worth	$ 5,281,000.00					
Total	**$ 24,693,000.00**	**$ 1,060,200.00**	**$ 1,067,800.00**	**$ 2,353,400.00**	**$ 923,100.00**	**$ 1,284,600.00**

4.2.1 Remedy Selection

This section focuses on the soil contamination associated with the Trench Area. The September 1990 ROD selected "No further action" for the soils and deed restrictions as the remedy for OU2 which was based on the operation of the groundwater collection system required by OU1. However, the OU2 ROD required that soil samples be collected from the Trench Area for monitoring purposes no less frequently than every five years to verify that soil remediation is progressing through natural dissolution related to percolation of rain water recharge.

The remedy selected in the 1990 ROD for OU2 Trench Area soil is no action and natural soil flushing, which will reduce impacts in the Trench Area subsurface soil through leaching of the constituents into the OU1 groundwater. The goal is to capture impacted groundwater by extraction wells in the Trench Area and treat as part of the OU1 RA. Since migration to groundwater is the only complete pathway, no clean-up goals for the contaminants detected in Trench Area soils were established in the OU2 ROD.

A deed restriction was filed with the Rowan County Register of Deeds identifying the areas of contamination and preventing transfer of the property to uninformed purchasers as well as limiting future utilization of the site. This deed restriction was recorded with the Rowan County Register of Deeds on June 12, 1997, Book 9998, page 179 (**Appendix B**).

4.2.2 Remedy Implementation

Soil samples are being collected from the Trench Area as required to monitor the change of contaminant concentrations in the soil as part of the FYR process.

4.2.3 System Operations/Operation and Maintenance

Since elevated contaminant concentrations were not found in six of the 2007 soil boring locations, the 2012 sampling event was modified to first conduct a soil-gas screening using a grid. Based on the results of the soil-gas survey, six additional soil sampling locations were selected. The four original soil sampling locations with elevated COCs plus the six locations exhibiting the highest concentrations in the soil-gas screening were sampled in March 2012 as part of this FYR,

Refer to **Table 3** for a summary of O&M costs.

4.3 OU3

OU3 consists of constituents in the groundwater beneath the Production Area, the Lagoon Area, the parking lot and surface water and sediments in the Northeast Tributary.

Groundwater impacts are attributed to former unlined wastewater treatment lagoons, underground terra-cotta process wastewater lines, and miscellaneous spills within the drainage basin of the Northeast Tributary. The selected remedy consists of groundwater extraction through two groundwater extraction wells and a groundwater collection trench (CT). This OU has been constructed and operated from late 1999 until October 17, 2008. The OU3 groundwater extraction

system was shut down along with the OU1 system on October 17, 2008 after a fire damaged the groundwater treatment system. At that time, concentrations of COCs in wells NS-49 and NS-51 were near or below ROD Performance Standards. During installation of the well network to support a proposed pilot study to evaluate enhanced reductive dechlorination (ERD), groundwater impacts were discovered upgradient of the existing extraction wells. A pumping test at injection well IWB-1 concluded that groundwater extraction continues to be the preferred RA, which will be implemented in 2012.

4.3.1 Remedy Selection

The 1993 ROD for OU3 required the following:

- Design and implementation of the specified groundwater remediation system. The groundwater remediation alternative includes extraction wells to remove contaminated groundwater, an air stripper to remove the VOCs from the extracted groundwater, control of emissions from the air stripper to the atmosphere through vapor-phase carbon adsorption filters, and discharging treated groundwater to the City of Salisbury POTW system;
- Long-term monitoring of the groundwater and surface water and sediment in the Northeast Tributary;
- Implementation of a deed restriction on the property as an institutional control; and
- Review and evaluate the existing groundwater monitoring system to insure proper monitoring of both groundwater quality and groundwater flow so that the effectiveness of the groundwater extraction system can be evaluated. Additional monitoring wells and/or piezometers will be added to mitigate any deficiencies.

The groundwater collection system includes a groundwater interception trench in the Production Area and two extraction wells in the Lagoon Area. The groundwater interception trench was installed in 1999, in a low-lying area in the Production Area in the northeastern part of the Site and a pumping well was installed at the eastern end of the trench to provide removal of groundwater. Due to drought conditions, very little water has been removed by the CT except during heavy rainfall events. The SVE system installed to address OU4 soils in the Production Area has reduced groundwater concentrations in the saprolite and shallow bedrock aquifers. The two shallow bedrock extraction wells, NS-49 and NS-51, were connected to the groundwater pretreatment system in 2000 and operated until October 2008, when a fire occurred in the GWPTS. Since OU3 ROD Performance Standards (listed in the third column of **Table 2**)were met in wells NS-49 and NS-51, the wells were not restarted. Additional investigation in the Lagoon Area in 2011 revealed impacts to groundwater upgradient of these extraction wells in the saprolite and deeper bedrock. A pumping test at well IWB-1 suggests high connectivity between the saprolite and fractured bedrock, and that groundwater extraction from this well will provide hydraulic capture throughout the Lagoon Area from all HSUs. Groundwater extraction from IWB-1 is scheduled to begin in 2012.

The selected remedy is protective of human health and the environment because the OU3 remedy:

- indirectly remediates the surface water and sediment by decreasing the potential for impacted groundwater to reach the tributary via groundwater discharge;
- reduces the potential health threats due to exposure via ingestion of groundwater and surface water; and
- protects the environment by removing COCs from groundwater, controlling the extent of groundwater impacts, and reducing the impacts in the adjacent tributary and downstream surface waters.

The OU3 ROD requires long-term monitoring of the groundwater and the surface water/sediment in the Northeast Tributary to evaluate the effectiveness of the remedial activities.

The general objective of the OU3 RA is to effectively contain and remediate impacted groundwater and restore this groundwater for unlimited use and unrestricted exposure. A groundwater monitoring program is in place to identify and vertically define the concentrations of the COCs to monitor the performance of the selected remedy. The OU3 remedial objectives specified in the ROD include restoration of the groundwater to unlimited use and unrestricted exposure. Specifically,

For Groundwater:

- For Human Health: Prevent ingestion of water having levels of 1,2-DCA resulting in cancer risks exceeding the 10^{-4} to 10^{-6} risk range; and

- For Environmental Protection: None, groundwater concentrations have not conclusively been found to represent an environmental hazard.

For Surface Water:

- For Human Health: None, surface water is not a drinking water source. Existing concentrations of 1,2-DCA are below Ambient Water Quality Criteria; and

- For Environmental Protection: None, surface water concentrations have not conclusively been found to represent an environmental hazard.

For Sediment:

- For Human Health: Prevent direct contact with sediments having levels of 1,2-DCA resulting in cancer risks exceeding the 10^{-4} to 10^{-6} risk range. 1,2-DCA is non-detect in all sediment samples collected from the Northeast Tributary; and

- For Environmental Protection: None.

4.3.2 Remedy Implementation

Groundwater in OU3 has been adversely impacted by the former unlined wastewater treatment

lagoons, an underground terra-cotta sewer line, and miscellaneous spills within the drainage basin of the Northeast Tributary. The selected remedy consists of groundwater extraction through two groundwater extraction wells (NS-49 & NS-51) and a groundwater collection trench. The extracted groundwater is pretreated onsite along with groundwater extracted as part of OU1 and then is pumped into the facility's wastewater treatment system prior to being disposed to the POTW.

The implementation of both the OU3 RA and the OU4 RA falls under the September 29, 1995 UAO. Construction activities for the OU3 RA were initiated on June 15, 1999, and construction activities on the OU1/OU3 Combined Groundwater Pretreatment System commenced on September 23, 1999. Construction activities on the OU3 RA and the OU1/OU3 Combined Groundwater Pretreatment System were completed on February 18, 2000.

Prior to the issuance of the 1993 OU3 ROD, NSCC had stopped using the terra-cotta pipeline and had constructed an above ground pipeline to convey wastewater from the Production Area to the wastewater treatment lagoons. NSCC has also permanently abandoned the terra-cotta sewer line by grouting, in place, the pipeline and all entries to this pipeline. The floor drains in the production area building have remained in use but were in poor condition. Consequently, in September 2009, NSCC sealed the bottom of the floor drains with a chemical-resistant epoxy.

The OU3 groundwater extraction system consists of two extraction wells (NS-49 and NS-51) located downgradient of the Lagoon #2 and a groundwater extraction trench located downgradient of Area 2 in the Production Area. The OU3 groundwater extraction system operated from 2000 until the October 2008 fire damaged the OU1/OU3 groundwater pretreatment system. With the shutdown of the OU1/OU3 groundwater pretreatment system, AkzoNobel has taken this opportunity to evaluate the OU3 RA. Extraction wells NS-49 and NS-51 were highly effective at removing contaminant mass in the Lagoon Area with DCA concentrations decreasing from 34,000 µg/l to 0.76 µg/l and 410,000 µg/l to 0.82 µg/l, respectively.

4.3.3 System Operations/Operation and Maintenance

Currently, the OU3 groundwater extraction has been shut down. The extraction wells operated at a combined flow of 10-12 gpm until October 2008, when a fire occurred in the Pretreatment System. The Pretreatment System has been repaired; however, since concentrations approached the ROD performance standards in the existing extraction wells, the OU3 extraction was suspended. AkzoNobel was in the process of implementing an ERD pilot study when elevated levels of 1,2-DCA were detected in a newly installed deep bedrock well. Once this well is modified to be a recovery well, extracted groundwater from this well will be conveyed to the Pretreatment System for treatment. Consequently, the initiation of ERD pilot study has been suspended.

Refer to **Table 3** for a summary of O&M costs.

4.4 OU4

OU4 pertains to remediating the contaminated soils in the same area covered by OU3.

4.4.1 Remedy Selection

The October 1994 OU4 ROD included a contingent remedy. The OU4 ROD provided an opportunity to verify the contaminants in the soil would be remediated through natural degradation processes. However, the Natural Degradation Treatability Study could not substantiate natural degradation was occurring in the soils. In January 2008, the *OU4 Supplemental FS* was completed which confirmed the ROD findings of Soil Vapor Extraction as the best alternative to actively remediate the soils in OU4 (ARCADIS BBL, 2008). Therefore, AkzoNobel implemented the contingent remedy consisting of soil vapor extraction system with emissions control technology.

The 1994 ROD for OU4 required the following:

- Devise and implement a biodegradative study to substantiate that natural degradation is occurring, identify where in the subsurface the degradation is occurring, and determine the rate of degradation.
- Implement institutional controls including deed restrictions and maintenance of both the fence around the plant operations area and the paved areas around Area 2.
- Develop and implement a long-term monitoring plan to ensure that natural degradation continues to be effective until the specified Performance Standard is achieved and maintained.
- Perform five year reviews/assessments in accordance with CERCLA Section 121(c) until the specified Performance Standard for 1,2-DCA in the soil is achieved (i.e., concentration of 169 µg/kg).

The major components of the contingent remedial alternative include:

- VOCs will be removed from the soils by means of a vapor extraction system.
- Extracted contaminated air from Area 2 will initially be treated using fume incineration. After concentrations of contaminants decrease in the extracted air, this contaminated vapor will be treated via vapor-phase activated carbon adsorption filters prior to the air stream being released into the atmosphere.
- The contaminants captured by vapor-phase carbon filters would be destroyed through the thermal regeneration of the used activated carbon at an off-site, commercial regeneration facility.
- A review/assessment would be performed in accordance to Section 121(c) of the CERCLA to verify that the SVE system is proceeding as anticipated or achieved the specified clean-up goals stipulated in this ROD.

The SVE system was installed in 2009, in accordance with the *OU4 Remedial Design Work Plan – Preliminary Submittal* (ARCADIS, 2008). The system was put into service in March 2010.

The general objective of the OU4 RA is to protect human health and the environment. Protection of human health may be achieved by either reducing exposure or by reducing contaminant levels. Protection of the environment includes the protection of natural resources for future uses. The remedial objectives specified in the OU4 ROD include:

- For Human Health: prevent release of contaminants from soil that could result in contaminant levels in excess of groundwater clean-up objectives specified in the OU3 ROD; and
- For Environmental Protection: continue containment of contamination.

The ROD Performance Standard for 1,2-DCA is 169 µg/kg which protects the underlying groundwater.

4.4.2 Remedy Implementation

In 2006, EPA directed NSCC to implement the contingent remedy, soil vapor extraction. Since a considerable amount of time had passed since the issuance of the 1994 OU4 ROD, NSCC requested an opportunity to evaluate and compare newly developed remediation technologies to the soil vapor extraction technology to determine if another technology would be better suited to remove the contaminants from the soil in the OU4 area. This effort was documented in 2007 *Supplemental OU4 Feasibility Study*. The following four remedial technologies were evaluated based on effectiveness, implementability, and cost: (1) Gas Injection, (2) Steam Injection, (3) Soil Vapor Extraction, and (4) Thermal Treatment. Based on the findings reported in the above referenced Study, soil vapor extraction was identified as the preferred remedial alternative.

After conducting two soil vapor extraction pilot tests, one in March 2008 and the other in November 2008, the OU4 Remedial Design was completed.

The construction of the OU4 RA started in December 2008 and was completed in May 2010. Activities completed as part of this effort involved replacing the concrete apron/driveway around the eastern and northern portion of Area 2 of the Production Area; installing 48 vapor extraction wells; 16 air injection wells; the necessary piping, electrical conduit; the blower and vacuum components; a catalytic oxidizer and vapor treatment system (scrubber) to treat the vapor coming from the catalytic oxidizer; and a vapor extraction trench parallel to the Northeast Tributary, a skid mount vacuum system and activated carbon canisters to treat the gas generated from the vapor extraction trench. Due to geologic conditions, the vapor extraction trench was installed in place of 5 SVE wells that were specified in the Remedial Action Work plan.

The deed restriction was recorded with the Register of Deeds, Rowan County, North Carolina on June 12, 1997, Book 9998, page 179.

4.4.3 System Operations/Operation and Maintenance

To date, the SVE system has removed approximately 10,000 pounds of VOCs and groundwater quality has improved in both the saprolite and shallow bedrock aquifer. The SVE system will be operated until extracted soil-gas concentrations reach asymptotic levels, at which time the system will be shut down and monitored for rebound. If rebound occurs, the system will be restarted; otherwise, select SVE wells will be sacrificed for collection of soil samples.

Refer to **Table 3** for a summary of O&M costs.

5.0 Progress since the Last Five-Year Review

This is the fourth FYR for the Site. The first FYR was completed in June 1996, the second was completed in September 2002, and the third was completed in September 2007.

The protectiveness statement from the 2007 FYR stated the following:

> *"The portion of the Site remedy dealing with potential soil exposures is protective of human health and the environment in the short-term. The Trench Area, Area 2, and the lagoon area remain covered and the deed restrictions are in place. The Agency determined that the Natural Degradation Treatability Study was unable to verify that natural attenuation of 1,2-dichloroethane was occurring in the unsaturated soils in Operable Unit 4 area. National Starch & Chemical Company is currently re-evaluating contingent soil remediation alternatives. This evaluation should be completed in October 2007. Implementing this contingent remedy will most likely require either a Record of Decision Amendment or an Explanation of Significant Difference.*
>
> *There are no current onsite groundwater receptors and the nearest private, potable well is located approximately 2,700 feet north of the Trench Area. Since there is currently no indication of contaminated groundwater or surface water exiting the property, the remedy is considered protective in the short-term. The groundwater remedy at the National Starch & Chemical Company Site is not protective of human health and the environment in the long-term because the current groundwater monitoring system is insufficient to demonstrate that the plumes are being completely captured."*

Over the last five years, all of the OU-specific remedy optimization recommendations listed in the following table were implemented. In addition, AkzoNobel completed the following initiatives:

- Rebuilt the groundwater pretreatment system after the October 2008 fire and implemented improvements to the system;
- Rehabilitated TAES wells EX-05 and EX-09, and evaluated the other extraction wells in OU1;
- Installed EX-11, to be brought online in 2012;
- Installed additional plume delineation wells in OU1 to determine the vertical extent near wells NS-58 and NS-31;
- Abandoned wells with questionable integrity and installed replacement well NS-59;
- Installed wells NS-60 and NS-61 in the OU3 Production Area;
- Installed wells NS-62 through NS-71 in the OU3 Lagoon Area;
- Initiated an ERD pilot study and subsequent groundwater investigation in the OU3 Lagoon Area. The ERD pilot study has been suspended, and IWB-1 was completed as an extraction well, to be brought online in 2012.
- Replaced the chemical delivery road and associated trench drain in the OU3/OU4 Production Area during installation of the SVE system;
- Conducted additional soil investigation in the OU4 Lagoon Area to determine if the SVE system should be extended;

- Abandoned the A2 Sump and replaced it with a stainless steel above grade tank to eliminate potential leaks; and
- Sealed all floor drains and storm water sumps and performed various plant improvements to eliminate potential leaks.

During the previous FYR, issues were identified and addressed. The following table, **Table 4** summarizes these issues and the actions taken to address each issue:

6.0 Five-Year Review Process

6.1 Administrative Components

EPA Region 4 initiated the FYR in October 2011 and scheduled its completion for September 2012. The EPA site review team was led by EPA Remedial Project Manager, Jon Bornholm, and also included EPA site attorney, Stedman Southall, EPA Community Involvement Coordinator, Angela Miller, and contractor support provided to EPA by AkzoNobel. In December 2011, EPA held a scoping call with the review team to discuss the Site and items of interest as they related to the protectiveness of the remedy currently in place. A review schedule was established that consisted of the following activities:

- Community notification.
- Document review.
- Data collection and review.
- Site inspection.
- Local interviews.
- FYR Report development and review.

The review team established the following schedule for execution of the FYR:

Action Item	Date
Document Review	Early Spring 2012
Data Review	Spring and Summer 2012
Site Inspection	April 04, 2012
Draft Third Five-Year Review Report	May 2012
Final Third Five-Year Review Report	September 2012

TABLE 4 STATUS OF RECOMMENDATIONS AND FOLLOW-UP ACTIONS FROM 2007

Issue	Recommendations and Follow-up Actions	Party Responsible	Milestone Date	Action Taken and Outcome	Date of Action
How clean is clean for the soils in the Trench Area	Initiate discussions between regulatory agencies, NSCC, and public to discuss this issue	EPA/NCDENR/ NSCC	September 30, 2008	To date, no action taken, will need to address as concentrations of COCs in the soil decrease. Soil concentrations are declining as anticipated by the ROD.	Not completed
Complete assessment of PPES	Maintain communication with NSCC	NSCC	April 30, 2008	Assessment completed, PPES was increasing the rate of migration of contaminants in bedrock aquifer. Operation of PPES increases vertical and horizontal extent of COC plume.	June 01, 2008
Effectiveness of other groundwater extraction systems	Groundwater Capture Zone Analysis	NSCC	February 28, 2008	Completed supplemental OU1 Remedy Evaluation Report in 2005. The PPES is ineffective and should remain off. Effectiveness of the TAES was questionable between 2000 and 2010. Extraction well EX-11 was installed in 2011 and will be functional in 2012, and is expected to provide hydraulic control of the source area. Will continue to evaluate effectiveness of extraction systems. The OU3 extraction system was effective at meeting ROD Performance Standards and has been shut down. In 2012, IWB-1 will begin extraction to address upgradient impacts to the saprolite and bedrock aquifers discovered during the 2011 investigation.	Ongoing
Vapor Intrusion Pathway	If vapor intrusion is identified as a potential exposure pathway that presents an unacceptable risk to human health, then collect sufficient data to quantify the risk	NSCC/EPA/ NCDENR	September 30, 2008	Plant operations are subject to industrial hygiene monitoring under Occupational Safety Health Administration since 1,2-DCA continues to be utilized in the production process. An SVE system is already installed inside the Area 2 Production building (no air sparge) and actively mitigates potential vapor intrusion.	December 01, 2009
The decision documents for the Site do not reflect current ARARs or subsequent recordation requirements and cleanup standards	Amend decision documents and NSCC deed recordation to reflect current ARARs	EPA/NCDENR/ NSCC	September 30, 2012	AkzoNobel/NSCC recorded deed notices to inform any future purchaser of the property of contamination at Site. The deed restrictions need to be updated to reflect current NCDENR requirements.	Ongoing
Confirm presence/absence of DNAPL in Operable Unit 3 area and respond accordingly	Continue to review/evaluate new technologies for their applicability/implementability for investigating the presence of DNAPL and remediating DNAPL if found to be present	NSCC/EPA/ NCDENR	Continuous	Tested selected groundwater samples with hydrophobic dye (Oil Red O). During installation of SVE system, screened cuttings with a PID and hydrophobic dye to determine presence of NAPL. NAPL was not identified. In 2009, wells with usually long screens were further evaluated using vertical profiling and a down-hole camera.	Ongoing

6.2 Community Notification and Involvement

The community was notified via a public notice in the local newspaper, The Salisbury Post, on Thursday, September 6, 2012 regarding the FYR process at the Site. A copy of the public notice is included in **Appendix D**.

After the FYR has been approved by the EPA, copies will be placed for the public to view at: the designated site repositories: Rowan Public Library at 201 West Fisher Street, Salisbury, North Carolina; EPA Record Center, 11th Floor, 61 Forsyth Street, SW, Atlanta, GA 30303; and on the EPA website (http://www.epa.gov/superfund/index.htm).

In the past, NSCC held bimonthly Community Advisory Panel (CAP) group meetings at the Cedar Springs Plant. Attendees at these meeting have included NSCC personnel, city of Salisbury Firemen, Rowan County Emergency Response members, residents of adjoining or nearby communities, City of Salisbury Utilities personnel, Rescue Squad members, and others. Attendance at these meetings is approximately six members of the public. Plant activities, including those undertaken to advance the remedial activities at the Site, were discussed during the meetings and questions or concerns that attendees raise at the meetings were addressed by the CAP Coordinator at the plant. The most recent CAP meeting was held on October 11, 2011.

6.3 Document Review

This FYR involved a review of relevant documents which are listed in the **Appendix A – References**.

ARARs Review

CERCLA Section 121(d)(1) requires that Superfund remedial actions attain "a degree of cleanup of hazardous substance, pollutants, and contaminants released into the environment and of control of further release at a minimum which assures protection of human health and the environment." The remedial action must achieve a level of cleanup that at least attains those requirements that are legally applicable or relevant and appropriate. Applicable requirements are those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws that specifically address a hazardous substance, remedial action, location, or other circumstance found at a CERCLA site. Relevant and appropriate requirements are those standards that, while not "applicable," address problems or situations sufficiently similar to those encountered at the CERCLA site that their use is well suited to the particular site. Only those state standards that are more stringent than federal requirements may be applicable or relevant and appropriate. To-Be-Considered (TBC) criteria are non-promulgated advisories and guidance that are not legally binding, but should be considered in determining the necessary remedial action. For example, TBC criteria may be particularly useful in determining health-based levels where no Applicable or Relevant and Appropriate Requirements (ARARs) exist or in developing the appropriate method for conducting a remedial action.

Chemical-specific ARARs are health- or risk-based numerical values or methodologies which, when applied to site-specific conditions, result in the establishment of numerical values. These values establish an acceptable amount or concentration of a chemical that may remain in, or be discharged to, the ambient environment. Examples of chemical-specific ARARs include maximum contaminant levels (MCLs) under the federal Safe Drinking Water Act and ambient water quality criteria enumerated under the federal Clean Water Act.

Action-specific ARARs are technology- or activity-based requirements or limits on actions taken with respect to a particular hazardous substance. These requirements are triggered by a particular remedial activity, such as discharge of contaminated ground water or in-situ remediation. Location-specific ARARs are restrictions on hazardous substances or the conduct of the response activities solely based on their location in a special geographic area. Examples include restrictions on activities in wetlands, sensitive habitats and historic places.

Remedial actions are required to comply with the chemical-specific ARARs identified in the ROD. In performing the FYR for compliance with ARARs, only those ARARs that address the protectiveness of the remedy are reviewed.

Groundwater ARARs

The ROD for OU1 considered the following federal regulations to be Applicable or Relevant and Appropriate Requirements (ARARs) as ROD Performance Standards:

- Clean Water Act;
- Safe Drinking Water Act (SDWA);
- Clean Air Act; and
- Endangered Species Act.

ARARs for the 25 constituents of concern (COCs) for OU1 were based upon SDWA Maximum Contaminant Levels (MCLs), detection limits, Reference Doses (R_fDs), and Acceptable Chronic Intake (ACI) concentrations. If an MCL was not available, the R_fD or ACI concentration was specified as the Performance Standard. Newly promulgated or modified federal requirements that could be considered for OU1 may include the modifications to the SDWA. MCLs that could be considered as ARARs for the OU1 remedy are indicated in the second column of **Table 2**.

As documented in the 1988 ROD, the State of North Carolina groundwater standards were not identified as chemical-specific ARARs in this ROD. While it is recognized that the North Carolina Groundwater Standards are potential ARARs, the scope of the RA would not have been altered if the more stringent groundwater standards were embodied in the ROD Performance Standards. Newly promulgated state requirements considered in the ARARs review include:

- North Carolina Groundwater Standards and Classifications (NCAC T15A:02L.0200, November 23, 1993; revised January 1, 2010);
- North Carolina Water Quality Standards (NCAC Title 15A – Environment and Natural Resources, 2B: Surface Water and Wetland Standards, May 1, 2007);

- North Carolina Air Quality Standards (NCAC Title 15A – Environment and Natural Resources, 2D: Air Pollution Control Requirements, September 1, 2011); and
- North Carolina Air Quality Permit Requirements (NCAC Title 15A – Environment and Natural Resources, 2Q: Air Quality Permit Procedures, December 1, 2005).

It is the EPA's policy that ARARs are generally "frozen" at the time of the ROD signature unless a "new or modified requirement calls into question the protectiveness of the selected remedy", 55 Fed. Reg. 8757 (March 8, 1990). The NC Classifications and Water Quality Standards Applicable to the Groundwater of North Carolina, NCAC Title 15A Subchapter 2L, (NC 2L) on which several of the remedial levels are based were last amended on January 1, 2010. The current North Carolina Groundwater Standards are identified in the fourth column of **Table 2**. While it is recognized that the North Carolina groundwater standards are ARARs, EPA currently does not plan to evaluate the need to update these standards until the Site comes closer to being deleted from the NPL.

The ROD for OU3 considered the following federal and state regulations to be ARARS in the development of the OU3 ROD Performance Standards:

- Federal Regulations:
- Clean Water Act;
- SDWA; and
- Clean Air Act.
- State Regulations;
- North Carolina Drinking Water and Groundwater Standards;
- North Carolina Water Pollution Control Regulations;
- North Carolina Air Pollution Control Requirements; and
- North Carolina Surface Water Quality Standards.

ARARs for OU3 were based upon SDWA MCLs, North Carolina Groundwater Quality Standards, and the Limit of Detectability. If the most stringent groundwater standards were less than the method detection limits, the method detection limit of each COC was included in the OU3 ROD Performance Standards. The OU3 Performance Standards, North Carolina Groundwater Standards, and MCLs are presented in **Table 2**.

All remedies selected for this Site were designed to meet or exceed all chemical-specific ARARs and meet location- and action-specific ARARs. Chemical-specific ARARs identified in the selected remedies within the RODs and considered for this FYR for continued treatment and monitoring are listed in **Table 2**. North Carolina groundwater standards for the NSCC site's contaminants of concern are typically lower than the federal primary drinking standards. Both sets of standards were reviewed as part of this FYR. **Table 2** (the last column in this table) compares the standards specified in the OU1 and OU3 RODs to current standards. As can be seen, the standards for the following contaminants have become more stringent: 1,2-DCA, 1,2-DCP, benzene, bromodichloromethane, ethylbenzene, toluene, tetrachloroethene, trichloroethene, vinyl chloride, bis(2-ethylhexyl)phthalate, barium, beryllium, cadmium, chromium, manganese, nickel, and zinc and the standards for the following contaminants have become less stringent: acetone, chloroform, trans-1,2-dichloroethene, xylene, and selenium.

Soil ARARs

No soil cleanup levels were established in the 1990 OU2 ROD. The only soil cleanup level specified in the 1994 OU4 ROD was for the contaminant 1,2-DCA. The cleanup level was set at 169 µg/kg. This is the concentration of 1,2-DCA that could be left in the soil without adversely impacting groundwater quality.

The NCDENR Inactive Hazardous Site Branch Preliminary Soil Remediation Goals (PRSGs) have been identified as a potential to-be considered requirement. This table indicates the following PRSGs for 1,2-DCA: for residential 0.43 mg/kg, for industrial 2.2 mg/kg, and for protection of groundwater 0.0002 mg/kg. The cleanup level for 1,2-DCA (169 µg/kg) was calculated specifically for this Site and is anticipated to be protective of groundwater.

Surface Water ARAR

The OU3 ROD identified 2,000 µg/l as performance standard for 1,2-DCA in the Northeast Tributary. This value came from EPA's, Region IV Chronic Screening Value table. The current North Carolina surface water standard for 1,2-DCA for the consumption of fish is 37 µg/l. However, the size of the Northeast Tributary onsite would not support a fish population. Histroical data also indicates that by the time surface water leaves the Site, the levels of 1,2-DCA in the surface water is non-detect.

6.4 Data Review

6.4.1 OU1

A thorough analysis of the OU1 remedial activities commenced in 1998. At that time, a *Technical Memorandum for Site Groundwater Flow Modeling* was prepared to evaluate the effectiveness of the OU1 remedy (BBL, 1998a). The data evaluation indicated that the TAES has been successful and the PPES has been less successful at preventing the migration of the plume and remediating impacted groundwater. As part of the OU1 Remedy Evaluation, the PPES was shut down in January 2000 and hydraulic and geochemical analyses were performed to identify opportunities to implement a more effective remedy.

A *Remedy Evaluation Report for Operable Unit One* (BBL, 2000) was submitted in November 2000 which included a proposal for additional investigation to identify potential bedrock conduits which may be responsible for migration of impacted groundwater from the Trench Area to the Plume Periphery Area. Based on the remedy evaluation, the EPA agreed that the resumption of groundwater pumping from the existing PPES in any capacity does not further the remedial objectives in the vicinity of the Unnamed Tributary.

In October 2004, surface water samples were collected from 15 locations (UN-1 through UN-15) along the Unnamed Tributary; corresponding groundwater samples were collected from the center of the Unnamed Tributary using stainless steel PushPoint samplers to evaluate groundwater quality directly beneath the tributary. Concentrations of VOCs were non-detect with the exception of acetone in UN-3GW (3 micrograms per liter [µg/L]), UN-9SW (6.9 µg/L), and UN-13GW

(6.8 µg/L) and methylene chloride in UN-9SW (2.2 µg/L). Each of these detections is below the respective ROD Performance Standard for groundwater for acetone (3,500 µg/L) and methylene chloride (5 µg/L).

Concentrations of SVOCs are non-detect or estimated concentrations below the respective ROD Performance Standard for groundwater at the Site with the exception of bis(2-chloroethyl) ether in sample UN-3GW (34 µg/L, Performance Standard 5 µg/L). Based on the conclusions reported in the *Supplemental Remedy Evaluation Report for Operable Unit One* (BBL, 2005), subsequent sampling has not been conducted in the Unnamed Tributary.

Additional objectives of the Supplemental Remedy Evaluation Plan included investigating bedrock through fracture trace analysis, saprolite trenching, installation of additional bedrock wells, downhole geophysical analysis, and in-well packer testing of potential fracture(s) running perpendicular to the Unnamed Tributary which may be contributing to the impacts observed at NS-29; collecting additional groundwater flow and quality data in the area between the Trench Area and Unnamed Tributary; and using the additional data obtained during the field activities to develop an improved groundwater remedy for OU1. Results of the *Supplemental Remedy Evaluation Report for Operable Unit One* (BBL, 2005) concluded:

- Data collected in the OU1 Remedy Evaluation modified the Site Conceptual Model (SCM) for OU1 by confirming the presence of conductive fracture sets running perpendicular to the Unnamed Tributary from the area of EX-08/EX-09/EX-10 toward NS-29 and NS-31. The presence of these fracture sets allows for migration of dissolved phase constituents toward the Unnamed Tributary.
- Operation of the PPES increased the area and magnitude of impacted aquifer by drawing impacted groundwater further down- and side-gradient at a greater rate of flow than under non-pumping conditions.
- Operation of the TAES has been successful in improvement of groundwater quality. This is evidenced by groundwater quality data from saprolite wells NS-09, NS-10, and NS-11 (**Table 5**, located at end of report).
- Surface water sampling in and groundwater sampling beneath the Unnamed Tributary indicate an absence of impacts in and beneath the stream with the exception of low levels of acetone and methylene chloride. Results of the VOC and SVOC analyses were non-detect for all constituents in all surface water samples. Detected concentrations for all metals are below the ROD Performance Standards, with the exception of manganese.
- Low-volume domestic pumping wells located on the opposite side of the Unnamed Tributary (in the adjacent groundwater compartment) have not been impacted with site-related constituents.

Based on results of the 2005 Supplemental OU1 Remedy Evaluation, modification of the TAES pumping array, reforestation of the Trench Area, and modification of the existing OU1 groundwater monitoring program were recommended. The Trench Area was subsequently reforested in May 2005. The *Supplemental Remedy Evaluation Report for Operable Unit One* (BBL, 2005) investigating groundwater/surface water interaction in the vicinity of the Unnamed Tributary concluded that impacts are not present in surface water or groundwater directly beneath

the Unnamed Tributary. Therefore, the Unnamed Tributary has not been monitored since October 2004.

Modifications to the groundwater monitoring program were made in September 2009. The following table summarizes the revised monitoring scheme:

Area	Current Scheme
Trench Area	EX-05, EX-07, EX-08, EX-09, EX-10, NS-07, NS-09, NS-10, NS-15, NS-16, NS-17, NS-56
Plume Periphery	EX-01, EX-02, EX-03, EX-04, NS-21, NS-22, NS-29, NS-30, NS-31, NS-32, NS-55, NS-57, NS-58

Two new monitoring wells were installed and monitored, including NS-57 (a deeper shallow bedrock well paired with NS-28) and NS-58 (a saprolite well downgradient of NS-28 and NS-57) in 2007. In 2010, saprolite well NS-31A and shallow bedrock well NS-31B were installed along the Unnamed Tributary to evaluate groundwater quality and vertical gradients relative to NS-31, which was reportedly a deep bedrock well screened from 180 to 200 feet below ground surface (ft bgs). Further investigation of NS-31 concluded that NS-31 is a shallow bedrock well that was cored and left open from 80 to 150 ft bgs and overlaps part of the interval monitored by NS-31B, which is screened from 66 to 113 ft bgs. In 2011, shallow bedrock wells NS-58A and NS-58B were installed to complete vertical delineation in this area.

The groundwater potentiometric surface under non-pumping conditions is represented by the potentiometric maps for 2011 (**Figures 3**, **4**, and **5**). The 2007 potentiometric surface under pumping conditions demonstrated limited capture observed in nearby monitoring wells, and is very similar to the potentiometric surface observed in 2011. In October 2008, a fire occurred in the GWPTS building and destroyed the scrubber associated with the catalytic oxidizer and numerous electronic components. Repair to the GWPTS was completed in May 2010. During this time period AkzoNobel refurbished two of the TAES extraction wells: EX-05 and EX-09, which were brought online in September 2010. EX-08 was aggressively redeveloped, but produced less than 0.5 gpm when rehabilitation activities were complete. Therefore, it was determined that EX-08 is unable to produce sufficient yield to achieve capture. EX-11 was installed between EX-05 and EX-09 to achieve capture in the source area. Pumping test data were included in the fate and transport model, and the model predicts that operation of these three extraction wells will achieve hydraulic capture of groundwater from the northern portion of the Trench Area. EX-11 will be operational in 2012. The current capture zone and the hypothetical capture zone with the inclusion of EX-11 are shown on **Figures 6** and **7**, respectively. Additional groundwater modeling will be conducted to identify additional extraction well locations to achieve hydraulic control throughout the plume and/or evaluate other remedial alternatives to address the plume downgradient of the Trench Area.

The overall effectiveness of the TAES cannot be assessed until after extraction well EX-11 is brought online and allowed sufficient time of operation (at least three months). At this point of time, the extent of influence the TAES has on the hydrology downgradient of the Trench Area

cannot be evaluated. Until EX-11 is brought online, the effectiveness of the TAES in capturing all contaminated groundwater emanating from the Trench Area cannot be evaluated.

Since the initial data evaluation, OU1 extraction and monitoring wells have been sampled during 15 groundwater monitoring events. **Table 5** (located at end of report) summarizes the analytical results for the OU1 monitoring events. Concentration trends in the saprolite, shallow bedrock, and deep bedrock hydrostratigraphic zones are depicted on **Figures 8** through **11**. Trend analyses were performed for monitoring and extraction wells using the Mann-Kendall test for trend using analytical results for the five-year period 2007 to 2011. **Appendix C** presents the data evaluation process and result for the Mann-Kendall test. Results of trend analyses indicate stable or decreasing trends for all constituents of concern for wells in OU1 over the last five years. While Mann-Kendall trend analyses performed in 2006 indicated increasing trends for OU1 COCs at EX-02, EX-03, NS-29, and NS-31, concentrations have become stable or decreased in all OU1 monitoring wells since the shutdown of the PPES.

Surface water samples were collected from the Unnamed Tributary as part of the OU1 Remedy Evaluation from 2000 to 2004. Detections of COCs were less than the OU1 ROD Performance Standards. Additional surface water sampling was conducted in 2004 (BBL, 2005). Evaluation of paired surface water and streambed groundwater samples indicate discharge of groundwater into the stream from the surrounding saprolite. This is evidenced by the concentrations of manganese, which is significantly higher in the streambed groundwater samples than in the corresponding surface water samples. The decrease in manganese concentration may be attributable to dilution and change in geochemistry from reducing conditions (which would tend to solubilize manganese) in the groundwater to the more oxidizing conditions in the surface water.

As part of the OU1 monitoring program, groundwater samples were collected each year from 1993 to 2011. Groundwater sampling of the Plume Periphery Wells and the Trench Area Wells ranged in frequency from quarterly to an annual basis. Monitoring wells sampled as part of the monitoring program were analyzed for all COCs outlined in the RODs.

Bailer tests were conducted on February 28, 2009 in OU1 monitoring wells EX-05, EX-09, and NS-57 where the highest concentrations of dissolved VOCs were detected. DNAPL was not observed when hydrophobic dye (Oil Red O) was added to groundwater removed from the bottom of the well. Furthermore, a thorough screening of soil cuttings was conducted during the OU2 Trench Area soil sampling event in 2012. Nonaqueous-phase liquid (NAPL) was not identified. In 2009, wells with usually long screens were further evaluated using vertical profiling and a down-hole camera.

Groundwater Quality

Vertical profiling was performed on 17 wells with screened intervals ranging from 45 ft to 180 ft in length. These wells are: open-hole bedrock wells EX-01, EX-02, EX-03, EX-04, NS-27, and screened wells EX-05, EX-06, EX-07, EX-08, EX-09, EX-10, NS-29, and NS-57. Passive diffusion bags (PDBs) were distributed throughout the screened interval at predetermined depths below top of casing (btoc). The number of PDBs deployed per well ranged from three to six. Baffles were installed between every two PDBs in order to retard vertical flow, giving a more

representative sample of the interval. Samples were analyzed for OU1 VOCs with the exception of acetone, which cannot diffuse into the sampler. Analytical results for EX-01, EX-04, EX-06, and NS-27 show estimated concentrations of COCs at or below the detection limit and results for EX-03 show relatively low concentrations with no bias of concentrations with respect to depth. This indicates that the water in the well is mixed and an interval of mass influx cannot be determined. The results for wells EX-02, EX-05, EX-07, EX-08, and NS-29 suggest that the area of influx is in the lower part of the screened interval. The results for well NS-57 suggests that the area of influx for 1,2-DCA is in the upper part of the screened interval, while (1,2-DCP), acetone, toluene, and xylenes show no bias with depth. At EX-09, the results reveal that 1,2-DCA is at higher concentrations in the lower screened interval within shallow fractured bedrock while toluene is found at higher concentrations in the upper part of the screened interval in saprolite. At EX-10, the results reveal that 1,2-DCA is at higher concentrations in saprolite in the upper screened interval while 1,2-DCP and acetone are found at lower concentrations in the lower screened interval in shallow fractured bedrock.

The results of the 2011 groundwater sampling for OU1 indicate the following VOCs were detected:

2011 Analytical Results for VOCs for OU1 Groundwater Sampling Event

VOCs	Frequency of Detection	Concentration Range (µg/L)	OU1 Performance Standard	Frequency of Exceedance	Concentration of Maximum Exceedances (per well, detects only)
Acetone	21/31	7 - 780,000	3,500	9/21	NS-26 (770,000/780,000); NS-57 (46,000); NW-58A (32,000); EX-05 (34,000); EX-10 (58,000); EX-11 (8,200); NS-17 (72,000); NS-56 (38,000)
Benzene	13/31	1.3 - 44	5	5/13	EX-09 (17); NS-07 (5.3); N-09 (7.1/7.5); NS-56 (44)
Bromodichloromethane	0/31	0 - 0	5	--	--
Chloroform	0/31	0 - 0	5	--	--
1,1-Dichloroethene	2/31	4.3 - 4.6	7	0/2	--
1,2-Dichloroethane	15/31	1.4 - 280,000	5	12/15	EX-05 (130,000); EX-07 (55); EX-08 (110); EX-09 (6,100); EX-10 (1,100); EX-11(780); NS-17 (280,000); NS-56 (29,000); NS-26 (5,100/4,900); NS-31 (120); NS-58A (71,000)
1,2-Dichloropropane	10/31	38 - 19,000	6	10/10	EX-05 (130); EX-09 (38); EX-10 (1,200); EX-11 (39); NS-17 (120); NS-56 (19,000); NS-26 (3,300/2,700); NS-31 (290); NS-58A (3,300)
Cis-1,2-dichloroethene	0/31	0 - 0	--	--	--
Trans-1,2-dichloroethene	0/31	0 - 0	--	--	--
Ethylbenzene	21/31	1.8 - 840	3,500	0/21	--
Methylene chloride	0/31	0 - 0	5	--	--
Toluene	24/31	0.9 - 41,000	2,000	9/24	NS-26 (8,100/7,300); NS-57 (7,800); NS-58A (6,700); EX-05 (26,000); EX-09 (7,400); EX-11 (3,100);

2011 Analytical Results for VOCs for OU1 Groundwater Sampling Event					
VOCs	**Frequency of Detection**	**Concentration Range (µg/L)**	**OU1 Performance Standard**	**Frequency of Exceedance**	**Concentration of Maximum Exceedances (per well, detects only)**
					NS-17 (41,000); NS-56 (9,700)
Tetrachloroethene	0/31	0 - 0	--	--	--
1,1,2-Trichloroethane	0/31	0 - 0	5	--	--
Trichloroethene	5/31	1.1 - 12	5	4/5	EX-08 (6.4); EX-09 (12); NS-09 (9.1/9.4)
Vinyl Chloride	8/31	17 - 350	2	8/8	NS-58A (350); NS-58B (28); EX-08 (27); EX-09 (17); EX-11 (69); NS-09 (47/51); NS-56 (140)
Xylenes (total)	23/31	4 - 2,800	350	9/23	NS-26 (1,600/2,000); NS-57 (460); NS-58A (530); EX-05 (460); EX-09 (1,700); EX-10 (880); NS-17 (500); NS-56 (2,800)

Notes:
All concentrations reported in µg/L
J Estimated concentration is less than the reporting limit

As shown in the above table, acetone, toluene, xylenes, vinyl chloride, 1,2-DCA, and 1,2-DCP were detected most frequently at concentrations exceeding ROD Performance Standards. Acetone and 1,2-DCA were detected at the highest concentrations. As shown on **Figures 8, 9, 10,** and **11** these constituents are mainly observed in the shallow bedrock, and concentrations have declined in most wells over the last five years. During the review period, 1,2-DCA has been detected at concentrations above 1 percent aqueous solubility, 86.9 mg/L, in monitoring wells EX-05, EX-09, and NS-57. Although concentrations above 1 percent aqueous solubility indicate the potential for DNAPL presence, the bailer tests with hydrophobic dye conducted in these wells confirm the absence of DNAPL.

The results of the 2011 groundwater sampling for OU1 indicate the following SVOCs were detected:

2011 Analytical Results for SVOCs for OU1 Groundwater Sampling Event					
SVOCs	**Frequency of Detection**	**Concentration Range (µg/L)**	**OU1 Performance Standard**	**Frequency of Exceedance**	**Concentration of Maximum Exceedances (per well, detects only)**
Bis(2-chloroethyl) ether	21/31	2.7 - 26,000	5	19/21	EX-01 (62); EX-02 (630); EX-03 (490); NS-21 (8,200); NS-22 (28); NS-26 (26,000/26,000); NS-29 (36); NS-30 (200); NS-31 (160); NS-31B (550); NS-55 (450); NS-57 (1,800); NS-58A (2,200); NS-58B (83); EX-05 (140); EX-10 (1,700); NS-07 (24,000); NS-56 (19,000)
4-Nitrophenol	0/31	0 - 0	350	--	--

Notes:
All concentrations in µg/L
J Estimated concentration is less than the reporting limit

Bis(2-chloroethyl) ether was detected in over half of the OU1 monitoring wells at concentrations exceeding the ROD Performance Standard of 5 µg/L.

The results of the 2011 groundwater sampling for OU1 indicate the following metals were detected:

2011 Analytical Results for Metals for OU1 Groundwater Sampling Event

Metals	Frequency of Detection	Concentration Range (µg/L)	OU1 Performance Standard	Frequency of Exceedance	Concentration of Maximum Exceedances (per well, detects only)
Arsenic	8/31	2.6 - 15	10	2/8	NS-26 (12); NS-58A (15)
Antimony	0/31	0 - 0	--	--	--
Barium	31/31	19 - 3,600	1,000	4/31	EX-02 (3,600); NS-26 (1,900/2,000); NS-31B (3,500)
Beryllium	3/31	0.76 - 1.9	17.5	0/3	--
Cadmium	16/31	0.39 - 3.5	10	0/16	--
Chromium	15/31	2.2 - 800	50	2/15	NS-22 (800); NS-56 (100)
Manganese	31/31	22 - 280,000	7,700	18/31	EX-03 (130,000); NS-22 (8,300); NS-26 (110,000/110,000); NS-55 (17,000); NS-57 (85,000); NS-58A (280,000); NS-58B (42,000); EX-05 (44,000); EX-07 (11,000); EX-08 (9,100); EX-09 (12,000); EX-10 (30,000); EX-11 (34,000); NS-09 (11,000/11,000); NS-17 (14,000); NS-56 (93,000)
Nickel	28/31	0.85 - 1,100	350	2/28	EX-05 (720); NS-17 (1,100)
Selenium	8/31	12 - 85	10	8/8	NS-26 (46/49); NS-57 (37); NS-58A (85); EX-09 (12); EX-10 (20); EX-11 (31); NS-56 (36)
Thallium	0/31	0 - 0	--	--	--
Zinc	9/31	4 - 19,000	7,350	3/9	NS-31B (19,000); NS-07 (29 B); NS-56 (37 B)

Notes:
All concentrations in µg/L
J Estimated concentration is less than the reporting limit

Barium, beryllium, manganese, nickel, and selenium were detected most frequently as these metals are naturally occurring in Piedmont soils. Detections of these metals at concentrations above the Performance Standard are limited with the exception of manganese. Manganese was detected at concentrations above the Performance Standard in 18 monitoring wells. The frequent detections of manganese are likely a result of increased dissolution as a result of reducing conditions in groundwater created by the degradation of organic material.

Mann-Kendall Test for Trend

Trends for the concentrations of constituents of concern were analyzed primarily using the Mann-Kendall test for trend. The Mann-Kendall test for trend is a non-parametric test that can account for missing values and does not require data to fit a particular distribution (Gilbert, 1987). The significance of a trend was tested using the following hypotheses:

- There is no significant trend (null hypothesis);

- There is a significant upward trend; or
- There is a significant downward trend.

Based on the number of samples and probability of certain characteristics of a trend, the null hypothesis of no significant trend is either accepted or rejected. If the probability of no trend is less than 5 percent (p-value less than 0.05), the null hypothesis is rejected and either a significant upward trend or a significant downward trend is accepted based on the sign of the trend analysis statistic. Trend analyses were performed on data obtained over the last five years (2007 through 2011) using the ProUCL version 4.1 statistical software package (EPA, 2011). Because ProUCL 4.1 does not handle non-detects statistically in Mann-Kendall trend analyses, as it does with other tests, non-detects were treated as they were in the 2007 NSCC FYR report.

Mann-Kendall requires at least four data points. Constituents were not analyzed if the frequency of detection was such that there were fewer than four quantifiable detections. Wells with fewer than four detections were not analyzed because there were too few data points to reject the null hypothesis. Where there were non-detects in addition to the minimum of four detects, they were treated as follows: if the detection limit was below the ROD Performance Standard, the value was not included in the Mann-Kendall analysis. If it was above the Performance Standard, then the reporting limit was divided by two and included in the analysis.

Fifty three (53) trend analyses were performed on samples from 14 different wells in OU1; the results are presented in **Appendix C**. Results of Mann-Kendall trend analyses indicate stable or decreasing trends for concentrations of COCs in all OU1 wells. No statistically significant increasing trends were identified in OU1 groundwater.

Figure Summary

Trend plots for those COCs that have been detected above OU1 ROD Performance Standards over the last five years are included on **Figures 8** through **11**. These trend plots include available data collected between 2007 and 2011, with non-detects removed from the dataset (*i.e.*, non-detects are not treated as zero or one-half the detection limit, but treated as not analyzed). There are several occasions where a COC is detected above the ROD Performance Standard, but only one reliable data point exists and therefore a trend could not be established. For instance, in cases where a constituent was non-detect at an elevated detection limit (*e.g.*, <1000 µg/L) and was later detected at concentration less than half the detection limit of the previous samples (*e.g.*, 45 µg/L), plotting the non-detects at one-half the detection limit does not provide an accurate portrayal of the trend. Only wells where groundwater exceeds the OU1 ROD Performance Standards are included on the figures. All available data for OU1 monitoring wells are included on **Table 5** (located at end of report)and included in the discussion below.

Figure 8 summarizes data for VOCs, SVOCs, and metals detected in the OU1 saprolite zone over the last five years. Many of the saprolite wells have been below ROD Performance Standards for several years, and have been eliminated from the SAP (EPA, 2009). Four saprolite wells (NS-07, NS-09, NS-10, and NS-31A) were sampled in 2011.

- Monitoring well NS-07 was added to the sampling and analysis plan in 2009. Insufficient data exists to establish any trends. Benzene (95.3 µg/L) and bis(2-chloroethyl) ether

(24,000 J µg/L) were detected above the ROD Performance Standards in 2011. Metals have never been reported at concentrations exceeding ROD Performance Standards.

- Historically, the following COCs have been observed above the ROD Performance Standards in monitoring well NS-09: acetone, 1,1-dichloroethene (1,1-DCE), 1,2-DCA, methylene chloride, trichloroethene (TCE), and xylene. 1,2-DCA was observed as high as 21,000 µg/L in 1999. In 2011, 1,2-DCA was not detected at the ROD Performance Standard of 5 µg/L. Attenuation of 1,2-DCA has allowed for lower detection limits, and low concentrations of benzene (7.1 µg/L), TCE (9.1 µg/L) and vinyl chloride (47 µg/L) can now be detected. These constituents are currently above the ROD Performance Standards; however, a trend could not be established for benzene or TCE due to a lack of quantifiable data. Manganese concentrations were reported at a range of 11,000 µg/L to 33,500 µg/L over the last five years.
- Historically, the following COCs have been observed above the ROD Performance Standards in monitoring well NS-10: 1,2-DCA, methylene chloride, 1,1,2-trichloroethane, vinyl chloride, and manganese. 1,2- DCA was observed as high as 9800 µg/L in 1995. However, VOCs have been continuously observed below their respective ROD Performance Standards from 2005 to present. Manganese has been below the ROD Performance Standard since 1996.
- Historically, the following COCs have been observed above the ROD Performance Standards in monitoring well NS-11: acetone, 1,2-DCA, methylene chloride, and xylene. By the 2006 sampling event, all constituents were observed to be below their respective ROD Performance Standard for seven years. Therefore, the sampling and analysis plan was revised in 2007 and sampling of NS-11 was eliminated.
- Monitoring well NS-31A was installed in 2010 to evaluate impacts to the shallow groundwater west of the Unnamed Tributary. The well has been sampled three times; all constituents were below their respective ROD Performance Standards.

Figure 9 summarizes data for VOCs and SVOCs detected in the OU1 shallow bedrock hydrostratigraphic zone over the last five years.

- In 2011, the following COCs were observed above the ROD Performance Standards in active extraction well EX-05: 1,2-DCA (130,000 µg/L), 1,2-DCP (130 J µg/L), acetone (34,000 µg/L), toluene (26,000 µg/L), vinyl chloride (120 J µg/L), xylenes (460 µg/L), and bis(2-chloroethyl) ether (140 µg/L). Trends could not be established for 1,2-DCP, vinyl chloride, xylenes, and bis(2-chloroethyl) ether because fewer than three quantifiable data points are available over the last five years due to elevated reporting limits. A decreasing trend is observed for acetone, while no statistically significant trends were observed for 1,2-DCA and toluene.
- In 2011, 1,2-DCA was the only COC detected above the ROD Performance Standards in monitoring well EX-07 (55 µg/L). Historically, 1,2-DCA was detected as high as 83,000 µg/L in 1996, while over the last five years concentrations have been non-detect two out of five sampling events.
- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well EX-08:1,2-DCA, TCE and vinyl chloride. Concentrations of COCs vary considerably in this former extraction well over the last five years, with 1,2-DCA ranging from <25 µg/L (2010) to 100,000 (2009). Vertical profiling of the well indicated the

vertical distribution within the various fractures was significant, with concentrations ranging from 5.3 µg/L at 61 ft bgs to 230,000 µg/L at 91 ft bgs.

- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well EX-09: 1,2-DCA (6100 µg/L), 1,2-DCP (38 µg/L), benzene (17 µg/L), toluene (7400 µg/L), TCE (12 µg/L), vinyl chloride (17 µg/L), and xylenes (1700 µg/L). Statistically significant downward trends are observed for 1,2-DCA, acetone (below ROD Performance Standards in 2009 through 2011), and toluene. Benzene was non-detect at elevated detection limits for each event except April 1996 (64 J µg/L) and December 2011 (17 µg/L). Similarly, TCE was non-detect at elevated detection limits except for February 2000 (21 µg/L) and December 2011 (12 µg/L). No significant trend was observed for 1,2-DCP and xylenes.
- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well EX-10: 1,2-DCA (1100 µg/L), 1,2-DCP (1200 µg/L), acetone (58,000 µg/L), xylenes (880 µg/L) and bis(2-chloroethyl) ether (1700 µg/L). Vertical profiling data indicate 1,2-DCA concentrations an order of magnitude higher in the saprolite HSU while 1,2-DCP and acetone are at higher concentrations in the shallow bedrock HSU. In 2011, extraction well EX-11 was installed in the shallow bedrock, and constructed without a surface casing to avoid the potential for grout intrusion. The following COCs were observed above the ROD Performance Standards in EX-11 under static conditions: 1,2-DCA (780 µg/L), 1,2-DCP (39 µg/L), acetone (8200 µg/L), toluene (3100 µg/L), and vinyl chloride (69 µg/L). Concentrations of 1,2-DCA and toluene were higher under pumping conditions during the August 2011 pumping test, with concentrations up to 7700 µg/L and 8900 µg/L, respectively.
- All COCs were below ROD Performance Standards for monitoring well NS-15 in 2011. The most recent detection was 1,2-DCA at 6.2 µg/L in December 2007.
- Monitoring well NS-17 was added to the SAP in 2009. This well is located approximately 25 feet from active extraction well EX-05. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-17: 1,2-DCA (280,000 µg/L), 1,2-DCP (120 J µg/L), acetone (72,000 µg/L), toluene (41,000 µg/L), and xylenes (500 µg/L). Insufficient data are available to determine a trend.
- Monitoring well NS-21 was added to the SAP in 2009. Benzene was detected above the ROD Performance Standard in 2010 (6.2 µg/L), but all other VOCs were non-detect and below the standards. However, bis(2-chloroethyl) ether was detected at 8200 µg/L in December 2011. Although insufficient data exists to establish a trend, current concentrations are higher than observed in February 2000 (4800 D µg/L).
- Monitoring well NS-22 was added to the SAP in 2009. All VOCs were below the ROD Performance Standards. Bis(2-chloroethyl) ether was detected at concentrations ranging from 9.9 to 28 µg/L.
- Monitoring well NS-26 is not on the SAP, but was sampled on a voluntary basis in 2010 and 2011. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-26: 1,2-DCA (5100 µg/L), 1,2-DCP (3300 µg/L), acetone (770,000 µg/L), toluene (8100 µg/L), xylenes (1600 J µg/L), and bis(2-chloroethyl) ether (26,000 J µg/L). Insufficient data are available to determine a trend.
- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-31: 1,2-DCA (120 µg/L), 1,2-DCP (290 µg/L), and bis(2-chloroethyl) ether (160 µg/L). Results of the trend analysis for NS-31 indicate no statistical trend for

1,2-DCA, 1,2-DCP and bis(2-chloroethyl) ether. A significant downward trend exists for acetone; no upward trends exist for any COCs detected in NS-31. It has been determined that NS-31 is not a deep bedrock well screened from 180 to 200 ft bls, but an open-hole shallow bedrock well open from 80 to 150 ft bgs. The interval monitored by NS-31 overlaps the screened interval of recently installed monitoring well NS-31B, which is screened from 66 to 113 ft bgs. All VOCs are below ROD Performance Standards in NS-31B, while bis(2-chloroethyl) ether (550 µg/L), barium (3500 µg/L) and zinc (19,000 µg/L) were detected above the Performance Standards. COCs are believed to have been pulled into this area during operation of the PPES, as evidenced by the 3-foot increase in groundwater elevation observed immediately after EX-01 was turned off.

- No VOCs have been detected above ROD Performance Standards in monitoring well NS-32 since 1995. Bis(2-chloroethyl) ether was below the ROD Performance Standards for the last five years.
- No VOCs were detected above ROD Performance Standards in monitoring well NS-55 in 2010 and 2011. Estimated concentrations of benzene (5.3 J µg/L) and methylene chloride (7.6 J µg/L) were detected in the last five years. Barium was detected at a concentration below the ROD Performance Standard in December 2011, although both barium and manganese have been above the respective standards since the well was installed in 2005.
- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-56: 1,2-DCA (29,000 µg/L), 1,2-DCP (19,000 µg/L), acetone (38,000 µg/L), benzene (44 µg/L), toluene (9700 µg/L), vinyl chloride (140 µg/L), xylenes (2800 µg/L) and bis(2-chloroethyl) ether (19,000 µg/L). Although no statistically significant trend is observed, all COCs are currently reported at concentrations less than reported in 2005 and 2006, shortly after the well was installed.
- Monitoring well NS-57 was installed in 2007; 1,2-DCA, 1,2-DCP, acetone, toluene, xylenes and bis(2-chloroethyl) ether were detected. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-57: acetone (46,000 µg/L), toluene (7800 µg/L), xylenes (460 µg/L) and bis(2-chloroethyl) ether (1800 J µg/L). Due to elevated detection limits, no statistically significant trend could be determined; however, the other VOCs were non-detect at an elevated detection limit of 100 µg/L.
- Monitoring well NS-58A was installed in 2011. The following COCs were observed above the ROD Performance Standards: 1,2-DCA (71,000 µg/L), 1,2-DCP (3300 µg/L), acetone (32,000 µg/L), toluene (6700 µg/L), vinyl chloride (350 µg/L), xylenes (530 µg/L) and bis(2-chloroethyl) ether (2200 J µg/L).
- Monitoring well NS-58B was installed within the same borehole as NS-58A, and screened at a deeper interval. With the exception of vinyl chloride (28 µg/L), all VOCs were below ROD Performance Standards. Bis(2-chloroethyl) ether was detected at 83 J µg/L.

Figure 10 summarizes data for metals in groundwater in the shallow bedrock HSU over the last five years. Manganese is present in the dissolved phase as a result of reducing conditions present in the groundwater. Evidence of this was provided in the *2009 Site Monitoring Report* (ARCADIS, 2010), which reported total manganese along with additional biogeochemical parameters, demonstrating that the presence of manganese was not due to digestion of sediments by preservative, but that the same amount of manganese was present in both the dissolved and total analyses. Manganese was not a constituent of the process wastewater disposed of in the Trench

Area. This suggests that naturally-occurring manganese was dissolved under reducing conditions within the aquifer. Manganese is observed at greater concentration in wells where the oxidation reduction potential is reducing (-100 to -350 milliVolts [mV]) and DO is less than 1 milligram per liter (mg/L). The highest manganese concentrations were detected mid-plume at monitoring wells NS-58A (280,000 µg/L) and NS-26 (110,000 µg/L).

Nickel was detected in two wells at concentrations that exceed the ROD Performance Standard of 350 µg/L. These wells include active extraction well EX-05 (720 µg/L) and adjacent monitoring well NS-17 (1100 µg/L).

Selenium was detected in seven wells at concentrations that exceed the ROD Performance Standard of 10 µg/L. However, only well NS-58A exceeded the MCL for selenium (50 µg/L) at an estimated concentration of 85 J µg/L. Many of the exceedances were also estimated due to elevated reporting limits as a result of matrix interference.

Artesian well NS-26 exhibited the most metals above ROD Performance Standards. In addition to manganese (110,000 µg/L) and selenium (46 µg/L), arsenic (12 µg/L) and barium (1900 µg/L) were also detected. The only other OU1 shallow bedrock well where arsenic and barium were detected above the ROD Performance Standards are NS-58A (arsenic 15 µg/L) and NS-31B (barium 3500 µg/L).

Figure 11 summarizes data for VOCs, SVOCs and metals detected in the deep bedrock zone over the last five years.

- Historically, groundwater impacts have not been a particular concern in former extraction well EX-01. VOCs have not been detected above the ROD Performance Standard since 1997 when 1,2-DCA and 1,2-DCP were both detected at an estimated concentration of 7 J µg/L. Bis(2-chloroethyl) ether was detected at 62 µg/L in 2011; no statistically significant trend was observed. Metals have never been detected at elevated concentrations.
- Historically, extraction well EX-02 had the following COCs detected above the ROD Performance Standards: acetone, 1,2-DCA, 1,2-DCP, methylene chloride, vinyl chloride, bis(2-chloroethyl) ether and barium. With the exception of methylene chloride, which was detected at an estimated concentration of 14 J µg/L in 2008, all VOCs have been below the ROD Performance Standards since the PPES was discontinued in 2000. When the PPES was operational, VOCs were elevated. Bis(2-chloroethyl) ether was detected at 630 µg/L in December 2011, with no statistically significant trend. Manganese exhibits a downward trend, and concentrations have been below the ROD Performance Standard since 2009. Barium was detected at 3600 µg/L, with no statistically significant trend.
- Historically, extraction well EX-03 had the following COCs detected above the ROD Performance Standards: acetone, 1,2-DCA, 1,2-DCP, methylene chloride, and TCE. With the exception of TCE, which was detected at an estimated concentration of 5.7 J µg/L in 2002, all VOCs have been below the ROD Performance Standards since the PPES was discontinued in 2000. When the PPES was operational, VOCs were elevated. Bis(2-chloroethyl) ether was detected at 490 µg/L in December 2011, with no statistically significant trend. Manganese was detected at 13,000 µg/L, with no statistically significant trend.

- Historically, groundwater impacts have not been a particular concern in former extraction well EX-04. VOCs have not been detected above the ROD Performance Standard since 1997 when 1,2-DCP was detected at an estimated concentration of 7 J µg/L. Bis(2-chloroethyl) ether was detected at 8.7 µg/L in 2010, but was below the ROD Performance Standard in 2011. Metals have never been detected at elevated concentrations or above ROD Performance Standards.
- Monitoring well NS-29 is an intermittently artesian well near the Unnamed Tributary. During operation of the PPES, elevated concentrations of acetone, 1,2-DCA, 1,2-DCP, methylene chloride, toluene, TCE, vinyl chloride, and xylenes were detected above the ROD Performance Standards. In 2007 and 2008, toluene and xylenes exceeded ROD Performance Standards; however, all VOCs were below the standards in 2009, 2010, and 2011. Vertical profiling data indicate benzene (6.7 J µg/L) and methylene chloride (8.5 J µg/L) may be observed in the fracture interval around 188 ft bgs. Bis(2-chloroethyl) ether was detected at 36 µg/L in 2011 and a statistically significant downward trend is observed. All metals were below the ROD Performance Standards in 2011. Arsenic, barium, manganese, and selenium have been detected above the standards at least once over the five year period; however, statistically significant downward trends are observed for barium and manganese with no significant trend observed for arsenic and selenium.
- Monitoring well NS-30 is an intermittently artesian well near the Unnamed Tributary. VOCs and metals have not been detected above the ROD Performance Standard since February 2000, prior to ceasing operation of the PPES. Bis(2-chloroethyl) ether was detected at 200 µg/L in 2011; no statistically significant trend exists.

6.4.2 OU2

As part of the requirements in the OU2 ROD, five vadose zone soil borings (SB-1 to SB-5) were completed in August 2002 in the Trench Area. The thickness of the vadose zone varies across the Trench Area from a maximum thickness of 35 ft bgs in the northern portion of the Trench Area to approximately 18 feet along the south western edge. Elevated concentrations of 1,2-DCA were detected at depths of 23.5 to 24.0 and 33.5 to 34 ft bgs in SB-1. The results of this sampling event were presented to the EPA in letter reported dated October 15, 2002 (Letter Report for Trench Area Soil Investigation)(BBL, 2002). As a result of the August 2002 sampling, additional borings were completed to investigate the extent around SB-1. The subsequent investigation, conducted in November 2002, consisted of an additional 11 soil borings (SB-1A through SB-1K). This investigation identified additional areas with elevated concentrations of 1,2-DCA.

In 2007, soil samples were collected from 10 locations at varying depths consistent with the location and depth intervals sampled in 2002 to evaluate changes in soil concentration (**Figure 12**). 1,2-DCA, 1,2-DCP, acetone, ethylbenzene, methylene chloride, toluene, and total xylenes were detected in soil samples; however, only 1,2-DCA exceeded the industrial PSRG in 2002 and 2007. 1,2-DCA was detected in soil borings SB-1, SB-1E, SB-1J, and SB-1K but was not detected in borings SB-1F, SB-1I, SB-2, SB-3, SB-4 or SB-5. Concentrations generally decrease over time and increase with depth, with concentrations highest near the capillary fringe (30 to 35 ft bgs). The exception is SB-1K, were concentrations were highest at 13.5 to 14 ft bgs (120,000 µg/kg). Since elevated concentrations were not reported in six of the soil boring locations, the 2012 sampling event was modified to include a soil-gas screening based on a grid.

Based on the results of the soil-gas survey, six additional soil sampling locations were selected. The four original soil sampling locations with elevated COCs plus the six locations exhibiting the highest concentrations in the soil-gas screening were sampled in March 2012. The 2012 sampling event confirms 1,2-DCA concentrations in soil are either stable (SB-1) or decreasing (SB-1E, SB-1J, and SB-1K). 1,2-DCA concentration at SB-1K at the 13.5- to 14-foot interval decreased to 80,000 µg/kg in 2012 and the highest concentration (97,000 µg/kg) is currently observed at 36-37 ft bgs, near the capillary fringe. Additional samples collected at the depth interval exhibiting the highest photoionization detector (PID) readings did not correlate to the highest COCs in soil. Analytical data from the four sampling events is summarized on **Table 6** (located at end of report).

SB-1K was the only sample collected in 2002 or 2007 to exhibit toluene, ethylbenzene, or xylenes. While concentrations exceeded the more stringent protection of groundwater PSRGs in 2007, concentrations were below protection of groundwater PSRGs in 2002 and 2012. The detection of 1,2-DCP was limited to one sample in SB-4 in 2002 and 2007. Although the concentration of the 1,2-DCP is greater than the Protection of Groundwater Goal (3.2 µg/kg), the 2002 detection (54 µg/kg) in sample SB-4 (23.5 – 24.0) is less than the North Carolina PSRG for 1,2-DCP (4700 µg/kg); the 2007 detection (11 µg/kg) indicates an 80 percent reduction in soil concentration. Due to low concentrations of COCs, SB-4 was not sampled again in 2012.

Of the six new locations sampled in 2012, all VOCs and SVOCs were below both protection of groundwater PSRGS and industrial soil PSRGs at locations SB-6 and SB-7. At location SB-8, ethylbenzene and xylenes were detected at concentrations exceeding industrial PSRGs and toluene exceeded the protection of groundwater PSRG in 2012. Concentrations increased with depth to 16 ft bgs, and declined to below industrial soil PSRGs at 20 ft bgs. At location SB-9, 1,2-DCP exceeded the protection of groundwater PSRG in the two shallow samples, and exceeded the industrial soil PSRG in the deepest sample (9100 µg/kg) collected at 18-19 ft bgs, just above the water table. Soil samples collected from locations SB-10 and SB-11 exceeded the protection of groundwater PSRG for 1,2-DCA (2 µg/kg), but concentrations were well below the industrial soil PSRG of 2200 µg/kg.

Metals were included in the analyses plan for 2012 due to their presence in groundwater. Iron is naturally occurring and ranges from 26,000 milligrams per kilogram (mg/kg) to 120,000 mg/kg. Iron is prevalent in Piedmont soils at background concentrations ranging from 160 to 73,000 mg/kg (Canova, 1999); iron is unusually high at the Site. All other metals, including arsenic, barium, beryllium, chromium, manganese, nickel, selenium, and zinc were detected at concentrations within typical ranges for background soils. Manganese, which is prevalent in groundwater at the Site, ranges from 86 mg/kg to 2400 mg/kg in soil, which is within the typical range of 7.4 to 17,000 mg/kg and is not indicative of anthropogenic concentrations.

Soil samples are collected every five years. Locations SB-1, SB-1E, SB-1J, SB-1K, and SB-8 will be sampled at three intervals during 2017 (**Figure 12**); samples will be collected only at the three pre-determined depth intervals as additional samples based on PID readings have not provided meaningful data.

6.4.3 OU3

As part of the OU3 monitoring program, groundwater samples were collected at least annually from 1993 to 2011. Groundwater sampling of the OU3 Production Area and Lagoon Area ranged in frequency from quarterly to annually. Monitoring wells sampled as part of the monitoring program were analyzed for all COCs outlined in the RODs. The Northeast Tributary is sampled once every five years for 1,2-DCA only.

Bailer tests were conducted on February 28, 2009 in OU3 monitoring wells NS-39, NS-47, and NS-54 where the highest concentrations of dissolved VOCs were detected. DNAPL was not observed when hydrophobic dye (Oil Red O) was added to groundwater removed from the bottom of the well. Furthermore, a thorough screening of soil cuttings was conducted during the installation of the OU4 SVE wells and the deeper air venting wells. The screening process includes both the use of a PID and the use of hydrophobic dye to determine if NAPL is present; NAPL was not identified. In 2009, wells with usually long screens were further evaluated using vertical profiling and a down-hole camera.

In 2010 and 2011, additional monitoring wells were installed to support an ERD pilot study proposed in the OU3 Lagoon Area. These wells include IWB-1, OWB-1, IWS-1, OWS-1, NS-64, NS-65, NS-66, NS-67, NS-68, NS-69, NS-70 and NS-71. Based on the spatial distribution of COCs and the results of the 72-hour pumpimg test at well IWB-1, it was determined that groundwater extraction from IWB-1 would be more effective than ERD due to the extensive radius of influence observed in Lagoon Area observation wells. IWB-1 will be equipped with an electric submersible pump which will transfer groundwater through the existing overhead conveyance lines to the OU1/OU3 GWPTS, and ultimately to the Salisbury POTW. ERD may be used as a polishing step in the future.

Surface water and sediment samples were collected at four locations along the Northeast Tributary in March 2012. Surface water sampling and analysis for 1,2-DCA will continue to be conducted as part of the FYR.

Groundwater, surface water, and sediment monitoring in OU3 is conducted in compliance with the OU3 ROD to monitor the performance of remedial activities. Groundwater samples collected from the OU3 extraction and monitoring wells are analyzed for VOCs, SVOCs, and metals. Groundwater COCs for OU3 include the following 11 VOCs, two SVOCs, and five metals:

OU3 Contaminants of Concern		
VOCs	**SVOCs**	**Metals**
Acetone	Bis(2-chloroethyl)ether	Antimony
Chloroform	Bis(2-ethylhexyl)phthalate	Chromium
1,1-Dichloroethene		Manganese
1,2-Dichloroethane		Thallium
1 ,2-Dichloropropane		Zinc
cis-1,2-Dichloroethene		
trans-1,2-Dichloroethene		
Methylene chloride		
Tetrachloroethene		
1,1,2-Trichloroethane		
Trichloroethene		
Vinyl chloride		

Monitoring wells in OU3 were sampled twice in 1998. Beginning in 1999, monitoring frequency for wells in OU3 has followed the OU3 Performance Verification Plan (PVP), which stipulates an annual sampling frequency for wells inside the hydraulic capture zone and a semi-annual sampling frequency for wells located outside of this hydraulic capture zone. The PVP was submitted as an appendix to the *OU3 Final Design Report* (BBL, 1998b). Annual sampling of all OU3 monitoring wells, extraction wells, and the CT commenced in March 2002, with subsequent events completed in December of each year including December 2002. The eleventh OU3 annual sampling occurred in December 2011. The analytical results of all groundwater monitoring events are provided in **Table 7** (located at end of report). As shown on **Figures 17**, **18**, and **19**, these constituents are mainly observed in the shallow bedrock, and concentrations have declined in most wells over the last five years.

Surface water samples were collected annually from the Northeast Tributary for a period of five years from 2000 to 2004 and a confirmatory sampling event in 2005. Samples were collected from four locations (SW-09, SW-10, SW-11, and SW-13) in the Northeast Tributary shown on **Figure 2**. **Table 8** presents the analytical results for the surface water and sediment sampling events. The Performance Standard for 1,2-DCA in surface water is 2,000 µg/L; the highest concentration detected in surface water was 840 µg/L at location SW-10 in 2002. Surface water monitoring was discontinued as a component of the annual site monitoring event based on the results of the 2005 confirmatory sampling event, which indicated 1,2-DCA concentration had declined to 200 µg/L. Surface water samples collected in March 2012 confirmed continued decline in concentration at SW-10 (150 µg/L), with a stable concentration trend observed at SW-09 (7.5 µg/L). Surface water samples will continue to be collected and analyzed from the Northeast Tributary at least once every five years as part of the FYR process.

Sediment samples were collected from the Northeast Tributary for a period of five years from 2000 to 2004 and a confirmatory sampling event in 2005. Sediment samples were collected on an annual basis from four locations (SED-09, SED-10, SED-11, and SED-13) in the Northeast Tributary shown on **Figure 2**. Sediment monitoring was also discontinued as a component of the annual site monitoring event based on the results of the 2005 confirmatory sampling event, which indicated

1,2-DCA concentration was estimated at 1.1 µg/kg at location SED-10; concentrations were below the detection limit at all other sediment locations. Sediment samples collected in March 2012 as part of the FYR. This data verified there are no impacts to the Northeast Tributary.

The OU3 groundwater extraction system consists of CT and two extraction wells (NS-49 and NS-51) located downgradient of Lagoon #2 (**Figure 2**). The CT was designed to maintain a groundwater elevation below 740 feet above mean sea level (ft amsl). During the last five years, groundwater elevation has generally been maintained below 734 ft amsl. While the CT has generally operated at a lower pumping rate than anticipated as a result of moisture being pulled out by the OU4 SVE system, drought conditions, and limited recharged allowed by the new concrete driveway, it has successfully maintained a groundwater elevation less than 740 ft amsl.

Table 8 Northeast Tributary Surface Water and Sediment Monitoring

SURFACE WATER
1,2-DICHLOROETHANE

Sample Location	1999Q3	2000Q3	2002Q4	2003Q4	2004Q4	2005Q4	2012Q1
SW-09	5 U	19	23	23	4.2	5.4	7.5
SW-10	5 U	160	840	790	370	200	150
SW-11	5 U	5 U	NS	NS	NS	NS	< 1 U
SW-13	10	3 J	1 U	0.74 J	0.24 J	1 U	< 1 U

NOTES:
Units in µg/L
ROD Performance Standard: 2,000 µg/L
NS - Not Sampled
U - Not detected at indicated concentration
J - Estimated concentration less than the detection limit

SEDIMENT
1,2-DICHLOROETHANE

Sample Location	1999Q3	2000Q3	2002Q4	2003Q4	2004Q4	2005Q4	2012Q1
SE-09	7.7 U	7 U	7.5 U	8 U	6.4 U	8 U	< 7.7 U
SE-10	7.4 U	7 U	7.2 U	11	13	1.1 J	< 7 U
SE-11	23 U	12 U	8.1 U	10 U	8.9 U	8.8 U	< 10 U
SE-13	7.4 U	6 U	6.5 U	7.4 U	7.8 U	7.7 U	< 6 U

NOTES:
Units in µg/kg
OU4 ROD Performance Standard for Soil: 169 µg/kg
U - Not detected at indicated concentration
J - Estimated concentration less than the detection limit

The OU3 groundwater extraction system operated from December 1999 until the October 17, 2008 fire that damaged the OU1/OU3 GWPTS. With the shutdown of the GWPTS, AkzoNobel has taken the opportunity to evaluate the OU3 RA. Extraction wells NS-49 and NS-51 were highly effective at removing contaminant mass in the Lagoon Area with 1,2-DCA concentrations decreasing from 34,000 µg/L to 0.76 µg/L and 410,000 µg/L to 0.82 µg/L, respectively. The groundwater in the vicinity of these two extraction wells no longer contains the highest concentrations of DCA in OU3. Due to the continued presence of other COCs above clean-up goals in the saprolite and deeper bedrock, AkzoNobel has considered alternatives to optimize the current approach to groundwater remediation, and is evaluating ERD. It has been determined that groundwater extraction continues to be the most effective remedial action at this time; however, ERD will continue to be evaluated in conjunction with extraction to maximize mass removal.

To evaluate the effectiveness of the OU3 remedy, a statistical evaluation was completed for analytical results for groundwater for OU3. In addition, groundwater modeling and data evaluation was completed to verify that hydraulic control is achieved based on current system operations.

As a component of the annual site monitoring report, Mann-Kendall trend analyses for the period 2007 through 2011 were performed for OU3. **Appendix C** presents the data evaluation process and result for the Mann-Kendall test. The results of the trend analyses are summarized in **Appendix C** for the OU3 Extraction and Monitoring Wells. Results of trend analyses indicate stable or decreasing trends over the 5-year period with the exception of the following:

- 1,2-DCA, tetrachloroethene (PCE), and vinyl chloride in shallow bedrock monitoring well NS-53;
- bis(2-chloroethyl) ether in shallow bedrock monitoring well NS-49; and
- manganese in shallow bedrock monitoring wells NS-38 and NS-49.

During installation of IWS-1 for the ERD pilot study in 2011, an elevated concentration of 1,2-DCA was detected in groundwater approximately 75 feet upgradient of NS-53. This is considered a point source not identified in previous investigations, and insufficient data exists to establish a trend. NS-53 is located outside the zone of influence of extraction wells NS-49 and NS-51, and would not have been addressed during operation of the former extraction wells. It will, however, be addressed through extraction well IWB-1, which was installed in 2011. Although a recent increasing trend is observed at well NS-49, the concentration of bis(2-chloroethyl) ether is only 8.2 µg/L. The increasing trend of manganese is likely a result of reducing conditions in groundwater created by the degradation of organic material. Anaerobic conditions are verified in well sampling logs which indicate low levels of dissolved oxygen (DO) were detected during sampling events. With the exception of manganese, results of trend analyses indicate no significant trends for site-related constituents.

In 2007, extraction wells NS-49 and NS-51 operated at an average combined pumping rate of 15 gpm. The average combined pumping rate was lower than previous years due to pump maintenance activities, drought conditions, and prolonged dewatering of the aquifer. These extraction wells were taken out of service in October 2008 as a result of the fire in the GWPTS. The table below presents the average combined pumping rates for NS-49 and NS-51 for the last five years.

Average Pumping Rate for the OU3 Extraction System	
Year	**Average Combined Pumping Rate (gpm)**
2007	15.0
2008	12.5
2009	0.0
2010	0.0
2011	0.0

In general, extraction wells NS-49 and NS-51 operated consistent with the previously constructed groundwater flow model (BBL, 1998a) at approximately 20 gpm. Since concentrations of COCs were at or below ROD Performance Standards at the time of the October 2008 fire, the wells were not put back into service. Instead, an ERD pilot study was proposed as a polishing step to reduce remaining impacts to groundwater in the Lagoon Area to below ROD Performance Standards. Based on the concentrations detected in the pilot study wells and the subsequent investigation, the ERD pilot study has been suspended and active extraction will be restarted at well IWB-1 in 2012. IWB-1 is expected to yield approximately 30 gpm. Due to the high degree of interconnectivity observed in the Lagoon Area, IWB-1 is expected to influence both the saprolite and shallow bedrock units, extending from 20 to 300 feet below land surface (ft bls).

The groundwater potentiometric surface under non-pumping conditions is represented by the potentiometric maps for 2011 (**Figures 13** and **14**). To estimate hydraulic control, groundwater elevation measurements and groundwater extraction rates for IWB-1 were input into the numerical groundwater flow model developed in 2011 using the United States Geologic Survey (USGS) Modular Finite-Difference Ground-Water Flow Model (ModFlow). Based on the groundwater level data and results of groundwater modeling, hydraulic control can be achieved through groundwater extraction at IWB-1. IWB-1 is expected to be brought online in 2012 at a rate of 15 gpm, which will achieve partial capture of the groundwater impacts in saprolite and bedrock. Once the GWPTS air stripper is upgraded, the extraction rate will be increased to the design rate of 30 gpm. Based on the ability of groundwater extraction to meet ROD Performance Standards in the shallow bedrock and the anticipated zone of influence from IWB-1 in the saprolite and bedrock, the selected remedy is expected to mitigate potential risks. **Figures 15** and **16** present the radius of influence (ROI) for IWB-1 at the initial flow rate of 15 gpm and the design flow rate of 30 gpm, respectively.

Groundwater Quality

Vertical profiling was performed on four wells with screened intervals ranging from 45 ft to 180 ft in length. These wells are: NS-49 (open hole completion), NS-51 (0.020 slotted PVC screen), NS-53 (open hole completion), and NS-54 (0.010 slotted PVC screen). PDBs were distributed throughout the screened interval at predetermined depths btoc. The number of PDBs deployed per well ranged from three to six. Baffles were installed between every two PDBs in order to retard vertical flow, giving a more representative sample of the interval. Samples were analyzed for OU3

VOCs, with the exception of acetone. The laboratory analytical data for NS-49 and NS-51 indicated a consistent VOC distribution throughout the screened intervals. Only a slight variation in concentration was observed over the five sample intervals within NS-53. This low concentration of 1,2-DCA was consistent throughout the various fracture zones in the shallow bedrock water-bearing unit. The only VOC detected in deep bedrock well NS-54 was 1,2-DCA. The trend of the 1,2-DCA data shows an increase with depth, the greatest concentration (28,000 µg/L) at 173 ft bgs (~595 ft amsl). This data suggest an influx into the well within the lower third of the screened interval.

The results of the 2011 groundwater sampling for OU3 indicate the following VOCs were detected:

2011 Analytical Results for VOCs for OU3 Groundwater Sampling Event

VOCs	Frequency of Detection	Concentration Range (µg/L)	OU3 Performance Standard	Frequency of Exceedance	Concentration of Maximum Exceedances (per well, detects only)
Acetone	3/38	5.1 - 12	700	0/3	--
Benzene	0/0	--	--	--	--
Bromodichloromethane	0/0	--	--	--	--
Chloroform	6/38	0.68 J - 31	1	5/6	NS-53 (5.1 J); NS-65 (2.3); NS-69 (31); NS-70 (10); IWB-1 (4.4);
1,1-Dichloroethene	6/38	1.1 - 4.8	7	0/6	--
1,2-Dichloroethane	30/38	1.4 - 380,000	1	30/30	NS-39(1.7); NS-40 (8700); NS-42 (3.5); NS-49 (1100); NS-50(49); NS-53 (2000); NS-54 (24,000); NS-62 (1.5); NS-63 (7.9); NS-64 (27,000); NS-65 (290); NS-66 (21,000/21,000); NS-67 (670); NS-68 (5900); NS-69 (110); NS-70 (6700) NS-71 (120,000); IWB-1 (1200); IWS-1 (380,000/260,000); CT-1 (1.6); NS-35 (39); NS-36 (13,000); NS-45 (1.4); NS-46 (99); NS-59 (6.9/6.4); NS-60 (3.7); NS-61 (9.7)
1,2-Dichloropropane	0/38	--	1	--	--
cis-1,2-dichloroethene	12/38	1.1 - 4.1	70	0/12	--
Trans-1,2-Dichloroethene	0/38		70	0/0	--
Ethylbenzene	0/0	--	--	--	--
Methylene chloride	2/38	8.2 - 2900	5	2/2	IWB-1 (8.2); IWS-1 (2900)
Toluene	0/0	--	--	--	--
Tetrachloroethene	3/38	0.54 J - 2.1	1	1/3	IWB-1 (2.1)
1,1,2-Trichloroethane	0/31	--	5	0/0	--
Trichloroethene	16/38	1.3 - 32	2.8	10/16	NS-39 (25); NS-40 (7.4); NS-49 (7.5); NS-50 (4.4); NS-51 (2.9); NS-64 (32); NS-67 (12); NS-68 (5.2 J); NS-35 (4.1); NS-46 (9.6)
Vinyl Chloride	20/38	0.39 J - 360	1	18/20	NS-39 (24); NS-40 (39); NS-49 (10); NS-50 (13); NS-53 (29); NS-64 (180); NS-66 (62/64); NS-67 (21); NS-68 (10); NS-70 (26); IWS-1 (280/360); NS-35- (11); NS-36 (94); NS-46 (31); NS-59 (10/10)
Xylenes (total)	0/0	--	--	--	--

Notes:
All concentrations in µg/L
J Estimated concentration is less than the reporting limit

As shown in the above table, 1,2-DCA was detected most frequently and at the highest concentrations, and vinyl chloride is observed as a daughter product of 1,2-DCA degradation. Other VOCs are detected, but are present at relatively low concentrations. 1,2-DCA was detected at concentrations above 1 percent aqueous solubility, 86.9 mg/L, in monitoring wells NS-39 and NS-54 in the Lagoon Area and NS-47 in the Production Area prior to abandonment. There are only two locations within the plant where 1,2-DCA was present in undiluted form: in the delivery alley southwest of well NS-61 (associated with Project Hushpuppy) and at the Project Porcupine dryer located south of well NS-47. 1,2-DCA was used or transported in diluted form throughout the rest of the plant and the process sewers. These 2 areas in the plant are the only locations where DNAPL might be present. Although concentrations above 1 percent aqueous solubility indicate the potential for DNAPL presence, the bailer tests with hydrophobic dye conducted in these wells confirm the absence of DNAPL in OU3 groundwater. Furthermore, a thorough screening of soil cuttings was conducted during the installation of the OU4 SVE wells and the deeper air venting wells. The screening process included both the use of a PID and the use of hydrophobic dye to determine if NAPL was present; NAPL was not identified in soil.

Groundwater concentrations in the OU3 Production Area have benefited from the air sparge/SVE system installed in OU4 to remediate impacts to soil. Concentrations of 1,2-DCA in groundwater have been reduced from 13,000 µg/L to 39 µg/L in saprolite well NS-35 and from 38,000 to 13,000 µg/L in shallow bedrock well NS-36 since the SVE system was installed in 2009.

Groundwater analytical data from the new Lagoon Area wells indicated 1,2-DCA at concentrations as high as 380,000 µg/L in saprolite well IWS-1. In bedrock well IWB-1, 1,2-DCA was detected as high as 36,000 µg/L in bedrock fractures between 154 and 174 ft bls, with lower concentrations in both shallower and deeper fractures. Concentrations decline with depth to 320 ft bls, but vertical delineation to the ROD Performance Standard of 1 µg/L has not been completed.

The results of the 2011 groundwater sampling for OU3 indicate the following SVOCs were detected:

2011 Analytical Results for SVOCs for OU3 Groundwater Sampling Event

SVOCs	Frequency of Detection	Concentration Range (µg/L)	OU3 Performance Standard	Frequency of Exceedance	Concentration of Maximum Exceedances (per well, detects only)
bis(2-chloroethyl) ether	18/38	0.68 J- 28	5	9/18	NS-39 (23); NS-40 (5.5); NS-49 (8.2); NS-50 (11); NS-66 (6.6/6); NS-67 (13); IWS-1 (28); NS-38 (17 J)
bis(2-Ethylhexyl) phthalate	1/38	21-21	5	1/1	NS-69 (21)

Notes:
All concentrations in µg/L
J Estimated concentration is less than the reporting limit

OU3 SVOCs are limited to bis(2-chloroethyl) ether and bis(2-ethylhexyl) phthalate. Bis(2-chloroethyl) ether was detected at a maximum concentration of 38 µg/L in OU3. Bis(2-ethylhexyl) phthalate, a common laboratory artifact, was only detected once.

The results of the 2011 groundwater sampling for OU3 indicate the following metals were detected:

2011 Analytical Results for Metals for OU3 Groundwater Sampling Event

Metals	Frequency of Detection	Concentration Range (µg/L)	OU3 Performance Standard	Frequency of Exceedance	Concentration of Maximum Exceedances (per well, detects only)
Antimony	9/38	2.8 J - 5.8 J	6	0/9	--
Arsenic	0/0	--	--	--	--
Barium	0/0	--	--	--	--
Beryllium	0/0	--	--	--	--
Cadmium	0/0	--	--	--	--
Chromium	22/38	1.5 J - 200	50	3/22	NS-33 (200); NS-59 (74 J/81 J)
Manganese	37/38	4.7 J - 50,000	50	31/37	NS-39 (14,000); NS-40 (8500); NS-41 (980); NS-42 (11,000); NS-49 (9100); NS-50 (2100); NS-51 (1500); NS-53 (8800); NS-54 (590); NS-62 (1200); NS-63 (130); NS-64 (16,000); NS-65 (4500); NS-66 (8300/8600); NS-67 (5400); NS-68 (3700); NS-70 (810); NS-71 (3500); IWB-1 (5500); IWS-1 (16,000/14,000); CT-1 (57); NS-35 (14,000); NS-36 (3600); NS-38 (50,000); NS-45 (280); NS-59 (3800/4100); NS-60 (360); NS-61 (530)
Nickel	0/0	--	--	--	--
Selenium	0/0	--	--	--	--
Thallium	4/38	1 J - 1.8 J	2	0/4	--
Zinc	17/38	3 J - 12,000	2100	2/17	NS-60 (7200); NS-63 (12,000)

Notes:
All concentrations in µg/L
J Estimated concentration is less than the reporting limit

Chromium, manganese, and zinc were detected most frequently; however, detections were less than the Performance Standards for zinc and chromium. Manganese was detected above the Performance Standard in 31 monitoring wells. The frequent detections of manganese are likely a result of reducing conditions in groundwater created by the degradation of organic material.

Results of the sampling event indicated 1,2-DCA at concentrations as high as 150 µg/L in surface water location SW-10 in March 2012. Historically, 1,2-DCA has been observed at SW-10 at concentrations up to 840 µg/L in 2002. 1,2-DCA was non-detect in sediment at all four locations in March 2012. Historically, 1,2- DCA has been observed at SE-10 at concentrations as high as 13 µg/kg in 2004. Surface water and sediment sampling and analysis for 1,2-DCA should continue to be conducted as part of the FYR.

Mann-Kendall Test for Trend

Trends for the concentrations of constituents of concern were analyzed primarily using the Mann-Kendall test for trend. The Mann-Kendall test for trend is a non-parametric test that can account for missing values and does not require data to fit a particular distribution (Gilbert, 1987). The significance of a trend was testing using the following hypotheses:

- There is no significant trend (null hypothesis);

- There is a significant upward trend; or
- There is a significant downward trend.

Based on the number of samples and probability of certain characteristics of a trend, the null hypothesis of no significant trend is either accepted or rejected. If the probability of no trend is less than 5 percent (p-value less than 0.05), the null hypothesis is rejected and either a significant upward trend or a significant downward trend is accepted based on the sign of the trend analysis statistic. Trend analyses were performed using the ProUCL version 4.1 statistical software package (EPA, 2011). Because ProUCL 4.1 does not handle non-detects statistically in Mann-Kendall trend analyses, as it does with other tests, non-detects were treated as they were in the 2007 NSCC FYR report.

Mann-Kendall requires at least four data points. Constituents were not analyzed if the frequency of detection was such that there were fewer than four actual detects to use as data points for Mann-Kendall. Wells with fewer than four detections were not analyzed because there were too few data points to reject the null hypothesis. Where there were non-detects in addition to the minimum of four detects, they were treated as follows: if the detection limit was below the ROD Performance Standard, the value was not included in the Mann-Kendall analysis. If it was above the Performance Standard, then the reporting limit was divided by two and included in the analysis.

Sixty four (64) trend analyses were performed on samples from 21 different wells in OU3. Results of trend analyses indicate stable or decreasing trends over the 5-year period (2007-2011) with the exception of the following:

- 1,2-DCA, PCE, and vinyl chloride in monitoring well NS-53;
- bis(2-chloroethyl) ether in monitoring well NS-49; and
- manganese in monitoring wells NS-13, NS-38, and NS-49.

The increasing trends observed in well NS-53 are indicative of impacts west of extraction wells NS-49 and NS-51, which were more fully investigated in the Lagoon Area during the installation of ERD pilot study wells in 2010 and 2011. Due to a lack of data points, trend analyses could not be evaluated on these newly installed wells. While bis(2-chloroethyl) ether is increasing in well NS-49, the maximum detected concentration detected over the last five years is only 8.2 µg/L, while the maximum historical concentration observed in June 2000 is 20 µg/L. The increasing trend for manganese is likely a result of reducing conditions in groundwater created by the degradation of organic material. Anaerobic conditions are verified in well sampling logs where low DO concentrations were measured during well sampling.

Figure Summaries

Trend plots for those COCs that have been detected above ROD Performance Standards over the last five years are included on **Figures 17** through **19**. These trend plots include available data collected between 2007 and 2011, with non-detects removed from the dataset (*i.e.,* non-detects are not treated as zero or one-half the detection limit, but treated as not analyzed). There are several occasions where a COC is detected above the ROD Performance Standard, but only one reliable data point exists and therefore a trend could not be established. For instance, in cases where a

constituent was non-detect at an elevated detection limit (*e.g.*, <1000 µg/L) and was later detected at concentration less than half the detection limit of the previous samples (*e.g.*, 45 µg/L), plotting the non-detects at one-half the detection limit does not provide an accurate portrayal of the trend. All available data for each monitoring well at the Site is included on **Table 7** (located at end of report) and included in the discussion below.

Figure 17 summarizes data for VOCs, SVOCs, and metals detected in the saprolite water bearing zone over the last five years. Three saprolite wells are located in the OU3 Northern Production Area: NS 35, NS-43, and NS-59.

- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-35 located adjacent to the Northeast Tributary: 1,2-DCA (39 µg/L), TCE (4.1 µg/L), vinyl chloride (11 µg/L), and manganese (14,000 µg/L). Although no statistically significant trend exists according to the Mann-Kendall analysis for trend because concentrations fluctuated widely prior to installation of the OU4 SVE system, concentrations of 1,2-DCA have declined significantly from 13,000 µg/L in 2009 to 39 µg/L in 2011.
- Monitoring well NS-43 is located east of the Northeast Tributary; based on the LeGrand Model, the tributary is the hydraulic discharge boundary and impacts from the site should not be observed in this well. As expected, all COCs are below ROD Performance Standards and non-detect. Manganese and other naturally-occurring metals are detected in NS-43 but at concentrations below ROD Performance Standards.
- Due to questionable integrity of monitoring well NS-47 and its proximity to the Project Porcupine dryer, it was abandoned and replaced by well NS-59 during installation of the SVE well network in 2009. In 2008, the following COCs were observed above the ROD Performance Standards in monitoring well NS-47: 1,2-DCA (320,000 µg/L) and manganese (2070 µg/L). All other VOCs were non-detect at elevated detection limits. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-59: 1,2-DCA (6.9 µg/L), vinyl chloride (10 µg/L), chromium (74 J µg/L), and manganese (3800 µg/L). The substantial decrease in groundwater concentrations is attributed to air sparging and SVE associated with the OU4 soil RA.

There are 12 saprolite wells located in the OU3 Lagoon Area that were sampled in December 2011. In general, the lowest concentrations of COCs are observed in established monitoring wells NS-13, NS-33, NS-39, NS-42, and NS-62. These wells are located within the zone of influence of former extraction wells NS-49 and NS-51, which effectively remediated portions of the Lagoon Area. NS-62 was installed in 2010 to evaluate impacts to groundwater near the parking lot. In 2010, several saprolite wells were installed to support the ERD pilot study, and a subsequent groundwater investigation was conducted in 2011. These wells are discussed in more detail below:

- Saprolite well IWS-01 was installed as an injection well. In 2011, the following COCs were observed above the ROD Performance Standards: 1,2-DCA (260,000 µg/L), vinyl chloride (360 µg/L), bis(2-chloroethyl) ether (28 µg/L), and manganese (14,000 µg/L). IWS-01 is screened from 16 to 36 ft bgs.
- Saprolite well NS-64 was installed approximately 20 feet downgradient of IWS-01 to monitor injection activities. Concentrations of VOCs were observed at approximately 1

order of magnitude less than observed at IWS-01: 1,2-DCA (27,000 µg/L), TCE (32 µg/L), vinyl chloride (180 µg/L), bis(2-chloroethyl) ether (15 B µg/L), and manganese (16,000 µg/L). NS-64 is screened from 18 to 38 ft bgs.

- Saprolite well NS-65 was installed approximately 25 feet upgradient of IWS-01. The only COCs observed above the ROD Performance Standards in monitoring well NS-65 were 1,2-DCA (290 µg/L) and manganese (4500 µg/L), essentially delineating the area of significant impact. Groundwater is controlled by a bedrock ridge observed during drilling of NS-65, which was off-set three times due to shallow bedrock (*e.g.*, 13 and 15.5 ft bgs) encountered above the water table. NS-65 is screened from 40 to 50 ft bgs.
- Saprolite well NS-66 was installed between IWS-01 and Lagoon 2. In 2011, the following COCs were observed above the ROD Performance Standards: 1,2-DCA (21,000 µg/L), vinyl chloride (62 µg/L), bis(2-chloroethyl) ether (6.6 µg/L), and manganese (8300 µg/L). NS-66 is screened from 57.3 to 67.3 ft bgs.
- Saprolite well NS-67 was installed downgradient of IWS-01 and NS-64. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-67: 1,2-DCA (670 µg/L), TCE (25 µg/L), vinyl chloride (24 µg/L), bis(2-chloroethyl) ether (23 µg/L), and manganese (14,000 µg/L). Concentrations of all VOCs decline quickly along the flow path of IWS-01 to NS-64 to NS-67. The relatively low concentrations at monitoring well NS-67 compared to upgradient well NS -64 and downgradient well NS-71 suggest a second point source at downgradient saprolite well pair NS-68 and NS-71.
- Deep saprolite well NS-68 was installed at the north-northeast corner of Lagoon 2. The scope of work during this investigation was to install all saprolite wells at the top of rock as determined by auger refusal. Therefore, NS-68 is screened from 106.5 to 116.5 feet bgs. The top of bedrock is considerably deeper in this area of the Site, and represents the "shear zone" mentioned in the earlier documents. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-68: 1,2-DCA (5900 µg/L), TCE (5.2 J µg/L), vinyl chloride (10 µg/L), and manganese (3700 µg/L).
- Saprolite well NS-71 was installed adjacent to deep saprolite well NS-68 to monitor groundwater quality in the shallower saprolite, to determine if groundwater impacts migrate horizontally across the stratum or if impacts follow the bedrock surface; therefore, NS-71 is screened at 50 to 60 ft bgs. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-71: 1,2-DCA (120,000 µg/L) and manganese (3400 µg/L). 1,2-DCA appears to be primarily migrating laterally within the saprolite, with some downward migration along the top of bedrock.

Figure 18 summarizes data for VOCs, SVOCs, and metals detected in the Shallow Bedrock HSU over the last five years. Six shallow bedrock wells are located in the OU3 Northern Production Area: NS 36, NS-38, NS-44, NS-45, NS-60, and NS-61.

- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-36: 1,2-DCA (13,000 µg/L), vinyl chloride (94 µg/L), and manganese (3600 µg/L). Although no statistically significant trends are observed due to the high variability of the dataset, the concentration of 1,2-DCA in groundwater has declined from a historical high of 130,000 D µg/L observed in 2001 and the baseline concentration of 38,000 µg/L observed in December 2009 at start-up of the OU4 SVE RA. Remediation of

soils and groundwater within the saprolite zone as well as plant improvements has contributed to improved groundwater quality within the shallow bedrock zone.

- Monitoring well NS-38 is located northwest of the OU3 Production Area along the Northeast Tributary. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-38: bis(2-chloroethyl) ether (17 J µg/L) and manganese (50,000 µg/L).
- Monitoring well NS-44 is located east of the Northeast Tributary and based on the LeGrand Model, the tributary is the hydraulic discharge boundary and impacts from the site should not be observed in this well. As expected, all COCs are below ROD Performance Standards and non-detect.
- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-45: 1,2-DCA (1.4 µg/L) and manganese (280 µg/L). Concentrations of COCs have been stable for the last 10 years.
- Monitoring well NS-60 was installed in 2009 during installation of the OU4 SVE injection well network. At startup of the OU4 SVE system in December 2009, the concentration of 1,2-DCA in monitoring well NS-60 was 35,000 µg/L. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-60: 1,2-DCA (3.7 µg/L), manganese (360 µg/L), and zinc (7200 µg/L).
- Monitoring well NS-61 was installed in 2009 during installation of the OU4 SVE injection well network, and is located upgradient of NS-60. In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-61: 1,2-DCA (9.7 µg/L) and manganese (530 µg/L). The maximum concentration of 1,2-DCA detected in groundwater from NS-61 is 370 µg/L in September 2009; a statistically significant downward trend is observed.

In December 2011, 10 shallow bedrock wells located in the OU3 Lagoon Area were sampled. In general, the lowest concentrations of COCs are observed in established monitoring wells NS-41, NS-50, NS-51, NS-52, and NS-63. These wells are located within the zone of influence of former extraction well NS-51, which effectively remediated portions of the Lagoon Area. In 2010, several shallow bedrock wells were installed to support the ERD pilot study, and a subsequent groundwater investigation was conducted in 2011. Shut down of the extraction wells in October 2008 and drilling activities in third quarter 2011 may have attributed to unusual observations in the remaining established wells. These wells and all new shallow bedrock wells are discussed in more detail below.

- Shallow bedrock well IWB-01 was installed as an injection well. In 2011, the following COCs were observed above the ROD Performance Standards: 1,2-DCA (1200 µg/L), chloroform (4.4 µg/L), methylene chloride (8.2 µg/L), PCE (2.1 µg/L), and manganese (5500 µg/L). IWB-01 is screened from 60 to 260 ft bgs; however, the borehole was cored to 320 ft bgs and grouted to 260 ft bgs to seal off the lower fractures from the more impacted fractures above.
- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-40: 1,2-DCA (8700 µg/L), TCE (7.4 µg/L), vinyl chloride (39 µg/L), bis(2-chloroethyl) ether (5.5 µg/L), and manganese (8500 µg/L). In the period 2007 through 2010, the concentration of 1,2-DCA ranged from 210 µg/L to 10 µg/L with no statistically significant trend observed over the last five years.

- Groundwater extraction from extraction well NS-49 was discontinued in October 2008 due to a fire in the groundwater pretreatment system. The concentration of 1,2-DCA in groundwater was 3800 µg/L in December 2007 and 2700 µg/L in July 2008. Shortly after shut down, 1,2-DCA concentration was reported at 0.76 J µg/L in December 2008. In the subsequent years, 1,2-DCA was detected at concentrations slightly above the ROD Performance Standard but below the MCL. In December 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-49: 1,2-DCA (1100 µg/L), TCE (7.5 µg/L), vinyl chloride (10 µg/L), bis(2-chloroethyl) ether (8.2 µg/L), and manganese (9100 µg/L). In the period 2007 through 2011, upward trends are observed for bis(2-chloroethyl) ether and manganese while a downward trend is observed for TCE.
- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-53: 1,2-DCA (2000 µg/L), chloroform (5.1 J µg/L), vinyl chloride (29 µg/L), and manganese (8800 µg/L). In 1998, prior to groundwater extraction in the OU3 Lagoon Area, 1,2-DCA was observed at concentrations as high as 110,000 µg/L. Concentrations declined sharply when extraction began, with all COCs except manganese below ROD Performance Standards in 2008 when extraction ceased. Concentrations of COCs remained relatively low in 2009 and 2010. In 2011, concentrations of 1,2-DCA and manganese increased; these increases may be related to drilling activities in the Lagoon Area in the weeks preceding the sampling event.
- In 2011, the following COCs were observed above the ROD Performance Standards in monitoring well NS-54: 1,2-DCA (24,000 µg/L) and manganese (590 µg/L). Concentrations of 1,2-DCA varied throughout the five-year period with no statistically significant trend.
- Monitoring well NS-63 was installed in the parking lot in 2010 to evaluate groundwater impacts in the areas exhibiting the highest impacts to soil in the OU4 Lagoon Area based on the 2009 soil investigation. The following COCs were observed above the ROD Performance Standards in monitoring well NS-63: 1,2-DCA (7.9 µg/L), manganese (130 µg/L), and zinc (12,000 µg/L).
- Monitoring well NS-69 was installed adjacent to saprolite wells NS-68 and NS-71 to monitor groundwater quality in the shallow bedrock. 1,2-DCA was the only COCs observed above the ROD Performance Standards in monitoring well NS-69 (110 µg/L). However, the groundwater exhibits evidence of possible grout intrusion and has an uncharacteristically low yield, and this sample may not be representative of the aquifer.

Figure 19 summarizes data for VOCs, SVOCs, and metals detected in the deep bedrock zone over the last five years. Several wells previously identified as deep bedrock wells, such as NS-54, have been reclassified as shallow bedrock wells due to fracture spacing and connectivity with the saprolite.

- Monitoring well NS-46 is located in the Northern Production Area. The following COCs were observed above the ROD Performance Standards in monitoring well NS-46: 1,2-DCA (99 µg/L), TCE (9.6 µg/L), and vinyl chloride (31 µg/L). A statistically significant downward trend is observed for vinyl chloride, while no trend is observed for the other VOCs.
- Monitoring well NS-70 was installed adjacent to wells NS-68/69/71 in the Lagoon Area, and is open from 270 to 320 feet bgs. The following COCs were observed above the ROD

Performance Standards in monitoring well NS-70: 1,2-DCA (6700 µg/L), vinyl chloride (26 µg/L), and manganese (810 µg/L). Packer testing was performed in February 2012 to determine the mass distribution across the 50-foot open hole; results indicated concentrations were at similar concentrations throughout the interval, with a maximum concentration of 3000 µg/L. The higher concentration observed in December 2011 may be a result of contamination introduced from the upper fractures during installation.

6.4.4 OU4

The trench SVE system was discontinued in December 2010 because the analytical results indicated the system was not necessary. The main SVE system comprised of vertical extraction wells continues to operate. As of April 2012, the SVE system has removed approximately 10,000 pounds of VOCs from vadose zone soils and sparged water table, based on the monthly exhaust gas analytical data and the volume of air extracted.

Once sampling indicates soil vapor concentrations similar to or less than the average asymptotic level, a select number of SVE injection wells will be sacrificed for the purpose of collecting soil samples. Using a drill bit, the bottom cap of the well will be drilled out to allow access to the soil beneath. A soil sample will be collected approximately 2 feet below the bottom of the well and analyzed for VOCs. If the soil sample meets the Performance Standards specified in the ROD, remediation will be considered complete. In the event Performance Standards are not met, the SVE system may continue to operate. Alternatively, AkzoNobel will evaluate / develop alternatives, including natural degradation of any remaining COCs in excess of the ROD Performance Standard.

Soil quality in the OU4 Production Area is monitored indirectly through collection of air samples from Zone 1 and Zone 2 SVE wells as shown on **Figure 20**. Monthly off-gas samples are collected from the SVE remediation system using 1-liter Summa canisters and analyzed by TestAmerica using EPA Method TO-15. Analytical results and system run time are used to calculate estimated mass removal. On an annual basis, soil-gas samples are collected from select SVE wells and compared to baseline results. Sampling locations were selected to correspond to known locations of the soil contamination identified by previous NTDS sampling. The soil-gas samples were collected after the remediation system had been shut down for a minimum of three weeks to allow the soil gas to reach equilibrium. The sample flow into 6-liter Summa canisters was controlled by the laboratory provided flow controller and the collected samples analyzed by TestAmerica using EPA Method TO-15.

Soil quality was also evaluated in the OU4 Lagoon Area to determine if natural attenuation (the selected remedy) was effective in the Lagoon Area, or if the SVE remedy needed to be extended toward the parking lot and lagoons. In May 2009, a soil investigation was completed in the Lagoon Area in the vicinity of the abandoned process water lines. The purpose of the 2009 soil investigation was to further delineate 1,2-DCA impacts in soil and to determine if COCs persisted at locations previously detected during the 1992 investigation in the OU4 Lagoon Area. Historic soil sampling completed during the RI (IT, 1993a) indicate the presence of 1,2-DCA above the OU4 Performance Standard of 169 µg/kg. Subsequent soil sampling events in the vicinity of the impacts were completed at location SBLA-13 in 2003, 2004, and 2005. In 2009, soil samples were collected adjacent to these locations at similar depth intervals. The analytical data from these

sampling events was summarized in the *OU4 Lagoon Area Soil Sampling Report* (ARCADIS, 2009a) and indicate a significant decline in 1,2-DCA concentration over time. The additional soil investigation in 2009 was successful in delineating the soil impacts along the abandoned process waste water lines in the Lagoon Area and indicates that the soil impacts are limited to a small area in the vicinity of the parking lot. The soil sampling locations and associated data are shown on **Figure 21**. All samples collected from borings located around the lagoons themselves and the other process pipes are below the OU4 Performance Standard for 1,2-DCA and below industrial soil PSRGs for all other constituents.

In conjunction with the 2011 Lagoon Area investigation, soil samples were collected below the water table during drilling at the following locations: NS-65B, NS-65C, NS-66, and NS-68. These soil sampling locations are also shown on **Figure 21**. All PID screenings were non-detect in the vadose zone, therefore no vadose zone soil samples were collected during this investigation. Wells were set at NS-65 (denoted as NS-65C on boring logs), NS-66 and NS-68. No soil sample was collected at soil boring NS-65A; however lithology was logged on a boring log using a split spoon sampler. NS-65B was the second soil boring location where shallow refusal was encountered at 15.5 feet.

Soil Quality

Based on monthly SVE system exhaust samples, an estimated 10,000 pounds of VOCs have been removed from OU4 between start up in October 2009 and December 2011.

While the system was down for maintenance in January 2011 and January 2012, soil-gas samples were collected from select SVE wells for comparison to baseline concentrations established in October 2009, prior to system start-up (**Table 9**). The baseline samples do not take into account contaminant transport from the groundwater to the vadose zone due to active sparging. 1,2-DCA concentrations ranged from <2400 $\mu g/m^3$ to 570,000,000 $\mu g/m^3$, with the highest results observed at well SV-46 located within the Area 2 Production Room where vapors were not suppressed by the heavy rainfall that occurred just prior to the sampling event. The results of other soil-gas samples are biased low due to suppression of vapors. The soil-gas concentrations observed in January 2011 were substantially higher than baseline with the exception of well SV-46. Comparing the 2011 and 2012 results, significant decreases in soil-gas concentration (three to four orders of magnitude) are observed for the majority of the sample locations. SV-46 continues to exhibit high concentrations of volatile organics present in the soil gas, with 1,2-DCA observed at 1,700,000 $\mu g/m^3$. Remediation of this portion of the OU4 Production Area is limited by air flow since sparge wells were not installed due to safety concerns over vapor migration into occupied spaces. The remediation effort will be refocused in 2012 to account for the Area 2 Production Room by isolating this remaining hot-spot from the remediated areas, and programming the system to run the Production Room SVE wells at higher vacuum and longer intervals. The contingent remedy, SVE, will continue to be implemented for the OU4 Production Area.

The tabulated analytical results from the 2009 soil sampling event are included on **Table 10** and 1,2-DCA concentrations are presented on **Figure 21**. The laboratory analytical results indicate 1,2-DCA exceeds the OU4 Performance Standard at two locations (SBLA-13B and SBLA-26).

Detections of 1,2-DCA that exceed the OU4 Performance Standard of 169 µg/kg are presented below.

SBLA – 13B (11.0 – 11.5 ft bls) - 2100 µg/kg (2400 µg/kg in duplicate)
SBLA – 13B (13.0 – 13.5 ft bls) - 3500 µg/kg
SBLA – 26 (4.5 – 5.0 ft bls) - 510 µg/kg
SBLA – 26 (11.5 – 12.0 ft bls) - 2200 µg/kg

Various other VOCs were detected in the soil samples collected from the OU4 Lagoon Area. These constituents included cyclohexane, cis-1,2-dichloroethene, methylcyclohexane, benzene, toluene, xylenes, TCE and vinyl chloride; however, all of these constituents were detected below EPA Region 9 Residential Soil Preliminary Remediation Goals (PRGs) (both the 2008 and 2009 published goals).

Along with the data collected during the 2009 investigation, soil analytical data are available for SBLA-13 from 1991, 2003, 2004 and 2005. The concentrations in the 11-to 11.5-foot interval at SBLA-13 were highest in 1993 with a reported concentration of 16,000 µg/kg. Concentrations from 2003, 2004, and 2005 were 3,800 µg/kg, 4600 µg/kg, and 6,700 µg/kg, respectively. In 2009 the concentrations in the 11 to 11.5 foot interval indicated concentrations of 2,100 µg/kg and 2,400 µg/kg (duplicate QC sample result). 1,2-DCA concentration reported for the 13 to 13.5 foot interval was 3,500 µg/kg during the 2009 investigation. Groundwater was observed at a depth of 13.8 ft bgs indicating the higher concentration is observed within in the capillary fringe. Based on the data available at SBLA-13/13B, there is evidence that 1,2-DCA is naturally degrading. The area of impact in the OU4 Lagoon Area is isolated and significant reduction in 1,2-DCA in Lagoon Area soils has been achieved since the ROD was implemented in 1994. 1,2-DCA concentrations have declined from a maximum observed concentration of 16,000 µg/kg in 1993 to 2,100 µg/kg in 2009. Therefore, natural degradation has been retained as the remedy for the OU4 Lagoon Area.

In 2011, soil samples at NS-65B and NS-65C (NS-65) did not exceed the OU4 ROD Performance Standards for soils (169 µg/kg). Adjacent to Lagoon 2 on the north side, at NS-66, soil samples collected from 29 to 31 ft bgs (1200 µg/kg) and 67 to 69 ft bgs (270 µg/kg) both exceeded Performance Standards; however, the sample collected from 19 to 21 ft bgs (<7.9 U µg/kg), indicates impacts are not present in the shallow saturated saprolite soils. Soil samples collected at NS-68, located on the northeast corner of Lagoon 2 as shown on **Figure 21**, exceeded the OU4 Performance Standards in deep saturated saprolite soil samples collected from 55 to 57 ft bgs (7900 µg/kg) and 105 to 107 ft bgs (3900 µg/kg).

6.5 Site Inspection

The FYR Site inspection occurred on April 4, 2012. The following individuals and their affiliation participated in the inspection:

Thom Andersen, AkzoNobel
Elizabeth Rhine, ARCADIS
Jerry McMurray, AkzoNobel
Jon Bornholm, EPA
David Mattison, NCDENR
Brian Owen, AkzoNobel

Table 9 OU4 Soil-Gas Analytical Results

Location ID	IHSB Acceptable Industrial Soil Gas (February 2012)	SV-33			SV-23			SV-21			SV-43			SV-46		
Sample Date		10/15/09	3/4/11	2/16/12	10/15/09	3/4/11	2/16/12	10/15/09	3/4/11	2/16/12	10/15/09	3/4/11	2/16/12	10/15/09	3/4/11	2/16/12
Volatile Organic Compounds ($\mu g/m^3$)																
Acetone	28,000,000	<160,000	< 700	<720	**170,000**	< 6,700,000	<120	**37,000**	< 740,000	<240	<35,000	< 20,000	**140 J**	< 9,000,000	**1,400 J**	<190,000
n-Heptane		--	**16 J**	<120	--	< 1,200,000	<20	--	**26,000 J**	<41	--	< 3,500	<51	--	< 250	<32,000
Methylene chloride	2600	--	**21 J**	**29 JB**	--	**160,000 J**	**5.9 JB**	--	**20,000 J**	**7.9 JB**	--	**540 J**	**9.9 JB**	--	**270**	**7,400 JB**
Tetrahydrofuran		--	**4,000**	**990**	--	**640,000 J**	**98**	--	**80,000 J**	**1,800**	--	**2,000 J**	**39 J**	--	**5,100**	<47,000
Toluene	44,000	<10,000	**24 J**	<45	<2,200	< 420,000	<7.5	**3,100**	< 47,000	<15	<2,200	**1,300**	<19	<570,000	**140**	<12,000
Vinyl chloride	280	--	< 30	<31	--	**140,000 J**	**110**	--	**29,000 J**	<10	--	**40,000**	<13	--	**410**	**410,000**
2-Butanone (MEK)	44,000	--	**71 J**	<180	--	< 1,700,000	<29	--	**< 180,000**	**14 J**	--	< 5,100	<73	--	**1,900**	<47,000
Propene		--	**170**	<52	--	**780,000**	**340**	--	**14,000 J**	<17	--	**75,000**	**34 est**	--	**56 J**	**4,300 J**
Cyclohexane		<6,900	**81 J**	<100	**5,700**	**100,000 J**	**120**	**890**	**20,000 J**	**16 J**	**110,000**	**4,100**	**240**	**6,200,000**	**38 J**	**7,300 J**
1,2-Dichloroethane	47	<11,000	**280**	**1,500**	**55,000**	**38,000,000**	**1,500**	**150,000**	**3,700,000**	**1,100**	<2,400	**20,000**	**130**	**570,000,000**	**5,000**	**1,700,000**

NOTES:

Bold font indicates detected concentration.

$\mu g/m^3$ → micrograms per cubic meter

Oriface plate was not installed at SV-43 at the time of baseline sampling; different sampling technique used.

J → Concentration is estimated.

B → Method Blank contamination

est → Concentration is estimated and biased high.

-- where constituent was not reported by laboratory

Table 10 OU4 Soil Analytical Results

Location ID	SBLA-13B	SBLA-13B	SBLA-13B	SBLA-25	SBLA-25	SBLA-26	SBLA-26	SBLA-27	SBLA-27	SBLA-27	SBLA-28	SBLA-28	SBLA-29	SBLA-29
Sample Date	5/4/2009	5/4/2009	5/4/2009	5/4/2009	5/4/2009	5/4/2009	5/4/2009	5/4/2009	5/4/2009	5/5/2009	5/5/2009	5/5/2009	5/5/2009	5/5/2009
Depth	4.5-5.0	11.0-11.5	13.0-13.5	4.5-5.0	12-12.5	4.5-5.0	11.5-12.0	4.5-5.0	6.5-7.0	9.0-9.5	4.5-5.0	7.0-7.5	4.5-5.0	7.0-7.5
Volatile Organic Compounds (µg/kg)														
1,1,2-Trichloroethane	< 1.1 U	< 81 U	< 79 U	< 1.2 U	< 0.97 U	< 68 U	< 72 U	< 1.2 U	< 1 U	< 1.3 U	< 1.1 U	< 1.2 U	< 1 U	< 1 U
1,1-Dichloroethane	< 0.79 U	< 71 U	< 69 U	< 0.81 U	< 0.67 U	< 60 U	< 63 U	< 0.81 U	< 0.7 U	< 0.9 U	< 0.74 U	< 0.86 U	< 0.7 U	< 0.71 U
1,2-Dichloroethane	1.3 J	**2100**	**3500**	< 0.87 U	3.5 J	**510**	**2200**	< 0.86 U	< 0.75 U	< 0.96 U	14	77	< 0.75 U	< 0.76 U
1,2-Dichloropropane	< 0.74 U	< 89 U	< 86 U	< 0.77 U	< 0.63 U	< 75 U	< 79 U	< 0.76 U	< 0.66 U	< 0.85 U	< 0.7 U	< 0.81 U	< 0.66 U	< 0.67 U
Acetone	8.6 J	< 350 U	< 340 U	< 7.1 U	< 5.8 U	< 290 U	< 310 U	< 7 U	< 6.1 U	< 7.8 U	< 6.4 U	< 7.5 U	< 6.1 U	< 6.2 U
Chloroform	< 0.8 U	< 71 U	< 68 U	< 0.83 U	< 0.68 U	< 59 U	< 63 U	< 0.82 U	< 0.72 U	< 0.91 U	< 0.75 U	< 0.88 U	< 0.71 U	< 0.73 U
cis-1,2-Dichloroethene	< 0.96 U	< 47 U	< 45 U	< 1 U	< 0.82 U	< 39 U	< 41 U	< 0.99 U	< 0.86 U	< 1.1 U	1.5 J	10	< 0.86 U	< 0.87 U
Methylene chloride	< 0.92 U	< 76 U	< 74 U	< 0.95 U	< 0.78 U	< 64 U	< 68 U	< 0.95 U	< 0.82 U	< 1.1 U	< 0.86 U	< 1 U	< 0.82 U	< 0.83 U
Tetrachloroethene	< 0.93 U	< 58 U	< 56 U	< 0.96 U	< 0.79 U	< 48 U	< 51 U	< 0.96 U	< 0.83 U	< 1.1 U	< 0.87 U	< 1 U	< 0.83 U	< 0.84 U
trans-1,2-Dichloroethene	< 0.81 U	< 53 U	< 51 U	< 0.84 U	< 0.69 U	< 44 U	< 47 U	< 0.84 U	< 0.73 U	< 0.93 U	< 0.77 U	< 0.89 U	< 0.73 U	< 0.74 U
Trichloroethene	< 0.9 U	< 56 U	< 54 U	< 0.93 U	< 0.76 U	< 47 U	< 50 U	< 0.93 U	< 0.8 U	< 1 U	< 0.84 U	4.1 J	< 0.8 U	< 0.82 U
Vinyl chloride	< 0.64 U	< 90 U	< 88 U	< 0.66 U	< 0.55 U	< 76 U	< 80 U	< 0.66 U	< 0.57 U	< 0.73 U	5.5 J	19	< 0.57 U	< 0.58 U

NOTES:

µg/kg → micrograms per kilogram

J → Concentration is estimated.

U → Compound was analyzed for, but not detected. The lab reporting limit is listed.

Bold font indicates detected concentration.

Cells exceeding the OU4 ROD Performance Standard of 169 µg/kg are shaded gray

Table 10 OU4 Soil Analytical Results

Location ID	SBLA-30	SBLA-30	NS-65B	NS-65	NS-65	NS-66	NS-66	NS-66
Sample Date	5/5/2009	5/5/2009	11/1/2011	11/1/2011	11/2/2011	11/3/2011	11/3/2011	11/3/2011
Depth	4.5-5.0	7.0-7.5	15-17	30-32	52-54	19-21	29-31	67-69
Volatile Organic Compounds (µg/kg)								
1,1,2-Trichloroethane	< 1.1 U	< 1.1 U	< 4.7 U	< 5.2 U	< 4.5 U	< 7.9 U	< 4.7 U	< 4.4 U
1,1-Dichloroethane	< 0.79 U	< 0.78 U	< 4.7 U	< 5.2 U	< 4.5 U	< 7.9 U	< 4.7 U	< 4.4 U
1,2-Dichloroethane	< 0.84 U	< 0.83 U	< 4.7 U	**5.0 J**	**57**	< 7.9 U	**1200**	**270**
1,2-Dichloropropane	< 0.74 U	< 0.74 U	< 4.7 U	< 5.2 U	< 4.5 UJ	< 7.9 UJ	< 4.7 UJ	< 4.4 UJ
Acetone	< 6.8 U	< 6.8 U	**8.6**	**31**	**8.9**	< 7.9 U	**14**	**14**
Chloroform	< 0.8 U	< 0.79 U	< 4.7 U	< 5.2 U	< 4.5 U	< 7.9 U	< 4.7 U	< 4.4 U
cis-1,2-Dichloroethene	< 0.96 U	< 0.96 U	< 4.7 U	< 5.2 U	< 4.5 U	< 7.9 U	< 4.7 U	< 4.4 U
Methylene chloride	< 0.92 U	< 0.91 U	< 4.7 U	< 5.2 U	< 4.5 U	< 7.9 U	< 4.7 U	< 4.4 U
Tetrachloroethene	< 0.93 U	< 0.92 U	< 4.7 U	< 5.2 U	< 4.5 U	< 7.9 U	< 4.7 U	< 4.4 U
trans-1,2-Dichloroethene	< 0.82 U	< 0.81 U	< 4.7 U	< 5.2 U	< 4.5 U	< 7.9 U	< 4.7 U	< 4.4 U
Trichloroethene	< 0.9 U	< 0.89 U	< 4.7 U	< 5.2 U	< 4.5 U	< 7.9 U	< 4.7 U	< 4.4 U
Vinyl chloride	< 0.64 U	< 0.64 U	< 4.7 U	< 5.2 U	< 4.5 U	< 7.9 U	**2.4 J**	< 4.4 U

NOTES:

µg/kg → micrograms per kilogram

J → Concentration is estimated.

U → Compound was analyzed for, but not detected. The lab reporting limit is listed.

Bold font indicates detected concentration.

Cells exceeding the OU4 ROD Performance Standard of 169 µg/kg are shaded gray

Components of all four OUs were inspected and found to be working and in good order.

EPA conducted research using the Rowan County Public Register of Deeds website and found the deed information pertaining to the Site listed in **Table 11. Table 12** provides a summary of institutional controls. **Appendix B** provides the language contained in the Rowan County Register of Deeds.

Table 11 Deed Document from Rowan County Register of Deeds Website

Date	Type of Document	Description	Book #	Page #
June 12, 1997	Deed	A portion of the above-described property is subject to reservations and restrictions as set forth in deed recorded in Book 671 at page 108 in the Rowan County Registry, said subject area being shown as Tract 06 on the above-referenced plat survey by Donald J. Moore. This conveyance is subject to the terms and provisions of that certain United States Environmental Protection Agency Unilateral Administrative Order record in Book 760 at page 255 in the Rowan County Registry and the terms and provisions of that certain Post Closure Notification to Registrar of Deeds recorded in Book 767 at page 420 in the Rowan County Registry and the matters reflected on that certain map recorded in Extra Map Book 9998 at page 179 in the Rowan County Registry.	9998	179

Table 12 Institutional Control (IC) Summary Table

Media	IC Needed	IC Called for in the Decision Documents	Impacted Parcel(s)	IC Objective	Instrument in Place
Soil/ Water	**Yes**	**Yes**	**472 0130000001**	**Inform potential buyers of property of the presence of contamination**	**Deed notice**

6.6 Interviews

During August 2012, EPA conducted a number telephone interviews with citizens living in the vicinity of the Site. In summary, no complaints or concerns were voiced about the Site. Some of the individuals interviewed stated that facility has been a good neighbor. Others wanted to make sure AkzoNobel continues to be compliant with State and Federal regulations.

During the interviews, the citizens were notified that a final FYR Report will be placed in the information repositories for the Site. The information repositories for the Site are located at the

Rowan Public Library at 201 West Fisher Street, Salisbury, North Carolina and EPA Record Center, 11th Floor and 61 Forsyth Street, SW, Atlanta, GA 30303. The report can also be viewed on EPA's website at http://www.epa.gov/superfund/index.htm.

7.0 Technical Assessment

One of the primary purposes of the FYR is to determine the effectiveness and protectiveness of the remedy. Per the FYR Guidance (EPA, 2001), the review should address the following three questions:

1. "*Is the Remedy Functioning as Intended by the Decision Documents*?"

2. "*Are the Exposure Assumptions, Toxicity Data, Cleanup Levels, and RAOs Used at the Time of Remedy Selection Still Valid*?"

3. "*Has Any Other Information Come to Light That Could Call Into Question the Protectiveness of the Remedy*?"

For the Site, the assessment of the remedy and answer to these questions is accomplished by comparing Site data and operations to the original remedial action objectives.

7.1 Question A: Is the Remedy Functioning as Intended by the Decision Documents?

Based on Site visits, Site Inspection, and the review of documents, all remedies have been constructed in accordance to the appropriate ROD and RD. The TAES (OU1) is operating with 2 extraction wells online, and EX-11 is schedule to be online in summer 2012. The Trench Area (OU2) is reforested and secure. The CT (OU3) is operating but Lagoon Area extraction system (OU3) is currently not operating, although new extraction well IWB-1 is scheduled to be brought online in 2012. The contingent remedy for OU4 (soil vapor extraction) was implemented in 2009 and is currently operating. The Preliminary Close Out Report (PCOR) finalized in September 2010 documents that construction activities were completed at all four OUs at the Site in accordance with Close Out Procedures for NPL Sites (OSWER Directive 9320.2-09A-P).

A groundwater capture zone analysis has been conducted for the OU1 TAES with EX-05 and EX-09 operating as designed in 2010 and 2011. The OU1 TAES does not achieve hydraulic control for the plumes emanating from the source areas in its current configuration. Based on pumping test data from EX-11, the theoretical capture zone will include the northern portion of the Trench Area once the well is placed into service in 2012. However, the groundwater plume has migrated downgradient of the capture zone, and additional extraction wells will be necessary to achieve complete capture. The OU3 extraction system achieved hydraulic control for the downgradient portion of the OU3 Lagoon Area plume, and was successful in remediating the shallow bedrock within the zone of influence. However, additional investigation conducted during the last five years revealed impacts upgradient of the zone of influence. A new extraction well has been installed (IWB-1) and will be operational in 2012. Based on pumping test data, the well is expected to achieve hydraulic capture.

Another RAO and measure of success is whether concentrations of Site contaminants in groundwater are decreasing to levels that are protective of human health and the environment, (*i.e.,* are meeting the groundwater performance levels specified in the RODs). In general, although some contaminant levels in most wells have indicated a decrease in concentration, groundwater concentrations do not meet the groundwater Performance Standards set forth in the RODs. Furthermore, a number of the current groundwater ARARs are lower than the existing ROD levels. Thus, on-site groundwater would not currently be considered to be restored to concentrations that are protective of human health or the environment.

Site contaminants in soil are migrating toward the water table as intended by the OU2 ROD, and concentrations are decreasing with time, however, soil Performance Standards were not specified for OU2. The OU4 contingent remedy, SVE, appears to be functioning as intended based on indirect data. However, no soil samples have been collected to determine if the soil Performance Standard set forth in the OU4 ROD has been met.

The institutional controls that are in place include deed recordation to inform any potential future buyer of the property of the contamination present at the Site. However, the deed recordation does not meet the current requirements of Inactive Hazardous Sites Response Act of 1987 (North Carolina General Statute 130A-310 et. seq.), as amended, or the associated Guidelines for Assessment and Cleanup (NCDENR, Inactive Hazardous Sites Program, August 2011). This deed recordation was included on the description of the property on June 12, 1997. The fence around the plant operations area which limits access to the contaminated areas has been maintained.

In summary, the answer to question (A) *Is the Remedy Functioning as Intended by the Decision Documents*? is No, because the OU1 groundwater extraction system currently does not have complete hydraulic control of the plume emanating from the Trench Area.

7.2 Question B: Are the Exposure Assumptions, Toxicity Data, Clean-up Levels, and RAOs Used at the Time of the Remedy Still Valid?

Table 2 lists the groundwater performance standards for OU1 and OU3. As can be seen, a number of the performance standards have changed over time. Some of these toxicities factors have increased and some of the toxicity factors have decreased, the overall impact to the baseline risk assessment is negligible. The findings of this review of the toxicity data confirms that the overall risk remains within EPA's acceptable risk range. The Agency anticipates that the implemented remedies will achieve the new standards. The plant remains an active facility and there is no indication that this status will change anytime in the near future (*i.e.,* within the next five years). Access to the active part of the facility is controlled via a 6-foot chain linked security fence and a gate manned by a security guard.

The exposure assumptions used in all four RODs to develop the Human Health Risk Assessment were basically the same. They included current and future exposure of workers on site under an industrial scenario and secondly, the property being transformed into a residential area in the future. At this moment, there is no need to change the exposure scenarios used for this Site.

The NCDENR Inactive Hazardous Site Branch PRSGs were identified as a potential to-be considered requirement. The following PRSGs are for 1,2-DCA under the following scenarios: for residential 0.43 mg/kg, for industrial 2.2 mg/kg, and for protection of groundwater 0.0002 mg/kg. The cleanup level for 1,2-DCA in the OU4ROD (169 µg/kg) was calculated using Site specific data and is anticipated to be protective of groundwater.

As stated earlier, some of the chemical-specific ARARs have changed since the issuance of the RODs but there is no need at this time to initiate modifications to the RODs to integrate these new ARARs as the overall risk for the Site remains within EPA's acceptable risk range and remediation efforts at this Site will continue for at least 20 years. The RAOs remain acceptable for the Site at this time.

In summary, the answer to question (B) Are the Exposure Assumptions, Toxicity Data, Clean-up Levels, and RAOs Used at the Time of Remedy Selection Still Valid? is No; there have been minor changes to the North Carolina clean-up levels, but the ROD performance standards are still valid.

7.3 Question C: Has Any Other Information Come to Light that Could Call into Question the Protectiveness of the Remedy?

No ecological impacts were identified during the 1993 baseline risk assessment, the previous FYRs, nor this FYR.

In summary, the answer to question (C) is Has Any Other Information Come to Light that Could Call into Question the Protectiveness of the Remedy? is **No**.

7.4 Technical Assessment Summary

The remedies are functioning as intended by the decision documents, ROD and ESDs. The remedial actions continue to be functioning as designed and performing as expected. Although the remedies are functioning as designed, the following issues need to be addressed regarding the remedial actions: determine the significance of continued high method detection levels for groundwater analyses; decision documents for the Site do not reflect current potential ARARs therefore current deed restrictions do not include current cleanup standards for soils, sediment, surface water, or groundwater; before this Site can be considered for deletion, the issue of how clean is clean for the soils in the Trench Area needs to be addressed; the Trench Area Extraction System may not be achieving complete hydraulic capture; and the extent of recently discovered deep bedrock contamination in the OU3 Lagoon Area is unknown.

8.0 Issues

Identified issues have been listed in **Table 13**.

As seen in **Table 13**, one of the issues listed is the continued high method detection levels for groundwater samples. This issue has been an ongoing issue and AkzoNobel continues to work with the analytical laboratory in an effort to resolve this issue. As concentrations decrease, serial dilution will become unnecessary and the appropriate method detection levels can be achieved.

Detection limit criteria are met in monitoring wells along the tributaries and in the deep bedrock aquifer from which water supply wells are likely to withdraw.

Table 13 List of Significant Issues Identified in 2012 Five-Year Review

Number	Issue	Affects Protectiveness (Y/N)	
		Current	Future
1	Continued high method detection levels for groundwater analyses	No	Yes
2	Deed Recordation presently in place does not reflect current potential chemical-specific ARARs	No	Yes
3	Before this Site can be considered for deletion, the issue of how clean is clean for the soils in the Trench Area needs to be addressed	No	Yes
4	Trench Area Extraction System may not be achieving complete hydraulic capture	No	Yes
5	Extent of recently discovered deep bedrock contamination in the OU3 Lagoon Area is unknown	No	Yes

The TAES does not achieve complete capture of the OU1 groundwater plume because the plume has migrated beyond the capture zone of the existing extraction wells. The placement of additional extraction wells will need to be determined. The GWPTS may need to be upgraded to handle the flow from additional wells, particularly if groundwater extraction from well IWB-1 in the OU3 Lagoon Area can be sustained at the design rate of 30 gpm.

Vertical delineation is not complete in the OU3 Lagoon Area. Well NS-71 monitors the depth interval 270 to 320 ft bgs, and impacts to groundwater exceed 1 mg/L. Concentrations in this well will be monitored to determine if this well is within the zone of influence of extraction well IWB-1 as the pumping test data suggest.

9.0 Recommendations and Follow-Up Actions

The Recommendations for the five Issues identified during this FYR are summarized in **Table 14**.

Table 14 Recommendations and Follow-up Actions Identified During 2012 Five-Year Review

Number	Issue	Recommendations and Follow-up Actions	Party Responsible	Oversight Agency	Milestone Date	Affects Protectiveness (Yes/No)	
						Current	Future
1	Continued high method detection levels for groundwater analyses	Work with laboratories conducting analytical analyses to resolve the high method detection levels	NSCC	EPA	September 30, 2017	No	Yes
2	Deed Recordation presently in place does not reflect current potential chemical-specific ARARs	Amend, if necessary, present deed recordation or replace existing deed recordation with NCDENR Perpetual Land Use Restrictions language	NSCC	EPA/NCDENR	September 30, 2014	No	Yes
3	Before this Site can be considered for deletion, the issue of how clean is clean for the soils in the Trench Area needs to be addressed	Conduct a focused risk assessment/leachate study to determine what contaminant concentrations can be left in the soils in the Trench Area and still be protective of human health and the environment	NSCC	EPA/NCDENR	September 30, 2022	No	Yes
4	TAES may not be achieving complete hydraulic capture	Conduct groundwater capture zone analysis of the TAES and install additional wells (monitoring and/or extraction) if needed	NSCC	EPA/NCDENR	September 30, 2014	No	Yes
5	Extent of recently discovered deep bedrock contamination in the OU3 Lagoon Area is unknown	Complete the delineation of contamination in the deep bedrock zone of the aquifer in the OU3 Lagoon Area	NSCC	EPA/NCDENR	September 30, 2015	No	Yes

10.0 Protectiveness Statement

The Site remedies addressing potential soil exposures (OU2 and OU4) are protective of human health and the environment in the short term as there are no direct contact risks and deed restrictions are in place. The OU1 and OU3 remedies are also protective in the short term as there are no current on-site groundwater receptors and the nearest private, potable wells are located approximately 2,700 feet from any onsite source and there is currently no indication of contaminated groundwater or surface water exiting the site. However, in order for these remedies to be protective in the long-term, the following actions need to be taken: a capture zone analysis is needed to ascertain whether adequate capture of the plumes is being achieved and if these capture zones are being maintained at OU1, complete the delineation of deep bedrock contamination in the Lagoon Area (OU3), and determine if the deed recordation needs to be updated.

10.1 OU1

The remedy at OU1 currently protects human health and the environment in the short term because there are no current on-site groundwater receptors and the nearest private, potable wells are located approximately 2,700 feet southwest and there is no indication of contaminated groundwater or surface water exiting the Site. However, in order for the OU1 remedy to be protective in the long-term, a groundwater capture zone analysis of the groundwater extraction system needs to be conducted after extraction well EX-11 is brought online to ensure the plume emanating from the Trench Area is being captured and evaluate the need to update the deed recordation.

10.2 OU2

OU2 was a No Action ROD that addressed the contaminated soils associated with the Trench Area. The No Action at OU2 currently protects human health and the environment in the short term because the soil cover over the Trench Area prevents direct contact to contaminated soil and deed restrictions are in place. However, in order for the OU2 remedy to be protective in the long-term, an end point for soil monitoring needs to be defined based on what concentrations of the contaminants detected in the soils in the Trench Area will allow for unlimited use and unrestricted exposure.

10.3 OU3

The remedy at OU3 currently protects human health and the environment in the short term because there are no current onsite groundwater receptors and the nearest private, potable wells are located approximately 2,700 feet north and there is no indication of contaminated groundwater or surface water exiting the Site. However, in order for the OU3 remedy to be protective in the long-term, the vertical extent of groundwater contamination in this area needs to be completed and the need to update the deed recordation needs to occur.

10.4 OU4

The contingent remedy for OU4, soil vapor extraction, was recently installed and implemented. OU4 addresses the contaminated soil beneath the production area. The OU4 remedy currently protects human health and the environment in the short term because adversely impacted soil is covered with an impervious cover (asphalt or concrete) that prevents direct contact to contaminated soil and deed restrictions are in place. However, in order for the OU4 remedy to be protective in the long-term, the soil vapor extraction system needs to achieve the cleanup level specified in the OU4 ROD and the need to update the deed recordation needs to occur.

11.0 Next Review

FYRs are required by statute for this Site as long as waste is left on site that does not allow for unrestricted use and unlimited exposure. The next FYR will be due within five years of the signature/approval date of this FYR.

OVERSIZED TABLES

Table 5

Historical Analytical Results – Operable Unit 1 Extraction and Monitoring Wells

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01
Sample Date		1/1/1993	4/4/1993	7/1/1993	10/1/1993	1/1/1994	4/1/1994	7/1/1994	10/1/1994	1/1/1995	4/1/1995	7/1/1995	10/1/1995	1/1/1996	4/1/1996	7/1/1996
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U
1,1-Dichloroethene	7	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 5 U	< 5 U	< 10 U
1,2-Dichloroethane	5	**20**	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	3 J	5	< 5 U	4 J	< 10 U
1,2-Dichloropropane	6	**35**	4 J	< 10 U	< 10 U	< 10 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 10 U
Acetone	3,500	75	< 10 U	6 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	33 D	70	39	< 10 U	14	12
Benzene	5	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U
Bromodichloromethane	5	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U
Chloroform	5	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U
Ethylbenzene	3,500	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 10 U
Methylene chloride	5	2 BJ	1 J	2 BJ	NA	NA	< 5 U	**9 B**	< 5 U	< 5 U	3 BJ	< 5 U	< 5 U	2 BJ	1 BJ	< 10 U
Toluene	2,000	13	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 10 U
Trichloroethene	5	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U
Vinyl chloride	2	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U
Xylenes (total)	350	2 J	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	10	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 10 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 50 U	< 50 U	< 26 U	< 27 U	< 26 U	< 27 U	< 29 U	< 27 U	< 27 U	< 26 U	< 28 U	< 25 U	< 25 U	< 25 U	< 25 U
bis(2-Chloroethyl) ether	5	**38**	4 J	< 11 U	< 11 U	< 10 U	< 11 U	< 6 U	< 5 U	< 5 U	3 J	**14**	**11**	**9 J**	**7 J**	< 10 U
Metals (µg/L)																
Arsenic	10	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U	< 3 U	< 2 U	3 B	< 1 U	< 3 U	< 2 U	< 2 U	< 1 U	< 1 U	< 1 U
Barium	1,000	68 B	25 B	27 B	23 B	17 B	23 B	18 B	25 B	18 B	26 B	61 B	54 B	104 B	94 B	38 B
Beryllium	17.5	< 1 U	< 1 U	2 B	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	0 B	< 0 U	< 0 U	< 0 U	< 0 U
Cadmium	10	< 5 U	< 5 U	< 5 U	< 2 U	< 2 U	< 1 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U
Chromium	50	12	< 10 U	< 10 U	< 3 U	< 2 U	< 3 U	< 2 U	3 B	< 4 U	< 2 U	< 3 U	< 2 U	8 B	< 5 U	< 5 U
Manganese	7,700	NA	NA	NA	24	NA	79	NA	42	NA	NA	NA	99	NA	NA	NA
Nickel	350	< 20 U	< 20 U	< 20 U	12 B	< 10 U	< 6 U	< 7 U	< 7 U	< 10 U	< 6 U	< 7 U	< 9 U	< 15 U	< 15 U	< 15 U
Selenium	10	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U	< 3 U	< 3 U	< 1 U	3 B	< 2 U	< 1 U	< 2 U	< 1 U	< 1 U
Zinc	7,350	35	33	16 B	10 B	16 B	15 B	10 B	11 B	16 B	9 B	44	< 5 U	8 B	12 B	58

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01
Sample Date		10/1/1996	1/1/1997	4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	12/19/1999	2/23/2000	2/23/2000	12/12/2000	12/2/2002	12/2/2003	12/14/2005	12/13/2006
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	5	5 J	**7 J**	4 J	< 10 U	< 10 U	< 10 U	NA	< 1 U	3	3	< 1 U	0.93 J	< 1 U	1.3	0.58 J
1,2-Dichloropropane	6	1 J	**7 J**	3 J	2 J	< 10 U	< 10 U	NA	< 1 U	2	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Acetone	3,500	< 10 U	8 BJ	4 JB	10 J	< 10 U	4 JB	NA	< 10 U	18	18	< 2 U	NA	< 10 U	< 10 U	< 10 U
Benzene	5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromodichloromethane	5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloroform	5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	3,500	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Methylene chloride	5	1 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 2 U	< 2 U	< 2 U	< 2 U
Toluene	2,000	1 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene	5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	2	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 0 U	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U
Xylenes (total)	350	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	NA	< 0 U	< 0 U	< 1 U	< 1 U	< 3 U	< 3 U	< 3 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 25 U	< 26 U	< 25 U	< 25 U	< 26 U	< 26 U	NA	< 50 U	< 4 U	< 4 U	< 4 U	< 48 U	< 48 U	< 50 U	< 50 U
bis(2-Chloroethyl) ether	5	**17**	**31**	**21**	**24**	**17**	**46**	NA	**20**	2 J	2 J	< 2 U	< 9.6 U	1.3 J	< 9.9 U	< 9.9 U
Metals (µg/L)																
Arsenic	10	< 1 U	< 7 U	< 7 U	< 7 U	< 6 U	< 6 U	< 5 U	< 0 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U
Barium	1,000	126 B	154 B	163 B	173 B	181 B	213	90	0	67 B	< 12 U	41 B	46.5 B	46.9 B	47.1 JB	40.5 J
Beryllium	17.5	< 0 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 3 U	< 0 U	< 0 U	< 0 U	< 0 U	< 4 U	< 5 U	< 4 U	1.6 JB
Cadmium	10	< 5 U	< 0 U	< 3 U	< 3 U	< 4 U	< 4 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 5 U	< 5 U	< 5 U	< 5 U
Chromium	50	< 5 U	< 5 U	< 5 U	< 5 U	< 4 U	< 4 U	< 10 U	< 0 U	2 B	< 1 U	12	1.5 B	4.1 B J	3.0 J	1.4 J
Manganese	7,700	NA	345	NA	NA	NA	NA	182	0	1490	1490	81	165	1980	873 B	534
Nickel	350	< 15 U	< 20 U	< 20 U	< 20 U	< 16 U	< 16 U	< 40 U	< 0 U	10 B	< 2 U	30	4.2 B	5.4 B	3.7 J	2.2 J
Selenium	10	< 1 U	7	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U	2 B	< 2 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U
Zinc	7,350	34	7 B	< 5 U	14 B	15 B	< 15 U	< 20 U	0	< 2 U	< 2 U	19 B	6.1 B	14.9 B	17.9 J	11.7 JB

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-01	EX-02	EX-02	EX-02	EX-02
Sample Date		12/13/2007	12/16/2008	7/7/2009	7/7/2009	7/7/2009	7/7/2009	7/7/2009	7/7/2009	12/16/2009	12/14/2010	11/29/2011	4/4/1993	7/1/1993	10/1/1993	1/1/1994
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 10 U	< 3300 U	< 2500 U
1,1-Dichloroethene	7	< 1 U	< 0.28 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 10 U	< 3300 U	< 2500 U
1,2-Dichloroethane	5	1.8	1	0.72 J	0.72 J	0.70 J	0.67 J	0.85 J	0.73 J	0.73 J	1.1	1.4	**460 DJ**	**510 DJ**	< 3300 U	< 2500 U
1,2-Dichloropropane	6	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**820 DJ**	**1000 DJ**	< 3300 U	< 2500 U
Acetone	3,500	< 10 U	< 2.5 U	6.6 J	3.7 J	3.9 J	4.1 J	6.4 J	6.7 J	4.3 J	< 10 U	< 5 U	**29000 D**	**34000 DB**	**27000**	**26000**
Benzene	5	< 1 U	0.31 J	0.54 J	0.46 J	0.44 J	0.46 J	0.43 J	0.56 J	0.78 J	0.34	< 0.5 U	< 5 U	1 J	< 3300 U	< 2500 U
Bromodichloromethane	5	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 10 U	< 3300 U	< 2500 U
Chloroform	5	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 10 U	< 3300 U	< 2500 U
Ethylbenzene	3,500	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	9	13	< 3300 U	< 2500 U
Methylene chloride	5	< 2 U	< 0.32 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 5 U	4 J	< 10 U	NA	NA
Toluene	2,000	< 1 U	< 0.23 U	0.19 J	< 1 U	< 1 U	< 1 U	0.29 J	0.20 J	0.59 J	0.26	< 0.5 U	110	< 2500 U	< 3300 U	< 2500 U
Trichloroethene	5	< 1 U	< 0.29 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 5 U	< 10 U	< 3300 U	< 2500 U
Vinyl chloride	2	< 1 U	< 0.29 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 10 U	**19**	< 3300 U	< 2500 U
Xylenes (total)	350	< 3 U	1.6 J	1.4 J	0.77 J	0.84 J	0.88 J	0.74 J	1.4 J	1.0 J	< 3 U	< 1 U	38	52	< 3300 U	< 2500 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 53 U	< 3.9 U	NA	NA	NA	NA	NA	NA	< 48 U	< 47 U	< 19 U	< 52 U	< 26 U	< 260 U	< 250 U
bis(2-Chloroethyl) ether	5	< 11 U	**42**	NA	NA	NA	NA	NA	NA	**84**	**73**	**62**	**380 D**	**540 D**	**440**	**510**
Metals (µg/L)																
Arsenic	10	< 10 U	< 2 U	NA	NA	NA	NA	NA	NA	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 5 U	< 6 U
Barium	1,000	39 B	85.3 B	NA	NA	NA	NA	NA	NA	140 J	97.3	110	**1250**	**1780**	**1490**	**1680**
Beryllium	17.5	1.3 JB	< 0.18 U	NA	NA	NA	NA	NA	NA	< 4 U	< 4 U	< 4 U	< 1 U	2 B	< 0 U	< 0 U
Cadmium	10	< 5 U	< 0.21 U	NA	NA	NA	NA	NA	NA	< 5 U	< 5 U	0.48 J	< 5 U	< 5 U	< 2 U	< 2 U
Chromium	50	3.9 B	1.9 B	NA	NA	NA	NA	NA	NA	2.9 J	1.6	< 10 U	13	14	< 3 U	3 B
Manganese	7,700	277	1200	NA	NA	NA	NA	NA	NA	1540	709	760	NA	NA	NA	**14300**
Nickel	350	3.8 B	3.2 B	NA	NA	NA	NA	NA	NA	4.7 J	1.9	0.90 J	76	< 20 U	14 B	< 10 U
Selenium	10	< 5 U	< 2.9 U	NA	NA	NA	NA	NA	NA	< 5 U	< 5 U	< 10 UJ	< 2 U	< 2 U	< 5 U	< 3 U
Zinc	7,350	24.4 J	13.7 BJ	NA	NA	NA	NA	NA	NA	41.3	24.1	7.2 UB	15 B	30	56	5 B

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02
Sample Date		4/1/1994	7/1/1994	10/1/1994	1/1/1995	4/1/1995	7/1/1995	10/1/1995	1/1/1996	4/1/1996	7/1/1996	10/1/1996	1/1/1997	4/1/1997	7/1/1997	10/1/1997
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1700 U	< 1200 U	< 660 U	< 1000 U	< 42 U	< 250 U	< 2500 U	< 500 U	< 50 U	< 1000 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
1,1-Dichloroethene	7	< 2300 U	< 1800 U	< 920 U	< 1400 U	< 59 U	< 350 U	< 3500 U	< 500 U	< 50 U	< 1000 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
1,2-Dichloroethane	5	< 1700 U	< 1200 U	**550 J**	< 1000 U	**750**	**570**	< 2500 U	**1200**	**590**	**610 J**	**140 J**	**520**	**290**	**690**	**920**
1,2-Dichloropropane	6	**1600 J**	**1200 J**	**1200**	**670 J**	**1300**	**890**	< 3000 U	**830**	**650**	**640 J**	**100 J**	**400**	**190 J**	**460**	**730**
Acetone	3,500	**31000 B**	**41000**	**28000 E**	**27000**	**24000 D**	**29000 D**	**50000**	**10000**	**12000 E**	**33000 D**	**25000 D**	**30000 DB**	**7800 DB**	**12000 D**	**7900 D**
Benzene	5	< 1700 U	< 1200 U	< 660 U	< 1000 U	< 42 U	< 250 U	< 2500 U	< 500 U	< 50 U	< 1000 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Bromodichloromethane	5	< 1700 U	< 1200 U	< 660 U	< 1000 U	< 42 U	< 250 U	< 2500 U	< 500 U	< 50 U	< 1000 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Chloroform	5	< 1700 U	< 1200 U	< 660 U	< 1000 U	< 42 U	< 250 U	< 2500 U	< 500 U	< 50 U	< 1000 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Ethylbenzene	3,500	< 3300 U	< 2500 U	< 1300 U	< 2000 U	< 85 U	< 500 U	< 5000 U	< 500 U	12 J	< 1000 U	32 J	< 250 U	< 250 U	< 250 U	< 250 U
Methylene chloride	5	< 1700 U	**2900 B**	**1200 B**	**1300 B**	**44 B**	< 250 U	< 2500 U	**150 BJ**	**13 J**	**620 J**	**74 J**	< 250 U	< 250 U	< 250 U	**40 J**
Toluene	2,000	< 3300 U	< 2500 U	420 J	< 2000 U	280	280 J	< 5000 U	290 J	260	340 J	280	300	110 J	210 J	290
Trichloroethene	5	< 1700 U	< 1200 U	< 660 U	< 1000 U	< 42 U	< 250 U	< 2500 U	< 500 U	< 50 U	< 1000 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Vinyl chloride	2	< 670 U	< 500 U	< 260 U	< 400 U	< 17 U	< 100 U	< 1000 U	< 1000 U	< 100 U	< 1000 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Xylenes (total)	350	< 3300 U	< 2500 U	< 1300 U	< 2000 U	24 J	< 500 U	< 5000 U	< 500 U	34 J	< 1000 U	26 J	< 250 U	< 250 U	< 250 U	< 250 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 1100 U	< 530 U	< 1400 U	< 540 U	< 270 U	< 670 U	< 500 U	< 500 U	< 120 U	< 250 U	< 25 U	< 25 U	< 26 U	< 26 U	< 26 U
bis(2-Chloroethyl) ether	5	**770**	**680**	**570**	**540**	**650**	**570**	**570**	**400**	**500 E**	**430**	**320 D**	**490 D**	**250 D**	**310 D**	**43**
Metals (µg/L)																
Arsenic	10	< 8 U	< 2 U	< 2 U	1 B	4 B	3 B	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	< 7 U	< 6 U
Barium	1,000	**1830**	**1540**	**1070**	**1080**	**1860**	**1820**	**1930**	**1970**	**1780**	**1560**	**1370**	**1170**	982	**1110**	**1210**
Beryllium	17.5	0 B	< 0 U	< 0 U	< 0 U	0 B	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 2 U	< 2 U	< 2 U	< 1 U
Cadmium	10	2 B	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	1 B	< 3 U	< 3 U	4 B
Chromium	50	< 3 U	< 2 U	3 B	< 4 U	< 2 U	5 B	3 B	< 5 U	< 5 U	31	17	< 5 U	6 B	< 5 U	< 4 U
Manganese	7,700	**17100**	NA	**14000**	**11900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	350	< 6 U	< 7 U	< 7 U	< 10 U	< 6 U	< 7 U	< 9 U	< 15 U	< 15 U	44	< 15 U	< 20 U	< 20 U	< 20 U	< 16 U
Selenium	10	2 B	< 3 U	< 3 U	< 1 U	3 B	2 B	< 1 U	< 3 U	< 2 U	< 2 U	< 1 U	**12**	10	< 5 U	10
Zinc	7,350	3 B	76	11 B	15 B	< 6 U	< 3 U	< 5 U	14 B	8 B	32	28	9 B	11 B	28	< 15 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02
Sample Date		1/1/1998	9/8/1998	12/19/1999	2/24/2000	12/12/2000	12/2/2002	12/2/2003	12/14/2005	12/14/2005	12/13/2006	12/13/2006	12/13/2007	12/13/2007	12/16/2008	12/16/2008
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 50 U	NA	< 1 U	< 800 U	< 100 U	< 1 U	< 20 U	< 20 U	NA	< 100 U	NA	< 20 U	< 40 U	< 7.8 U	NA
1,1-Dichloroethene	7	< 50 U	NA	< 1 U	< 800 U	< 100 U	< 1 U	< 20 U	< 20 U	NA	< 100 U	NA	< 20 U	< 40 U	< 11 U	NA
1,2-Dichloroethane	5	**230**	NA	**880**	< 600 U	< 100 U	0.86 J	< 20 U	< 20 U	NA	< 100 U	NA	< 20 U	< 40 U	< 8.6 U	NA
1,2-Dichloropropane	6	**130**	NA	**810**	< 600 U	< 100 U	< 1 U	< 20 U	< 20 U	NA	< 100 U	NA	< 20 U	< 40 U	< 7.2 U	NA
Acetone	3,500	3200 DB	NA	**33000**	**350000 DE**	< 200 U	120	190 J	< 200 U	NA	< 1000 U	NA	< 200 U	< 400 U	< 100 U	NA
Benzene	5	< 50 U	NA	< 1 U	< 600 U	< 100 U	0.98 J	< 20 U	< 20 U	NA	< 100 U	NA	< 20 U	< 40 U	< 11 U	NA
Bromodichloromethane	5	< 50 U	NA	< 1 U	< 600 U	< 100 U	< 1 U	< 20 U	< 20 U	NA	< 100 U	NA	< 20 U	< 40 U	< 8.1 U	NA
Chloroform	5	< 50 U	NA	< 1 U	< 600 U	< 100 U	< 1 U	< 20 U	< 20 U	NA	< 100 U	NA	< 20 U	< 40 U	< 9.7 U	NA
Ethylbenzene	3,500	< 50 U	NA	24	< 600 U	72 JD	19	21	12 J	NA	54 J	NA	57	51	51	NA
Methylene chloride	5	< 50 U	NA	**8**	< 1000 U	**300 BD**	< 2 U	< 40 U	< 40 U	NA	< 200 U	NA	**7.2 JB**	**13 J B**	**14 J**	NA
Toluene	2,000	62	NA	430	**3100 D**	1400 D	300	360	430	NA	1400	NA	1200	1200	1100	NA
Trichloroethene	5	< 50 U	NA	< 1 U	< 600 U	< 100 U	< 1 U	< 20 U	< 20 U	NA	< 100 U	NA	< 20 U	< 40 U	< 12 U	NA
Vinyl chloride	2	< 50 U	NA	**6**	< 800 U	< 100 U	< 1 U	< 40 U	< 20 U	NA	< 100 U	NA	< 20 U	< 40 U	< 12 U	NA
Xylenes (total)	350	< 50 U	NA	NA	< 1000 U	290 D	74	62	70	NA	210 J	NA	190	180	180	NA
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 26 U	NA	< 50 U	< 200 U	< 4 U	< 250 U	< 49 U	< 49 U	< 1500 U	< 520 U	< 2100 U	< 210 U	< 530 U	< 7.5 U	NA
bis(2-Chloroethyl) ether	5	**180 D**	NA	**1300**	**5000 D**	**1700 E**	**530**	**580**	**690 E**	**1300**	**1800 E**	**1600**	**1900**	**1900**	**760**	NA
Metals (µg/L)																
Arsenic	10	< 6 U	< 5 U	< 0 U	< 2 U	3 B	2.6 B	< 10 U	< 10 U	NA	< 10 U	NA	< 10 U	NA	< 2 U	NA
Barium	1,000	713	864	2	**13300**	**8580**	**3480**	**3850**	**5070 B**	NA	**5270**	NA	**4720**	NA	**5830**	NA
Beryllium	17.5	< 1 U	< 3 U	< 0 U	< 0 U	0 B	< 4 U	< 5 U	< 4 U	NA	0.99 JB	NA	1 JB	NA	< 0.18 U	NA
Cadmium	10	< 4 U	< 0 U	< 0 U	< 0 U	< 0 U	< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	< 5 U	NA	< 0.21 U	NA
Chromium	50	< 4 U	4 J	< 0 U	18	13	4.7 B	4.3 B	3.8 J	NA	2.6 J	NA	4 B	NA	4.0 B	NA
Manganese	7,700	NA	**11500**	20	< 2 U	**38100**	**9950**	**8560**	**9330 B**	NA	**9040**	NA	**8810**	NA	**9880**	**10100**
Nickel	350	< 16 U	< 40 U	0	23 B	23	8.8 B	7 B	9.2 J	NA	14.8 J	NA	16.2 B	NA	16.4 B	NA
Selenium	10	6	< 5 U	0	**44**	**15**	3.7 B	2.4 B	< 5 U	NA	< 5 U	NA	< 5 U	NA	3.6 B	NA
Zinc	7,350	< 15 U	< 20 U	< 0 U	< 2 U	63	5 B	2.7 B	4.8 J	NA	4.7 JB	NA	8.3 JB	NA	4.6 BJ	NA

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-02	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03
Sample Date		7/7/2009	7/7/2009	7/7/2009	7/7/2009	7/7/2009	12/15/2009	12/14/2010	11/29/2011	1/1/1993	4/4/1993	7/1/1993	10/1/1993	1/1/1994	4/1/1994	7/1/1994
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 25 U	< 50 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 1 U	< 5 U	< 5 U	< 10 U	< 170 U	< 250 U	< 120 U	< 50 U
1,1-Dichloroethene	7	< 25 U	< 50 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 1 U	< 5 U	< 5 U	< 10 U	< 170 U	< 250 U	< 180 U	< 70 U
1,2-Dichloroethane	5	< 25 U	< 50 U	< 10 U	< 10 U	1.6 J	< 5 U	< 5 U	< 1 U	**23**	**65**	**60**	**55 J**	< 250 U	< 120 U	< 50 U
1,2-Dichloropropane	6	< 25 U	< 50 U	< 10 U	< 10 U	1.2 J	< 5 U	< 5 U	< 1 U	**120**	**180**	**150**	< 170 U	< 250 U	**70 J**	**44 J**
Acetone	3,500	< 250 U	< 500 U	< 100 U	< 100 U	< 50 U	20 J	43	< 5 U	1300 D	2200 D	**6100 DB**	1200	2200	**3700 B**	1400
Benzene	5	3.0 J	< 50 U	1.7 J	1.9 J	1.6 J	1.7 J	2	2.3	< 5 U	< 5 U	< 10 U	< 170 U	< 250 U	< 120 U	< 50 U
Bromodichloromethane	5	< 25 U	< 50 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 1 U	< 5 U	< 5 U	< 10 U	< 170 U	< 250 U	< 120 U	< 50 U
Chloroform	5	< 25 U	< 50 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 1 U	< 5 U	< 5 U	< 10 U	< 170 U	< 250 U	< 120 U	< 50 U
Ethylbenzene	3,500	14 J	25 J	7.8 J	7.9 J	8.6	4.2 J	6	7.7	< 5 U	2 J	3 J	< 170 U	< 250 U	< 250 U	< 100 U
Methylene chloride	5	**5.5 J**	< 100 U	< 20 U	< 20 U	< 10 U	1.3 J	0.79	< 5 U	2 BJ	2 J	< 10 U	NA	NA	< 120 U	**110 B**
Toluene	2,000	590	840	110	110	94	90	120	79	58	46	55	66 J	< 250 U	91 J	60 J
Trichloroethene	5	< 25 U	< 50 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 0.5 U	< 5 U	< 5 U	< 10 U	< 170 U	< 250 U	< 120 U	< 50 U
Vinyl chloride	2	< 25 U	< 50 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 0.5 U	< 10 U	< 10 U	< 10 U	< 170 U	< 250 U	< 50 U	< 20 U
Xylenes (total)	350	57 J	90 J	33	34	35	17	27	30	10	7	10	< 170 U	< 250 U	< 250 U	< 100 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	NA	NA	NA	NA	NA	< 240 U	< 48 U	< 19 U	< 52 U	< 56 U	< 25 U	< 52 U	< 26 U	< 54 U	< 27 U
bis(2-Chloroethyl) ether	5	NA	NA	NA	NA	NA	**400**	**860**	**630**	**82**	**100**	< 10 U	**74**	**150 D**	**120**	**56**
Metals (µg/L)																
Arsenic	10	NA	NA	NA	NA	NA	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 5 U	< 6 U	< 3 U	< 2 U
Barium	1,000	NA	NA	NA	NA	NA	**4200**	**4320**	**3600**	166 B	140 B	235	278	405	516	608
Beryllium	17.5	NA	NA	NA	NA	NA	0.29 J	0.25	< 4 U	< 1 U	< 1 U	2 B	< 0 U	< 0 U	0 B	< 0 U
Cadmium	10	NA	NA	NA	NA	NA	< 5 U	0.19	< 2 U	< 5 U	< 5 U	< 5 U	< 2 U	< 2 U	< 1 U	< 2 U
Chromium	50	NA	NA	NA	NA	NA	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	3 B	2 B	< 3 U	< 2 U
Manganese	7,700	NA	NA	NA	NA	NA	5440	5350	4300	NA	NA	NA	**11200**	**11000**	3980	NA
Nickel	350	NA	NA	NA	NA	NA	7.7 J	6.5	6.4 J	< 20 U	< 20 U	< 20 U	< 8 U	< 10 U	< 6 U	< 7 U
Selenium	10	NA	NA	NA	NA	NA	3.7 J	< 5 U	3.6 UJ	< 4 U	< 2 U	< 2 U	< 5 U	< 3 U	< 3 U	< 3 U
Zinc	7,350	NA	NA	NA	NA	NA	10.9 J	5	4.4 UB	11 B	17 B	8 B	2 B	9 B	< 1 U	< 4 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID / Sample Date	OU1 ROD Performance Standard	EX-03 10/1/1994	EX-03 1/1/1995	EX-03 4/1/1995	EX-03 7/1/1995	EX-03 10/1/1995	EX-03 1/1/1996	EX-03 4/1/1996	EX-03 7/1/1996	EX-03 10/1/1996	EX-03 1/1/1997	EX-03 4/1/1997	EX-03 7/1/1997	EX-03 10/1/1997	EX-03 1/1/1998	EX-03 9/8/1998
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 93 U	< 33 U	< 45 U	< 17 U	< 50 U	< 500 U	< 25 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 100 U	NA
1,1-Dichloroethene	7	< 130 U	< 47 U	< 63 U	< 23 U	< 70 U	< 500 U	< 25 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 100 U	NA
1,2-Dichloroethane	5	< 93 U	< 33 U	**59**	**10 J**	**61**	**150 J**	**42**	< 250 U	**60 J**	**220 J**	**240 J**	**200 J**	**230 J**	**200**	NA
1,2-Dichloropropane	6	**53 J**	< 40 U	**160**	**24**	**130**	**140 J**	**33**	**87 J**	**71 J**	**150 J**	**240 J**	**230 J**	**310**	**200**	NA
Acetone	3,500	**3700**	1000	**9200 D**	2500 D	1900	**5800**	2700 E	**8800 D**	**7200 D**	**14000 DB**	**12000 DB**	**15000 D**	**8000 D**	**10400 DB**	NA
Benzene	5	< 93 U	< 33 U	< 45 U	< 17 U	< 50 U	< 500 U	< 25 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 100 U	NA
Bromodichloromethane	5	< 93 U	< 33 U	< 45 U	< 17 U	< 50 U	< 500 U	< 25 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 100 U	NA
Chloroform	5	< 93 U	< 33 U	< 45 U	< 17 U	< 50 U	< 500 U	< 25 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 100 U	NA
Ethylbenzene	3,500	< 190 U	< 67 U	< 89 U	< 33 U	< 100 U	< 500 U	< 25 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 100 U	NA
Methylene chloride	5	**150 B**	**37 B**	**41 BJ**	< 17 U	**72 B**	**160 BJ**	< 25 U	**140 J**	**16 J**	< 250 U	< 250 U	< 250 U	**40 J**	< 100 U	NA
Toluene	2,000	87 J	69	80 J	32 J	60 J	130 J	55	99 J	120 J	190 J	160 J	180 J	200 J	165	NA
Trichloroethene	5	< 93 U	< 33 U	< 45 U	< 17 U	< 50 U	< 500 U	< 25 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 100 U	NA
Vinyl chloride	2	< 37 U	< 13 U	< 18 U	< 7 U	< 20 U	< 1000 U	< 50 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 100 U	NA
Xylenes (total)	350	< 190 U	< 67 U	< 89 U	< 33 U	< 100 U	< 500 U	6 J	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	17 J	NA
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 53 U	< 53 U	< 52 U	< 110 U	< 53 U	< 50 U	< 50 U	< 250 U	< 100 U	< 100 U	< 100 U	< 26 U	< 26 U	< 26 U	NA
bis(2-Chloroethyl) ether	5	**110**	**130**	**180 D**	**120**	**140**	**130**	**93**	**170**	**130**	**180**	**180**	**210 D**	**260 D**	**350 D**	NA
Metals (µg/L)																
Arsenic	10	< 2 U	< 1 U	< 3 U	< 2 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	< 7 U	< 6 U	< 6 U	< 5 U
Barium	1,000	498	625	475	265	387	553	415	440	349	519	647	722	703	717	390
Beryllium	17.5	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 3 U
Cadmium	10	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U	< 3 U	10	< 4 U	< 4 U	< 0 U
Chromium	50	< 2 U	< 4 U	< 2 U	3 B	< 2 U	8 B	< 5 U	< 5 U	**63**	< 5 U	< 5 U	< 5 U	< 4 U	< 4 U	< 10 U
Manganese	7,700	3640	2010	NA	NA	NA	2130	2855	4270	NA	NA	NA	NA	NA	4695	3040
Nickel	350	< 7 U	< 10 U	< 6 U	< 7 U	< 9 U	< 15 U	< 15 U	< 15 U	82	< 20 U	< 20 U	< 20 U	< 16 U	< 16 U	< 40 U
Selenium	10	< 3 U	< 1 U	< 3 U	< 2 U	< 1 U	< 2 U	< 1 U	< 2 U	< 1 U	5	< 5 U	6	< 5 U	< 5 U	< 5 U
Zinc	7,350	9 B	48	16 B	< 3 U	< 5 U	9 B	16	15 B	34	12 B	< 5 U	9 B	< 15 U	< 15 U	< 20 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03	EX-03
Sample Date		12/19/1999	2/24/2000	12/12/2000	12/2/2002	12/2/2003	12/15/2005	12/13/2006	12/13/2007	12/17/2008	7/7/2009	7/7/2009	7/7/2009	7/7/2009	7/7/2009	12/17/2009
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1 U	< 40 U	< 50 U	< 5 U	< 5 U	< 6.7 U	< 8 U	< 5 U	< 0.39 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U
1,1-Dichloroethene	7	< 1 U	< 40 U	< 50 U	< 5 U	< 5 U	< 6.7 U	< 8 U	< 5 U	< 0.56 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U
1,2-Dichloroethane	5	**9**	< 30 U	< 50 U	< 5 U	< 5 U	< 6.7 U	< 8 U	0.64 J	< 0.43 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U
1,2-Dichloropropane	6	**30**	**71 D**	< 50 U	< 5 U	< 5 U	< 6.7 U	< 8 U	< 5 U	< 0.36 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U
Acetone	3,500	1500	**6100 D**	< 100 U	< 50 U	< 50 U	110	< 80 U	< 50 U	33	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	31 J
Benzene	5	< 1 U	< 30 U	< 50 U	1.5 J	< 5 U	3.8 J	3.1 J	4.5 J	3.5	2.5 J	3.2 J	3.5 J	3.7 J	3.6 J	3.1 J
Bromodichloromethane	5	< 1 U	< 30 U	< 50 U	< 5 U	< 5 U	< 6.7 U	< 8 U	< 5 U	< 0.4 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U
Chloroform	5	< 1 U	< 30 U	< 50 U	< 5 U	< 5 U	< 6.7 U	< 8 U	< 5 U	< 0.48 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U
Ethylbenzene	3,500	6	< 30 U	< 50 U	24	7.9	17	18	8.8	9.1	10	12	14	15	14	9.6
Methylene chloride	5	< 1 U	< 50 U	**160 BD**	< 10 U	< 10 U	**5.6 JB**	< 16 U	1.7 JB	1.0 J	< 20 U	1.9 J	< 20 U	< 20 U	< 20 U	< 10 U
Toluene	2,000	100	210 D	480 D	240	110	260	170	76	60	120	150	160	180	170	95
Trichloroethene	5	< 1 U	< 30 U	< 50 U	**5.7 J**	< 5 U	< 6.7 U	< 8 U	< 5 U	< 0.59 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U
Vinyl chloride	2	2	< 40 U	< 50 U	< 5 U	< 10 U	< 6.7 U	< 8 U	< 5 U	< 0.58 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U
Xylenes (total)	350	NA	< 50 U	75 D	69	23	55	64	26	26	36	44	48	52	50	36
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 50 U	< 4 U	< 4 U	< 490 U	< 49 U	< 47 U	< 1300 U	< 50 U	< 4 U	NA	NA	NA	NA	NA	< 47 U
bis(2-Chloroethyl) ether	5	**310**	**400 E**	**860 E**	**1200**	**790**	< 9.4 U	**1000**	**330**	**470**	NA	NA	NA	NA	NA	**570**
Metals (µg/L)																
Arsenic	10	< 0 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	NA	NA	NA	NA	NA	< 10 U
Barium	1,000	0	585	968	**1500**	283	340 B	319	189 B	221	NA	NA	NA	NA	NA	282
Beryllium	17.5	< 0 U	< 0 U	< 0 U	< 4 U	< 5 U	< 4 U	0.68 JB	1.1 JB	< 0.18 U	NA	NA	NA	NA	NA	< 4 U
Cadmium	10	< 0 U	< 0 U	< 0 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0.21 U	NA	NA	NA	NA	NA	< 5 U
Chromium	50	< 0 U	2 B	17	9.8	5.9 J	6	4.0 J	4.1 B	4.0 B	NA	NA	NA	NA	NA	7.6
Manganese	7,700	3	**10800**	3270	4440	**17200**	**19400 B**	**17200**	**13600**	**14000**	NA	NA	NA	NA	NA	**17300**
Nickel	350	< 0 U	< 2 U	12	16.6 B	4.2 B	6.3 J	6.8 J	4.6 B	4.4 B	NA	NA	NA	NA	NA	20.0 J
Selenium	10	< 0 U	6	< 2 U	< 5 U	< 5 U	< 5 U	< 10 U	< 5 U	< 2.9 U	NA	NA	NA	NA	NA	< 5 U
Zinc	7,350	< 0 U	< 2 U	73	57.9	10.4 B	13.3 J	22.4 B	11.2 JB	12.6 BJ	NA	NA	NA	NA	NA	18.0 J

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-03	EX-03	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04
Sample Date		12/14/2010	11/29/2011	1/1/1993	4/4/1993	7/1/1993	10/1/1993	1/1/1994	4/1/1994	7/1/1994	10/1/1994	1/1/1995	4/1/1995	7/1/1995	10/1/1995	1/1/1996
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 5 U	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 17 U	< 62 U	< 5 U
1,1-Dichloroethene	7	< 5 U	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 23 U	< 88 U	< 5 U
1,2-Dichloroethane	5	< 5 U	< 1 U	4 J	3 J	5 J	< 10 U	< 10 U	< 5 U	5	3 J	7	5	< 17 U	< 62 U	4 J
1,2-Dichloropropane	6	< 5 U	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 6 U	< 6 U	< 6 U	< 6 U	6	**26**	< 75 U	< 5 U
Acetone	3,500	30	< 5 U	1200 D	< 10 U	29 B	27	21	30 B	20	15	< 10 U	1100 D	2000 D	820	9 J
Benzene	5	2.5	3.2	2 J	< 5 U	1 J	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 17 U	< 62 U	< 5 U
Bromodichloromethane	5	< 5 U	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 17 U	< 62 U	< 5 U
Chloroform	5	< 5 U	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 17 U	< 62 U	< 5 U
Ethylbenzene	3,500	10	5.6	2 J	< 5 U	< 10 U	< 10 U	< 10 U	3 J	< 10 U	< 10 U	< 10 U	< 10 U	< 33 U	< 120 U	< 5 U
Methylene chloride	5	< 10 U	< 5 U	< 5 U	2 J	5 BJ	NA	NA	< 5 U	**7 B**	**6 B**	3 BJ	**7 B**	< 17 U	< 62 U	2 BJ
Toluene	2,000	110	43	5	2 J	3 J	3 J	< 10 U	7 J	4 J	7 J	< 10 U	26	31 J	< 120 U	2 J
Trichloroethene	5	< 5 U	< 0.5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 17 U	< 62 U	< 5 U
Vinyl chloride	2	< 5 U	< 0.5 U	**28**	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 7 U	< 25 U	< 10 U
Xylenes (total)	350	37	16	2 J	1 J	2 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 33 U	< 120 U	< 5 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 48 U	< 19 U	< 50 U	< 54 U	< 25 U	< 130 U	< 100 U	< 100 U	< 110 U	< 260 U	< 260 U	< 140 U	< 140 U	< 54 U	< 25 U
bis(2-Chloroethyl) ether	5	**1200**	**490**	**12**	5 J	**11**	< 53 U	**22 J**	**17 J**	**13 J**	**21 J**	**14 J**	**55**	**64**	**41**	**10**
Metals (µg/L)																
Arsenic	10	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U	< 3 U	< 2 U	3 B	< 1 U	< 3 U	< 2 U	< 2 U	< 1 U
Barium	1,000	303	200	37 B	27 B	29 B	36 B	29 B	56 B	27 B	46 B	34 B	73 B	53 B	43 B	35 B
Beryllium	17.5	< 4 U	< 4 U	< 1 U	< 1 U	2 B	< 0 U	< 0 U	0 B	< 0 U	< 0 U	< 0 U	0 B	< 0 U	< 0 U	0 B
Cadmium	10	0.29	1.2 J	< 5 U	< 5 U	< 5 U	< 2 U	< 2 U	< 1 U	2 B	2 B	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U
Chromium	50	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 3 U	4 B	< 3 U	< 2 U	4 B	< 4 U	< 2 U	< 3 U	< 2 U	7 B
Manganese	7,700	**16000**	**13000**	NA	NA	NA	5090	NA	NA	NA	4970	4730	NA	NA	NA	NA
Nickel	350	6	3.5 J	< 20 U	< 20 U	< 20 U	< 8 U	< 10 U	< 6 U	< 7 U	< 7 U	< 10 U	< 6 U	< 7 U	< 9 U	< 15 U
Selenium	10	< 5 U	5.0 UJ	< 4 U	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U	< 3 U	< 3 U	< 1 U	< 3 U	< 2 U	< 1 U	< 2 U
Zinc	7,350	7.9	6.4 UB	13 B	17 B	7 B	< 2 U	55	38	12 B	13 B	8 B	< 6 U	4 B	< 5 U	16 B

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04
Sample Date		4/1/1996	7/1/1996	10/1/1996	1/1/1997	4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	12/19/1999	2/24/2000	12/12/2000	12/2/2002	12/2/2003	12/15/2005
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	5	< 25 U	< 10 U	3 J	5 J	**6 J**	5 J	< 10 U	< 10 U	NA	< 1 U	2	< 1 U	0.4 J	< 1 U	0.23 J
1,2-Dichloropropane	6	< 25 U	2 J	1 J	**7 J**	**17**	**7 J**	2 J	3 J	NA	< 20 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U
Acetone	3,500	1300 E	675 D	460 D	810 DB	2200 DB	2400	460 D	850 DB	NA	49	< 1 U	< 2 U	< 10 U	< 10 U	< 10 U
Benzene	5	< 25 U	2 J	1 J	< 10 U	2 J	< 10 U	< 10 U	< 10 U	NA	< 1 U	1	1	< 1 U	< 1 U	< 1 U
Bromodichloromethane	5	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloroform	5	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	3,500	< 25 U	2 J	2 J	3 J	4 J	< 10 U	2 J	2 J	NA	2	1	2	< 1 U	< 1 U	< 1 U
Methylene chloride	5	5 BJ	4 J	1 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 1 U	< 2 U	< 2 U	1.5 B
Toluene	2,000	46	31 J	26	41	33	23	17	22	NA	< 20 U	< 0 U	1 J	0.4 J	< 1 U	0.28 J
Trichloroethene	5	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	2	< 50 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 1 U	< 0 U	< 1 U	< 1 U	< 2 U	< 1 U
Xylenes (total)	350	< 25 U	6 J	5 J	6 J	10	2 J	4 J	5 J	NA	NA	1	1	< 3 U	< 3 U	< 2 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 120 U	< 50 U	< 25 U	< 25 U	< 25 U	< 26 U	< 28 U	< 27 U	NA	< 50 U	< 4 U	< 4 U	< 51 U	< 48 U	210 J
bis(2-Chloroethyl) ether	5	**71**	**48**	**49**	**68 D**	**74 D**	**68 D**	**47 D**	**94 D**	NA	**51**	4	**16**	1.5 J	1.7 J	< 94 U
Metals (µg/L)																
Arsenic	10	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	< 7 U	< 6 U	< 6 U	< 5 U	< 0 U	< 2 U	3 B	< 10 U	< 10 U	< 10 U
Barium	1,000	114 B	72 B	62 B	41 B	45 B	45 B	42 B	46 B	23	0	46 B	62 B	63.1 B	52.3 B	53.1 JB
Beryllium	17.5	< 0 U	< 0 U	< 0 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 3 U	< 0 U	< 0 U	< 0 U	< 4 U	< 5 U	< 4 U
Cadmium	10	< 5 U	< 5 U	< 5 U	< 0 U	< 3 U	< 3 U	**18**	< 4 U	< 0 U	< 0 U	< 0 U	< 0 U	< 5 U	< 5 U	< 5 U
Chromium	50	< 5 U	< 5 U	< 5 U	12	< 5 U	< 5 U	< 4 U	< 4 U	< 10 U	< 0 U	< 1 U	2 B	< 5 U	1.8 B	1.8 J
Manganese	7,700	3880	NA	NA	5140	4530	NA	NA	NA	3090	5	2640	3980	1990	1370	1840 B
Nickel	350	< 15 U	< 15 U	< 15 U	< 20 U	< 20 U	< 20 U	< 16 U	< 16 U	< 40 U	< 0 U	< 2 U	5 B	6.6 B	2.3 B	2.3 J
Selenium	10	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U	2 B	< 2 U	2.8 B	< 5 U	< 5 U
Zinc	7,350	9 B	< 2 U	109	14 B	< 5 U	18 B	< 15 U	< 15 U	8 J	< 0 U	< 2 U	234	7.6 B	2.7 B	4.6 J

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-04	EX-05	EX-05	EX-05
Sample Date	Standard	12/13/2006	12/13/2007	12/17/2008	7/7/2009	7/7/2009	7/7/2009	7/7/2009	7/7/2009	7/7/2009	12/17/2009	12/14/2010	11/29/2011	4/1/1996	7/1/1996	10/1/1996
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**66 J**	< 5000 U	NA
1,1-Dichloroethene	7	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 120 U	< 5000 U	< 2000 U
1,2-Dichloroethane	5	0.26 J	0.2 J	< 0.21 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**350000 D**	< 5000 U	**430000 D**
1,2-Dichloropropane	6	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**350**	< 5000 U	**250 J**
Acetone	3,500	< 10 U	< 10 U	< 2.5 U	4.8 J	5.3 J	4.2 J	5.3 J	5.9 J	5.1 J	< 10 U	2.9	< 5 U	**24000 D**	3200 J	**28000**
Benzene	5	0.32 J	0.28 J	0.67 J	0.12 J	< 1 U	< 1 U	0.12 J	0.13 J	0.12 J	0.28 J	0.37	< 0.5 U	**49 J**	< 5000 U	< 2000 U
Bromodichloromethane	5	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 120 U	< 5000 U	< 2000 U
Chloroform	5	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**44 J**	< 5000 U	< 2000 U
Ethylbenzene	3,500	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	190	< 5000 U	120 J
Methylene chloride	5	< 2 U	< 2 U	< 0.32 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 5 U	**56 J**	**1900 BJ**	**130 J**
Toluene	2,000	< 1 U	< 1 U	< 0.23 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	0.46 J	0.7	< 0.5 U	**16000 D**	**19000**	**20000**
Trichloroethene	5	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 120 U	< 5000 U	< 2000 U
Vinyl chloride	2	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.5 U	**990**	< 5000 U	< 2000 U
Xylenes (total)	350	< 3 U	0.2 J	< 0.62 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 1 U	**470**	< 5000 U	250 J
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 55 U	< 56 U	< 3.8 U	NA	NA	NA	NA	NA	NA	< 48 U	< 47 U	< 19 U	< 6200 U	< 12000 U	< 6200 U
bis(2-Chloroethyl) ether	5	< 11 U	< 11 U	4.5 J	NA	NA	NA	NA	NA	NA	< 1.9 U	**8.7**	2.7	< 2500 U	< 5000 U	**170 J**
Metals (µg/L)																
Arsenic	10	< 10 U	< 10 U	< 2 U	NA	NA	NA	NA	NA	NA	< 10 U	< 10 U	< 10 U	**11**	< 2 U	< 4 U
Barium	1,000	51.2 J	46.6 B	50.0 B	NA	NA	NA	NA	NA	NA	48.1 J	51.2	27	124 B	159 B	157 B
Beryllium	17.5	1.4 JB	1.4 JB	< 0.18 U	NA	NA	NA	NA	NA	NA	< 4 U	< 4 U	< 4 U	< 0 U	< 0 U	< 0 U
Cadmium	10	< 5 U	< 5 U	< 0.21 U	NA	NA	NA	NA	NA	NA	< 5 U	< 5 U	< 2 U	**18**	**11**	7
Chromium	50	< 5 U	1.2 B	1.1 B	NA	NA	NA	NA	NA	NA	1.2 J	1.3	< 10 U	18	25	26
Manganese	7,700	1820	2000	2900	NA	NA	NA	NA	NA	NA	2060	2520	660	**200000**	NA	NA
Nickel	350	1.9 J	< 40 U	3.4 B	NA	NA	NA	NA	NA	NA	1.9 J	< 40 U	< 10 U	**678**	**601**	**654**
Selenium	10	< 5 U	< 5 U	2.9 B	NA	NA	NA	NA	NA	NA	< 5 U	< 5 U	3.0 UJ	< 8 U	< 16 U	< 5 U
Zinc	7,350	5.9 JB	10.4 JB	7.0 BJ	NA	NA	NA	NA	NA	NA	4.6 UB	4.7	17 J	363	234	220

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05	EX-05
Sample Date		1/1/1997	4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	2/15/2000	12/14/2000	3/6/2002	3/6/2002	12/2/2002	12/2/2003	12/14/2007	12/18/2008	12/18/2008
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 2000 U	< 2000 U	< 2000 U	< 2000 U	< 5000 U	NA	< 500 U	< 5000 U	< 1300 U	< 6500 U	< 5000 U	< 7500 U	< 10000 U	< 2000 U	NA
1,1-Dichloroethene	7	< 2000 U	< 2000 U	< 2000 U	< 2000 U	< 5000 U	NA	< 500 U	< 5000 U	< 1500 U	< 7700 U	< 5000 U	< 7500 U	< 10000 U	< 2800 U	NA
1,2-Dichloroethane	5	**510000 D**	**470000 D**	**340000 D**	**380000 D**	**340000 D**	NA	< 400000 U	**690000 ED**	**350000 E**	**390000**	**430000**	**310000**	**230000**	**200000**	NA
1,2-Dichloropropane	6	< 2000 U	< 2000 U	< 2000 U	< 2000 U	< 5000 U	NA	< 500 U	< 5000 U	< 1400 U	< 6900 U	< 5000 U	< 7500 U	< 10000 U	< 1800 U	NA
Acetone	3,500	**27000 B**	**33000 B**	**34000**	**36000**	**29000 B**	NA	**86000**	< 10000 U	**53000 J**	**24000 J**	**130000**	**51000 J**	**72000 J**	**83000 J**	NA
Benzene	5	< 2000 U	< 2000 U	< 2000 U	< 2000 U	< 5000 U	NA	< 500 U	< 5000 U	< 1200 U	< 6000 U	< 5000 U	< 7500 U	< 10000 U	< 2700 U	NA
Bromodichloromethane	5	< 2000 U	< 2000 U	< 2000 U	< 2000 U	< 5000 U	NA	< 500 U	< 5000 U	< 910 U	< 4600 U	< 5000 U	< 7500 U	< 10000 U	< 2000 U	NA
Chloroform	5	< 2000 U	< 2000 U	< 2000 U	< 2000 U	< 5000 U	NA	< 500 U	< 5000 U	< 1500 U	< 7300 U	< 5000 U	< 7500 U	< 10000 U	< 2400 U	NA
Ethylbenzene	3,500	< 2000 U	< 2000 U	< 2000 U	< 2000 U	< 5000 U	NA	< 500 U	< 5000 U	< 1500 U	< 7300 U	< 5000 U	< 7500 U	< 10000 U	< 1800 U	NA
Methylene chloride	5	< 2000 U	< 2000 U	< 2000 U	**340 J**	< 5000 U	NA	< 500 U	**5100 BD**	< 1100 U	< 5400 U	< 10000 U	< 15000 U	< 20000 U	< 3200 U	NA
Toluene	2,000	**24000**	**23000**	**22000**	**21000**	**21000**	NA	**24000**	**51000 D**	**26000**	**24000**	**40000**	**17000**	**18000**	**25000**	NA
Trichloroethene	5	< 2000 U	< 2000 U	< 2000 U	< 2000 U	< 5000 U	NA	< 500 U	< 5000 U	< 1200 U	< 5900 U	< 5000 U	< 7500 U	< 10000 U	< 2900 U	NA
Vinyl chloride	2	**970 J**	**1200 J**	**580 J**	**820 J**	< 5000 U	NA	< 500 U	< 5000 U	< 1800 U	< 9000 U	< 5000 U	< 15000 U	< 10000 U	< 2900 U	NA
Xylenes (total)	350	< 2000 U	< 2000 U	**390 J**	340 J	< 5000 U	NA	NA	< 5000 U	< 2900 U	< 14000 U	< 15000 U	< 22000 U	< 30000 U	< 6200 U	NA
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 1300 U	< 260 U	< 1200 U	< 260 U	< 130 U	NA	< 1000 U	< 260 U	< 110 U	NA	< 2400 U	< 4800 U	< 210 U	< 3.8 U	NA
bis(2-Chloroethyl) ether	5	< 530 U	< 110 U	< 500 U	**55 J**	< 53 U	NA	< 200 U	< 53 U	< 86 U	NA	< 480 U	< 960 U	< 41 U	**39**	NA
Metals (µg/L)																
Arsenic	10	< 7 U	**11**	< 7 U	< 6 U	< 6 U	4 J	0	4 B	7 B	NA	< 10 U	< 10 U	< 10 U	2.6 B	NA
Barium	1,000	158 B	138 B	179 B	217	244	186	0	239	228	NA	187 B	363	467	276	NA
Beryllium	17.5	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 3 U	< 0 U	0 B	< 0 U	NA	0.64 B	< 5 U	< 4 U	0.20 BJ	NA
Cadmium	10	7	**13**	**15**	**21**	10	**28**	0	6	**16 J E**	NA	2.7 B J	0.52 B	1.5 B	< 0.21 U	NA
Chromium	50	< 5 U	< 5 U	< 5 U	NA	< 4 U	11	< 0 U	14	15	NA	12	23.7	25	6.9	NA
Manganese	7,700	NA	**125000**	NA	**98900**	NA	**84700**	62	**56300**	**52600**	NA	**42700**	**95900**	**101000**	**17100**	**16700 J**
Nickel	350	**732**	**587**	**622**	**566**	**591**	**503**	1	**1540**	**1640**	NA	**1480**	**699**	**789**	**1450**	NA
Selenium	10	**86**	**77**	**68**	**66**	**65**	**36**	0	**30**	**48**	NA	**23.4 B**	< 50 U	< 50 U	**12**	NA
Zinc	7,350	221	219	188	135	126	883	0	186	365	NA	74.6	1.3 B	39.8 J	29.1 J	NA

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU1 ROD Performance Standard	EX-05 7/6/2009	EX-05 7/6/2009	EX-05 7/6/2009	EX-05 12/22/2009	EX-05 12/10/2010	EX-05 3/30/2011	EX-05 9/14/2011	EX-05 12/6/2011	EX-06 4/1/1996	EX-06 7/1/1996	EX-06 10/1/1996	EX-06 1/1/1997	EX-06 4/1/1997	EX-06 7/1/1997	EX-06 10/1/1997
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 6000 U	< 15000 U	< 15000 U	< 15000 U	< 15000 U	< 8000 U	< 500 U	< 250 U	< 25 U	< 10 U	NA	< 10 U	< 10 U	< 10 U	< 10 U
1,1-Dichloroethene	7	< 6000 U	< 15000 U	< 15000 U	< 15000 U	< 15000 U	< 8000 U	< 500 U	< 250 U	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
1,2-Dichloroethane	5	**210000**	**520000**	**550000**	**280000**	**300000**	**95000**	**140000**	**130000**	**920**	< 10 U	**240 D**	**53**	**530 D**	**550 D**	**140**
1,2-Dichloropropane	6	< 6000 U	< 15000 U	< 15000 U	< 15000 U	< 15000 U	< 8000 U	< 500 U	**130 J**	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	3,500	< 60000 U	< 150000 U	< 150000 U	**78000 J**	**56000**	**24000 J**	**34000**	**34000**	420	36	300 D	170 B	470 DB	500 D	540 D
Benzene	5	< 6000 U	< 15000 U	< 15000 U	< 15000 U	< 15000 U	< 8000 U	< 250 U	< 130 U	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Bromodichloromethane	5	< 6000 U	< 15000 U	< 15000 U	< 15000 U	< 15000 U	< 8000 U	< 500 U	< 250 U	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Chloroform	5	< 6000 U	< 15000 U	< 15000 U	< 15000 U	< 15000 U	< 8000 U	< 500 U	< 250 U	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Ethylbenzene	3,500	< 6000 U	< 15000 U	< 15000 U	< 15000 U	< 15000 U	< 8000 U	200 J	180	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methylene chloride	5	< 12000 U	< 30000 U	< 30000 U	< 30000 U	**5900**	< 16000 U	< 2500 U	< 1300 U	< 25 U	4 BJ	2 J	< 10 U	< 10 U	< 10 U	< 10 U
Toluene	2,000	**24000 J**	**63000 J**	**62000 J**	**55000 UB**	**46000**	**16000**	**27000**	**26000**	74	67	65	42	37	82	43
Trichloroethene	5	< 6000 U	< 15000 U	< 15000 U	< 15000 U	< 15000 U	< 8000 U	< 250 U	< 130 U	< 25 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Vinyl chloride	2	< 6000 U	< 15000 U	< 15000 U	< 15000 U	< 15000 U	< 8000 U	**120 J**	< 130 U	< 50 U	< 10 U	**4 J**	**4 J**	**3 J**	**3 J**	< 10 U
Xylenes (total)	350	< 18000 U	< 45000 U	< 45000 U	< 45000 U	< 45000 U	< 24000 U	**550**	**460**	< 25 U	< 10 U	1 J	< 10 U	< 10 U	< 10 U	< 10 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	NA	NA	NA	< 47 R	< 47 UJ	NA	NA	< 200 R	< 250 U	< 25 U	< 25 U	< 25 U	< 25 U	< 26 U	< 26 U
bis(2-Chloroethyl) ether	5	NA	NA	NA	< 1.9 U	< 1.9 UJ	NA	NA	**140**	< 100 U	4 J	**16**	< 10 U	< 10 U	< 10 U	< 10 U
Metals (µg/L)																
Arsenic	10	NA	NA	NA	< 10 U	< 10 U	< 10 U	2.8 J	4.3 J	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	< 7 U	< 6 U
Barium	1,000	NA	NA	NA	412	281	325	290	300	313	106 B	107 B	81 B	88 B	98 B	71 B
Beryllium	17.5	NA	NA	NA	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0 U	< 0 U	< 0 U	< 2 U	< 2 U	< 2 U	< 1 U
Cadmium	10	NA	NA	NA	0.98 J	< 5 U	0.64 J	1.2 J	1.5 J	< 5 U	< 5 U	< 5 U	< 0 U	< 3 U	**18**	< 4 U
Chromium	50	NA	NA	NA	7.1	< 5 U	9.9	3.0 J	3.8 J	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	NA
Manganese	7,700	NA	NA	NA	**18500**	**18100 J**	**44700**	**54000**	**44000**	7680	NA	3620	NA	2850	NA	NA
Nickel	350	NA	NA	NA	**1410**	**1300**	**717**	**760**	**720**	20 B	< 15 U	< 15 U	< 20 U	< 20 U	< 20 U	< 16 U
Selenium	10	NA	NA	NA	10	7.4	< 25 U	**25**	21 UJ	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U
Zinc	7,350	NA	NA	NA	539	54.7	174	22 B	5.4 J	10 B	4 B	< 2 U	25	25	25	< 15 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-06	EX-06	EX-06	EX-06	EX-06	EX-06	EX-06	EX-06	EX-06	EX-06	EX-06	EX-06	EX-07	EX-07	EX-07
Sample Date		1/1/1998	9/8/1998	2/15/2000	12/14/2000	3/11/2002	12/2/2002	12/2/2003	12/17/2007	12/18/2008	7/6/2009	7/6/2009	7/6/2009	4/1/1996	7/1/1996	10/1/1996
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 10 U	NA	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 120 U	< 3300 U	NA
1,1-Dichloroethene	7	< 10 U	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U	< 1 U	< 120 U	< 3300 U	< 250 U
1,2-Dichloroethane	5	**80**	NA	< 1 U	< 1 U	< 0 U	< 1 U	2.1	**22**	< 0.21 U	< 1 U	< 1 U	< 1 U	**83000 D**	< 3300 U	**50000 D**
1,2-Dichloropropane	6	< 10 U	NA	< 1 U	< 1 U	< 0 U	< 1 U	0.32 J	0.32 J	< 0.18 U	< 1 U	< 1 U	< 1 U	< 120 U	< 3300 U	< 250 U
Acetone	3,500	120 B	NA	11	< 2 U	< 2 U	< 10 U	2.8 J	14	< 2.5 U	< 10 U	5.3 J	5.5 J	**7100 DJ**	920 J	550 DJ
Benzene	5	< 10 U	NA	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 1 U	**30 J**	< 3300 U	< 250 U
Bromodichloromethane	5	< 10 U	NA	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 120 U	< 3300 U	< 250 U
Chloroform	5	< 10 U	NA	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 120 U	< 3300 U	< 250 U
Ethylbenzene	3,500	< 10 U	NA	< 1 U	< 1 U	< 0 U	< 1 U	0.31 J	0.67 J	< 0.18 U	< 1 U	< 1 U	< 1 U	< 120 U	< 3300 U	< 250 U
Methylene chloride	5	< 10 U	NA	< 1 U	< 1 U	< 0 U	< 2 U	< 2 U	< 2 U	< 0.32 U	< 2 U	< 2 U	< 2 U	< 120 U	**1200 BJ**	**16 J**
Toluene	2,000	40	NA	< 1 U	< 1 U	< 0 U	< 1 U	4	18	< 0.23 U	0.31 J	0.29 J	0.24 J	**3200**	**2200 J**	1700
Trichloroethene	5	< 10 U	NA	< 1 U	< 1 U	< 0 U	< 1 U	0.57 J	0.54 J	< 0.29 U	< 1 U	0.60 J	0.70 J	< 120 U	< 3300 U	< 250 U
Vinyl chloride	2	< 10 U	NA	< 1 U	< 1 U	< 1 U	< 1 U	1.9 J	< 1 U	< 0.29 U	< 1 U	< 1 U	< 1 U	< 250 U	< 3300 U	< 250 U
Xylenes (total)	350	< 10 U	NA	NA	< 1 U	< 1 U	< 3 U	< 3 U	2.8 J	< 0.62 U	< 3 U	< 3 U	< 3 U	29 J	< 3300 U	18 J
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 26 U	NA	< 50 U	< 51 U	< 2 U	< 48 U	< 50 U	< 48 U	< 3.8 U	NA	NA	NA	< 500 U	< 250 U	< 250 U
bis(2-Chloroethyl) ether	5	< 10 U	NA	< 10 U	< 10 U	< 1 U	< 9.6 U	< 10 U	< 9.7 U	< 0.26 U	NA	NA	NA	< 200 U	< 100 U	< 100 U
Metals (µg/L)																
Arsenic	10	< 6 U	< 5 U	< 0 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 2 U	NA	NA	NA	< 1 U	< 1 U	< 1 U
Barium	1,000	82 B	63	0	20 B	25 B	31.7 B	44 B	33.8 B	16.3 B	NA	NA	NA	425	305	319
Beryllium	17.5	< 1 U	< 3 U	< 0 U	< 0 U	< 0 U	0.69 B	< 5 U	0.75 JB	0.38 BJ	NA	NA	NA	< 0 U	< 0 U	< 0 U
Cadmium	10	< 4 U	< 0 U	< 0 U	< 0 U	< 0 U	< 5 U	0.4 B	< 5 U	< 0.21 U	NA	NA	NA	< 5 U	< 5 U	< 5 U
Chromium	50	< 4 U	< 10 U	< 0 U	4 B	14	1.3 B	1.6 B	1.6 B	5.2	NA	NA	NA	8 B	15	17
Manganese	7,700	NA	2230	1	402	256	829	1060	424	48.1	NA	NA	NA	**73700**	NA	NA
Nickel	350	< 16 U	< 40 U	< 0 U	2 B	2 B	< 40 U	1.4 B	3 B	1.2 B	NA	NA	NA	117	110	91
Selenium	10	< 5 U	< 5 U	< 0 U	< 2 U	< 3 U	< 5 U	< 5 U	< 5 U	< 2.9 U	NA	NA	NA	< 2 U	< 2 U	< 1 U
Zinc	7,350	< 15 U	< 20 U	< 0 U	< 9 U	18 B	< 20 U	2 B	48.6 J	17.5 BJ	NA	NA	NA	43	34	20

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07	EX-07
Sample Date		1/1/1997	4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	2/15/2000	12/14/2000	3/6/2002	12/2/2002	12/2/2003	12/14/2007	12/17/2008	7/6/2009	7/6/2009
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 250 U	< 250 U	< 250 U	< 250 U	< 1000 U	NA	< 500 U	< 5 U	< 4 U	< 50 U	< 1 U	< 10 U	< 0.39 U	< 1 U	< 2 U
1,1-Dichloroethene	7	< 250 U	< 250 U	< 250 U	< 250 U	< 1000 U	NA	< 500 U	< 5 U	< 5 U	< 50 U	< 1 U	< 10 U	< 0.56 U	< 1 U	< 3 U
1,2-Dichloroethane	5	**34000 D**	**35000 D**	**36000 D**	**27000 D**	**19000**	NA	< 500 U	**180 D**	**270**	**260**	**7.9**	**6.3 J**	< 0.43 U	1.2	< 2.1 U
1,2-Dichloropropane	6	< 250 U	< 250 U	< 250 U	< 250 U	< 1000 U	NA	< 500 U	< 5 U	< 5 U	< 50 U	< 1 U	< 10 U	< 0.36 U	< 1 U	< 0.95 U
Acetone	3,500	**4900 B**	**4000 B**	2000 B	**3600**	3300 B	NA	< 5000 U	< 10 U	80 J	140 J	< 10 U	< 100 U	40	5.6 J	< 25 U
Benzene	5	< 250 U	< 250 U	< 250 U	< 250 U	< 1000 U	NA	< 500 U	< 5 U	< 4 U	< 50 U	< 1 U	< 10 U	< 0.55 U	< 1 U	< 1.1 U
Bromodichloromethane	5	< 250 U	< 250 U	< 250 U	< 250 U	< 1000 U	NA	< 500 U	< 5 U	< 3 U	< 50 U	< 1 U	< 10 U	< 0.4 U	< 1 U	< 1.3 U
Chloroform	5	< 250 U	< 250 U	< 250 U	< 250 U	< 1000 U	NA	< 500 U	< 5 U	< 5 U	< 50 U	< 1 U	< 10 U	< 0.48 U	< 1 U	< 1.7 U
Ethylbenzene	3,500	< 250 U	< 250 U	< 250 U	< 250 U	< 1000 U	NA	< 500 U	2 JD	< 5 U	< 50 U	< 1 U	2.6 J	2.3	< 1 U	5.2 J
Methylene chloride	5	< 250 U	< 250 U	< 250 U	**44 J**	< 1000 U	NA	< 500 U	4 JBD	< 4 U	< 100 U	< 2 U	< 20 U	0.86 J	< 2 U	< 1.5 U
Toluene	2,000	1600	1200	1100	1100	820 J	NA	< 500 U	120 D	48	220	1.9	140	55	0.89 J	420 J
Trichloroethene	5	< 250 U	< 250 U	< 250 U	< 250 U	< 1000 U	NA	< 500 U	< 5 U	< 4 U	< 50 U	0.31 J	< 10 U	< 0.59 U	0.22 J	< 1.4 U
Vinyl chloride	2	**53 J**	< 250 U	< 250 U	< 250 U	< 1000 U	NA	< 500 U	< 5 U	< 6 U	**20 J**	< 2 U	**3.5 J**	< 0.58 U	< 1 U	< 2.3 U
Xylenes (total)	350	< 250 U	< 250 U	< 250 U	< 250 U	< 1000 U	NA	NA	6 D	< 10 U	< 150 U	< 3 U	6.5 J	6.6	< 3 U	15 J
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 260 U	< 250 U	< 280 U	< 260 U	< 260 U	NA	< 50 U	< 51 U	< 2 U	< 48 U	< 49 U	< 52 U	< 3.7 U	NA	NA
bis(2-Chloroethyl) ether	5	< 100 U	< 100 U	< 110 U	**18 J**	**14 J**	NA	< 10 U	< 10 U	< 1 U	< 9.6 U	< 9.8 U	< 10 U	< 0.25 U	NA	NA
Metals (µg/L)																
Arsenic	10	< 7 U	< 7 U	< 7 U	< 6 U	< 6 U	2 J	< 0 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 2 U	NA	NA
Barium	1,000	335	315	280	260	290	129	0	171 B	30 B	353	106 B	344	203	NA	NA
Beryllium	17.5	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 3 U	< 0 U	< 0 U	1 B J	0.5 B	< 5 U	0.62 JB	< 0.18 U	NA	NA
Cadmium	10	1 B	4 B	5 B	< 4 U	< 4 U	< 0 U	< 0 U	< 0 U	< 0 U	< 5 U	< 5 U	< 5 U	< 0.21 U	NA	NA
Chromium	50	< 5 U	< 5 U	6 B	NA	< 4 U	19	< 0 U	3 B	< 1 U	3 B	2.4 B	4 B	2.9 B	NA	NA
Manganese	7,700	NA	**43600**	NA	NA	NA	**48000**	36	**9310**	1170	**10600**	6410	**13300**	**8520**	NA	NA
Nickel	350	70	61	36 B	23 B	< 16 U	213	0	2 B	14 B	3.1 B	1.8 B	6.6 B	5.8 B	NA	NA
Selenium	10	**32**	**25**	**25**	**20**	**21**	**18**	0	< 2 U	< 3 U	< 5 U	< 5 U	< 5 U	< 2.9 U	NA	NA
Zinc	7,350	35	113	119	< 15 U	< 15 U	28	0	< 9 U	6 B	7.2 B	4.6 B	16.4 JB	13.0 BJ	NA	NA

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-07	EX-07	EX-07	EX-07	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08
Sample Date		7/6/2009	12/23/2009	12/8/2010	11/30/2011	4/1/1996	7/1/1996	10/1/1996	1/1/1997	4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	2/15/2000	12/14/2000
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 30 U	< 40 U	< 25 U	< 1 U	**120 J**	< 5000 U	NA	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 2500 U	NA	**270**	< 2000 U
1,1-Dichloroethene	7	< 30 U	< 40 U	< 25 U	< 1 U	< 120 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 2500 U	NA	< 5 U	< 2000 U
1,2-Dichloroethane	5	< 30 U	< 40 U	**550**	**55**	**330000 D**	< 5000 U	**350000 D**	**390000 D**	**290000 D**	**310000 D**	**270000 D**	**220000 D**	NA	**230000**	**240000 ED**
1,2-Dichloropropane	6	< 30 U	< 40 U	< 25 U	< 1 U	**530**	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	**1000 J**	**1200 J**	NA	**2600**	**1500 JD**
Acetone	3,500	< 300 U	< 400 U	190	38	**230000 D**	**11000**	**72000**	**120000 DB**	**130000 DB**	**67000 B**	**220000 D**	**63000 DB**	NA	**62000**	< 4000 U
Benzene	5	< 30 U	< 40 U	< 25 U	< 0.5 U	**34 J**	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 2500 U	NA	< 5 U	< 2000 U
Bromodichloromethane	5	< 30 U	< 40 U	< 25 U	< 1 U	< 120 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 2500 U	NA	< 1 U	< 2000 U
Chloroform	5	< 30 U	< 40 U	< 25 U	< 1 U	< 120 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 2500 U	NA	< 5 U	< 2000 U
Ethylbenzene	3,500	< 30 U	< 40 U	10	1.8	140	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 2500 U	NA	940	< 2000 U
Methylene chloride	5	< 60 U	**8.4 UB**	< 50 U	< 5 U	**40 J**	< 5000 U	**300 J**	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 2500 U	NA	**42**	**1600 JBD**
Toluene	2,000	860 J	680	240	67	**68000 D**	**28000**	**25000**	**30000**	**24000**	**25000**	**26000**	**24000**	NA	**29000**	**26000 D**
Trichloroethene	5	< 30 U	< 40 U	< 25 U	1.1	< 120 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 2500 U	NA	**67**	< 2000 U
Vinyl chloride	2	< 30 U	< 40 U	**26**	< 0.5 U	< 250 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 2500 U	NA	**440**	< 2000 U
Xylenes (total)	350	18 J	< 120 U	22	5.2	**550**	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	< 5000 U	**680 J**	NA	NA	**1800 JD**
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	NA	< 48 U	< 49 U	< 93 U	< 6200 U	< 12000 U	< 6200 U	< 25 U	< 250 U	< 1400 U	< 260 U	< 260 U	NA	< 1000 U	< 51 U
bis(2-Chloroethyl) ether	5	NA	< 1.9 U	< 2 U	< 9.3 U	**320 J**	< 5000 U	< 2500 U	**210**	**390**	**620**	**810**	**1100**	NA	< 200 U	**470 E**
Metals (µg/L)																
Arsenic	10	NA	< 10 U	3.1	< 10 U	< 22 U	< 2 U	< 2 U	< 7 U	< 7 U	< 7 U	9 B	< 6 U	7	0	< 2 U
Barium	1,000	NA	**1010**	26.5	240	26 B	29 B	29 B	21 B	23 B	26 B	26 B	21 B	16	0	18 B
Beryllium	17.5	NA	< 4 U	0.59	< 4 U	**34**	**23**	**21**	**18**	15	14	13	14	8	0	7
Cadmium	10	NA	0.48 J	2.2	1.1 UB	**44**	**19**	**16**	**13**	< 3 U	7	4 B	**13**	4	0	2 B
Chromium	50	NA	6.2	1.3	< 10 U	**80**	**85**	**80**	20	13	10 B	NA	< 4 U	12	< 0 U	31
Manganese	7,700	NA	**25800**	7000	**11000**	NA	NA	**332000**	NA	NA	NA	NA	NA	**134000**	210	**100000**
Nickel	350	NA	14.6 J	76.5	3.8 J	**1990**	**1440**	**1350**	**1270**	**1140**	**1120**	**989**	**1020**	**567**	1	**575**
Selenium	10	NA	< 10 U	3.4	6.1 UJ	< 8 U	< 2 U	< 5 U	**171**	**60**	**59**	**118**	**104**	**47**	0	**49**
Zinc	7,350	NA	7.6 UB	42.1	3.8 UB	3200	1820	1690	1860	1510	1400	1250	1320	686	1	598

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-08	EX-09	EX-09
Sample Date		3/6/2002	3/6/2002	12/2/2002	12/2/2003	12/12/2006	12/14/2007	12/17/2008	7/6/2009	7/6/2009	7/6/2009	12/22/2009	12/8/2010	11/30/2011	4/1/1996	7/1/1996
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1300 U	< 2200 U	< 25000 U	**82**	< 12000 U	< 400 U	< 780 U	< 1 U	< 1500 U	< 6000 U	< 5000 U	< 25 U	< 2 U	< 120 U	< 3300 U
1,1-Dichloroethene	7	< 1500 U	< 2600 U	< 25000 U	< 50 U	< 12000 U	< 400 U	< 1100 U	< 1 U	< 1500 U	< 6000 U	< 5000 U	< 25 U	< 2 U	< 120 U	< 3300 U
1,2-Dichloroethane	5	**170000 E**	**190000**	**530000**	**190000**	**320000**	**7600**	**82000**	**5.3**	**45000**	**230000**	**100000**	< 25 U	**110**	**71000 D**	< 3300 U
1,2-Dichloropropane	6	**2000 J**	**2300 J**	< 25000 U	**1200**	< 12000 U	< 400 U	< 720 U	< 1 U	< 1500 U	< 6000 U	< 5000 U	< 25 U	< 2 U	**530**	< 5000 U
Acetone	3,500	**58000**	**70000**	**100000 J**	**40000 J**	< 120000 U	< 4000 U	< 10000 U	6.7 J	< 15000 U	< 60000 U	**21000 J**	75	320	**23000 D**	**8100**
Benzene	5	< 1200 U	< 2000 U	< 25000 U	**20 J**	< 12000 U	< 400 U	< 1100 U	0.32 J	< 1500 U	< 6000 U	< 5000 U	< 25 U	4	**64 J**	< 3300 U
Bromodichloromethane	5	< 910 U	< 1500 U	< 25000 U	< 50 U	< 12000 U	< 400 U	< 810 U	< 1 U	< 1500 U	< 6000 U	< 5000 U	< 25 U	< 2 U	< 120 U	< 3300 U
Chloroform	5	< 1500 U	< 2400 U	< 25000 U	**28 J**	< 12000 U	**32 J**	< 970 U	< 1 U	< 1500 U	< 6000 U	< 5000 U	< 25 U	< 2 U	< 120 U	< 3300 U
Ethylbenzene	3,500	< 1500 U	< 2400 U	< 25000 U	530	< 12000 U	94 J	< 730 U	2	< 1500 U	< 6000 U	< 5000 U	< 25 U	33	1300	590 J
Methylene chloride	5	< 1100 U	< 1800 U	< 50000 U	< 100 U	< 25000 U	< 800 U	**2600 J**	< 2 U	< 3000 U	< 12000 U	< 10000 U	4.7	< 10 U	**48 J**	**490 BJ**
Toluene	2,000	**17000**	**23000**	**91000**	**13000**	**30000**	**4900**	**13000**	25 J	**6300 J**	**21000 J**	**14000 UB**	400	1100	**38000 D**	**29000**
Trichloroethene	5	< 1200 U	< 2000 U	< 25000 U	**24 J**	< 12000 U	< 400 U	< 1200 U	3.4	< 1500 U	< 6000 U	< 5000 U	< 25 U	**6.4**	< 120 U	< 3300 U
Vinyl chloride	2	< 1800 U	< 3000 U	< 25000 U	**130**	< 12000 U	< 400 U	< 1200 U	**29**	< 1500 U	< 6000 U	< 5000 U	< 25 U	**27**	< 250 U	< 3300 U
Xylenes (total)	350	< 2900 U	< 4800 U	< 75000 U	**2100**	< 38000 U	**530 J**	< 2500 U	3	< 4500 U	< 18000 U	< 15000 U	< 75 U	85	**3000**	**2300 J**
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 110 U	NA	< 2400 U	< 4800 U	< 5200 U	< 52 U	< 3.8 U	NA	NA	NA	< 47 U	< 47 U	< 93 U	< 6200 U	< 12000 U
bis(2-Chloroethyl) ether	5	**1800**	NA	**140 J**	< 960 U	< 1000 U	3 J	< 0.26 U	NA	NA	NA	< 1.9 U	< 1.9 U	< 9.3 U	**10000**	NA
Metals (µg/L)																
Arsenic	10	7 B	NA	3.6 B	4.4 B	5.3 J	< 10 U	< 2 U	NA	NA	NA	< 10 U	< 10 U	< 10 U	< 11 U	< 2 U
Barium	1,000	22 B	NA	20 B	17.9 B	21.5 J	28.7 B	14.8 B	NA	NA	NA	17.5 J	494	36	13 B	18 B
Beryllium	17.5	12 J	NA	6.1	10.9	12.1 B	1.4 JB	3.4 BJ	NA	NA	NA	3.8 J	< 4 U	0.77 J	**26**	**28**
Cadmium	10	6 J	NA	2.2 B J	3.6 B	1.5 J	0.4 B	0.34 B	NA	NA	NA	1.2 J	0.4	0.92 UB	**13**	**8**
Chromium	50	36	NA	37	33.2	35.4	3.1 B	16.2	NA	NA	NA	13.9	< 5 U	2.9 UB	48	**64**
Manganese	7,700	**196000**	NA	**132000**	**122000**	**113000**	3290	**58700**	NA	NA	NA	**51500**	**20200**	**9100**	NA	NA
Nickel	350	**758**	NA	**649**	**622**	**418**	14 B	255	NA	NA	NA	199	23.4	67	**645**	**798**
Selenium	10	**72**	NA	< 50 U	< 50 U	< 50 U	< 5 U	< 14.5 U	NA	NA	NA	< 25 U	< 5 U	8.9 UJ	< 8 U	< 2 U
Zinc	7,350	1000	NA	356	814	605 B	227 J	137 J	NA	NA	NA	155	6.7	110 UB	2880	2750

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09
Sample Date		10/1/1996	1/1/1997	4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	2/15/2000	12/14/2000	3/6/2002	3/6/2002	12/2/2002	12/2/2003	12/12/2006	12/14/2007
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	NA	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 1000 U	NA	**88**	< 5000 U	< 870 U	< 1300 U	< 12000 U	< 10000 U	< 4000 U	< 2000 U
1,1-Dichloroethene	7	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 1000 U	NA	< 5 U	< 5000 U	< 1000 U	< 1500 U	< 12000 U	< 10000 U	< 4000 U	< 2000 U
1,2-Dichloroethane	5	**190000 D**	**180000 D**	**130000 D**	**160000 D**	**130000 D**	**110000 D**	NA	**290000**	**160000 D**	**87000 E**	**91000**	**280000**	**160000**	**72000**	**60000**
1,2-Dichloropropane	6	< 5000 U	< 5000 U	< 5000 U	< 5000 U	**1000 J**	**1200 J**	NA	**16000**	**16000 D**	**6400**	**7000**	< 12000 U	< 10000 U	**980 J**	**710 J**
Acetone	3,500	**37000**	**53000 DB**	**40000 B**	**23000 B**	**19000**	**24000 DB**	NA	**39000**	< 10000 U	**30000**	**25000 J**	**88000 J**	< 100000 U	**13000 J**	**12000 J**
Benzene	5	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 1000 U	NA	< 5 U	< 5000 U	< 790 U	< 1200 U	< 12000 U	< 10000 U	< 4000 U	< 2000 U
Bromodichloromethane	5	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 1000 U	NA	< 5 U	< 5000 U	< 610 U	< 910 U	< 12000 U	< 10000 U	< 4000 U	< 2000 U
Chloroform	5	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 1000 U	NA	< 5 U	< 5000 U	< 970 U	< 1500 U	< 12000 U	< 10000 U	< 4000 U	< 2000 U
Ethylbenzene	3,500	480 J	410 J	< 2500 U	< 2500 U	500 J	490 J	NA	1300	< 5000 U	< 970 U	< 1500 U	< 12000 U	< 10000 U	720 J	690 J
Methylene chloride	5	**170 J**	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 1000 U	NA	**17**	**5100 BD**	< 720 U	< 1100 U	< 25000 U	< 20000 U	< 8000 U	< 4000 U
Toluene	2,000	**28000**	**28000**	**20000**	**23000**	**22000**	**21000 D**	NA	**85000**	**65000 D**	**30000**	**39000**	**150000**	**41000**	**47000**	**30000**
Trichloroethene	5	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 1000 U	NA	**21**	< 5000 U	< 780 U	< 1200 U	< 12000 U	< 10000 U	< 4000 U	< 2000 U
Vinyl chloride	2	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 2500 U	< 1000 U	NA	**94**	< 5000 U	< 1200 U	< 1800 U	< 12000 U	< 20000 U	< 4000 U	< 2000 U
Xylenes (total)	350	**1800 J**	**1300 J**	**1000 J**	**1100 J**	**1800 J**	**1800**	NA	NA	**5000 JD**	**2200 J**	< 2900 U	**2700 J**	< 30000 U	**3200 J**	**2500 J**
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 2500 U	< 520 U	< 100 U	< 530 U	< 260 U	< 260 U	NA	< 2500 U	< 2600 U	< 110 U	NA	< 5800 U	< 4700 U	< 5000 U	< 390 U
bis(2-Chloroethyl) ether	5	**6600**	**7200**	**3800 D**	**7500**	**7400 D**	**10000 D**	NA	< 500 U	**7600 ED**	**2900**	NA	**640 J**	< 940 U	< 1000 U	< 78 U
Metals (µg/L)																
Arsenic	10	< 4 U	10 B	< 7 U	< 7 U	8 B	< 6 U	5	0	3 B	3 B	NA	< 10 U	8.4 B	5.7 J	< 10 U
Barium	1,000	17 B	11 B	12 B	16 B	16 B	11 B	10	0	7 B	13 B	NA	15.7 B	65.4 B	42.6 J	19.1 B
Beryllium	17.5	**26**	**22**	17	**20**	**18**	**19**	10	0	17	11 J	NA	13.4	**24 J**	15.9 B	7.1 J
Cadmium	10	8	6	< 3 U	5	< 4 U	5	2	0	3 B	2 B J	NA	1.8 B J	**12**	**10.6**	0.55 B
Chromium	50	**64**	27	20	19	NA	14	16	0	34	22	NA	34.2	46.8	29.6	13.4
Manganese	7,700	NA	NA	NA	**143000**	NA	**138000**	**69400**	110	**129000**	**108000**	NA	**106000**	**89400**	**57800**	**42400**
Nickel	350	**906**	**843**	**653**	**706**	**657**	**680**	329	0	**599**	**407**	NA	**505**	**601**	**364**	236
Selenium	10	< 5 U	**88**	**20**	**24**	**61**	**62**	**26**	0	**47**	**42**	NA	< 50 U	< 25 U	< 25 U	< 25 U
Zinc	7,350	2850	2900	2060	2230	1940	1960	936	1	1600	983	NA	1010	**9190**	3490 B	417 J

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-09	EX-10	EX-10	EX-10	EX-10	EX-10
Sample Date		12/18/2008	12/18/2008	7/6/2009	7/6/2009	7/6/2009	12/22/2009	12/20/2010	3/30/2011	9/14/2011	12/9/2011	4/1/1996	7/1/1996	10/1/1996	1/1/1997	4/1/1997
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 390 U	NA	< 2000 U	< 500 U	< 4000 U	**13 J**	< 500 U	< 2000 U	< 100 U	< 20 U	< 120 U	< 1700 U	NA	< 5000 U	< 5000 U
1,1-Dichloroethene	7	< 560 U	NA	< 2000 U	< 500 U	< 4000 U	< 50 U	< 500 U	< 2000 U	< 100 U	< 20 U	< 120 U	< 1700 U	< 5000 U	< 5000 U	< 5000 U
1,2-Dichloroethane	5	**43000**	NA	**920 J**	**420 J**	**120000**	**18000**	**8800**	**24000**	**25000**	**6100**	**28000 D**	< 1700 U	**35000**	**31000**	**30000**
1,2-Dichloropropane	6	< 360 U	NA	**270 J**	**110 J**	**490 J**	**100**	< 500 U	< 2000 U	**130**	**38**	**82000 D**	**81000 D**	**78000**	**68000**	**56000**
Acetone	3,500	**7900 J**	NA	< 20000 U	< 5000 U	< 40000 U	2600	1300	< 20000 U	2900	1100	**43000 D**	**8200**	**75000**	**96000 B**	**92000 B**
Benzene	5	< 550 U	NA	< 2000 U	< 500 U	< 4000 U	< 50 U	< 500 U	< 2000 U	< 50 U	**17**	**40 J**	< 1700 U	< 5000 U	< 5000 U	< 5000 U
Bromodichloromethane	5	< 400 U	NA	< 2000 U	< 500 U	< 4000 U	< 50 U	< 500 U	< 2000 U	< 100 U	< 20 U	< 120 U	< 1700 U	< 5000 U	< 5000 U	< 5000 U
Chloroform	5	< 480 U	NA	< 2000 U	< 500 U	< 4000 U	< 50 U	< 500 U	< 2000 U	< 100 U	< 20 U	< 120 U	< 1700 U	< 5000 U	< 5000 U	< 5000 U
Ethylbenzene	3,500	670 J	NA	1400 J	140 J	< 4000 U	340	660	< 2000 U	460	770	2400	2400	2400 J	2200 J	1800 J
Methylene chloride	5	< 640 U	NA	< 4000 U	**150 UB**	< 8000 U	< 100 U	< 1000 U	< 4000 U	< 500 U	< 100 U	**94 J**	**880 BJ**	**370 J**	< 5000 U	< 5000 U
Toluene	2,000	**29000**	NA	**32000 J**	**8600**	**35000 J**	**11000**	**10000**	**8500**	**11000**	**7400**	**14000 D**	**15000**	**15000**	**16000**	**12000**
Trichloroethene	5	< 590 U	NA	< 2000 U	< 500 U	< 4000 U	< 50 U	< 500 U	< 2000 U	< 50 U	**12**	< 120 U	< 1700 U	< 5000 U	< 5000 U	< 5000 U
Vinyl chloride	2	< 580 U	NA	< 2000 U	< 500 U	< 4000 U	< 50 U	< 500 U	< 2000 U	< 50 U	**17**	**220 J**	< 1700 U	< 5000 U	< 5000 U	< 5000 U
Xylenes (total)	350	**2100 J**	NA	**3000 J**	340 J	< 12000 U	**1200**	**2000**	< 6000 U	**1600**	**1700**	**7700 D**	**7800**	**7300**	**6800**	**5800**
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 3.7 U	NA	NA	NA	NA	< 47 R	< 48 U	NA	NA	< 1900 UJ	< 2500 U	< 25000 U	< 7500 U	< 260 U	< 5300 U
bis(2-Chloroethyl) ether	5	**74**	NA	NA	NA	NA	< 1.9 U	< 1.9 U	NA	NA	< 190 UJ	**35000 D**	**47000**	**29000 D**	**29000 D**	**14000**
Metals (µg/L)																
Arsenic	10	2.4 B	NA	NA	NA	NA	< 10 U	2.9	< 10 U	< 10 U	< 10 U	< 11 U	< 2 U	< 2 U	< 7 U	< 7 U
Barium	1,000	13.6 B	NA	NA	NA	NA	42.5 J	27.6	16.4 J	14	22	19 B	19 B	21 B	29 B	18 B
Beryllium	17.5	8.4 J	NA	NA	NA	NA	3.3 J	0.76	2.1 J	1.0 J	0.76 J	**25**	**21**	**19**	15	12
Cadmium	10	< 0.21 U	NA	NA	NA	NA	< 5 U	0.34	0.46 J	0.64 J	0.39 J	**13**	7	< 5 U	4 B	< 3 U
Chromium	50	12.9	NA	NA	NA	NA	20.9	< 5 U	8.4	3.3 J	2.5 J	44	**56**	46	16	10
Manganese	7,700	**41800 J**	**41900**	NA	NA	NA	**22300**	**15900 J**	**28900**	**26000**	**12000**	NA	NA	**138000**	NA	NA
Nickel	350	175	NA	NA	NA	NA	168	81.7	135	110	47	**698**	**549**	**505**	**444**	**365**
Selenium	10	< 14.5 U	NA	NA	NA	NA	7.0 J	8.4	< 10 U	**16**	**12**	< 8 U	< 4 U	< 3 U	**68**	**26**
Zinc	7,350	276 J	NA	NA	NA	NA	315	79	176	88 B	63	3280	2320	2120	2010	1360

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10
Sample Date		7/1/1997	10/1/1997	1/1/1998	9/8/1998	2/15/2000	12/14/2000	3/6/2002	3/6/2002	12/2/2002	12/2/2003	12/14/2007	12/14/2007	12/18/2008	7/6/2009	7/6/2009
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 5000 U	< 5000 U	< 500 U	NA	< 5 U	< 5000 U	< 44 U	< 440 U	< 500 U	< 3100 U	< 100 U	NA	< 39 U	< 2000 U	< 1500 U
1,1-Dichloroethene	7	< 5000 U	< 5000 U	< 500 U	NA	< 5 U	< 5000 U	< 51 U	< 510 U	< 500 U	< 3100 U	< 100 U	NA	< 56 U	< 2000 U	< 1500 U
1,2-Dichloroethane	5	**53000**	**59000**	**44000 D**	NA	**19000**	**40000 D**	**12000 E**	**14000**	**8300**	**1100 J**	**2000**	NA	**6300**	**44000**	**38000**
1,2-Dichloropropane	6	**60000**	**75000**	**41000 D**	NA	**52**	**31000 D**	**9800 E**	**11000**	**6000**	**1900 J**	**550**	NA	**390**	**340 J**	**410 J**
Acetone	3,500	**49000 B**	**210000 E**	**82000 DB**	NA	120	**93000 D**	**33000 E**	**44000**	**32000**	**130000**	1200	NA	**3800**	< 20000 U	< 15000 U
Benzene	5	< 5000 U	< 5000 U	< 500 U	NA	< 5 U	< 5000 U	< 40 U	< 400 U	< 500 U	< 3100 U	< 100 U	NA	< 55 U	< 2000 U	< 1500 U
Bromodichloromethane	5	< 5000 U	< 5000 U	< 500 U	NA	< 5 U	< 5000 U	< 30 U	< 300 U	< 500 U	< 3100 U	< 100 U	NA	< 40 U	< 2000 U	< 1500 U
Chloroform	5	< 5000 U	< 5000 U	< 500 U	NA	< 5 U	< 5000 U	< 49 U	< 490 U	< 500 U	< 3100 U	< 100 U	NA	< 48 U	< 2000 U	< 1500 U
Ethylbenzene	3,500	1900 J	2500 J	1900	NA	< 5 U	3400 JD	1600	1400	910	< 3100 U	470	NA	730	< 2000 U	< 1500 U
Methylene chloride	5	< 5000 U	< 5000 U	**200 J**	NA	< 5 U	**3800 JBD**	< 36 U	< 360 U	< 1000 U	< 6200 U	< 200 U	NA	**64 JB**	< 4000 U	< 3000 U
Toluene	2,000	**12000**	**14000**	**9000**	NA	15	**9500 D**	**2900**	**3000**	**2100**	< 3100 U	370	NA	970	1700 J	1600 J
Trichloroethene	5	< 5000 U	< 5000 U	< 500 U	NA	< 5 U	< 5000 U	< 39 U	< 390 U	< 500 U	< 3100 U	< 100 U	NA	< 59 U	< 2000 U	< 1500 U
Vinyl chloride	2	< 5000 U	< 5000 U	**250 J**	NA	< 5 U	< 5000 U	**140 J**	< 600 U	< 500 U	< 6200 U	**69 J**	NA	**61 J**	< 2000 U	< 1500 U
Xylenes (total)	350	**6300**	**8300**	**6200**	NA	NA	**12000 D**	**5900**	**5300**	**4000**	< 9400 U	**690**	NA	**1200**	< 6000 U	< 4500 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 1000 U	< 260 U	< 270 U	NA	< 1000 U	< 510 U	< 36 U	< 180 U	< 4700 U	< 510 U	< 200 U	< 500 U	< 3.8 U	NA	NA
bis(2-Chloroethyl) ether	5	**30000 D**	**16000 D**	**68000 D**	NA	**11000**	**8800 ED**	**4000 E**	**4800**	**6500**	**7200**	**1900 E**	**1900**	**980**	NA	NA
Metals (µg/L)																
Arsenic	10	< 7 U	10 B	< 6 U	4 J	0	2 B	3 B	NA	< 10 U	4.7 B	< 10 U	NA	3.1 B	NA	NA
Barium	1,000	19 B	18 B	16 B	12	0	14 B	14 B	NA	15.9 B	25.7 B	16.2 B	NA	33.5 B	NA	NA
Beryllium	17.5	14	14	15	8	0	11	12 J	NA	7	< 5 U	1.6 JB	NA	0.34 BJ	NA	NA
Cadmium	10	< 3 U	4 B	6	2	0	4 B	1 B J	NA	< 5 U	0.45 B	< 5 U	NA	< 0.21 U	NA	NA
Chromium	50	12	NA	< 4 U	24	< 0 U	28	33	NA	31	28.6	14.1	NA	12.5	NA	NA
Manganese	7,700	NA	NA	NA	**79100**	120	**114000**	**101000**	NA	**82900**	**99100**	**50600**	NA	**48200**	NA	NA
Nickel	350	**451**	**410**	**484**	271	0	**370**	292	NA	219	43.3	51.7	NA	65.2	NA	NA
Selenium	10	**33**	**64**	**58**	**27**	0	**42**	**33**	NA	< 25 U	< 50 U	< 25 U	NA	< 14.5 U	NA	NA
Zinc	7,350	1370	1230	1540	924	1	1150	789	NA	178	3.2 B	11.3 JB	NA	16.0 BJ	NA	NA

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	EX-10	EX-10	EX-10	EX-10	EX-10	EX-10	EX-11	EX-11	EX-11	EX-11	EX-11	EX-11	EX-11	NS-06	NS-07
Sample Date		7/6/2009	7/6/2009	7/6/2009	12/23/2009	12/10/2010	11/30/2011	8/9/2011	8/10/2011	8/11/2011	8/11/2011	8/12/2011	8/25/2011	11/30/2011	2/21/2000	12/23/2009
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 800 U	< 800 U	< 800 U	< 400 U	< 200 U	< 100 U	**9.9**	< 1,000 U	< 1,000 U	< 1,000 U	< 500 U	< 1,000 U	< 10 U	< 0.4 U	< 50 U
1,1-Dichloroethene	7	< 800 U	< 800 U	< 800 U	< 400 U	< 200 U	< 100 U	4.1 J	< 1,000 U	< 1,000 U	< 1,000 U	< 500 U	< 1,000 U	< 10 U	< 0 U	< 50 U
1,2-Dichloroethane	5	**10000**	**1300**	**1300**	**6700**	**3500**	**1100**	**1,500 E**	**6,800**	**7,300**	**7,700**	**7,400**	**1,300**	**780**	**10**	< 50 U
1,2-Dichloropropane	6	**230 J**	**2800**	**2500**	**79 J**	**180**	**1200**	**100**	< 1,000 U	**260 J**	< 1,000 U	**210 J**	< 1,000 U	**39**	< 0.3 U	< 50 U
Acetone	3,500	< 8000 U	**23000**	**19000**	< 4000 U	< 2000 U	**58000**	**12,000 E**	**11,000**	**11,000**	**12,000**	**12,000**	**7,600**	**8,200**	36	< 500 U
Benzene	5	< 800 U	< 800 U	< 800 U	< 400 U	< 200 U	< 50 U	**5.1**	< 1,000 U	< 1,000 U	< 1,000 U	< 500 U	< 1,000 U	< 5 U	< 0.3 U	**13 J**
Bromodichloromethane	5	< 800 U	< 800 U	< 800 U	< 400 U	< 200 U	< 100 U	< 5 U	< 1,000 U	< 1,000 U	< 1,000 U	< 500 U	< 1,000 U	< 10 U	< 0.3 U	< 50 U
Chloroform	5	< 800 U	< 800 U	< 800 U	< 400 U	< 200 U	< 100 U	< 5 U	< 1,000 U	< 1,000 U	< 1,000 U	< 500 U	< 1,000 U	< 10 U	< 0.3 U	< 50 U
Ethylbenzene	3,500	210 J	< 800 U	210 J	290 J	280	290	44	120 J	< 1,000 U	< 1,000 U	100 J	< 1,000 U	13	< 0.3 U	770
Methylene chloride	5	< 1600 U	< 1600 U	< 1600 U	**78 J**	< 400 U	< 500 U	**9.2**	< 1,000 U	< 1,000 U	< 1,000 U	< 500 U	**250 J**	< 50 U	< 0.5 U	< 100 U
Toluene	2,000	730 J	1700 J	2000 J	620	610	1700	**2,700 E**	**8,200**	**8,900**	**6,900**	**7,500**	**3,400**	**3,100**	< 0.3 U	36 J
Trichloroethene	5	< 800 U	< 800 U	< 800 U	< 400 U	< 200 U	< 50 U	**11**	< 1,000 U	< 1,000 U	< 1,000 U	< 500 U	< 1,000 U	< 5 U	< 0.3 U	< 50 U
Vinyl chloride	2	< 800 U	< 800 U	< 800 U	< 400 U	**98**	< 50 U	**80**	< 1,000 U	< 1,000 U	< 1,000 U	< 500 U	< 1,000 U	**69**	< 0.4 U	< 50 U
Xylenes (total)	350	< 2400 U	**490 J**	**600 J**	**430 J**	**420**	**880**	160	< 3,000 U	< 3,000 U	< 3,000 U	340 J	< 3,000 U	47	< 0.5 U	**2200**
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	NA	NA	NA	< 47 U	< 47 U	< 93 R	NA	NA	NA	NA	NA	< 950 U	< 190 R	< 4 U	< 48 U
bis(2-Chloroethyl) ether	5	NA	NA	NA	**350**	**310**	**1700**	NA	NA	NA	NA	NA	< 38 U	< 19 U	**14**	**20000**
Metals (µg/L)																
Arsenic	10	NA	NA	NA	< 10 U	< 10 U	< 10 U	NA	NA	NA	NA	NA	2.7 J	7.5 J	< 1.7 U	< 10 U
Barium	1,000	NA	NA	NA	35.2 J	25	33	NA	NA	NA	NA	NA	56 JB	45	68.4 B	31.3 J
Beryllium	17.5	NA	NA	NA	< 4 U	< 4 U	< 4 U	NA	NA	NA	NA	NA	< 4 U	< 4 U	< 0.1 U	< 4 U
Cadmium	10	NA	NA	NA	< 5 U	< 5 U	1.4 UB	NA	NA	NA	NA	NA	0.48 J	1.4 UB	< 0 U	< 5 U
Chromium	50	NA	NA	NA	9.7	< 25 U	4.9 UB	NA	NA	NA	NA	NA	< 25 U	5.4 UB	0.7 B	3.1 J
Manganese	7,700	NA	NA	NA	**33600**	**43100 J**	**30000**	NA	NA	NA	NA	NA	**85,000 B**	**34,000**	6090	535
Nickel	350	NA	NA	NA	78.4	77.7	41	NA	NA	NA	NA	NA	78	34	< 2.4 U	2.8 J
Selenium	10	NA	NA	NA	< 25 U	< 25 U	**20 J**	NA	NA	NA	NA	NA	< 25 U	**31 J**	4.6 B	3.1 J
Zinc	7,350	NA	NA	NA	59.4	10.1	14 UB	NA	NA	NA	NA	NA	12 J	15 UB	< 1.7 U	4.9 UB

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-07	NS-07	NS-08	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09
Sample Date		12/9/2010	11/30/2011	2/21/2000	4/4/1993	7/1/1993	10/1/1993	1/1/1994	4/1/1994	7/1/1994	10/1/1994	1/1/1995	4/1/1995	7/1/1995	10/1/1995	1/1/1996
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 3 U	< 1 U	< 40 U	3 J	**6 J**	< 250 U	< 10 U	< 3100 U	< 8300 U	< 10000 U	< 5 U	< 500 U	< 5 U	< 57 U	< 10 U
1,1-Dichloroethene	7	< 3 U	< 1 U	< 30 U	**10**	**18**	< 250 U	< 10 U	< 4400 U	< 12000 U	< 14000 U	6 J	< 700 U	**9**	< 80 U	**9 J**
1,2-Dichloroethane	5	< 3 U	< 1 U	**4300 D**	**10000 D**	**14000 D**	**4700**	**170**	< 3100 U	< 8300 U	< 10000 U	**30**	< 500 U	**11**	**1700**	**9 J**
1,2-Dichloropropane	6	0.56	< 1 U	**1100 D**	< 5 U	< 10 U	< 250 U	< 10 U	< 3800 U	< 10000 U	< 12000 U	< 6 U	< 600 U	< 6 U	< 68 U	< 10 U
Acetone	3,500	8.4	8.8	< 100 U	< 10 U	3000 D	720	130	**65000 B**	**330000**	**390000**	**5400 D**	**87000 D**	450 D	1600	7 J
Benzene	5	2.6	**5.3**	< 30 U	< 5 U	< 10 U	< 250 U	< 10 U	< 3100 U	< 8300 U	< 10000 U	1 J	< 500 U	< 5 U	< 57 U	< 10 U
Bromodichloromethane	5	< 3 U	< 1 U	< 30 U	< 5 U	< 10 U	< 250 U	< 10 U	< 3100 U	< 8300 U	< 10000 U	< 5 U	< 500 U	< 5 U	< 57 U	< 10 U
Chloroform	5	< 3 U	< 1 U	< 30 U	< 5 U	< 10 U	< 250 U	< 10 U	< 3100 U	< 8300 U	< 10000 U	< 5 U	< 500 U	< 5 U	< 57 U	< 10 U
Ethylbenzene	3,500	63	140	420 D	32	98	< 250 U	6 J	< 6200 U	< 17000 U	< 20000 U	4 J	< 1000 U	5 J	< 110 U	10
Methylene chloride	5	< 6 U	< 5 U	< 50 U	< 5 U	**9 BJ**	NA	NA	< 3100 U	**14000 B**	**13000 B**	4 BJ	**1300 B**	< 5 U	< 57 U	< 10 U
Toluene	2,000	2.2	22	450 D	400 D	1100 D	330	100	< 6200 U	< 17000 U	< 20000 U	47	340 J	130	410	180
Trichloroethene	5	< 3 U	< 0.5 U	< 30 U	< 5 U	3 J	< 250 U	< 10 U	< 3100 U	< 8300 U	< 10000 U	< 5 U	< 500 U	< 5 U	< 57 U	< 10 U
Vinyl chloride	2	< 3 U	< 0.5 U	< 40 U	< 10 U	**480 DJ**	**75 J**	**48**	< 1200 U	< 3300 U	< 4000 U	**46**	< 200 U	**81**	**160**	**62**
Xylenes (total)	350	75	270	**690 D**	69	120 DJ	< 250 U	13	< 6200 U	< 17000 U	< 20000 U	4 J	< 1000 U	15	< 110 U	23
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 48 U	< 230 UJ	< 20 U	< 50 U	< 140 U	< 1300 U	< 25 U	< 50 U	< 28 U	< 56 U	< 260 U	< 140 U	< 140 U	< 250 U	< 25 U
bis(2-Chloroethyl) ether	5	**4000**	**24000 J**	**530 D**	< 10 U	< 56 U	< 530 U	**8 J**	< 20 U	< 6 U	< 11 U	< 53 U	< 27 U	< 28 U	< 50 U	< 10 U
Metals (µg/L)																
Arsenic	10	4.2	< 10 U	< 1.7 U	< 2 U	2 B	8 B	< 3 U	< 3 U	< 2 U	< 2 U	2 B	< 3 U	3 B	< 2 U	< 1 U
Barium	1,000	217	100	< 12.3 U	**1480**	**3160**	**1020**	412	264	227	428	573	**2030**	**1200**	**1340**	993
Beryllium	17.5	< 4 U	< 4 U	< 0.1 U	< 1 U	3 B	1 B	< 0 U	0 B	< 0 U	< 0 U	< 0 U	0 B	< 0 U	< 0 U	< 0 U
Cadmium	10	2.4	1.2 UB	< 0 U	< 5 U	< 5 U	< 2 U	< 2 U	< 1 U	5 B	< 2 U	< 2 U	< 1 U	2 B	< 2 U	< 5 U
Chromium	50	11.8	11 UB	3.8 B	50	**304**	**127**	21	12	24	7 B	9 B	**127**	42	31	< 5 U
Manganese	7,700	1440	1200	**8800**	**51300**	NA	**28100**	NA	NA	NA	**14300**	**18800**	NA	**33600**	NA	NA
Nickel	350	37.6	15	7.2 B	24 B	102	54	< 10 U	14 B	19 B	10 B	< 10 U	44	9 B	20 B	< 15 U
Selenium	10	5.1	5.8 UJ	7.1	< 10 U	< 4 U	< 7 U	< 2 U	< 3 U	< 3 U	< 3 U	< 1 U	< 3 U	2 B	< 1 U	< 2 U
Zinc	7,350	66.5	29 B	4.7 B	49	156	76	11 B	9 B	217	36	31	141	47	14 B	11 B

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09
Sample Date		4/1/1996	7/1/1996	10/1/1996	1/1/1997	4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	12/21/1999	12/14/2000	3/18/2002	3/18/2002	12/2/2002	12/2/2003
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 50 U	< 50 U	NA	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA	**8**	< 10 U	2	< 26 U	2.2 J	< 25 U
1,1-Dichloroethene	7	< 50 U	< 50 U	**15 J**	< 100 U	< 100 U	**25 J**	< 100 U	< 100 U	NA	**30**	**18 D**	**8**	< 31 U	< 10 U	< 25 U
1,2-Dichloroethane	5	**840**	**2100 D**	**7100 D**	**10000 D**	**4400 D**	**4900 D**	**5900 D**	**10000 D**	NA	**21000**	**680 ED**	**1400 E**	**1400**	**2500**	**6000**
1,2-Dichloropropane	6	< 50 U	< 50 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA	2	< 10 U	1 J	< 28 U	< 10 U	< 25 U
Acetone	3,500	110	22 J	200	110 B	94 JB	830 B	180	79 JB	NA	< 10 U	< 20 U	< 2 U	< 150 U	< 100 U	140 J
Benzene	5	< 50 U	< 50 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA	< 1 U	< 10 U	< 0 U	< 24 U	< 10 U	< 25 U
Bromodichloromethane	5	< 50 U	< 50 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA	< 1 U	< 10 U	< 18 U	< 0 U	< 10 U	< 25 U
Chloroform	5	< 50 U	< 50 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA	2	< 10 U	1 J	< 29 U	< 10 U	< 25 U
Ethylbenzene	3,500	< 50 U	< 50 U	8 J	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA	2	5 JD	8	< 29 U	12	5.5 J
Methylene chloride	5	< 50 U	< 50 U	**7 J**	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA	**9**	**14 D**	4	< 22 U	**5.7 J**	**7.2 J**
Toluene	2,000	170	69	200	< 100 U	80 J	150	110	30 J	NA	53	110 D	180 E	150	430	270
Trichloroethene	5	< 50 U	< 50 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA	5	**7 JD**	5	< 24 U	4.5 J	< 25 U
Vinyl chloride	2	**89 J**	< 50 U	**110**	**20 J**	**49 J**	**84 J**	< 100 U	**53 J**	NA	**140**	**140 D**	**47 E**	**42 J**	**50**	< 50 U
Xylenes (total)	350	12 J	6 J	21 J	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	NA	NA	20 D	25	< 57 U	35	15 J
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 120 U	< 120 U	3 J	< 25 U	< 50 U	< 50 U	< 26 U	< 27 U	NA	< 50 U	< 51 U	< 2 U	< 2 U	< 50 U	< 48 U
bis(2-Chloroethyl) ether	5	< 50 U	< 50 U	< 20 U	< 10 U	< 20 U	< 20 U	2 J	< 11 U	NA	< 10 U	< 10 U	< 1 U	< 1 U	< 10 U	< 9.7 U
Metals (µg/L)																
Arsenic	10	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	7 B	< 6 U	< 6 U	< 5 U	< 0 U	< 2 U	2 B	NA	< 10 U	< 10 U
Barium	1,000	752	504	785	**1270**	329	523	507	605	186	0	309	346	NA	618	386
Beryllium	17.5	< 0 U	< 0 U	0 B	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 3 U	< 0 U	< 0 U	< 0 U	NA	< 4 U	2.1 B J
Cadmium	10	< 5 U	< 5 U	< 5 U	2 B	< 3 U	< 3 U	< 4 U	< 4 U	< 0 U	< 0 U	< 0 U	< 0 U	NA	< 5 U	0.72 B
Chromium	50	< 5 U	20	**97**	**375**	22	**63**	NA	**175**	12	0	7 B	6	NA	8.5	17.3
Manganese	7,700	**20500**	NA	NA	NA	NA	NA	**19600**	NA	3400	12	**15000**	**12800**	NA	**22500**	**15600**
Nickel	350	< 15 U	< 15 U	41	223	< 20 U	35 B	63	82	< 40 U	< 0 U	4 B	7 B	NA	7.1 B	8 B
Selenium	10	< 1 U	< 1 U	< 1 U	**22**	7	**19**	**13**	< 5 U	< 5 U	< 0 U	. 3 B	5	NA	< 10 U	< 5 U
Zinc	7,350	38	16 B	84	111	11 B	48	107	153	26	0	< 9 U	6 B	NA	11.5 B	9.4 B

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-09	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10
Sample Date		12/13/2005	12/12/2006	12/12/2007	12/11/2008	12/21/2009	12/9/2010	11/30/2011	4/4/1993	7/1/1993	10/1/1993	1/1/1994	4/1/1994	7/1/1994	10/1/1994	1/1/1995
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 25 U	< 30 U	< 25 U	< 15 U	< 75 U	< 500 U	< 5 U	**10**	**12**	< 330 U	< 500 U	< 310 U	< 330 U	< 17 U	< 310 U
1,1-Dichloroethene	7	< 25 U	< 30 U	< 25 U	< 21 U	< 75 U	< 500 U	4.6 J	< 5 U	2 J	< 330 U	< 500 U	< 440 U	< 470 U	< 23 U	< 440 U
1,2-Dichloroethane	5	**73**	< 30 U	< 25 U	< 16 U	< 75 U	**720**	< 5 U	**16000 D**	**8000 D**	**2800**	**8800**	**9700**	**7100**	**420**	**9100**
1,2-Dichloropropane	6	< 25 U	< 30 U	< 25 U	< 13 U	< 75 U	< 500 U	< 5 U	2 J	1 J	< 330 U	< 500 U	< 380 U	< 400 U	< 20 U	< 380 U
Acetone	3,500	< 250 U	< 300 U	< 250 U	< 190 U	1200	**12000**	67	< 10 U	100	< 330 U	< 500 U	2100 B	< 670 U	270	< 620 U
Benzene	5	< 25 U	< 30 U	< 25 U	< 20 U	**30 J**	< 500 U	**7.1**	< 5 U	< 10 U	< 330 U	< 500 U	< 310 U	< 330 U	< 17 U	< 310 U
Bromodichloromethane	5	< 25 U	< 30 U	< 25 U	< 15 U	< 75 U	< 500 U	< 5 U	< 5 U	< 10 U	< 330 U	< 500 U	< 310 U	< 330 U	< 17 U	< 310 U
Chloroform	5	< 25 U	< 30 U	< 25 U	< 18 U	**25 J**	< 500 U	< 5 U	< 5 U	1 J	< 330 U	< 500 U	< 310 U	< 330 U	< 17 U	< 310 U
Ethylbenzene	3,500	6.9 J	18 J	46	100	290	270	75	4 J	4 J	< 330 U	< 500 U	< 620 U	< 670 U	< 33 U	< 620 U
Methylene chloride	5	**12 J**	< 60 U	**9.7 JB**	**26 J**	**23 J**	< 1000 U	< 25 U	3 J	**6 BJ**	NA	NA	**170 BJ**	**930 B**	< 17 U	**350 B**
Toluene	2,000	420	400	860	**2400**	**6800**	**11000**	1900	2 J	17	< 330 U	< 500 U	< 620 U	< 670 U	< 33 U	< 620 U
Trichloroethene	5	< 25 U	< 30 U	< 25 U	< 22 U	**17 J**	< 500 U	**9.1**	1 J	< 10 U	< 330 U	< 500 U	< 310 U	< 330 U	< 17 U	< 310 U
Vinyl chloride	2	**63**	**44**	**63**	**97**	**300**	**170**	**47**	**8 J**	< 10 U	< 330 U	< 500 U	< 120 U	< 130 U	< 7 U	< 120 U
Xylenes (total)	350	16 J	42 J	110	280	**660**	**620**	110	10	10	< 330 U	< 500 U	< 620 U	< 670 U	< 33 U	< 620 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 980 U	< 240 U	< 52 U	< 3.7 U	< 48 R	< 49 U	< 19 R	< 53 U	< 25 U	< 120 U	< 540 U	< 2600 U	< 530 U	< 110 U	< 2600 U
bis(2-Chloroethyl) ether	5	< 200 U	< 49 U	< 10 U	< 0.25 U	< 1.9 U	< 2 U	< 1.9 U	< 11 U	< 10 U	< 50 U	< 220 U	< 1100 U	< 110 U	< 22 U	< 520 U
Metals (µg/L)																
Arsenic	10	< 10 U	< 10 U	< 10 U	< 2 U	< 10 U	3.4	< 10 U	< 2 U	< 2 U	< 2 U	< 3 U	< 3 U	< 2 U	3 B	2 B
Barium	1,000	228 B	147 J	183 JB	403 J	564	662	260	297	155 B	155 B	276	144 B	131 B	96 B	124 B
Beryllium	17.5	< 4 U	0.72 JB	1.6 JB	0.34 BJ	< 4 U	< 4 U	< 4 U	< 1 U	2 B	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U
Cadmium	10	< 5 U	< 5 U	< 5 U	< 0.21 U	< 5 U	0.39	0.95 UB	< 5 U	< 5 U	< 2 U	< 2 U	< 1 U	< 2 U	< 2 U	< 2 U
Chromium	50	12.8	4.8 J	5.4	10.9	10.8	< 10 U	3.7 UB	14	12	16	37	6 B	3 B	9 B	9 B
Manganese	7,700	**10900 B**	**8380**	**14000**	**17400**	**33500**	**32500**	**11000**	NA	**7760**	NA	**7930**	**9650**	NA	2760	**14400**
Nickel	350	5.3 J	3.6 J	3.8 B	8.0 B	15.8 J	78	57	45	25 B	34 B	58	30 B	28 B	26 B	34 B
Selenium	10	< 5 U	< 5 U	< 5 U	< 2.9 U	< 10 U	8.5	6.2 UJ	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U	< 3 U	< 3 U	< 1 U
Zinc	7,350	9.9 J	6.5 JB	10.1 JB	13.3 BJ	5.0 UB	3.6	5.8 UB	47	54	43	85	20	54	33	45

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10
Sample Date		4/1/1995	7/1/1995	10/1/1995	1/1/1996	4/1/1996	7/1/1996	10/1/1996	1/1/1997	4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	12/21/1999	12/13/2000
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 89 U	< 83 U	< 330 U	< 250 U	< 50 U	**6 J**	NA	**20 J**	< 100 U	< 100 U	< 100 U	2 J	NA	< 1 U	< 1 U
1,1-Dichloroethene	7	< 130 U	< 120 U	< 470 U	< 250 U	< 50 U	< 10 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	< 1 U	< 1 U
1,2-Dichloroethane	5	**9800 D**	**7600 D**	**8100**	**6100**	**4100 E**	**2200 D**	**4500 D**	**2000 D**	**870**	**1800**	**1600**	**920 D**	NA	**330**	**13**
1,2-Dichloropropane	6	< 110 U	< 100 U	< 400 U	< 250 U	< 50 U	< 10 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	< 1 U	1
Acetone	3,500	800	< 170 U	< 670 U	< 500 U	< 100 U	8 J	< 100 U	88 BJ	78 JB	300 DB	< 100 U	< 10 U	NA	12	42
Benzene	5	< 89 U	< 83 U	< 330 U	< 250 U	< 50 U	< 10 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	< 1 U	< 1 U
Bromodichloromethane	5	< 89 U	< 83 U	< 330 U	< 250 U	< 50 U	< 10 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	< 1 U	< 1 U
Chloroform	5	< 89 U	< 83 U	< 330 U	< 250 U	< 50 U	< 10 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	< 1 U	< 1 U
Ethylbenzene	3,500	< 180 U	< 170 U	< 670 U	< 250 U	< 50 U	< 10 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	< 1 U	< 1 U
Methylene chloride	5	**230 B**	< 83 U	< 330 U	**73 BJ**	**10 BJ**	2 J	**7 J**	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	< 1 U	< 1 U
Toluene	2,000	< 180 U	< 170 U	< 670 U	< 250 U	< 50 U	4 J	9 J	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	< 1 U	1
Trichloroethene	5	< 89 U	< 83 U	< 330 U	< 250 U	< 50 U	< 10 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	< 1 U	< 1 U
Vinyl chloride	2	< 36 U	< 33 U	< 130 U	< 500 U	< 100 U	< 10 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U	NA	1	< 1 U
Xylenes (total)	350	< 180 U	< 170 U	< 670 U	< 250 U	< 50 U	< 10 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	2 J	NA	NA	< 1 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 1200 U	< 1600 U	< 1300 U	< 1200 U	< 500 U	< 500 U	< 250 U	< 26 U	< 250 U	< 26 U	< 27 U	< 26 U	NA	< 50 U	< 4 U
bis(2-Chloroethyl) ether	5	< 250 U	< 310 U	< 260 U	< 500 U	< 200 U	< 200 U	< 100 U	< 10 U	< 100 U	< 10 U	< 11 U	< 10 U	NA	< 10 U	< 2 U
Metals (µg/L)																
Arsenic	10	< 3 U	2 B	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	< 7 U	< 6 U	< 6 U	< 5 U	< 0 U	2 B
Barium	1,000	193 B	176 B	164 B	156 B	277	181 B	293	305	205	236	280	234	132	0	73 B
Beryllium	17.5	< 0 U	< 0 U	< 0 U	0 B	< 0 U	< 0 U	< 0 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 3 U	< 0 U	< 0 U
Cadmium	10	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U	< 3 U	< 3 U	**18**	< 4 U	< 0 U	< 0 U	< 0 U
Chromium	50	4 B	7 B	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	NA	5 B	< 10 U	< 0 U	2 B
Manganese	7,700	NA	**9320**	NA	NA	NA	2290	NA	NA	2150	NA	NA	NA	1450	2	441
Nickel	350	20 B	21 B	27 B	< 15 U	28 B	23 B	35 B	36 B	23 B	21 B	30 B	24 B	< 40 U	0	6 B
Selenium	10	< 3 U	< 2 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	7	< 5 U	< 5 U	< 5 U	< 0 U	< 2 U
Zinc	7,350	25	17 B	24	29	24	25	41	51	37	54	49	91	19 J	0	30

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-10	NS-11	NS-11	NS-11	NS-11
Sample Date		12/28/2000	3/18/2002	12/2/2002	12/2/2003	12/13/2005	12/12/2006	12/11/2007	12/11/2008	12/21/2009	12/9/2010	11/30/2011	4/4/1993	7/1/1993	10/1/1993	1/1/1994
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	NA	< 0 U	0.36 J	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 5 U	< 10 U	< 25 U	< 500 U
1,1-Dichloroethene	7	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U	< 1 U	< 5 U	< 10 U	< 25 U	< 500 U
1,2-Dichloroethane	5	NA	**13**	**34**	**8**	1.3	0.85 J	1.2	1.4	2	2.9	1.4	< 5 U	**100**	< 25 U	< 500 U
1,2-Dichloropropane	6	NA	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U	< 5 U	< 10 U	< 25 U	< 500 U
Acetone	3,500	NA	< 2 U	< 10 U	14	2.8 J	3.0 J	3.2 J	23	3.6 J	11	11	< 10 U	15	130	**4100**
Benzene	5	NA	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	0.16 J	< 1 U	< 0.5 U	< 5 U	< 10 U	< 25 U	< 500 U
Bromodichloromethane	5	NA	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 5 U	< 10 U	< 25 U	< 500 U
Chloroform	5	NA	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 5 U	< 10 U	< 25 U	< 500 U
Ethylbenzene	3,500	NA	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 0.5 U	95	140	300	< 500 U
Methylene chloride	5	NA	< 0 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.32 U	< 2 U	< 2 U	< 5 U	1 J	4 BJ	NA	NA
Toluene	2,000	NA	< 0 U	< 1 U	0.23 J	0.25 J	0.39 J	< 1 U	< 0.23 U	0.78 UB	0.35	< 0.5 U	61	59	120	< 500 U
Trichloroethene	5	NA	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	0.27 J	0.43 J	0.35 J	0.61	< 0.5 U	< 5 U	< 10 U	< 25 U	< 500 U
Vinyl chloride	2	NA	< 1 U	< 1 U	0.49 J	< 1 U	< 1 U	< 1 U	< 0.29 U	< 1 U	0.36	< 0.5 U	< 10 U	< 10 U	< 25 U	< 500 U
Xylenes (total)	350	NA	< 1 U	< 3 U	< 3 U	< 3 U	0.41 J	< 3 U	< 0.62 U	< 3 U	< 3 U	< 1 U	150	220	**560**	< 500 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 4 U	< 2 U	< 48 U	< 49 U	< 50 U	< 51 U	< 54 U	< 3.8 U	< 47 U	< 48 U	< 19 R	< 56 U	< 26 U	< 26 U	< 26 U
bis(2-Chloroethyl) ether	5	< 2 U	< 1 U	< 9.7 U	< 9.8 U	< 9.9 U	< 10 U	**28**	< 0.26 U	< 1.9 U	**5.8 UB**	< 1.9 U	< 11 U	< 10 U	< 10 U	< 10 U
Metals (µg/L)																
Arsenic	10	NA	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 3 U
Barium	1,000	NA	98 B	121 B	92.3 B	51.8 JB	48.1 J	53 B	44.9 BJ	52.8 J	77	97	115 B	190 B	86 B	143 B
Beryllium	17.5	NA	< 0 U	0.79 B	1.7 B J	< 4 U	1.1 JB	< 4 U	0.32 BJ	< 4 U	< 4 U	< 4 U	< 1 U	2 B	< 0 U	< 0 U
Cadmium	10	NA	< 0 U	0.48 B J	< 5 U	< 5 U	< 5 U	< 5 U	0.23 B	< 5 U	0.13	0.90 UB	< 5 U	< 5 U	< 2 U	< 2 U
Chromium	50	NA	2 B	1.4 B	9.3	2.8 J	1.3 J	1.8 B	5.7	2.9 J	0.96	6.4 UB	< 10 U	36	17	4 B
Manganese	7,700	NA	1860	3050	5680	5430 B	5490	4470	4900	3200	4310	4600	63	118	NA	NA
Nickel	350	NA	15 B	90.3	64.3	18.5 J	13.7 J	10.4 B	18.4 B	10.4 J	12.2	20	< 20 U	28 B	35 B	< 10 U
Selenium	10	NA	< 3 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2.9 U	< 5 U	< 5 U	3.6 UJ	< 2 U	< 2 U	< 2 U	< 2 U
Zinc	7,350	NA	9 B	11.9 B	9.8 B	13.5 J	9.2 JB	4.4 B	15.2 BJ	11.4 UB	8.9	14 UB	32	37	15 B	7 B

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID / Sample Date	OU1 ROD Performance Standard	NS-11 4/1/1994	NS-11 7/1/1994	NS-11 10/1/1994	NS-11 1/1/1995	NS-11 4/1/1995	NS-11 7/1/1995	NS-11 10/1/1995	NS-11 1/1/1996	NS-11 4/1/1996	NS-11 7/1/1996	NS-11 10/1/1996	NS-11 1/1/1997	NS-11 4/1/1997	NS-11 7/1/1997	NS-11 10/1/1997
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	NA	< 10 U	< 10 U	< 10 U	< 10 U
1,1-Dichloroethene	7	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
1,2-Dichloroethane	5	**8**	< 5 U	< 5 U	< 5 U	< 5 U	**6**	5	**9**	< 5 U	**11**	**34**	**400 D**	3 J	**170 D**	**260 D**
1,2-Dichloropropane	6	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	3,500	44 B	29	54	21	< 10 U	< 10 U	17	< 10 U	< 10 U	7 J	< 10 U	6 BJ	22 B	32 DBJ	14
Benzene	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Bromodichloromethane	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Chloroform	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	2 J
Ethylbenzene	3,500	< 10 U	91	40	120	76	98	57	62	81	100	92	140	20	5 J	22
Methylene chloride	5	< 5 U	**8 B**	< 5 U	2 BJ	**7 B**	< 5 U	< 5 U	2 BJ	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Toluene	2,000	7 J	13	6 J	23	11	15	6 J	6	11	12	19	28	5 J	7 J	29
Trichloroethene	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Vinyl chloride	2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Xylenes (total)	350	100	110	50	120	44	66	22	21	46	50	140	180	35	4 J	42
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 27 U	< 27 U	< 26 U	< 26 U	< 27 U	< 28 U	< 25 U	< 25 U	< 120 U	< 25 U	< 25 U	< 26 U	< 25 U	< 26 U	< 26 U
bis(2-Chloroethyl) ether	5	< 11 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	< 5 U	< 10 U	< 50 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 11 U
Metals (µg/L)																
Arsenic	10	< 3 U	< 2 U	< 2 U	2 B	< 3 U	2 B	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	< 7 U	< 6 U
Barium	1,000	134 B	127 B	151 B	169 B	140 B	237	99 B	156 B	136 B	144 B	301	124 B	199 B	576	178 B
Beryllium	17.5	< 0 U	< 0 U	< 0 U	< 0 U	0 B	1 B	< 0 U	< 0 U	< 0 U	< 0 U	1 B	< 2 U	< 2 U	< 2 U	< 1 U
Cadmium	10	< 1 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U	< 3 U	< 3 U	< 4 U
Chromium	50	< 3 U	< 2 U	4 B	< 4 U	< 2 U	5 B	< 2 U	7 B	< 5 U	< 5 U	34	< 5 U	8 B	**57**	NA
Manganese	7,700	47	NA	83	124	NA	NA	NA	NA	NA	44	NA	NA	889	NA	136
Nickel	350	6 B	< 7 U	10 B	16 B	< 6 U	12 B	< 9 U	< 15 U	< 15 U	< 15 U	41	< 20 U	22 B	64	16 B
Selenium	10	< 3 U	< 3 U	< 3 U	< 1 U	< 3 U	4 B	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	5	< 5 U	< 5 U	< 5 U
Zinc	7,350	3 B	13 B	28	39	13 B	41	< 5 U	8 B	10 B	4 B	65	12 B	22	127	31

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-11	NS-11	NS-11	NS-11	NS-11	NS-11	NS-11	NS-11	NS-11	NS-11	NS-11	NS-15	NS-15	NS-15	NS-15
Sample Date		1/1/1998	9/8/1998	12/20/1999	12/14/2000	3/18/2002	12/2/2002	12/2/2003	12/15/2005	12/12/2006	12/11/2007	12/11/2008	4/4/1993	7/1/1993	10/1/1993	1/1/1994
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 10 U	NA	< 1 U	< 2 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	NA	< 10 U	< 67 U	< 50 U
1,1-Dichloroethene	7	< 10 U	NA	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	NA	< 10 U	< 67 U	< 50 U
1,2-Dichloroethane	5	**24**	NA	< 1 U	< 2 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.21 U	NA	**440 D**	**530**	**480**
1,2-Dichloropropane	6	< 10 U	NA	< 1 U	< 2 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	NA	2 J	< 67 U	< 50 U
Acetone	3,500	< 10 U	NA	16	< 4 U	< 2 U	< 10 U	< 10 U	1.2 JB	< 10 U	< 10 U	< 2.5 U	NA	< 10 U	< 67 U	< 50 U
Benzene	5	< 10 U	NA	< 1 U	< 2 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	NA	< 10 U	< 67 U	< 50 U
Bromodichloromethane	5	< 10 U	NA	< 1 U	< 2 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	NA	< 10 U	< 67 U	< 50 U
Chloroform	5	< 10 U	NA	< 1 U	< 2 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	NA	< 10 U	< 67 U	< 50 U
Ethylbenzene	3,500	54	NA	6	8 D	2	< 1 U	< 1 U	< 1 U	< 1 U	0.13 J	< 0.18 U	NA	< 10 U	< 67 U	< 50 U
Methylene chloride	5	< 10 U	NA	< 1 U	1 JBD	< 0 U	< 2 U	< 2 U	1.4 B	< 2 U	< 2 U	< 0.32 U	NA	3 BJ	NA	NA
Toluene	2,000	9 J	NA	3	6 D	1	< 1 U	< 1 U	0.22 J	< 1 U	< 1 U	< 0.23 U	NA	23	18 J	< 50 U
Trichloroethene	5	< 10 U	NA	< 1 U	< 2 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.29 U	NA	< 10 U	< 67 U	< 50 U
Vinyl chloride	2	< 10 U	NA	< 1 U	< 2 U	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 0.29 U	NA	**18**	< 67 U	< 50 U
Xylenes (total)	350	110	NA	NA	35 D	9	1.1 J	< 3 U	< 2 U	< 3 U	0.33 J	< 0.62 U	NA	1 J	< 67 U	< 50 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 26 U	NA	< 50 U	< 51 U	< 2 U	< 50 U	< 48 U	< 48 U	< 52 U	< 55 U	< 3.9 U	< 54 U	< 25 U	< 110 U	< 26 U
bis(2-Chloroethyl) ether	5	< 10 U	NA	< 10 U	< 10 U	< 1 U	< 10 U	< 9.6 U	< 9.5 U	< 10 U	0.93 J	< 0.26 U	< 11 U	< 10 U	< 42 U	< 10 U
Metals (µg/L)																
Arsenic	10	< 6 U	< 5 U	< 0 U	< 2 U	3 B	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 5 U	< 6 U
Barium	1,000	178 B	113	0	80 B	73 B	91.5 B	249	325 B	313	239	185 BJ	448	445	444	416
Beryllium	17.5	< 1 U	< 3 U	< 0 U	< 0 U	< 0 U	< 4 U	2.8 B J	< 4 U	1.5 JB	0.42 JB	0.68 BJ	< 1 U	1 B	< 0 U	< 0 U
Cadmium	10	< 4 U	< 0 U	< 0 U	< 0 U	< 0 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0.21 U	< 5 U	< 5 U	< 2 U	< 2 U
Chromium	50	< 4 U	< 10 U	0	< 1 U	1 B	< 5 U	2.2 B	1.2 J	< 5 U	< 5 U	< 1.1 U	12	11	4 B	4 B
Manganese	7,700	NA	43	0	91	117	121	2000	478 B	504	151	185	NA	NA	**15100**	NA
Nickel	350	< 16 U	< 40 U	0	2 B	< 2 U	1.8 B	4 B	3.3 J	2.8 J	4.5 B	4.8 B	< 20 U	< 20 U	10 B	< 10 U
Selenium	10	< 5 U	< 5 U	< 0 U	< 2 U	< 3 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2.9 U	< 2 U	< 2 U	< 5 U	< 3 U
Zinc	7,350	30	5 J	0	< 9 U	< 4 U	5.8 B	5.1 B	5.4 J	21.9 B	< 20 U	4.7 BJ	14 B	13 B	< 2 U	< 2 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15
Sample Date	Standard	4/1/1994	7/1/1994	10/1/1994	1/1/1995	4/1/1995	7/1/1995	10/1/1995	1/1/1996	4/1/1996	7/1/1996	10/1/1996	1/1/1997	4/1/1997	7/1/1997	10/1/1997
Volatile Organic Compounds (µg/L)																	
1,1,2-Trichloroethane	5	< 12 U	< 25 U	< 5 U	< 12 U	< 5 U	< 5 U	< 8 U	< 10 U	< 5 U	< 10 U	NA	< 10 U	< 10 U	< 10 U	< 10 U
1,1-Dichloroethene	7	< 18 U	< 35 U	< 7 U	< 18 U	< 7 U	< 7 U	< 12 U	< 10 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
1,2-Dichloroethane	5	**400**	**380**	**380 E**	**370**	**330 D**	**250 D**	**260**	**250**	**210 E**	**67**	**150**	**190**	**120**	**160 D**	**160**
1,2-Dichloropropane	6	< 15 U	< 30 U	< 6 U	< 15 U	< 6 U	< 6 U	< 10 U	< 10 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	3,500	< 25 U	530	18 B	< 25 U	< 10 U	120	27	< 20 U	5 J	8 J	< 10 U	15 B	< 10 U	40 B	7 J
Benzene	5	< 12 U	< 25 U	< 5 U	< 12 U	< 5 U	< 5 U	< 8 U	< 10 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Bromodichloromethane	5	< 12 U	< 25 U	< 5 U	< 12 U	< 5 U	< 5 U	< 8 U	< 10 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Chloroform	5	< 12 U	< 25 U	< 5 U	< 12 U	< 5 U	< 5 U	< 8 U	< 10 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Ethylbenzene	3,500	< 25 U	< 50 U	< 10 U	< 25 U	< 10 U	< 10 U	< 17 U	< 10 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methylene chloride	5	< 12 U	**24 BJ**	**11 B**	< 12 U	5 B	< 5 U	**7 BJ**	3 BJ	2 J	2 J	1 J	< 10 U	< 10 U	< 10 U	< 10 U
Toluene	2,000	13 J	17 J	10	10 J	8 J	5 J	9 J	11	15	2 J	6 J	5 J	4 J	10	8 J
Trichloroethene	5	< 12 U	< 25 U	< 5 U	< 12 U	< 5 U	< 5 U	< 8 U	< 10 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Vinyl chloride	2	< 5 U	< 10 U	< 2 U	**6**	**4**	**4**	**5**	< 20 U	< 10 U	< 10 U	< 10 U	**3 J**	2 J	2 J	< 10 U
Xylenes (total)	350	< 25 U	< 50 U	< 10 U	< 25 U	< 10 U	< 10 U	< 17 U	< 10 U	< 5 U	< 10 U	1 J	< 10 U	< 10 U	< 10 U	< 10 U
Semi-Volatile Organic Compounds (µg/L)																	
4-Nitrophenol	350	< 54 U	< 110 U	< 51 U	< 54 U	< 28 U	< 27 U	< 26 U	< 25 U	< 120 U	< 50 U	< 25 U	< 26 U	< 25 U	< 26 U	< 26 U
bis(2-Chloroethyl) ether	5	< 22 U	< 21 U	< 10 U	< 11 U	< 6 U	< 5 U	< 5 U	< 10 U	< 50 U	< 20 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Metals (µg/L)																	
Arsenic	10	< 5 U	< 2 U	4 B	< 1 U	< 3 U	< 2 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	< 7 U	< 6 U
Barium	1,000	418	461	370	364	428	387	452	432	533	296	405	398	342	506	467
Beryllium	17.5	0 B	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 2 U	< 2 U	< 2 U	< 1 U
Cadmium	10	< 1 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U	< 3 U	< 3 U	< 4 U
Chromium	50	< 3 U	4 B	4 B	< 4 U	< 2 U	< 3 U	< 2 U	9 B	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	NA
Manganese	7,700	NA	NA	NA	NA	NA	NA	**16200**	**14200**	NA	**8670**	**13800**	NA	**11800**	NA	**15500**
Nickel	350	< 6 U	< 7 U	7 B	< 10 U	< 6 U	< 7 U	< 9 U	< 15 U	< 15 U	< 15 U	< 15 U	< 20 U	< 20 U	< 20 U	< 16 U
Selenium	10	< 5 U	< 3 U	< 3 U	< 1 U	< 3 U	< 2 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	7	< 5 U	9	**11**
Zinc	7,350	< 1 U	< 4 U	< 4 U	< 4 U	< 6 U	< 3 U	< 5 U	4 B	6 B	2 B	31	12 B	< 5 U	15 B	< 15 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15	NS-15
Sample Date		1/1/1998	9/8/1998	12/20/1999	12/14/2000	3/18/2002	12/2/2002	12/2/2003	12/15/2005	12/15/2005	12/12/2006	12/17/2007	12/12/2008	12/12/2008	12/22/2009	12/8/2010
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 10 U	NA	< 1 U	< 10 U	< 0 U	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 10 U	NA	< 1 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 0.28 U	< 0.28 U	< 1 U	< 1 U
1,2-Dichloroethane	5	**100**	NA	**69**	**76 D**	**27**	**17**	**9.2**	4.1	NA	**5.3**	**6.2**	4.4	4.5	< 1 U	0.86
1,2-Dichloropropane	6	< 10 U	NA	2	< 10 U	< 0 U	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 0.18 U	< 0.18 U	< 1 U	< 1 U
Acetone	3,500	9 JB	NA	120	< 20 U	< 2 U	< 10 U	< 10 U	< 10 U	NA	< 10 U	4.3 J	< 2.5 U	< 2.5 U	5.5 J	< 10 U
Benzene	5	< 10 U	NA	< 1 U	< 10 U	< 0 U	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 0.27 U	< 0.27 U	< 1 U	< 1 U
Bromodichloromethane	5	< 10 U	NA	< 1 U	< 10 U	< 0 U	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 0.2 U	< 0.2 U	< 1 U	< 1 U
Chloroform	5	< 10 U	NA	< 1 U	< 10 U	< 0 U	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 0.24 U	< 0.24 U	< 1 U	< 1 U
Ethylbenzene	3,500	< 10 U	NA	< 1 U	< 10 U	< 0 U	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 0.18 U	< 0.18 U	< 1 U	< 1 U
Methylene chloride	5	< 10 U	NA	**9**	**8 JBD**	< 0 U	< 2 U	< 2 U	1.5 B	NA	< 2 U	0.19 J	< 0.32 U	< 0.32 U	< 2 U	0.18
Toluene	2,000	3 J	NA	3	13 D	1 J	< 1 U	0.88 J	1.4	NA	1.1	< 1 U	1.6	1.5	3.0 UB	7.2
Trichloroethene	5	< 10 U	NA	< 1 U	< 10 U	< 0 U	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 0.29 U	< 0.29 U	< 1 U	< 1 U
Vinyl chloride	2	< 10 U	NA	1	< 10 U	< 1 U	< 1 U	< 2 U	< 1 U	NA	< 1 U	< 1 U	< 0.29 U	< 0.29 U	< 1 U	0.34
Xylenes (total)	350	< 10 U	NA	NA	< 10 U	< 1 U	< 3 U	< 3 U	< 2 U	NA	< 3 U	< 3 U	< 0.62 U	< 0.62 U	< 3 U	< 3 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 26 U	NA	< 50 U	< 52 U	< 2 U	< 49 U	< 48 U	< 47 U	< 94 U	< 99 U	< 55 U	< 4 U	< 4 U	< 48 U	< 48 U
bis(2-Chloroethyl) ether	5	< 11 U	NA	< 10 U	< 10 U	< 1 U	< 9.8 U	< 9.6 U	**90 E**	**88**	< 20 U	< 11 U	< 0.27 U	< 0.27 U	< 1.9 U	< 1.9 U
Metals (µg/L)																
Arsenic	10	< 6 U	< 5 U	< 0 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	NA	< 10 U	< 10 U	< 2 U	< 2 U	< 10 U	< 10 U
Barium	1,000	365	125	< 0 U	364	305	265	236	240 B	NA	164 J	143 B	122 B	121 B	102 J	171
Beryllium	17.5	< 1 U	< 3 U	< 0 U	< 0 U	< 0 U	< 4 U	< 5 U	< 4 U	NA	1.4 JB	0.42 JB	< 0.18 U	< 0.18 U	< 4 U	< 4 U
Cadmium	10	< 4 U	< 0 U	< 0 U	< 0 U	< 0 U	< 5 U	0.54 B	< 5 U	NA	< 5 U	< 5 U	< 0.21 U	< 0.21 U	< 5 U	< 5 U
Chromium	50	< 4 U	< 10 U	< 0 U	3 B	4 B	2.7 B	3.1 B J	2.7 J	NA	< 5 U	1.4 B	1.6 B	< 1.1 U	0.94 J	< 5 U
Manganese	7,700	NA	3980	14	**13100**	**10600**	**9220**	**8590**	**9270 B**	NA	6370	5310	4520	4510	2810	5960
Nickel	350	< 16 U	< 40 U	< 0 U	< 1 U	2 B	< 40 U	1.2 B	< 40 U	NA	1.3 J	< 40 U	1.2 B	1.3 B	1.6 J	< 40 U
Selenium	10	9	< 5 U	< 0 U	3 B	< 3 U	< 5 U	< 5 U	< 5 U	NA	< 5 U	< 5 U	< 2.9 U	< 2.9 U	< 5 U	< 5 U
Zinc	7,350	< 15 U	< 20 U	< 0 U	< 9 U	< 4 U	< 20 U	2 B	4.7 J	NA	9.4 JB	4.8 JB	16.9 BJ	26.2 J	3.9 UB	< 20 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-15	NS-16	NS-16	NS-16	NS-17	NS-17	NS-17	NS-17	NS-21	NS-21	NS-21	NS-21	NS-22	NS-22	NS-22
Sample Date		11/30/2011	2/17/2000	2/17/2000	8/25/2011	2/18/2000	12/21/2009	12/9/2010	11/29/2011	2/17/2000	12/17/2009	12/9/2010	12/2/2011	2/22/2000	12/15/2009	12/14/2010
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1 U	< 0.4 U	NA	< 750 UH	< 2000 U	< 15000 U	< 10000 U	< 250 U	< 0.4 U	< 1 U	< 2.5 U	< 2 U	< 0.4 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 1 U	< 0.4 U	NA	< 750 UH	< 2000 U	< 15000 U	< 10000 U	< 250 U	< 0.4 U	< 1 U	< 2.5 U	< 2 U	< 0.4 U	< 1 U	< 1 U
1,2-Dichloroethane	5	< 1 U	**13000**	NA	**1,700 H**	**5000000 DE**	**270000**	**300000**	**280000**	< 0.3 U	< 1 U	< 2.5 U	< 2 U	< 0.3 U	< 1 U	< 1 U
1,2-Dichloropropane	6	< 1 U	**15000**	NA	< 750 UH	**3600 D**	< 15000 U	< 10000 U	**120 J**	2	< 1 U	< 2.5 U	< 2 U	< 3 U	< 1 U	< 1 U
Acetone	3,500	< 5 U	< 1 U	NA	**23,000 H**	**95000 D**	**75000 J**	**73000**	**72000**	< 1 U	17	62	9.4 J	< 1 U	< 10 U	< 10 U
Benzene	5	< 0.5 U	< 0.3 U	NA	< 750 UH	< 1500 U	< 15000 U	< 10000 U	< 130 U	**7**	4.1	**6.2**	3.9	< 0.3 U	< 1 U	< 1 U
Bromodichloromethane	5	< 1 U	< 0.3 U	NA	< 750 UH	< 1500 U	< 15000 U	< 10000 U	< 250 U	< 0.3 U	< 1 U	< 2.5 U	< 2 U	< 0.3 U	< 1 U	< 1 U
Chloroform	5	< 1 U	**220 E**	**3000 D**	< 750 UH	< 1500 U	< 15000 U	< 10000 U	< 250 U	< 0.3 U	< 1 U	< 2.5 U	< 2 U	< 0.3 U	< 1 U	< 1 U
Ethylbenzene	3,500	< 0.5 U	1600 E	NA	170 JH	< 1500 U	< 15000 U	< 10000 U	230	20	4.2	34	41	< 0.3 U	< 1 U	< 1 U
Methylene chloride	5	< 5 U	< 0.5 U	NA	< 750 UH	< 2500 U	< 30000 U	< 20000 U	< 1300 U	< 0.5 U	< 2 U	< 5 U	< 10 U	< 0.5 U	< 2 U	< 2 U
Toluene	2,000	10	**3400 E**	NA	1,300 H	**41000 D**	**29000 UB**	**38000**	**41000**	71 E	15	46	22	< 0.3 U	< 1 U	< 1 U
Trichloroethene	5	< 0.5 U	< 0.3 U	NA	< 750 UH	< 1500 U	< 15000 U	< 10000 U	< 130 U	< 0.3 U	< 1 U	< 2.5 U	< 1 U	< 0.3 U	< 1 U	< 1 U
Vinyl chloride	2	< 0.5 U	**160**	NA	< 750 UH	< 2000 U	< 15000 U	< 10000 U	< 130 U	< 0.4 U	< 1 U	< 2.5 U	< 1 U	< 0.4 U	< 1 U	< 1 U
Xylenes (total)	350	< 1 U	**3700 E**	NA	**620 JH**	< 2500 U	< 45000 U	< 30000 U	**500**	49	19	38	17	< 0.5 U	< 3 U	< 3 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 19 U	< 20 U	NA	**5,300**	< 20 U	< 47 R	< 190 U	< 1900 UJ	< 4 U	< 47 U	< 48 U	< 200 R	< 4 U	< 48 U	< 47 U
bis(2-Chloroethyl) ether	5	< 1.9 U	**42000 E**	NA	**880 J**	**21**	< 1.9 UJ	< 7.6 U	< 190 UJ	**4800 D**	**2800**	**7800**	**8200**	**9.1**	**12**	**9.9**
Metals (µg/L)																
Arsenic	10	< 10 U	2.3 B	NA	< 10 U	< 1.7 U	4.4 J	< 10 U	< 10 U	< 1.7 U	< 10 U	< 10 U	< 10 U	< 1.7 U	< 10 U	3.4
Barium	1,000	220	23.2 B	NA	17 JB	176 B	479	443	250	598	170 J	174	130	86 B	188 J	177
Beryllium	17.5	< 4 U	**29.7 N**	NA	0.77 J	< 0.1 U	0.39 J	< 4 U	< 4 U	< 0.1 U	< 4 U	< 4 U	< 4 U	< 0.1 U	< 4 U	< 4 U
Cadmium	10	1.3 UB	8.4 N	NA	0.27 J	2 BN	**75.1**	7	1.2 J	< 0.2 U	< 5 U	0.36	0.74 J	< 0.2 U	< 5 U	< 5 U
Chromium	50	< 10 U	**103 N**	NA	< 25 U	11 N	**70.3**	**53**	5.9 J	13.4 N	1.8 J	3.3	< 10 U	7 B	**186**	**1500**
Manganese	7,700	7700	< 2.4 U	NA	**87,000 B**	**62300**	**18500**	**26500**	**14000**	**62000**	5200	3800	2900	641	2000	2630
Nickel	350	1.3 J	**1660 N**	NA	93	**1080 N**	**1580**	**1410**	**1100**	< 2.4 U	3.0 J	16.6	< 10 U	27.7 B	50.9	80.9
Selenium	10	2.9 UJ	**148**	NA	< 25 U	**38.5**	9.8	< 25 U	**14 UJ**	**28.6**	< 5 U	4.8	4.3 UB	2.3 B	< 5 U	< 5 U
Zinc	7,350	6.3 UB	**8610**	NA	140	92.6	2360	209	13 UB	26.2	10.4 UB	20.4	4.8 UB	< 1.7 U	5.0 J	4.2

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-22	NS-25	NS-26	NS-26	NS-26	NS-27	NS-27	NS-27	NS-27	NS-27	NS-27	NS-27	NS-28	NS-29	NS-29
Sample Date		11/29/2011	2/16/2000	2/22/2000	12/15/2010	12/7/2011	2/18/2000	7/7/2009	7/7/2009	7/7/2009	7/7/2009	7/7/2009	7/7/2009	2/17/2000	1/1/1993	4/4/1993
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1 U	< 0.4 U	< 100 U	< 10000 U	< 2000 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 800 U	< 5 U	< 5 U
1,1-Dichloroethene	7	< 1 U	< 0.4 U	< 100 U	< 10000 U	< 2000 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 800 U	< 5 U	< 5 U
1,2-Dichloroethane	5	< 1 U	< 0.3 U	**350 D**	**8900**	**5100**	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**210000 DE**	**110**	**22**
1,2-Dichloropropane	6	< 1 U	< 0.3 U	**160 D**	**17000**	**3300**	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**1500 D**	**350 D**	**46**
Acetone	3,500	7	< 1 U	**20000 DE**	**420000**	**770000**	< 1 U	5.7 J	4.7 J	4.4 J	4.7 J	3.7 J	3.4 J	**79000 D**	**12000 D**	< 10 U
Benzene	5	< 0.5 U	< 0.3 U	< 75 U	< 10000 U	< 1000 U	1	0.84 J	0.80 J	0.77 J	1	0.77 J	0.72 J	< 600 U	< 5 U	< 5 U
Bromodichloromethane	5	< 1 U	< 0.3 U	< 75 U	< 10000 U	< 2000 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 600 U	< 5 U	< 5 U
Chloroform	5	< 1 U	< 0.3 U	< 75 U	< 10000 U	< 2000 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 600 U	< 5 U	< 5 U
Ethylbenzene	3,500	< 0.5 U	< 0.3 U	< 75 U	< 10000 U	680 J	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 600 U	< 5 U	< 5 U
Methylene chloride	5	< 5 U	< 0.5 U	< 120 U	< 20000 U	< 10000 U	< 0 U	< 2 U	< 2 U	< 2 U	< 2 U	0.20 J	0.16 J	< 1000 U	3 BJ	2 J
Toluene	2,000	< 0.5 U	< 0.3 U	610 D	**6400**	**8100**	1	0.30 J	0.31 J	0.34 J	0.41 J	0.28 J	0.30 J	**11000 D**	60	6
Trichloroethene	5	< 0.5 U	< 0.3 U	< 75 U	< 10000 U	< 1000 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 600 U	< 5 U	< 5 U
Vinyl chloride	2	< 0.5 U	< 0.4 U	< 100 U	< 10000 U	< 1000 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 800 U	< 10 U	< 10 U
Xylenes (total)	350	< 1 U	< 0.5 U	< 120 U	< 30000 U	**1600 J**	< 0 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 1000 U	12	2 J
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 20 U	< 4 U	< 80 U	< 9400 J	< 2100 UJ	< 4 U	NA	NA	NA	NA	NA	NA	< 20 U	< 52 U	< 54 U
bis(2-Chloroethyl) ether	5	**28**	< 2 U	**1400 D**	**16000 J**	**26000 J**	**15**	NA	NA	NA	NA	NA	NA	**110**	**190**	**52**
Metals (µg/L)																
Arsenic	10	< 10 U	< 1.7 U	< 1.7 U	8.4	**12**	< 2 U	NA	NA	NA	NA	NA	NA	< 2 U	< 2 U	< 2 U
Barium	1,000	360	29 B	**1240**	607	**1900**	99 B	NA	NA	NA	NA	NA	NA	202	182 B	87 B
Beryllium	17.5	< 4 U	< 0.1 U	< 0.1 U	< 4 U	< 4 U	< 0 U	NA	NA	NA	NA	NA	NA	< 0 U	< 1 U	< 1 U
Cadmium	10	1.5 J	< 0.2 U	< 0.2 U	0.41	1.4 J	< 0 U	NA	NA	NA	NA	NA	NA	8 N	< 5 U	< 5 U
Chromium	50	**800**	2 BN	6 B	< 50 U	30	< 1 U	NA	NA	NA	NA	NA	NA	34 N	11	14
Manganese	7,700	**8300**	77	**49400**	**142000 J**	**110000**	2180	NA	NA	NA	NA	NA	NA	**233000**	NA	NA
Nickel	350	110	3 BN	< 2 U	157	170	< 2 U	NA	NA	NA	NA	NA	NA	278 N	< 20 U	< 20 U
Selenium	10	4.8 UJ	3 B	**17**	< 50 U	**46**	5 B	NA	NA	NA	NA	NA	NA	**87**	< 2 U	< 2 U
Zinc	7,350	9.9 UB	7 B	< 2 U	4.8	4.5 J	< 2 U	NA	NA	NA	NA	NA	NA	141	10 B	17 B

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29
Sample Date		7/1/1993	10/1/1993	1/1/1994	4/1/1994	7/1/1994	10/1/1994	1/1/1995	4/1/1995	7/1/1995	10/1/1995	1/1/1996	4/1/1996	7/1/1996	10/1/1996	1/1/1997
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 12 U	< 250 U	< 3100 U	< 500 U	< 50 U	< 500 U	< 500 U	< 500 U
1,1-Dichloroethene	7	< 10 U	< 10 U	< 10 U	< 7 U	< 7 U	< 7 U	< 7 U	< 18 U	< 350 U	< 4400 U	< 500 U	< 50 U	< 500 U	< 500 U	< 500 U
1,2-Dichloroethane	5	3 J	3 J	< 10 U	**17**	3 J	**43**	**8**	**37**	**690**	< 3100 U	**860**	**300**	< 500 U	**1200**	**760**
1,2-Dichloropropane	6	5 J	< 10 U	< 10 U	< 6 U	< 6 U	< 6 U	< 6 U	**12 J**	**1000**	**2200 J**	**1600**	**710**	**1900**	**1800**	**1200**
Acetone	3,500	10	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	39	1100 D	**42000 D**	**80000**	**12000**	**6400 E**	**100000 D**	**50000 D**	**39000 DB**
Benzene	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 12 U	< 250 U	< 3100 U	< 500 U	< 50 U	**97 J**	< 500 U	< 500 U
Bromodichloromethane	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 12 U	< 250 U	< 3100 U	< 500 U	< 50 U	< 500 U	< 500 U	< 500 U
Chloroform	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 12 U	< 250 U	< 3100 U	< 500 U	< 50 U	< 500 U	< 500 U	< 500 U
Ethylbenzene	3,500	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 25 U	< 500 U	< 6200 U	< 500 U	< 50 U	< 500 U	< 500 U	< 500 U
Methylene chloride	5	2 BJ	NA	NA	< 5 U	**8 B**	**7 B**	3 BJ	**13 B**	< 250 U	< 3100 U	**150 BJ**	< 50 U	**2200**	**37 J**	< 500 U
Toluene	2,000	3 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 25 U	200 J	< 6200 U	370 J	150	850	440 J	400 J
Trichloroethene	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 12 U	< 250 U	< 3100 U	< 500 U	< 50 U	< 500 U	< 500 U	< 500 U
Vinyl chloride	2	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 5 U	< 100 U	< 1200 U	< 1000 U	< 100 U	< 500 U	< 500 U	< 500 U
Xylenes (total)	350	2 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 25 U	< 500 U	< 6200 U	< 500 U	20 J	110 J	56 J	< 500 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 26 U	< 26 U	< 25 U	< 26 U	< 27 U	< 26 U	< 29 U	< 27 U	< 690 U	< 1300 U	< 25 U	< 120 U	< 250 U	< 250 U	< 260 U
bis(2-Chloroethyl) ether	5	**25**	**18**	**8 J**	**12**	**12**	**17**	**13**	**32**	**450**	**1100**	**590 D**	**250**	**1400 D**	**740**	**810**
Metals (µg/L)																
Arsenic	10	< 2 U	< 2 U	< 3 U	< 3 U	< 2 U	< 2 U	2 B	< 3 U	2 B	< 2 U	< 1 U	< 1 U	2 B	< 1 U	< 7 U
Barium	1,000	81 B	62 B	45 B	64 B	52 B	58 B	64 B	85 B	190 B	**1420**	867	324	**2490**	**1150**	**1360**
Beryllium	17.5	1 B	< 0 U	< 0 U	0 B	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 2 U
Cadmium	10	< 5 U	< 2 U	< 2 U	< 1 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U
Chromium	50	< 10 U	< 3 U	3 B	< 3 U	< 2 U	< 2 U	< 4 U	< 2 U	< 3 U	< 2 U	7 B	< 5 U	< 5 U	< 5 U	6 B
Manganese	7,700	NA	NA	153	NA	NA	NA	NA	NA	611	NA	NA	1780	**8560**	NA	NA
Nickel	350	< 20 U	< 8 U	< 10 U	< 6 U	< 7 U	< 7 U	< 10 U	< 6 U	< 7 U	< 9 U	< 15 U	< 15 U	< 15 U	< 15 U	< 20 U
Selenium	10	< 2 U	< 2 U	< 2 U	< 3 U	< 3 U	< 3 U	< 1 U	< 3 U	3 B	< 1 U	< 3 U	< 1 U	< 2 U	< 2 U	< 5 U
Zinc	7,350	11 B	3 B	5 B	2 B	12 B	6 B	4 B	< 6 U	< 3 U	< 5 U	< 2 U	7 B	3 B	19 B	10 B

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29
Sample Date		4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	12/20/1999	2/23/2000	12/13/2000	3/19/2002	3/19/2002	12/2/2002	12/2/2003	12/12/2005	12/12/2005	12/11/2007
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 500 U	< 500 U	< 500 U	< 500 U	NA	< 1 U	< 2000 U	< 1000 U	< 44 U	< 2200 U	< 50 U	< 750 U	< 100 U	NA	< 100 U
1,1-Dichloroethene	7	< 500 U	< 500 U	< 500 U	< 500 U	NA	4	< 2000 U	< 1000 U	< 51 U	< 2600 U	< 50 U	< 750 U	< 100 U	NA	< 100 U
1,2-Dichloroethane	5	**680**	**1900**	**1700**	**2300**	NA	**3500**	**6000 D**	< 1000 U	< 49 U	< 2400 U	< 50 U	< 750 U	< 100 U	NA	< 100 U
1,2-Dichloropropane	6	**980**	**2500**	**2700**	**2700**	NA	**3100**	< 1500 U	< 1000 U	< 46 U	< 2300 U	< 50 U	< 750 U	< 100 U	NA	< 100 U
Acetone	3,500	**37000 DB**	**100000 DB**	**59000 D**	**93000 DB**	NA	**110000**	**850000 DE**	< 2000 U	**250000 E**	**220000**	**1900000**	**34000**	< 1000 U	NA	< 1000 U
Benzene	5	< 500 U	< 500 U	< 500 U	< 500 U	NA	< 1 U	< 1500 U	< 1000 U	< 40 U	< 2000 U	< 50 U	< 750 U	< 100 U	NA	< 100 U
Bromodichloromethane	5	< 500 U	< 500 U	< 500 U	< 500 U	NA	< 1 U	< 1500 U	< 1000 U	< 30 U	< 1500 U	< 50 U	< 750 U	< 100 U	NA	< 100 U
Chloroform	5	< 500 U	< 500 U	< 500 U	< 500 U	NA	< 1 U	< 1500 U	< 1000 U	< 49 U	< 2400 U	< 50 U	< 750 U	< 100 U	NA	< 100 U
Ethylbenzene	3,500	< 500 U	< 500 U	< 500 U	< 500 U	NA	68	1500	< 1000 U	140	< 2400 U	180	< 750 U	130	NA	110
Methylene chloride	5	< 500 U	< 500 U	**89 J**	< 500 U	NA	**14**	< 2500 U	**2000 BD**	< 36 U	< 1800 U	**13 J**	< 1500 U	< 200 U	NA	< 200 U
Toluene	2,000	260 J	910	1100	950	NA	1400	**7400 D**	**5500 D**	**3300**	**2600 J**	**3900**	**2400**	**3600**	NA	**2300**
Trichloroethene	5	< 500 U	< 500 U	< 500 U	< 500 U	NA	< 1 U	< 1500 U	< 1000 U	< 39 U	< 2000 U	< 50 U	< 750 U	< 100 U	NA	< 100 U
Vinyl chloride	2	< 500 U	< 500 U	< 500 U	< 500 U	NA	**6**	< 2000 U	< 1000 U	< 60 U	< 3000 U	< 50 U	< 1500 U	< 100 U	NA	< 100 U
Xylenes (total)	350	< 500 U	110 J	160 J	130 J	NA	NA	< 2500 U	**1200 D**	**650**	< 4800 U	**750**	< 2200 U	**490**	NA	**400**
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 250 U	< 250 U	< 260 U	< 130 U	NA	< 50 U	< 160 U	< 160 U	< 18 U	< 360 U	< 490 U	< 960 U	< 4700 U	< 47 U	< 54 U
bis(2-Chloroethyl) ether	5	**410**	**1400 D**	**1400 D**	**2400 D**	NA	**3800**	**8600 ED**	**2700 D**	**8100 E**	**9900**	**8900**	**8400**	**2600 E**	**6800**	**4600 E**
Metals (µg/L)																
Arsenic	10	< 7 U	< 7 U	< 6 U	< 6 U	< 5 U	< 0 U	5 B	9 B	**18**	NA	**12.6**	**20.3**	**29.8**	NA	**28.5**
Barium	1,000	720	**1800**	**2110**	**1600**	636	2	**5230**	**8530**	**10700**	NA	**12800**	**8810**	**5580 B**	NA	**2890**
Beryllium	17.5	< 2 U	< 2 U	< 1 U	< 1 U	2 J	< 0 U	< 0 U	< 0 U	< 0 U	NA	< 4 U	< 5 U	< 4 U	NA	< 4 U
Cadmium	10	< 3 U	< 3 U	4 B	< 4 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	NA	< 5 U	0.55 B	< 5 U	NA	< 5 U
Chromium	50	< 5 U	< 5 U	4 B	< 4 U	9 J	0	30	37	27	NA	28	22.9 J	17.2	NA	23
Manganese	7,700	3710	**12000**	NA	NA	**13600**	4	**143000**	**117000**	**104000**	NA	**80800**	**47400**	**33900 B**	NA	**18800**
Nickel	350	< 20 U	< 20 U	< 16 U	< 16 U	< 40 U	0	31 B	47	45	NA	44.8	39.2 B	38.6 J	NA	34.8 B
Selenium	10	7	< 5 U	< 5 U	**13**	6	0	**49**	**51**	**44**	NA	< 25 U	**15.3 B**	**18.3 J**	NA	6.1
Zinc	7,350	< 5 U	22	< 15 U	< 15 U	< 20 U	0	3 B	24	5 B	NA	4.6 B	5.3 B	4.9 J	NA	6.6 B

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-29	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30
Sample Date	Standard	12/11/2007	12/11/2007	12/16/2008	7/7/2009	7/7/2009	7/7/2009	12/15/2009	12/13/2010	11/29/2011	1/1/1993	4/4/1993	7/1/1993	10/1/1993	1/1/1994	4/1/1994
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 100 U	NA	< 20 U	< 1 U	< 50 U	< 50 U	< 100 U	< 50 U	< 1 U	< 120 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U
1,1-Dichloroethene	7	< 100 U	NA	< 28 U	< 1 U	< 50 U	< 50 U	< 100 U	< 50 U	< 1 U	< 120 U	< 5 U	< 10 U	< 10 U	< 10 U	< 7 U
1,2-Dichloroethane	5	< 100 U	NA	< 21 U	< 1 U	< 50 U	< 50 U	< 100 U	< 50 U	< 1 U	**79 J**	**8**	**56**	< 10 U	< 10 U	4 J
1,2-Dichloropropane	6	< 100 U	NA	< 18 U	< 1 U	< 50 U	< 50 U	< 100 U	< 50 U	< 1 U	**190**	**23**	**97**	< 10 U	< 10 U	< 6 U
Acetone	3,500	< 1000 U	NA	< 250 U	10	< 500 U	< 500 U	< 1000 U	< 500 U	< 5 U	2900	< 10 U	11	< 10 U	< 10 U	< 10 U
Benzene	5	< 100 U	NA	< 27 U	1.2	< 50 U	**6.7 J**	< 100 U	< 50 U	< 0.5 U	< 120 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U
Bromodichloromethane	5	< 100 U	NA	< 20 U	< 1 U	< 50 U	< 50 U	< 100 U	< 50 U	< 1 U	< 120 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U
Chloroform	5	< 100 U	NA	< 24 U	< 1 U	< 50 U	< 50 U	< 100 U	< 50 U	< 1 U	< 120 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U
Ethylbenzene	3,500	110	NA	110	0.45 J	56	85	38 J	21	< 0.5 U	< 120 U	< 5 U	1 J	< 10 U	< 10 U	< 10 U
Methylene chloride	5	< 200 U	NA	< 32 U	< 2 U	< 100 U	**8.5 J**	< 200 U	< 100 U	< 5 U	**48 BJ**	< 5 U	2 BJ	NA	NA	< 5 U
Toluene	2,000	**2300**	NA	**2300**	3.1	1400	1900	1500	800	< 0.5 U	34 J	2 J	23	< 10 U	< 10 U	< 10 U
Trichloroethene	5	< 100 U	NA	< 29 U	< 1 U	< 50 U	< 50 U	< 100 U	< 50 U	< 0.5 U	< 120 U	< 5 U	< 10 U	< 10 U	< 10 U	< 5 U
Vinyl chloride	2	< 100 U	NA	< 29 U	< 1 U	< 50 U	< 50 U	< 100 U	< 50 U	< 0.5 U	< 250 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U
Xylenes (total)	350	**400**	NA	**400**	4.1	200	280	120 J	< 150 U	< 1 U	< 120 U	< 5 U	4 J	< 10 U	< 10 U	< 10 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 54 U	< 16000 U	< 7.4 U	NA	NA	NA	< 470 U	< 47 U	< 19 U	< 50 U	< 50 U	< 26 U	< 27 U	< 26 U	< 27 U
bis(2-Chloroethyl) ether	5	**81000**	**81000**	**3400**	NA	NA	NA	**1600**	**520**	**36**	**44**	**32**	< 10 U	**10 J**	**41**	**29**
Metals (µg/L)																
Arsenic	10	**28.5**	NA	**24.5**	NA	NA	NA	**33.2**	**19**	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U	3 B
Barium	1,000	**2890**	NA	**2180**	NA	NA	NA	**1510**	**1050**	340	23 B	32 B	33 B	30 B	49 B	36 B
Beryllium	17.5	< 4 U	NA	< 0.18 U	NA	NA	NA	< 4 U	< 4 U	< 4 U	< 1 U	< 1 U	1 B	< 0 U	< 0 U	< 0 U
Cadmium	10	< 5 U	NA	< 0.21 U	NA	NA	NA	0.27 J	0.23	0.60 J	< 5 U	< 5 U	< 5 U	< 2 U	< 2 U	< 1 U
Chromium	50	23	NA	13.9	NA	NA	NA	15.1	6.5	2.2 J	< 10 U	< 10 U	< 10 U	< 3 U	3 B	< 3 U
Manganese	7,700	**18800**	NA	**14800**	NA	NA	NA	**12600**	**8090**	460	NA	1620	NA	NA	NA	2270
Nickel	350	34.8 B	NA	29.3 B	NA	NA	NA	27.4 J	19.6	0.85 J	< 20 U	< 20 U	< 20 U	< 8 U	< 10 U	< 6 U
Selenium	10	6.1	NA	6.8	NA	NA	NA	**13.7**	8.7	2.3 UJ	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 3 U
Zinc	7,350	6.6 B	NA	9.0 BJ	NA	NA	NA	3.7 J	< 20 U	3.0 UB	8 B	12 B	< 5 U	2 B	< 2 U	< 1 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30
Sample Date		7/1/1994	10/1/1994	1/1/1995	4/1/1995	7/1/1995	10/1/1995	1/1/1996	4/1/1996	7/1/1996	10/1/1996	1/1/1997	4/1/1997	7/1/1997	10/1/1997	1/1/1998
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
1,1-Dichloroethene	7	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
1,2-Dichloroethane	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	3 J	< 10 U	< 10 U	< 10 U	< 10 U
1,2-Dichloropropane	6	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	3,500	13	< 10 U	< 10 U	< 10 U	32	< 10 U	< 10 U	13	6 J	< 10 U	6 BJ	4 JB	6 BJ	< 10 U	8 JB
Benzene	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Bromodichloromethane	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Chloroform	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Ethylbenzene	3,500	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methylene chloride	5	**8 B**	< 5 U	< 5 U	**10 B**	< 5 U	< 5 U	2 BJ	< 5 U	< 10 U	1 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Toluene	2,000	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Trichloroethene	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Vinyl chloride	2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Xylenes (total)	350	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 26 U	< 26 U	< 26 U	< 28 U	< 27 U	< 26 U	< 25 U	< 25 U	< 25 U	< 25 U	< 26 U	< 25 U	< 26 U	< 26 U	< 26 U
bis(2-Chloroethyl) ether	5	**17**	**21**	**18**	**16**	**12**	**10**	5 J	**7 J**	**7 J**	4 J	**10 J**	**7 J**	**8 J**	< 10 U	**9 J**
Metals (µg/L)																
Arsenic	10	< 2 U	2 B	< 1 U	< 3 U	< 2 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	< 7 U	7 B	< 6 U
Barium	1,000	32 B	27 B	27 B	28 B	20 B	18 B	28 B	31 B	32 B	32 B	27 B	28 B	29 B	26 B	29 B
Beryllium	17.5	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	0 B	< 0 U	< 0 U	< 0 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U
Cadmium	10	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U	< 3 U	< 3 U	< 4 U	< 4 U
Chromium	50	3 B	< 2 U	< 4 U	< 2 U	< 3 U	< 2 U	10 B	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 4 U	< 4 U
Manganese	7,700	1930	NA	NA	2290	1800	1990	1540	NA	NA	NA	NA	1510	1530	1520	147
Nickel	350	< 7 U	< 7 U	< 10 U	< 6 U	< 7 U	< 9 U	< 15 U	< 15 U	< 15 U	< 15 U	< 20 U	< 20 U	< 20 U	< 16 U	< 16 U
Selenium	10	< 3 U	< 3 U	< 1 U	< 3 U	2 B	< 1 U	< 2 U	< 1 U	< 2 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Zinc	7,350	< 4 U	16 B	4 B	< 6 U	< 3 U	< 5 U	2 B	6 B	< 2 U	24	8 B	< 5 U	13 B	< 15 U	< 15 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-30	NS-31	NS-31
Sample Date		12/20/1999	2/23/2000	1/17/2001	3/11/2002	3/11/2002	12/2/2002	12/2/2003	12/12/2005	12/11/2007	12/15/2008	12/17/2009	12/13/2010	12/6/2011	1/1/1993	4/4/1993
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1 U	< 100 U	< 50 U	< 0 U	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U
1,1-Dichloroethene	7	< 1 U	< 100 U	< 50 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U
1,2-Dichloroethane	5	**84**	**130 D**	< 50 U	3	NA	2 5	1.4	0.89 J	1.1	4 1	1.4	0 68	4.5	**100**	**71**
1,2-Dichloropropane	6	**20**	**190 D**	< 50 U	< 0 U	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	0.14 J	< 1 U	< 1 U	**170**	**200**
Acetone	3,500	3000	**4100 D**	< 100 U	< 2 U	NA	< 10 U	< 10 U	2.6 J	< 10 U	14	< 10 U	4.8	< 5 U	**4700 D**	< 10 U
Benzene	5	< 1 U	< 75 U	< 50 U	0 J	NA	0.65 J	0.78 J	1	1.4	1.7	1.5	1.4	1.3	< 5 U	< 5 U
Bromodichloromethane	5	< 1 U	< 75 U	< 50 U	< 0 U	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U
Chloroform	5	< 1 U	< 75 U	< 50 U	< 0 U	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	2 J	< 5 U
Ethylbenzene	3,500	2	< 75 U	< 50 U	3	NA	4.1	0.27 J	< 1 U	21	19	0.23 J	< 1 U	< 0.5 U	2 J	2 J
Methylene chloride	5	< 1 U	< 120 U	**38 JBD**	< 0 U	NA	< 2 U	< 2 U	< 2 U	< 2 U	< 0.32 U	< 2 U	< 2 U	< 5 U	3 BJ	< 5 U
Toluene	2,000	36	220 D	560 D	2	NA	1.9	1.1	0.98 J	1.3	1.2	1.4	0.4	0.9	34	34
Trichloroethene	5	< 1 U	< 75 U	< 50 U	< 0 U	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U	< 0.5 U	< 5 U	< 5 U
Vinyl chloride	2	< 1 U	< 100 U	< 50 U	< 1 U	NA	< 1 U	< 2 U	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U	< 0 5 U	< 10 U	< 10 U
Xylenes (total)	350	NA	< 120 U	92 D	6	NA	9.2	6 4	5.6	16	5.1	5	2.4	4.6	6	7
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 50 U	< 4 U	< 51 U	< 2 U	< 5 U	< 200 U	< 48 U	< 240 U	< 52 U	< 3.8 U	< 48 U	< 48 U	< 20 U	< 50 U	< 52 U
bis(2-Chloroethyl) ether	5	**57**	**140 E**	**590 E**	**140 E**	**150**	**170**	**160**	**140**	**54**	**57**	**69**	**24**	**200**	**71**	**95**
Metals (µg/L)																
Arsenic	10	< 0 U	< 2 U	**37**	< 2 U	NA	< 10 U	< 10 U	< 10 U	4 B	4.8 B	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U
Barium	1,000	0	190 B	232 E	405	NA	338	375	291 B	185 B	192 BJ	210	258	150	193 B	36 B
Beryllium	17.5	< 0 U	< 0 U	< 0 U	< 0 U	NA	0.5 B	< 5 U	< 4 U	0.43 JB	< 0.18 U	< 4 U	< 4 U	< 4 U	< 1 U	< 1 U
Cadmium	10	< 0 U	< 0 U	< 0 U	< 0 U	NA	< 5 U	< 5 U	< 5 U	< 5 U	< 0.21 U	< 5 U	< 5 U	0.91 J	< 5 U	< 5 U
Chromium	50	< 0 U	< 1 U	2 B	< 1 U	NA	3.4 B	1.6 B	2.8 J	5.7	11.4	2.8 J	38.4	2.2 J	**78**	**74**
Manganese	7,700	1	854	1230 E	1070	NA	1030	1360	1270 B	530	812	1170	1400	1800	NA	NA
Nickel	350	< 0 U	< 2 U	2 B	2 B	NA	4.1 B	3.2 B	3.5 J	6.2 B	9.4 B	3.3 J	16.1	3.1 J	39 B	48
Selenium	10	< 0 U	< 2 U	3 B	< 3 U	NA	2.9 B	< 5 U	< 5 U	< 5 U	< 2.9 U	< 5 U	3.1	1.7 UJ	< 2 U	< 2 U
Zinc	7,350	0	< 2 U	17 B	< 4 U	NA	< 20 U	3.5 B	2.6 J	< 20 U	9.9 BJ	2.6 UB	13	4.0 J	28	1640

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31
Sample Date		7/1/1993	10/1/1993	1/1/1994	4/1/1994	7/1/1994	10/1/1994	1/1/1995	4/1/1995	7/1/1995	10/1/1995	1/1/1996	4/1/1996	7/1/1996	10/1/1996	1/1/1997
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 250 U	< 10 U	< 32 U	< 500 U	< 250 U	< 100 U	< 1000 U	< 1000 U	< 1000 U
1,1-Dichloroethene	7	< 10 U	< 10 U	< 10 U	< 7 U	< 7 U	< 7 U	< 350 U	< 15 U	< 45 U	< 700 U	< 250 U	< 100 U	< 1000 U	< 1000 U	< 1000 U
1,2-Dichloroethane	5	**49**	**20**	**9 J**	5	4 J	4 J	< 250 U	**41**	**120**	< 500 U	< 250 U	< 100 U	< 1000 U	**170 J**	**150 J**
1,2-Dichloropropane	6	**83**	**31**	< 10 U	3 J	< 6 U	< 6 U	< 300 U	**50**	**260**	**340 J**	< 250 U	**94 J**	< 1000 U	**160 J**	< 1000 U
Acetone	3,500	18	< 10 U	< 10 U	< 10 U	11	130 B	**9200**	**15000 D**	**4800 D**	**16000**	3500	**11000 E**	**33000 D**	**41000 D**	**43000 DB**
Benzene	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 250 U	< 10 U	< 32 U	< 500 U	< 250 U	< 100 U	< 1000 U	< 1000 U	< 1000 U
Bromodichloromethane	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 250 U	< 10 U	< 32 U	< 500 U	< 250 U	< 100 U	< 1000 U	< 1000 U	< 1000 U
Chloroform	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 250 U	< 10 U	< 32 U	< 500 U	< 250 U	< 100 U	< 1000 U	< 1000 U	< 1000 U
Ethylbenzene	3,500	1 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 500 U	< 21 U	< 65 U	< 1000 U	< 250 U	< 100 U	< 1000 U	< 1000 U	< 1000 U
Methylene chloride	5	2 BJ	NA	NA	< 5 U	**9 B**	**6 B**	**200 BJ**	**16 B**	< 32 U	**480 BJ**	**71 BJ**	**21 J**	**310 J**	**110 J**	**1600 B**
Toluene	2,000	15	6 J	< 10 U	< 10 U	< 10 U	< 10 U	< 500 U	12 J	45 J	< 1000 U	64 J	150	310 J	370 J	315 J
Trichloroethene	5	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 5 U	< 250 U	< 10 U	< 32 U	< 500 U	< 250 U	< 100 U	< 1000 U	< 1000 U	< 1000 U
Vinyl chloride	2	2 J	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	< 100 U	< 4 U	< 13 U	< 200 U	< 500 U	< 200 U	< 1000 U	< 1000 U	< 1000 U
Xylenes (total)	350	4 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 500 U	< 21 U	< 65 U	< 1000 U	< 250 U	< 100 U	< 1000 U	< 1000 U	< 1000 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 25 U	< 26 U	< 27 U	< 26 U	< 27 U	< 26 U	< 26 U	< 51 U	< 130 U	< 260 U	< 25 U	< 120 U	< 120 U	< 50 U	< 50 U
bis(2-Chloroethyl) ether	5	**38**	**25**	**24**	**20**	**21**	**14**	**11**	**78**	**130**	**320**	**72**	**160**	**380**	**200 D**	**540 D**
Metals (µg/L)																
Arsenic	10	< 2 U	3 B	< 3 U	4 B	< 2 U	< 2 U	1 B	3 B	< 2 U	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 7 U
Barium	1,000	20 B	16 B	< 2 U	17 B	8 B	2 B	20 B	13 B	207	**1680**	**1630**	**3350**	**5180**	**6280**	**6780**
Beryllium	17.5	2 B	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 2 U
Cadmium	10	< 5 U	< 2 U	< 2 U	< 1 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U
Chromium	50	22	< 3 U	< 2 U	13	< 2 U	< 2 U	< 4 U	< 2 U	< 3 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	7 B
Manganese	7,700	NA	21	NA	52	26	NA	NA	NA	36	NA	60	NA	NA	510	NA
Nickel	350	< 20 U	< 8 U	< 10 U	10 B	< 7 U	< 7 U	< 10 U	< 6 U	< 7 U	< 9 U	< 15 U	< 15 U	< 15 U	< 15 U	< 20 U
Selenium	10	< 2 U	< 2 U	< 2 U	< 3 U	< 3 U	< 3 U	< 1 U	< 3 U	3 B	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 5 U
Zinc	7,350	27	3 B	< 2 U	11 B	4 B	5 B	14 B	< 6 U	< 3 U	< 5 U	3 B	6 B	2 B	15 B	16 B

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31
Sample Date		4/1/1997	7/1/1997	10/1/1997	1/1/1998	9/8/1998	12/20/1999	2/22/2000	6/14/2000	12/13/2000	3/19/2002	12/2/2002	12/2/2003	12/12/2005	12/12/2005	12/12/2007
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1000 U	< 1000 U	< 1000 U	< 250 U	NA	< 1 U	< 2 U	< 5 U	< 1 U	< 22 U	< 100 U	< 75 U	< 200 U	NA	< 200 U
1,1-Dichloroethene	7	< 1000 U	< 1000 U	< 1000 U	< 250 U	NA	< 1 U	< 2 U	< 5 U	< 1 U	< 26 U	< 100 U	< 75 U	< 200 U	NA	< 200 U
1,2-Dichloroethane	5	< 1000 U	< 1000 U	< 1000 U	**260**	NA	**62**	**63 D**	**69**	**110 E**	**100**	< 100 U	**52 J**	< 200 U	NA	**130 J**
1,2-Dichloropropane	6	< 1000 U	< 1000 U	< 1000 U	**170 J**	NA	**160**	**120 D**	**140**	**180 E**	**200**	**140**	**97**	**330**	NA	**280**
Acetone	3,500	**30000 DB**	**19000 B**	**31000 D**	**45000 DB**	NA	770	< 5 U	240 E	2900 E	2300	**4400**	2700	**6600**	NA	**6400**
Benzene	5	< 1000 U	< 1000 U	< 1000 U	< 250 U	NA	< 1 U	< 2 U	2 J	< 1 U	< 20 U	< 100 U	< 75 U	< 200 U	NA	< 200 U
Bromodichloromethane	5	< 1000 U	< 1000 U	< 1000 U	< 250 U	NA	< 1 U	< 2 U	< 5 U	< 1 U	< 15 U	< 100 U	< 75 U	< 200 U	NA	< 200 U
Chloroform	5	< 1000 U	< 1000 U	< 1000 U	< 250 U	NA	< 1 U	< 2 U	< 5 U	< 1 U	< 24 U	< 100 U	< 75 U	< 200 U	NA	< 200 U
Ethylbenzene	3,500	< 1000 U	< 1000 U	< 1000 U	< 250 U	NA	6	6 D	3 J	3	< 24 U	< 100 U	< 75 U	< 200 U	NA	< 200 U
Methylene chloride	5	< 1000 U	< 1000 U	**160 J**	< 250 U	NA	< 1 U	< 2 U	< 5 U	< 1 U	< 18 U	< 200 U	< 150 U	**89 J**	NA	**65 JB**
Toluene	2,000	370 J	390 J	610 J	620	NA	140	120 D	45	31	23 J	27 J	42 J	< 200 U	NA	< 200 U
Trichloroethene	5	< 1000 U	< 1000 U	< 1000 U	< 250 U	NA	< 1 U	< 2 U	< 5 U	< 1 U	< 20 U	< 100 U	< 75 U	< 200 U	NA	< 200 U
Vinyl chloride	2	< 1000 U	< 1000 U	< 1000 U	< 250 U	NA	2	< 2 U	< 5 U	< 1 U	< 30 U	< 100 U	< 150 U	< 200 U	NA	< 200 U
Xylenes (total)	350	< 1000 U	< 1000 U	< 1000 U	89 J	NA	NA	24 D	7	9	< 48 U	< 300 U	< 220 U	< 600 U	NA	< 600 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 50 U	< 52 U	< 26 U	< 26 U	NA	< 50 U	< 12 U	NA	< 4 U	< 7 U	< 480 U	< 96 U	< 50 U	< 150 U	< 55 U
bis(2-Chloroethyl) ether	5	**390 D**	< 21 U	**19**	**1500 D**	NA	**160**	**300 D**	NA	**44**	**81**	**82 J**	**130**	**150**	**130 E**	**66**
Metals (µg/L)																
Arsenic	10	< 7 U	< 7 U	< 6 U	< 6 U	< 10 U	< 0 U	2 B	NA	4 B	5 B	< 10 U	4 B	4.6 J	NA	6.3 B
Barium	1,000	**6870**	**9280**	**4680**	**9850**	**11400**	0	53 B	NA	88 B	23 B	27.7 B	40.5 B	239 B	NA	44.2 JB
Beryllium	17.5	< 2 U	< 2 U	< 1 U	< 1 U	< 3 U	< 0 U	< 0 U	NA	< 0 U	< 0 U	< 4 U	< 5 U	< 4 U	NA	1.9 JB
Cadmium	10	< 3 U	**27**	< 4 U	< 4 U	< 1 U	< 0 U	< 0 U	NA	< 0 U	< 0 U	< 5 U	< 5 U	< 5 U	NA	< 5 U
Chromium	50	< 5 U	< 5 U	< 4 U	**101**	6 J	0	< 1 U	NA	2 B	2 B	2 B	2.7 B J	11.8	NA	1.4 B
Manganese	7,700	993	NA	NA	NA	1980	0	275	NA	82	22	25.2	26.6	18.9 B	NA	17.3
Nickel	350	< 20 U	< 20 U	< 16 U	52	< 40 U	0	< 2 U	NA	2 B	< 2 U	3 B	3.4 B	6.3 J	NA	4 B
Selenium	10	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 0 U	< 2 U	NA	< 2 U	< 3 U	< 5 U	< 5 U	3.0 J	NA	3.6 B
Zinc	7,350	< 5 U	16 B	< 15 U	15 B	< 20 U	0	< 2 U	NA	31	< 4 U	5 B	2 B	1.8 J	NA	10.5 JB

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-31	NS-31	NS-31	NS-31	NS-31	NS-31A	NS-31A	NS-31A	NS-31B	NS-31B	NS-31B	NS-32	NS-32	NS-32	NS-32
Sample Date		12/16/2008	12/16/2008	12/15/2009	12/13/2010	11/28/2011	12/20/2010	2/8/2011	11/28/2011	12/22/2010	2/8/2011	11/28/2011	1/1/1993	4/4/1993	7/1/1993	10/1/1993
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 39 U	< 39 U	< 100 U	< 100 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U
1,1-Dichloroethene	7	< 56 U	< 56 U	< 100 U	< 100 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U
1,2-Dichloroethane	5	**130 J**	**120 J**	**120**	**120**	**120**	< 1 U	< 1 U	< 1 U	1.7	1.4	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U
1,2-Dichloropropane	6	**280**	**290**	**280**	**230**	**290**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	1 J	< 10 U
Acetone	3,500	**5700**	**5500**	2700	2800	620	< 10 U	39	< 5 U	< 10 U	< 1 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U
Benzene	5	< 55 U	< 55 U	< 100 U	< 100 U	< 0.5 U	< 1 U	< 1 U	< 0.5 U	1.7	2.1	1.7	< 5 U	< 5 U	< 10 U	< 10 U
Bromodichloromethane	5	< 40 U	< 40 U	< 100 U	< 100 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U
Chloroform	5	< 48 U	< 48 U	< 100 U	< 100 U	< 1 U	0.24	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 10 U	< 10 U
Ethylbenzene	3,500	< 36 U	< 36 U	< 100 U	< 100 U	3.9	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 0.5 U	< 5 U	< 5 U	< 10 U	< 10 U
Methylene chloride	5	**69 J**	**85 J**	< 200 U	< 200 U	< 5 U	< 2 U	< 2 U	< 5 U	0.19 UB	0.19 UB	< 5 U	2 BJ	1 J	1 J	NA
Toluene	2,000	< 47 U	< 47 U	31 J	23	19	< 1 U	< 1 U	< 0.5 U	2.7	3.5	2.6	< 5 U	< 5 U	< 10 U	< 10 U
Trichloroethene	5	< 59 U	< 59 U	< 100 U	< 100 U	< 0.5 U	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 0.5 U	< 5 U	< 5 U	< 10 U	< 10 U
Vinyl chloride	2	< 58 U	< 58 U	< 100 U	< 100 U	< 0.5 U	< 1 U	< 1 U	< 0.5 U	< 2 U	< 1 U	< 0.5 U	< 10 U	< 10 U	< 10 U	< 10 U
Xylenes (total)	350	< 120 U	< 120 U	< 300 U	< 300 U	9.4	< 3 U	< 3 U	< 1 U	8.5	10	6.9	< 5 U	< 5 U	< 10 U	< 10 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 3.9 U	< 3.9 U	< 47 U	< 47 U	< 19 U	< 47 U	< 47 U	< 19 U	< 47 U	< 47 U	< 19 U	< 50 U	< 50 U	< 25 U	< 26 U
bis(2-Chloroethyl) ether	5	**88**	**91**	**84**	**35**	**160**	< 1.9 U	< 1.9 U	< 1.9 U	**220**	**440**	**550**	< 10 U	< 10 U	< 10 U	< 11 U
Metals (µg/L)																
Arsenic	10	5.4 B	4.9 B	4.7 J	7.7	6.2 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 2 U	< 2 U	2 B
Barium	1,000	49.1 B	43.6 B	246	308	110	64.2	25.7 B	19	**4730**	**4,460**	**3500**	66 B	69 B	86 B	86 B
Beryllium	17.5	< 0.18 U	< 0.18 U	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 1 U	< 1 U	2 B	< 0 U
Cadmium	10	0.24 B	< 0.21 U	< 5 U	< 5 U	< 2 U	< 5 U	< 5 U	< 2 U	< 5 U	< 5 U	< 2 U	< 5 U	< 5 U	< 5 U	< 2 U
Chromium	50	< 1.1 U	< 1.1 U	10.1	5.3	7.7 J	17.3	9.7	3.6 J	3.6	< 5 U	< 10 U	< 10 U	< 10 U	10	< 3 U
Manganese	7,700	16.2	16.8	33	18.7	22	529 J	881	850	841	837	660	NA	NA	108	NA
Nickel	350	4.0 B	4.0 B	6.0 J	6.4	5.4 J	9.3	40.5	4.6 J	4.2	< 40 U	3.1 J	< 20 U	< 20 U	< 20 U	< 8 U
Selenium	10	< 2.9 U	< 2.9 U	< 5 U	< 5 U	< 10 U	< 5 U	< 5 U	< 10 U	3.1	< 5 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U
Zinc	7,350	< 3.1 U	3.9 BJ	< 20 U	3.1	4.3 UB	27.2	5.3 B	4.3 UB	**10600**	**54,100**	**19000**	6 B	57	25	< 2 U

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU1 ROD Performance Standard	NS-32 1/1/1994	NS-32 4/1/1994	NS-32 7/1/1994	NS-32 10/1/1994	NS-32 1/1/1995	NS-32 4/1/1995	NS-32 7/1/1995	NS-32 10/1/1995	NS-32 1/1/1996	NS-32 4/1/1996	NS-32 7/1/1996	NS-32 10/1/1996	NS-32 1/1/1997	NS-32 4/1/1997	NS-32 7/1/1997
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
1,1-Dichloroethene	7	< 10 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 7 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
1,2-Dichloroethane	5	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
1,2-Dichloropropane	6	< 10 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 6 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	3,500	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	10 BJ	3 JB	4 BJ
Benzene	5	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Bromodichloromethane	5	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Chloroform	5	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Ethylbenzene	3,500	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Methylene chloride	5	NA	< 5 U	**9 B**	**9 B**	4 BJ	**11 B**	< 5 U	< 5 U	2 BJ	< 5 U	< 10 U	1 J	3 J	< 10 U	< 10 U
Toluene	2,000	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 10 U	1 J	< 10 U	< 10 U	< 10 U
Trichloroethene	5	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Vinyl chloride	2	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Xylenes (total)	350	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 5 U	< 5 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 27 U	< 26 U	< 26 U	< 27 U	< 25 U	< 26 U	< 28 U	< 520 U	< 25 U	< 25 U	< 25 U	< 25 U	< 26 U	< 25 U	< 26 U
bis(2-Chloroethyl) ether	5	< 11 U	< 10 U	< 5 U	< 5 U	< 5 U	< 5 U	< 6 U	**370**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**650 D**
Metals (µg/L)																
Arsenic	10	< 3 U	< 3 U	< 2 U	3 B	< 1 U	3 B	2 B	< 2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 7 U	< 7 U	< 7 U
Barium	1,000	86 B	83 B	85 B	86 B	85 B	93 B	90	87 B	88 B	96 B	96 B	92 B	97 B	93 B	96 B
Beryllium	17.5	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	0 B	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 0 U	< 2 U	< 2 U	< 2 U
Cadmium	10	< 2 U	< 1 U	< 2 U	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 5 U	< 5 U	< 5 U	< 5 U	< 0 U	< 3 U	< 3 U
Chromium	50	< 2 U	< 3 U	3 B	2 B	< 4 U	< 2 U	< 3 U	< 2 U	9 B	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Manganese	7,700	NA	106	106	NA	NA	NA	107	NA	NA	NA	109	109	NA	114	115
Nickel	350	< 10 U	< 6 U	< 7 U	< 7 U	< 10 U	< 6 U	< 7 U	< 9 U	< 15 U	< 15 U	< 15 U	< 15 U	< 20 U	< 20 U	< 20 U
Selenium	10	< 2 U	< 3 U	< 3 U	< 3 U	< 1 U	3 B	2 B	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U
Zinc	7,350	3 B	3 B	8 B	10 B	11 B	6 B	< 3 U	< 5 U	9 B	7 B	4 B	20 B	24	< 5 U	32

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-32	NS-32	NS-32	NS-32	NS-32	NS-32	NS-32	NS-32	NS-32	NS-32	NS-32	NS-32	NS-32	NS-55	NS-55
Sample Date		10/1/1997	1/1/1998	12/20/1999	12/14/2000	3/11/2002	12/2/2002	12/2/2003	12/12/2005	12/12/2007	12/16/2008	12/17/2009	12/13/2010	12/2/2011	12/13/2005	12/13/2005
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 2500 U	NA
1,1-Dichloroethene	7	< 10 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U	< 1 U	< 2500 U	NA
1,2-Dichloroethane	5	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 1 U	0.49 J	< 1 U	< 1 U	< 0.21 U	< 1 U	< 1 U	< 1 U	< 2500 U	NA
1,2-Dichloropropane	6	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U	< 2500 U	NA
Acetone	3,500	< 10 U	13 B	< 10 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 10 U	< 10 U	< 5 U	**110000**	NA
Benzene	5	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 0.5 U	< 2500 U	NA
Bromodichloromethane	5	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 2500 U	NA
Chloroform	5	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	0.079 J	< 0.24 U	< 1 U	< 1 U	< 1 U	< 2500 U	NA
Ethylbenzene	3,500	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 0.5 U	< 2500 U	NA
Methylene chloride	5	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.32 U	< 2 U	< 2 U	< 5 U	< 5000 U	NA
Toluene	2,000	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.23 U	< 1 U	< 1 U	< 0.5 U	930 J	NA
Trichloroethene	5	< 10 U	< 10 U	< 1 U	< 1 U	< 0 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U	< 0.5 U	< 2500 U	NA
Vinyl chloride	2	< 10 U	< 10 U	< 1 U	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U	< 0.5 U	< 2500 U	NA
Xylenes (total)	350	< 10 U	< 10 U	NA	< 1 U	< 1 U	< 3 U	< 3 U	< 3 U	< 3 U	< 0.62 U	< 3 U	< 3 U	< 1 U	< 7500 U	NA
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 26 U	< 26 U	< 50 U	< 52 U	< 2 U	< 48 U	< 52 U	< 49 U	< 48 U	< 3.8 U	< 48 U	< 48 U	< 19 U	< 52 U	< 2600 U
bis(2-Chloroethyl) ether	5	**560 D**	< 10 U	< 10 U	< 10 U	< 1 U	< 9.4 U	< 10 U	**8.4 J**	< 9.6 U	< 0.25 U	< 1.9 U	< 1.9 U	4.6	**1200 E**	**3600**
Metals (µg/L)																
Arsenic	10	< 6 U	< 6 U	< 0 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	NA
Barium	1,000	98 B	99 B	0	105 B	107 B	105 B	124 B	118 JB	129 JB	132 B	134 J	144	160	**1560 B**	NA
Beryllium	17.5	< 1 U	< 1 U	< 0 U	< 0 U	< 0 U	0.58 B	1.8 B J	< 4 U	2.3 JB	< 0.18 U	< 4 U	< 4 U	< 4 U	< 4 U	NA
Cadmium	10	< 4 U	< 4 U	< 0 U	< 0 U	< 0 U	< 5 U	< 5 U	< 5 U	0.32 B	< 0.21 U	< 5 U	< 5 U	0.58 J	2.1 J	NA
Chromium	50	< 4 U	< 4 U	< 0 U	< 1 U	< 1 U	< 5 U	2.6 B	< 5 U	< 5 U	< 1.1 U	< 5 U	< 5 U	< 10 U	12.9	NA
Manganese	7,700	NA	NA	0	125	119	140	157	121 B	142	136	136	145	160	**54500 B**	NA
Nickel	350	< 16 U	< 16 U	< 0 U	< 1 U	< 2 U	< 40 U	1.4 B	< 40 U	< 40 U	< 0.78 U	< 40 U	< 40 U	< 10 U	4.3 J	NA
Selenium	10	< 5 U	< 5 U	< 0 U	< 2 U	< 3 U	< 5 U	2.8 B	< 5 U	< 5 U	< 2.9 U	< 5 U	< 5 U	1.5 UB	< 50 U	NA
Zinc	7,350	< 15 U	< 15 U	< 0 U	< 9 U	< 4 U	< 20 U	2.5 B	6.0 J	10 JB	7.5 BJ	2.8 UB	< 20 U	18 UB	3.3 J	NA

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-55	NS-55	NS-55	NS-55	NS-55	NS-55	NS-55	NS-56	NS-56	NS-56	NS-56	NS-56	NS-56	NS-56	NS-56
Sample Date		12/11/2006	12/11/2006	12/12/2007	12/15/2008	12/17/2009	12/14/2010	11/29/2011	12/13/2005	12/13/2005	12/11/2006	12/11/2006	12/12/2007	12/11/2008	12/23/2009	12/9/2010
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 50 U	NA	< 50 U	< 3.9 U	< 20 U	< 12 U	< 1 U	< 2000 U	NA	< 2500 U	NA	< 2000 U	< 390 U	< 2000 U	< 1200 U
1,1-Dichloroethene	7	< 50 U	NA	< 50 U	< 5.6 U	< 20 U	< 12 U	< 1 U	< 2000 U	NA	< 2500 U	NA	< 2000 U	< 560 U	< 2000 U	< 1200 U
1,2-Dichloroethane	5	< 50 U	NA	< 50 U	< 4.3 U	< 20 U	< 12 U	< 1 U	**49000**	NA	**55000**	NA	**39000**	**38000**	**33000**	**19000**
1,2-Dichloropropane	6	< 50 U	NA	< 50 U	< 3.6 U	< 20 U	< 12 U	< 1 U	**53000**	NA	**56000**	NA	**39000**	**33000**	**28000**	**14000**
Acetone	3,500	1200	NA	900	< 50 U	120 J	< 120 U	13	**47000**	NA	**45000**	NA	**42000**	**35000**	**35000**	**48000**
Benzene	5	< 50 U	NA	< 50 U	< 5.5 U	**5.3 J**	3.4	3	< 2000 U	NA	< 2500 U	NA	< 2000 U	< 550 U	< 2000 U	< 1200 U
Bromodichloromethane	5	< 50 U	NA	< 50 U	< 4 U	< 20 U	< 12 U	< 1 U	< 2000 U	NA	< 2500 U	NA	< 2000 U	< 400 U	< 2000 U	< 1200 U
Chloroform	5	< 50 U	NA	< 50 U	< 4.8 U	< 20 U	< 12 U	< 1 U	< 2000 U	NA	< 2500 U	NA	< 2000 U	< 480 U	< 2000 U	< 1200 U
Ethylbenzene	3,500	23 J	NA	33 J	14 J	11 J	8.8	1.8	1700 J	NA	2300 J	NA	1600 J	1600 J	720 J	350
Methylene chloride	5	< 100 U	NA	**19 JB**	**7.6 J**	3.9 J	< 25 U	< 5 U	< 4000 U	NA	< 5000 U	NA	**770 JB**	< 640 U	< 4000 U	< 2500 U
Toluene	2,000	600	NA	770	270	270	200	28	**14000**	NA	**18000**	NA	**12000**	**13000**	**8200**	**3700**
Trichloroethene	5	< 50 U	NA	< 50 U	< 5.9 U	< 20 U	< 12 U	< 0.5 U	< 2000 U	NA	< 2500 U	NA	< 2000 U	< 590 U	< 2000 U	< 1200 U
Vinyl chloride	2	< 50 U	NA	< 50 U	< 5.8 U	< 20 U	< 12 U	< 0.5 U	< 2000 U	NA	< 2500 U	NA	< 2000 U	< 580 U	< 2000 U	< 1200 U
Xylenes (total)	350	96 J	NA	120 J	47 J	28 J	26	4	**5400 J**	NA	**8600**	NA	**5600 J**	**6700**	**2400 J**	**1400**
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 520 U	< 2100 U	< 1100 U	< 3.8 U	< 48 U	< 47 U	< 19 U	< 30000 U	< 30000 U	< 25000 U	< 5000 U	< 7900 U	< 380 U	< 47 R	< 47 U
bis(2-Chloroethyl) ether	5	**2100**	**1900 E**	**2400**	**1200**	**740**	**1400**	**450**	**35000**	**20000 E**	**23000 E**	**28000**	**18000**	**21000**	**20000**	**14000 J**
Metals (µg/L)																
Arsenic	10	< 10 U	NA	< 10 U	< 2 U	< 10 U	< 10 U	< 10 U	5.9 J	NA	6.8 J	NA	5.7 B	3.8 B	4.1 J	6.1
Barium	1,000	**1400**	NA	**1480 J**	**1070 J**	**1060**	**1140**	690	16.2 JB	NA	15.2 J	NA	14.4 JB	17.6 BJ	17.3 J	21.6
Beryllium	17.5	0.73 JB	NA	1.3 JB	< 0.18 U	< 4 U	< 4 U	< 4 U	15.3	NA	15.3 B	NA	16.8 J	13.5 J	7.7	1.5
Cadmium	10	< 5 U	NA	< 5 U	< 0.21 U	< 5 U	0.59	1.1 J	5.1	NA	1.8 J	NA	3.1 B	0.68 B	0.59 J	< 5 U
Chromium	50	7.2	NA	9.2	7.5	7.7	< 10 U	2.3 J	42.2	NA	26.6	NA	32.6	36.5	**68.1**	**74.9**
Manganese	7,700	**43500**	NA	**43800**	**35500**	**33600**	**35600**	**17000**	**166000 B**	NA	**137000**	NA	**129000**	**118000**	**103000**	**93000**
Nickel	350	4.6 J	NA	5.7 B	3.0 B	3.0 J	2.3	2.4 J	**761**	NA	**650**	NA	**638**	**541**	**477**	224
Selenium	10	< 25 U	NA	< 25 U	< 2.9 U	< 10 U	< 10 U	7.2 UJ	**41.2 J**	NA	< 125 U	NA	< 50 U	< 29 U	< 50 U	< 50 U
Zinc	7,350	6.5 JB	NA	9.2 JB	7.3 BJ	220	195	2500	2290	NA	1190 B	NA	1430 J	1020 J	534 J	9.8

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-56	NS-56	NS-57	NS-57	NS-57	NS-57	NS-57	NS-57	NS-57	NS-57	NS-57	NS-57	NS-58	NS-58	NS-58
Sample Date		8/25/2011	11/30/2011	12/18/2007	12/15/2008	7/6/2009	7/6/2009	7/6/2009	7/6/2009	12/21/2009	12/21/2009	12/10/2010	11/29/2011	12/18/2007	12/18/2007	12/15/2010
Volatile Organic Compounds (µg/L)																
1,1,2-Trichloroethane	5	< 1,000 UH	< 50 U	< 2000 U	< 390 U	< 1500 U	< 800 U	< 800 U	< 800 U	< 2000 U	< 2500 U	< 1200 U	< 100 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 1,000 UH	< 50 U	< 2000 U	< 560 U	< 1500 U	< 800 U	< 800 U	< 800 U	< 2000 U	< 2500 U	< 1200 U	< 100 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	5	**22,000 H**	**29000**	**49000**	**650 J**	**27000**	**11000**	**12000**	**9900**	< 2000 U	< 2500 U	< 1200 U	< 100 U	2.6	2.6	**5.7**
1,2-Dichloropropane	6	**17,000 H**	**19000**	**4700**	**430 J**	**1600**	**2100**	**2400**	**2100**	**470 J**	**540 J**	< 1200 U	< 100 U	< 1 U	< 1 U	0.16
Acetone	3,500	**20,000 H**	**38000**	**48000**	**52000**	**5700 J**	**4800 J**	**7000 J**	**5400 J**	**46000**	**51000**	**48000**	**46000**	< 10 U	< 10 U	< 10 U
Benzene	5	< 1,000 UH	**44**	< 2000 U	< 550 U	< 1500 U	< 800 U	< 800 U	< 800 U	< 2000 U	< 2500 U	< 1200 U	< 50 U	< 1 U	< 1 U	< 1 U
Bromodichloromethane	5	< 1,000 UH	< 50 U	< 2000 U	< 400 U	< 1500 U	< 800 U	< 800 U	< 800 U	< 2000 U	< 2500 U	< 1200 U	< 100 U	< 1 U	< 1 U	< 1 U
Chloroform	5	< 1,000 UH	< 50 U	< 2000 U	< 480 U	< 1500 U	< 800 U	< 800 U	< 800 U	< 2000 U	< 2500 U	< 1200 U	< 100 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	3,500	600 JH	840	340 J	< 360 U	< 1500 U	320 J	260 J	260 J	< 2000 U	< 2500 U	< 1200 U	130	0.25 J	0.25 J	< 1 U
Methylene chloride	5	< 1,000 UH	< 250 U	< 4000 U	**1000 J**	< 3000 U	< 1600 U	< 1600 U	< 1600 U	< 4000 U	< 5000 U	< 2500 U	< 500 U	< 2 U	< 2 U	< 2 U
Toluene	2,000	**7,900 H**	**9700**	**12000**	**5700**	**15000 J**	**17000 J**	**17000 J**	**15000 J**	**8200 J**	**13000 J**	**10000**	**7800**	< 1 U	< 1 U	0.2
Trichloroethene	5	< 1,000 UH	< 25 U	< 2000 U	< 590 U	< 1500 U	< 800 U	< 800 U	< 800 U	< 2000 U	< 2500 U	< 1200 U	< 50 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	2	< 1,000 UH	**140**	< 2000 U	< 580 U	< 1500 U	< 800 U	< 800 U	< 800 U	< 2000 U	< 2500 U	< 1200 U	< 50 U	< 1 U	< 1 U	< 1 U
Xylenes (total)	350	**2,200 JH**	**2800**	**1000 J**	< 1200 U	**750 J**	**990 J**	**950 J**	**860 J**	< 6000 U	< 7500 U	**860**	**460**	< 3 U	< 3 U	< 3 U
Semi-Volatile Organic Compounds (µg/L)																
4-Nitrophenol	350	< 1,100 U	< 190 UJ	< 260 U	< 3.7 U	NA	NA	NA	NA	< 94 R	< 47 U	< 47 U	< 1100 UJ	< 56 U	< 56 U	< 47 U
bis(2-Chloroethyl) ether	5	**11,000 E**	**19000**	**1800**	**360**	NA	NA	NA	NA	**1700**	**1200**	**1700**	**1800 J**	< 11 U	< 11 U	< 1.9 U
Metals (µg/L)																
Arsenic	10	3.1 J	6.6 J	4 B	< 2 U	NA	NA	NA	NA	3.4 J	4.2 J	< 50 U	2.6 J	< 10 U	< 10 U	< 10 U
Barium	1,000	18 JB	19	332	932 J	NA	NA	NA	NA	150 J	160 J	370	390	156 B	156 B	38.9
Beryllium	17.5	4.6	1.9 J	< 4 U	< 0.18 U	NA	NA	NA	NA	< 4 U	< 4 U	< 20 U	< 4 U	1.2 B J	1.2 JB	< 4 U
Cadmium	10	< 5 U	1.9 UB	6.3	1.4 B	NA	NA	NA	NA	< 5 U	< 5 U	< 25 U	1.8 J	< 5 U	< 5 U	< 5 U
Chromium	50	37	**100**	50	25.3	NA	NA	NA	NA	38.6	38.8	< 25 U	11	24.1	24.1	**148**
Manganese	7,700	**92,000 B**	**93000**	**206000**	**91700**	NA	NA	NA	NA	**157000**	**158000**	**103000 J**	**85000**	632	632	238 J
Nickel	350	160	210	**364**	99.1	NA	NA	NA	NA	77.6	78	89.6	86	22.0 B	22 B	156
Selenium	10	< 25 U	**36 J**	< 125 U	< 2.9 U	NA	NA	NA	NA	< 50 U	< 50 U	< 25 U	**37 J**	< 5 U	< 5 U	< 5 U
Zinc	7,350	40	37 B	1090 J	60.7 J	NA	NA	NA	NA	34.4	36.9	17.2	31	71.0 J	71 J	5.1

Notes: Provided on the last page of Table 3.

Table 5
Historical Analytical Results - OU1 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU1 ROD Performance Standard	NS-58A	NS-58A	NS-58B	NS-58B	P-02	P-02	P-02	P-04	P-04	P-04
Sample Date		8/25/2011	11/29/2011	8/25/2011	11/29/2011	12/17/2007	12/21/2007	12/12/2008	12/17/2007	12/21/2007	12/12/2008
Volatile Organic Compounds (µg/L)											
1,1,2-Trichloroethane	5	< 50 U	< 100 U	< 50 UH	< 5 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U
1,1-Dichloroethene	7	< 50 U	< 100 U	< 50 UH	< 5 U	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U	< 0.28 U
1,2-Dichloroethane	5	**33,000 E**	**71000**	< 50 UH	< 5 U	0.087 J	0.087 J	< 0.21 U	< 1 U	< 1 U	< 0.21 U
1,2-Dichloropropane	6	< 50 U	**3300**	< 50 UH	< 5 U	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 0.18 U
Acetone	3,500	**18,000 E**	**32000**	**150 JH**	130	< 10 U	< 10 U	< 2.5 U	< 10 U	< 10 U	< 2.5 U
Benzene	5	< 50 U	< 50 U	< 50 UH	2.4 J	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 0.27 U
Bromodichloromethane	5	< 50 U	< 100 U	< 50 UH	< 5 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U
Chloroform	5	< 50 U	< 100 U	< 50 UH	< 5 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 0.24 U
Ethylbenzene	3,500	80	170	11 JH	16	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 0.18 U
Methylene chloride	5	**23 J**	< 500 U	< 50 UH	< 25 U	< 2 U	< 2 U	< 0.32 U	< 2 U	< 2 U	< 0.32 U
Toluene	2,000	**4,100 E**	**6700**	460 H	560	< 1 U	< 1 U	< 0.23 U	< 1 U	< 1 U	< 0.23 U
Trichloroethene	5	< 50 U	< 50 U	< 50 UH	< 2.5 U	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U	< 0.29 U
Vinyl chloride	2	**150**	**350**	**76 H**	**28**	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U	< 0.29 U
Xylenes (total)	350	270	**530**	31 JH	39	< 3 U	< 3 U	< 0.62 U	< 3 U	< 3 U	< 0.62 U
Semi-Volatile Organic Compounds (µg/L)											
4-Nitrophenol	350	< 1,000 U	< 99 U	< 1,000 U	< 21 U	< 54 U	< 54 U	< 3.7 U	< 54 U	< 54 U	< 3.9 U
bis(2-Chloroethyl) ether	5	**750**	**2200 J**	< 40 U	**83 J**	< 11 U	< 11 U	< 0.25 U	< 11 U	< 11 U	< 0.26 U
Metals (µg/L)											
Arsenic	10	4.4 J	**15**	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	< 10 U	< 10 U	< 2 U
Barium	1,000	**1,100 B**	460	830 B	780	18.5 B	18.5 B	20.1 B	128 B	128 B	131 B
Beryllium	17.5	< 4 U	< 4 U	< 4 U	< 4 U	0.7 JB	0.70 B J	< 0.18 U	0.67 JB	0 67 B J	< 0.18 U
Cadmium	10	2.1 J	3.5	0.58 J	1.3 J	< 5 U	< 5 U	< 0.21 U	< 5 U	< 5 U	< 0.21 U
Chromium	50	< 130 U	17	< 25 U	3.3 J	6.7	6.7	6.7	< 5 U	< 5 U	< 1.1 U
Manganese	7,700	**220,000 B**	**280000**	**45,000 B**	**42000**	4.4 B	4.4 B	21.8	29.4	29.4	35.2
Nickel	350	100	170	36 J	23	< 40 U	< 40 U	1.6 B	< 40 U	< 40 U	< 0 78 U
Selenium	10	< 130 U	**85 J**	< 25 U	**17 UJ**	< 5 U	< 5 U	< 2.9 U	< 5 U	< 5 U	< 2.9 U
Zinc	7,350	26	11 UB	5.2 J	3.5 UB	7.4 JB	7.4 B J	10.1 BJ	7.7 JB	7.7 B J	7.9 BJ

Notes: Provided on the last page of Table 3.

Footnotes and Qualifiers
All units measured in micrograms per liter (µg/L)
NA – Not Available/Not Analyzed
Bold indicates cells exceeding OU1 Performance Standard.
U – Not detected above the reporting limit indicated.
B – Constituent detected in laboratory method blank.
J – Estimated; detected below the reporting limit.
D – Serial dilution required to meet calibration criteria; elevated detection limit.
E – Exceeds calibration limit; use result from diluted sample.
< U – Reporting limit not available; imported from older files as non-detect.

Table 6

Operable Unit 2 Trench Area Soil Analytical Results

Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-1 8/9/2002 7 - 7.5	SB-1 8/9/2002 23.5 - 24	SB-1 8/9/2002 33.5 - 34	SB-1 10/4/2007 13.5 - 14	SB-1 10/4/2007 23.5 - 24	SB-1 10/4/2007 32.5 - 33	SB-1 3/21/2012 13.5 - 14	SB-1 3/21/2012 23.5 - 24	SB-1 3/21/2012 28 - 29	SB-1 3/21/2012 33.5 - 34	SB-1A 11/4/2002 23.5 - 24	SB-1A 11/4/2002 33.5 - 34
Volatile Organic Compounds (µg/kg)															
1,1,2-Trichloroethane	93000	5.9	µg/kg	< 5.7 U	< 400 U	< 1500 U	< 1.7 U	< 98 U	< 150 U	< 9.9 U	< 160 U	**86 J**	**87 J**	< 2600 U	< 3400 U
1,1-Dichloroethene	17000	30	µg/kg	< 5.7 U	< 400 U	< 1500 U	< 1.8 U	< 110 U	< 160 U	< 9.9 U	< 160 U	< 170 U	< 92 U	< 2600 U	< 3400 U
1,2-Dichloroethane	2200	2	µg/kg	< 5.7 U	**13000**	**49000**	< 1.7 U	**2100**	**25000**	< 9.9 U	**17000**	**30000**	**48000**	71000	59000
1,2-Dichloropropane	4700	3.2	µg/kg	2.5 J	< 400 U	< 1500 U	< 1.7 U	< 100 U	< 150 U	< 9.9 U	< 160 U	< 170 U	< 92 U	< 2600 U	< 3400 U
4-Nitrophenol			µg/kg	< 2200 U	< 2200 U	< 2200 U	< 35 U	< 35 U	< 36 U	< 860 U	< 920 U	< 1000 U	< 1100 U		
Acetone	100000000	24000	µg/kg	7 J	< 1600 U	< 6100 U	< 7.9 U	< 110 U	< 160 U	< 9.9 U	< 810 U	< 840 U	< 460 U	< 10000 U	< 13000 U
Benzene	5400	7.3	µg/kg	< 5.7 U	< 400 U	< 1500 U	< 1.6 U	< 95 U	< 140 U	< 9.9 U	< 40 U	< 42 U	< 23 U	< 2600 U	< 3400 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg	< 450 U	< 440 U	< 460 U	< 10 U	< 10 U	< 10 U	< 210 U	< 230 U	< 260 U	< 280 U		
Bromodichloromethane	1400	2.9	µg/kg	< 5.7 U	< 400 U	< 1500 U	< 1.5 U	< 89 U	< 130 U	< 9.9 U	< 320 U	< 340 U	< 180 U	< 2600 U	< 3400 U
Chloroform	1500	340	µg/kg	< 5.7 U	< 400 U	< 1500 U	< 1.7 U	< 97 U	< 140 U	< 9.9 U	< 160 U	< 170 U	< 92 U	< 2600 U	< 3400 U
Ethylbenzene	27000	8100	µg/kg	< 5.7 U	< 7.8 U	< 1500 U	< 1.9 U	< 110 U	< 160 U	< 9.9 U	210	160	67	< 2600 U	< 3400 U
Methylene chloride	53000	23	µg/kg	< 5.7 U	< 400 U	< 1500 U	1.9 JB	< 70 U	< 100 U	< 9.9 U	< 810 U	< 840 U	**74 J**	< 2600 U	< 3400 U
Toluene	820000	5500	µg/kg	< 5.7 U	180	1900	< 1.2 U	< 73 U	1200	< 9.9 U	**15000**	**14000**	**9800**	33000	25000
Trichloroethene	4000	18	µg/kg	14	**47**	< 1500 U	< 1.8 U	< 100 U	< 150 U	< 9.9 U	< 40 U	< 42 U	< 23 U	< 2600 U	< 3400 U
Vinyl chloride	1700	0.19	µg/kg	< 11 U	< 16 U	< 3100 U	< 1.8 U	< 100 U	< 150 U	< 9.9 U	< 40 U	< 42 U	< 23 U	< 5100 U	< 6700 U
Xylenes (total)	260000	5800	µg/kg	< 17 U	< 23 U	< 4600 U	< 5.6 U	< 320 U	< 480 U	< 20 U	500	370	130	< 7700 U	< 10000 U

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

µg/kg = micrograms per kilogram

J = Concentration is estimated.

U = Compound was analyzed for, but not detected. The laboratory reporting limit is listed

B = Analyte found in associated blank

Bold font indicates detected concentration.

Shaded where the result exceeds the PSRG

Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-1A 11/4/2002 37 - 37.5	SB-1B 11/4/2002 23.5 - 24	SB-1B 11/5/2002 33.5 - 34	SB-1B 11/5/2002 35.5 - 36	SB-1C 11/5/2002 35 - 35.5	SB-1C 11/5/2002 24 - 24.5	SB-1C 11/5/2002 33.5 - 34	SB-1D 11/6/2002 23.5 - 24	SB-1D 11/6/2002 33.5 - 34	SB-1D 11/6/2002 35.5 - 36	SB-1E 11/6/2002 23.5 - 24	SB-1E 11/6/2002 30.5 - 31
Volatile Organic Compounds (µg/kg)															
1,1,2-Trichloroethane	93000	5.9	µg/kg	< 2200 U	< 7.7 U	3.6 J	< 430 U	< 440 U	< 400 U	< 340 U	< 2000 U	< 3300 U	< 1200 U	< 3200 U	< 13000 U
1,1-Dichloroethene	17000	30	µg/kg	< 2200 U	< 7.7 U	< 7.9 U	< 430 U	< 440 U	< 400 U	< 340 U	< 2000 U	< 3300 U	< 1200 U	< 3200 U	< 13000 U
1,2-Dichloroethane	2200	2	µg/kg	55000	< 7.7 U	310 J	1700	12000	140 J	8900	44000	63000	25000	**80000**	**270000**
1,2-Dichloropropane	4700	3.2	µg/kg	< 2200 U	< 7.7 U	4.9 J	< 430 U	< 440 U	< 400 U	< 340 U	< 2000 U	< 3300 U	< 1200 U	< 3200 U	< 13000 U
4-Nitrophenol			µg/kg												
Acetone	100000000	24000	µg/kg	< 8800 U	28 J	< 1800 U	< 1700 U	< 1800 U	< 1600 U	< 1400 U	< 7800 U	< 13000 U	< 5000 U	< 13000 U	< 50000 U
Benzene	5400	7.3	µg/kg	< 2200 U	< 7.7 U	< 450 U	< 430 U	< 440 U	< 400 U	< 340 U	< 2000 U	< 3300 U	< 1200 U	< 3200 U	< 13000 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg												
Bromodichloromethane	1400	2.9	µg/kg	< 2200 U	< 7.7 U	< 7.9 U	< 430 U	< 440 U	< 400 U	< 340 U	< 2000 U	< 3300 U	< 1200 U	< 3200 U	< 13000 U
Chloroform	1500	340	µg/kg	< 2200 U	< 7.7 U	< 450 U	< 430 U	< 440 U	< 400 U	< 340 U	< 2000 U	< 3300 U	< 1200 U	< 3200 U	< 13000 U
Ethylbenzene	27000	8100	µg/kg	< 2200 U	< 7.7 U	3.7 J	< 430 U	< 440 U	< 400 U	< 340 U	< 2000 U	< 3300 U	< 1200 U	< 3200 U	< 13000 U
Methylene chloride	53000	23	µg/kg	< 2200 U	< 7.7 U	< 7.9 U	< 430 U	< 440 U	< 400 U	< 340 U	< 2000 U	< 3300 U	< 1200 U	< 3200 U	< 13000 U
Toluene	820000	5500	µg/kg	13000	< 7.7 U	< 450 U	< 430 U	< 440 U	< 400 U	< 340 U	2400	4800	2500	**71000**	**320000**
Trichloroethene	4000	18	µg/kg	< 2200 U	11	< 450 U	< 430 U	< 440 U	< 400 U	< 340 U	< 2000 U	< 3300 U	< 1200 U	< 3200 U	< 13000 U
Vinyl chloride	1700	0.19	µg/kg	< 4400 U	< 15 U	< 900 U	< 870 U	< 880 U	< 800 U	< 680 U	< 3900 U	< 6700 U	< 2500 U	< 6400 U	< 25000 U
Xylenes (total)	260000	5800	µg/kg	< 6600 U	< 23 U	15 J	< 1300 U	< 1300 U	< 1200 U	< 1000 U	< 5900 U	< 10000 U	< 3700 U	< 9600 U	< 38000 U

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

µg/kg = micrograms per kilogram

J = Concentration is estimated.

U = Compound was analyzed for, but not detected. The laboratory reporting limit is listed.

B = Analyte found in associated blank.

Bold font indicates detected concentration.

Shaded where the result exceeds the PSRG

Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-1E 10/2/2007 13.5 - 14	SB-1E 10/2/2007 23.5 - 24	SB-1E 10/2/2007 32.5 - 33	SB-1E 3/21/2012 13.5 - 14	SB-1E 3/21/2012 23.5 - 24	SB-1E 3/21/2012 26 - 27	SB-1E 3/21/2012 33.5 - 34	SB-1E 3/21/2012 37 - 38	SB-1F 11/6/2002 23.5 - 24	SB-1F 11/6/2002 33.5 - 34	SB-1F 10/2/2007 13.5 - 14	SB-1F 10/2/2007 23.5 - 24
Volatile Organic Compounds (µg/kg)															
1,1,2-Trichloroethane	93000	5.9	µg/kg	< 89 U	< 1700 U	< 3900 U	< 92 U	**87 J**	< 97 U	**680 J**	**40 J**	< 8.1 U	< 6.4 U	< 1.5 U	< 1.6 U
1,1-Dichloroethene	17000	30	µg/kg	< 98 U	< 1800 U	< 4300 U	< 92 U	< 170 U	< 97 U	< 1600 U	< 76 U	< 8.1 U	< 6.4 U	< 1.6 U	< 1.8 U
1,2-Dichloroethane	2200	2	µg/kg	**4600**	**74000**	**180000**	< 92 U	**18000**	**6300**	**280000**	**29000**	< 8.1 U	1.8 J	< 1.5 U	< 1.6 U
1,2-Dichloropropane	4700	3.2	µg/kg	< 92 U	< 1700 U	< 4000 U	< 92 U	< 170 U	< 97 U	< 1600 U	< 76 U	< 8.1 U	< 6.4 U	< 1.5 U	< 1.7 U
4-Nitrophenol			µg/kg	< 35 U	< 37 U	< 39 U	< 930 U	< 960 U	< 4500 U	< 5000 U	< 1000 U			< 36 U	< 39 U
Acetone	100000000	24000	µg/kg	< 99 U	< 1900 U	< 4300 U	< 460 U	< 830 U	< 480 U	< 8000 U	< 380 U	< 33 U	< 26 U	< 7 U	< 7.5 U
Benzene	5400	7.3	µg/kg	< 86 U	< 1600 U	< 3800 U	< 23 U	< 42 U	< 24 U	< 400 U	**17 J**	< 8.1 U	< 6.4 U	< 1.4 U	< 1.6 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg	< 10 U	< 11 U	< 11 U	< 230 U	< 240 U	< 1100 U	< 1300 U	< 250 U			< 10 U	< 11 U
Bromodichloromethane	1400	2.9	µg/kg	< 81 U	< 1500 U	< 3500 U	< 180 U	< 330 U	< 190 U	< 3200 U	< 150 U	< 8.1 U	< 6.4 U	< 1.4 U	< 1.5 U
Chloroform	1500	340	µg/kg	< 88 U	< 1600 U	< 3800 U	< 92 U	< 170 U	< 97 U	< 1600 U	< 76 U	< 8.1 U	< 6.4 U	< 1.5 U	< 1.6 U
Ethylbenzene	27000	8100	µg/kg	< 98 U	< 1800 U	< 4300 U	< 23 U	380	48	7300	100	< 8.1 U	< 6.4 U	< 1.6 U	< 1.8 U
Methylene chloride	53000	23	µg/kg	**64 J**	< 1200 U	< 2800 U	< 460 U	< 830 U	< 480 U	< 8000 U	< 380 U	< 8.1 U	< 6.4 U	1.9 JB	1.9 JB
Toluene	820000	5500	µg/kg	680	**110000**	**230000**	21 J	**69000**	**6000**	**1800000**	**29000**	< 8.1 U	< 6.4 U	15	< 1.2 U
Trichloroethene	4000	18	µg/kg	< 93 U	< 1700 U	< 4100 U	< 23 U	< 42 U	< 24 U	< 400 U	< 19 U	< 8.1 U	< 6.4 U	< 1.6 U	< 1.7 U
Vinyl chloride	1700	0.19	µg/kg		< 1700 U	< 4100 U	< 23 U	< 42 U	< 24 U	< 400 U	< 19 U	< 16 U	< 13 U	< 1.6 U	< 1.7 U
Xylenes (total)	260000	5800	µg/kg	< 290 U	< 5500 U	< 13000 U	13 J	1300	210	**23000**	300	< 24 U	< 19 U	< 4.9 U	< 5.3 U

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

µg/kg = micrograms per kilogram

J = Concentration is estimated

U = Compound was analyzed for, but not detected. The laboratory reporting limit is listed.

B = Analyte found in associated blank.

Bold font indicates detected concentration.

Shaded where the result exceeds the PSRG

Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-1F 10/2/2007 33.5 - 34	SB-1F 10/2/2007 35 - 35.5	SB-1G 11/7/2002 23.5 - 24	SB-1G 11/7/2002 33.5 - 34	SB-1G 11/7/2002 35.5 - 36	SB-1H 11/7/2002 23.5 - 24	SB-1H 11/7/2002 30.5 - 31	SB-1I 11/7/2002 23.5 - 24	SB-1I 11/7/2002 33.5 - 34	SB-1I 11/7/2002 37.5 - 38	SB-1I 10/2/2007 13.5 - 14	SB-1I 10/2/2007 23.5 - 24
Volatile Organic Compounds (µg/kg)															
1,1,2-Trichloroethane	93000	5.9	µg/kg	< 1.7 U	< 1.7 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	< 1.5 U	< 1.7 U
1,1-Dichloroethene	17000	30	µg/kg	< 1.8 U	< 1.9 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	< 1.7 U	< 1.8 U
1,2-Dichloroethane	2200	2	µg/kg	< 1.7 U	< 1.7 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	2.6 J	6.4	< 1.6 U	< 1.7 U
1,2-Dichloropropane	4700	3.2	µg/kg	< 1.7 U	< 1.8 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	< 1.6 U	< 1.7 U
4-Nitrophenol			µg/kg	< 39 U	< 40 U									< 33 U	< 36 U
Acetone	100000000	24000	µg/kg	< 7.8 U	< 8 U	< 31 U	15 J	< 35 U	< 33 U	< 30 U	< 26 U	49	51	< 7.2 U	< 7.9 U
Benzene	5400	7.3	µg/kg	< 1.6 U	< 1.7 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	< 1.5 U	< 1.6 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg	< 11 U	< 12 U									< 9.5 U	< 10 U
Bromodichloromethane	1400	2.9	µg/kg	< 1.5 U	< 1.5 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	< 1.4 U	< 1.5 U
Chloroform	1500	340	µg/kg	< 1.6 U	< 1.7 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	< 1.5 U	< 1.7 U
Ethylbenzene	27000	8100	µg/kg	< 1.8 U	< 1.9 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	< 1.7 U	< 1.9 U
Methylene chloride	53000	23	µg/kg	1.4 JB	2.6 JB	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	1.4 JB	2.8 JB
Toluene	820000	5500	µg/kg	< 1.2 U	< 1.3 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	< 1.1 U	< 1.2 U
Trichloroethene	4000	18	µg/kg	< 1.7 U	< 1.8 U	< 7.6 U	< 7.8 U	< 8.8 U	< 8.2 U	< 7.4 U	< 6.5 U	< 5.2 U	< 5 U	< 1.6 U	< 1.8 U
Vinyl chloride	1700	0.19	µg/kg	< 1.7 U	< 1.8 U	< 15 U	< 16 U	< 18 U	< 16 U	< 15 U	< 13 U	< 10 U	< 10 U	< 1.6 U	< 1.8 U
Xylenes (total)	260000	5800	µg/kg	< 5.5 U	< 5.6 U	< 23 U	< 23 U	< 26 U	< 24 U	< 22 U	< 19 U	< 16 U	< 15 U	< 5.1 U	< 5.6 U

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

µg/kg = micrograms per kilogram

J = Concentration is estimated.

U = Compound was analyzed for, but not detected. The laboratory reporting limit is listed.

B = Analyte found in associated blank.

Bold font indicates detected concentration.

Shaded where the result exceeds the PSRG

Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-1I 10/2/2007 33.5 - 34	SB-1I 10/2/2007 35.5 - 36	SB-1J 1/7/2002 23.5 - 24	SB-1J 11/8/2002 33.5 - 34	SB-1J 11/8/2002 35 - 35.5	SB-1J 10/4/2007 13.5 - 14	SB-1J 10/4/2007 23.5 - 24	SB-1J 10/4/2007 23.5 - 24	SB-1J 10/4/2007 32.5 - 33	SB-1J 3/21/2012 13.5 - 14	SB-1J 3/21/2012 23.5 - 24	SB-1J 3/21/2012 26 - 27
Volatile Organic Compounds (µg/kg)															
1,1,2-Trichloroethane	93000	5.9	µg/kg	< 1.2 U	< 1.2 U	< 400 U	< 260 U	< 240 U	< 1.7 U	< 110 U	< 92 U	< 71 U	< 88 U	< 170 U	< 87 U
1,1-Dichloroethene	17000	30	µg/kg	< 1.3 U	< 1.3 U	< 400 U	< 260 U	< 240 U	< 1.9 U	< 120 U	< 100 U	< 78 U	< 88 U	< 170 U	< 87 U
1,2-Dichloroethane	2200	2	µg/kg	< 1.2 U	< 1.2 U	**7100**	**3500**	**640**	< 1.8 U	**1800**	**2000**	**4500**	< 88 U	**1100**	**690**
1,2-Dichloropropane	4700	3.2	µg/kg	< 1.2 U	< 1.3 U	< 400 U	< 260 U	< 240 U	2.1 J	< 110 U	< 96 U	< 74 U	< 88 U	< 170 U	< 87 U
4-Nitrophenol			µg/kg	< 32 U	< 32 U				< 36 U	< 34 U	< 34 U	< 36 U	< 850 U	< 970 U	< 980 U
Acetone	100000000	24000	µg/kg	14 J	18 J	< 1600 U	< 1000 U	< 950 U	< 8.1 U	< 120 U	< 100 U	< 80 U	< 440 U	< 870 U	< 430 U
Benzene	5400	7.3	µg/kg	< 1.2 U	< 1.2 U	< 400 U	< 260 U	< 240 U	< 1.7 U	< 100 U	< 90 U	< 69 U	< 22 U	< 44 U	< 22 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg	< 9.3 U	< 9.3 U				< 10 U	< 9.8 U	< 9.9 U	< 10 U	< 210 U	< 240 U	< 240 U
Bromodichloromethane	1400	2.9	µg/kg	< 1.1 U	< 1.1 U	< 400 U	< 260 U	< 240 U	< 1.6 U	< 97 U	< 84 U	< 65 U	< 180 U	< 350 U	< 170 U
Chloroform	1500	340	µg/kg	< 1.2 U	< 1.2 U	< 400 U	< 260 U	< 240 U	< 1.7 U	< 110 U	< 92 U	< 71 U	< 88 U	< 170 U	< 87 U
Ethylbenzene	27000	8100	µg/kg	< 1.3 U	< 1.3 U	< 400 U	< 260 U	< 240 U	< 1.9 U	< 120 U	< 100 U	< 79 U	< 22 U	29 J	20 J
Methylene chloride	53000	23	µg/kg	1.9 JB	1.3 JB	< 400 U	< 260 U	< 240 U	3.1 JB	< 77 U	< 67 U	< 51 U	< 440 U	< 870 U	< 430 U
Toluene	820000	5500	µg/kg	< 0.89 U	< 0.9 U	< 400 U	< 260 U	< 240 U	< 1.3 U	< 79 U	< 69 U	< 53 U	< 22 U	29 J	< 22 U
Trichloroethene	4000	18	µg/kg	< 1.3 U	< 1.3 U	< 400 U	< 260 U	< 240 U	< 1.8 U	< 110 U	< 97 U	< 75 U	< 22 U	< 44 U	< 22 U
Vinyl chloride	1700	0.19	µg/kg	< 1.3 U	< 1.3 U	< 810 U	< 510 U	< 480 U	< 1.8 U	< 110 U	< 97 U	< 75 U	< 22 U	< 44 U	< 22 U
Xylenes (total)	260000	5800	µg/kg	< 4 U	< 4 U	< 1200 U	< 770 U	< 710 U	< 5.7 U	< 350 U	< 310 U	< 240 U	23 J	71 J	66

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

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Bold font indicates detected concentration.

Shaded where the result exceeds the PSRG

Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-1J 3/21/2012 33.5 - 34	SB-1K 11/19/2002 23.5 - 24	SB-1K 11/19/2002 33.5 - 34	SB-1K 11/19/2002 35.5 - 36	SB-1K 10/1/2007 13.5 - 14	SB-1K 10/1/2007 13.5 - 14	SB-1K 10/1/2007 23.5 - 24	SB-1K 10/1/2007 33.5 - 34	SB-1K 10/1/2007 35.5 - 36	SB-1K 3/21/2012 13.5 - 14	SB-1K 3/21/2012 23.5 - 24	SB-1K 3/21/2012 29 - 29.5
Volatile Organic Compounds (µg/kg)															
1,1,2-Trichloroethane	93000	5.9	µg/kg	< 84 U	< 2200 U	< 3400 U	< 1700 U	< 170 U	< 510 U	< 880 U	< 1500 U	< 76 U	**210**	< 110 U	< 79 U
1,1-Dichloroethene	17000	30	µg/kg	< 84 U	< 2200 U	< 3400 U	< 1700 U	< 190 U	< 560 U	< 960 U	< 1700 U	< 84 U	< 170 U	< 110 U	< 79 U
1,2-Dichloroethane	2200	2	µg/kg	**2400**	**62000**	**98000**	**63000**	**120000**	**39000**	**54000**	**99000**	**120000**	**18000**	**8700**	**28000**
1,2-Dichloropropane	4700	3.2	µg/kg	< 84 U	< 2200 U	< 3400 U	< 1700 U	< 180 U	< 530 U	< 910 U	< 1600 U	< 79 U	< 170 U	< 110 U	< 79 U
4-Nitrophenol			µg/kg	< 1000 U	< 2100 U	< 2100 U	< 2000 U	< 39 U	< 40 U	< 34 U	< 33 U	< 37 U	< 54000 U	< 5400 U	< 910 U
Acetone	100000000	24000	µg/kg	< 420 U	< 8700 U	< 13000 U	< 7000 U	< 200 U	< 570 U	< 980 U	< 1700 U	< 85 U	< 860 U	< 540 U	< 390 U
Benzene	5400	7.3	µg/kg	< 21 U	< 2200 U	< 3400 U	< 1700 U	< 170 U	< 500 U	< 850 U	< 1500 U	< 74 U	< 43 U	< 27 U	< 20 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg	< 250 U	< 430 U	< 430 U	< 420 U	< 11 U	< 11 U	< 9.7 U	< 9.4 U	< 11 U	< 13000 U	< 1400 U	< 230 U
Bromodichloromethane	1400	2.9	µg/kg	< 170 U	< 2200 U	< 3400 U	< 1700 U	< 160 U	< 470 U	< 800 U	< 1400 U	< 69 U	< 340 U	< 220 U	< 160 U
Chloroform	1500	340	µg/kg	< 84 U	< 2200 U	< 3400 U	< 1700 U	< 170 U	< 510 U	< 870 U	< 1500 U	< 75 U	< 170 U	< 110 U	< 79 U
Ethylbenzene	27000	8100	µg/kg	32	< 2200 U	< 3400 U	< 1700 U	**23000**	< 570 U	< 970 U	< 1700 U	< 84 U	1400	< 27 U	< 20 U
Methylene chloride	53000	23	µg/kg	< 420 U	< 2200 U	< 3400 U	< 1700 U	< 130 U	< 370 U	< 630 U	< 1100 U	< 55 U	< 860 U	< 540 U	< 390 U
Toluene	820000	5500	µg/kg	14 J	< 2200 U	< 3400 U	< 1700 U	**13000**	< 380 U	< 650 U	< 1100 U	710	130	< 27 U	< 20 U
Trichloroethene	4000	18	µg/kg	< 21 U	< 2200 U	< 3400 U	< 1700 U	< 180 U	< 540 U	< 920 U	< 1600 U	< 80 U	< 43 U	< 27 U	< 20 U
Vinyl chloride	1700	0.19	µg/kg	< 21 U	< 4300 U	< 6700 U	< 3500 U	< 180 U	< 540 U	< 920 U	< 1600 U	< 80 U	< 43 U	< 27 U	< 20 U
Xylenes (total)	260000	5800	µg/kg	98	< 6500 U	< 10000 U	< 5200 U	**56000**	< 1700 U	< 2900 U	< 5100 U	< 250 U	1800	< 54 U	< 39 U

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

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Shaded where the result exceeds the PSRG

Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-1K 3/21/2012 33.5 - 34	SB-1K 3/21/2012 36-37	SB-2 8/9/2002 7 - 7.5	SB-2 8/9/2002 17 - 17.5	SB-2 8/9/2002 33 - 33.5	SB-2 10/3/2007 13.5 - 14	SB-2 10/3/2007 23.5 - 24	SB-2 10/3/2007 30.5 - 31	SB-3 8/8/2002 5 - 5.5	SB-3 8/8/2002 14 - 14.5	SB-3 8/8/2002 18 - 18.5	SB-3 8/8/2002 35.5 - 36
Volatile Organic Compounds (µg/kg)															
1,1,2-Trichloroethane	93000	5.9	µg/kg	**78 J**	**87 J**	< 6.7 U	< 6.6 U	< 6.9 U	< 1.4 U	< 1.7 U	< 1.8 U	< 6.2 U	< 7.5 U	< 6.6 U	< 6.1 U
1,1-Dichloroethene	17000	30	µg/kg	< 140 U	< 120 U	< 6.7 U	< 6.6 U	< 6.9 U	< 1.6 U	< 1.9 U	< 1.9 U	< 6.2 U	< 7.5 U	< 6.6 U	< 6.1 U
1,2-Dichloroethane	2200	2	µg/kg	**73000**	**97000**	< 6.7 U	< 6.6 U	< 6.9 U	< 1.5 U	< 1.8 U	< 1.8 U	< 6.2 U	< 7.5 U	< 6.6 U	< 6.1 U
1,2-Dichloropropane	4700	3.2	µg/kg	< 140 U	< 120 U	< 6.7 U	< 6.6 U	< 6.9 U	< 1.5 U	< 1.8 U	< 1.8 U	< 6.2 U	< 7.5 U	< 6.6 U	< 6.1 U
4-Nitrophenol			µg/kg	< 930 U	< 880 U	< 2200 U	< 2200 U	< 2300 U	< 34 U	< 35 U	< 39 U	< 2200 U	< 2100 U	< 2100 U	< 2200 U
Acetone	100000000	24000	µg/kg	< 710 U	< 620 U	< 27 U	40	30	< 6.8 U	< 8.2 U	< 8.3 U	7 J	< 30 U	< 26 U	11 J
Benzene	5400	7.3	µg/kg	< 35 U	< 31 U	< 6.7 U	< 6.6 U	< 6.9 U	< 1.4 U	< 1.7 U	< 1.7 U	< 6.2 U	< 7.5 U	< 6.6 U	< 6.1 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg	< 230 U	< 220 U	< 450 U	< 450 U	< 470 U	< 9.8 U	< 10 U	< 11 U	< 450 U	< 430 U	< 440 U	< 440 U
Bromodichloromethane	1400	2.9	µg/kg	< 280 U	< 250 U	< 6.7 U	< 6.6 U	< 6.9 U	< 1.3 U	< 1.6 U	< 1.6 U	< 6.2 U	< 7.5 U	< 6.6 U	< 6.1 U
Chloroform	1500	340	µg/kg	< 140 U	< 120 U	< 6.7 U	< 6.6 U	< 6.9 U	< 1.4 U	< 1.7 U	< 1.8 U	< 6.2 U	< 7.5 U	< 6.6 U	< 6.1 U
Ethylbenzene	27000	8100	µg/kg	71	220	< 6.7 U	< 6.6 U	< 6.9 U	< 1.6 U	< 1.9 U	< 2 U	< 6.2 U	< 7.5 U	< 6.6 U	< 6.1 U
Methylene chloride	53000	23	µg/kg	< 710 U	< 620 U	< 6.7 U	< 6.6 U	< 6.9 U	3 JB	3.2 JB	3.2 JB	< 6.2 U	< 7.5 U	< 6.6 U	< 6.1 U
Toluene	820000	5500	µg/kg	80	380	< 6.7 U	< 6.6 U	< 6.9 U	< 1.1 U	< 1.3 U	< 1.3 U	< 6.2 U	< 7.5 U	< 6.6 U	2.5 J
Trichloroethene	4000	18	µg/kg	< 35 U	< 31 U	3.3 J	9.6	5.1 J	< 1.5 U	< 1.8 U	< 1.9 U	13	17	16	29
Vinyl chloride	1700	0.19	µg/kg	< 35 U	< 31 U	< 13 U	< 13 U	< 14 U	< 1.5 U	< 1.8 U	< 1.9 U	< 12 U	< 15 U	< 13 U	< 12 U
Xylenes (total)	260000	5800	µg/kg	240	530	< 20 U	< 20 U	< 21 U	< 4.8 U	< 5.8 U	< 5.9 U	< 19 U	< 23 U	< 20 U	< 18 U

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

µg/kg = micrograms per kilogram

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Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-3 10/3/2007 13.5 - 14	SB-3 10/3/2007 23.5 - 24	SB-3 10/3/2007 25.5 - 26	SB-4 8/7/2002 5 - 5.5	SB-4 8/7/2002 15.5 - 16	SB-4 8/7/2002 23.5 - 24	SB-4 10/3/2007 13.5 - 14	SB-4 10/3/2007 22.5 - 23	SB-5 8/7/2002 5 - 5.5	SB-5 8/7/2002 11.5 - 12	SB-5 8/7/2002 23.5 - 24	SB-5 10/3/2007 13.5 - 14
Volatile Organic Compounds (µg/kg)															
1,1,2-Trichloroethane	93000	5.9	µg/kg	< 1.6 U	< 1.5 U	< 1.6 U	< 6.2 U	< 6.7 U	< 7.3 U	< 1.6 U	< 1.8 U	< 6.2 U	< 7.1 U	< 8.1 U	< 1.7 U
1,1-Dichloroethene	17000	30	µg/kg	< 1.7 U	< 1.7 U	< 1.8 U	< 6.2 U	< 6.7 U	< 7.3 U	< 1.7 U	< 2 U	< 6.2 U	< 7.1 U	< 8.1 U	< 1.9 U
1,2-Dichloroethane	2200	2	µg/kg	< 1.6 U	< 1.6 U	< 1.7 U	< 6.2 U	8.2	11	< 1.6 U	< 1.8 U	< 6.2 U	< 7.1 U	< 8.1 U	< 1.7 U
1,2-Dichloropropane	4700	3.2	µg/kg	< 1.6 U	< 1.6 U	< 1.7 U	< 6.2 U	15	54	< 1.6 U	11	< 6.2 U	< 7.1 U	< 8.1 U	< 1.8 U
4-Nitrophenol			µg/kg	< 35 U	< 37 U	< 39 U	< 2100 U	< 2200 U	< 2300 U	< 32 U	< 41 U	< 2000 U	< 2300 U	< 2400 U	< 35 U
Acetone	100000000	24000	µg/kg	< 7.3 U	< 7.2 U	8.5 J	15 J	63	14 J	< 7.4 U	72	< 25 U	< 28 U	9.2 J	< 7.9 U
Benzene	5400	7.3	µg/kg	< 1.5 U	< 1.5 U	< 1.6 U	< 6.2 U	< 6.7 U	< 7.3 U	< 1.5 U	< 1.7 U	< 6.2 U	< 7.1 U	< 8.1 U	< 1.6 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg	< 10 U	< 11 U	< 11 U	< 440 U	< 440 U	< 470 U	< 9.3 U	< 12 U	< 420 U	< 480 U	< 500 U	< 10 U
Bromodichloromethane	1400	2.9	µg/kg	< 1.4 U	< 1.4 U	< 1.5 U	< 6.2 U	< 6.7 U	< 7.3 U	< 1.4 U	< 1.6 U	< 6.2 U	< 7.1 U	< 8.1 U	< 1.5 U
Chloroform	1500	340	µg/kg	< 1.5 U	< 1.5 U	< 1.6 U	< 6.2 U	< 6.7 U	< 7.3 U	< 1.6 U	< 1.8 U	< 6.2 U	< 7.1 U	< 8.1 U	< 1.7 U
Ethylbenzene	27000	8100	µg/kg	< 1.7 U	< 1.7 U	< 1.8 U	< 6.2 U	< 6.7 U	60	< 1.8 U	27	< 6.2 U	< 7.1 U	< 8.1 U	< 1.9 U
Methylene chloride	53000	23	µg/kg	1.3 JB	2.4 JB	3.4 JB	2.7 J	< 6.7 U	11	1.9 JB	1.7 JB	10	< 7.1 U	14	2.1 JB
Toluene	820000	5500	µg/kg	< 1.2 U	< 1.1 U	< 1.2 U	< 6.2 U	< 6.7 U	4 J	< 1.2 U	< 1.3 U	6.2	< 7.1 U	< 8.1 U	< 1.3 U
Trichloroethene	4000	18	µg/kg	< 1.6 U	< 1.6 U	< 1.7 U	< 6.2 U	< 6.7 U	< 7.3 U	< 1.7 U	< 1.9 U	< 6.2 U	< 7.1 U	< 8.1 U	< 1.8 U
Vinyl chloride	1700	0.19	µg/kg	< 1.6 U	< 1.6 U	< 1.7 U	< 12 U	< 13 U	< 15 U	< 1.7 U	< 1.9 U	< 12 U	< 14 U	< 16 U	< 1.8 U
Xylenes (total)	260000	5800	µg/kg	< 5.1 U	< 5.1 U	< 5.3 U	< 19 U	11 J	37	< 5.2 U	< 5.9 U	< 19 U	< 21 U	< 24 U	< 5.6 U

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

µg/kg = micrograms per kilogram

J = Concentration is estimated.

U = Compound was analyzed for, but not detected. The laboratory reporting limit is listed.

B = Analyte found in associated blank.

Bold font indicates detected concentration.

Shaded where the result exceeds the PSRG

Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-5 10/3/2007 22.5 - 23	SB-6 2/20/2012 13 - 14	SB-6 2/20/2012 20 - 21	SB-6 2/20/2012 26 - 27	SB-7 2/20/2012 13 - 14	SB-7 2/20/2012 17 - 18	SB-7 2/20/2012 21 - 22	SB-8 2/20/2012 9 - 10	SB-8 2/20/2012 12 - 13	SB-8 2/20/2012 15 - 16	SB-8 3/20/2012 20 - 22	SB-9 2/20/2012 14 - 15
Volatile Organic Compounds (µg/kg)															
1,1,2-Trichloroethane	93000	5.9	µg/kg	< 2 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 160 U	< 980 U	< 1500 U	< 89 U	< 110 U
1,1-Dichloroethene	17000	30	µg/kg	< 2.2 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 160 U	**480 J**	< 1500 U	< 89 U	< 110 U
1,2-Dichloroethane	2200	2	µg/kg	< 2 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 160 U	< 980 U	< 1500 U	< 89 U	< 110 U
1,2-Dichloropropane	4700	3.2	µg/kg	< 2 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 160 U	< 980 U	< 1500 U	< 89 U	**1200**
4-Nitrophenol			µg/kg	< 39 U	< 880 U	< 1000 U	< 880 U	< 910 U	< 980 U	< 1200 U	< 920 U	< 18000 U	< 960 U	< 1100 U	< 910 U
Acetone	100000000	24000	µg/kg	< 9.2 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	310	25	< 790 U	< 4900 U	< 7700 U	< 440 U	< 530 U
Benzene	5400	7.3	µg/kg	< 1.9 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 39 U	< 240 U	< 380 U	< 22 U	< 27 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg	< 11 U	< 220 U	< 250 U	< 220 U	< 230 U	< 240 U	< 300 U	< 230 U	< 4500 U	< 240 U	**280**	< 230 U
Bromodichloromethane	1400	2.9	µg/kg	< 1.8 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 320 U	< 2000 U	< 3100 U	< 180 U	< 210 U
Chloroform	1500	340	µg/kg	< 1.9 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 160 U	< 980 U	< 1500 U	< 89 U	< 110 U
Ethylbenzene	27000	8100	µg/kg	< 2.2 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	**69000**	**320000**	**870000**	3000	220
Methylene chloride	53000	23	µg/kg	2.3 JB	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 790 U	< 4900 U	< 7700 U	< 440 U	< 530 U
Toluene	820000	5500	µg/kg	< 1.5 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	**26000**	**87000**	**200000**	130	250
Trichloroethene	4000	18	µg/kg	< 2.1 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 39 U	< 240 U	< 380 U	< 22 U	< 27 U
Vinyl chloride	1700	0.19	µg/kg	< 2.1 U	< 6.3 U	< 8.6 U	< 6.2 U	< 7.3 U	< 10 U	< 8.9 U	< 39 U	< 240 U	< 380 U	< 22 U	< 27 U
Xylenes (total)	260000	5800	µg/kg	< 6.5 U	< 13 U	< 17 U	< 12 U	< 15 U	< 21 U	< 18 U	**310000**	**1400000**	**3500000**	**10000**	2100

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

µg/kg = micrograms per kilogram

J = Concentration is estimated.

U = Compound was analyzed for, but not detected. The laboratory reporting limit is listed.

B = Analyte found in associated blank.

Bold font indicates detected concentration.

Shaded where the result exceeds the PSRG

Table 6
OU2 Trench Area Soil Analytical Results
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date Depth (ft)	IHSB PSRG Industrial Soil	Protection of Groundwater	Location ID Sample Date Depth (ft)	SB-9 2/20/2012 16 - 17	SB-9 2/20/2012 18 - 19	SB-10 2/20/2012 16 - 17	SB-10 2/20/2012 19 - 20	SB-10 2/20/2012 22 - 23	SB-11 2/20/2012 13 - 14	SB-11 2/20/2012 22 - 23	SB-11 2/20/2012 31 - 32
Volatile Organic Compounds (µg/kg)											
1,1,2-Trichloroethane	93000	5.9	µg/kg	< 75 U	< 75 U	< 8.6 U	< 7.8 U	4.4 J	< 9.1 U	< 8.9 U	< 7.3 U
1,1-Dichloroethene	17000	30	µg/kg	< 75 U	< 75 U	< 8.6 U	< 7.8 U	< 7.6 U	< 9.1 U	< 8.9 U	< 7.3 U
1,2-Dichloroethane	2200	2	µg/kg	< 75 U	**340**	**89**	**300**	**110**	< 9.1 U	< 8.9 U	**250**
1,2-Dichloropropane	4700	3.2	µg/kg	**740**	**9100**	< 8.6 U	< 7.8 U	< 7.6 U	< 9.1 U	< 8.9 U	< 7.3 U
4-Nitrophenol			µg/kg	< 870 U	< 960 U	< 900 U	< 930 U	< 980 U	< 920 U	< 930 U	< 890 U
Acetone	100000000	24000	µg/kg	< 370 U	< 370 U	< 8.6 U	80	17	< 9.1 U	< 8.9 U	92
Benzene	5400	7.3	µg/kg	< 19 U	< 19 U	< 8.6 U	< 7.8 U	< 7.6 U	< 9.1 U	< 8.9 U	< 7.3 U
bis(2-Chloroethyl) ether	1000	0.14	µg/kg	< 220 U	**70 J**	< 220 U	< 230 U	< 240 U	< 230 U	< 230 U	< 220 U
Bromodichloromethane	1400	2.9	µg/kg	< 150 U	< 150 U	< 8.6 U	< 7.8 U	< 7.6 U	< 9.1 U	< 8.9 U	< 7.3 U
Chloroform	1500	340	µg/kg	< 75 U	< 75 U	< 8.6 U	< 7.8 U	< 7.6 U	< 9.1 U	< 8.9 U	< 7.3 U
Ethylbenzene	27000	8100	µg/kg	410	2000	< 8.6 U	4.5 J	34	< 9.1 U	< 8.9 U	< 7.3 U
Methylene chloride	53000	23	µg/kg	< 370 U	< 370 U	< 8.6 U	< 7.8 U	< 7.6 U	< 9.1 U	< 8.9 U	< 7.3 U
Toluene	820000	5500	µg/kg	300	3900	< 8.6 U	67	6.7 J	< 9.1 U	< 8.9 U	< 7.3 U
Trichloroethene	4000	18	µg/kg	< 19 U	< 19 U	< 8.6 U	< 7.8 U	< 7.6 U	< 9.1 U	< 8.9 U	< 7.3 U
Vinyl chloride	1700	0.19	µg/kg	< 19 U	< 19 U	< 8.6 U	< 7.8 U	< 7.6 U	< 9.1 U	< 8.9 U	< 7.3 U
Xylenes (total)	260000	5800	µg/kg	3700	**13000**	< 17 U	20	88	< 18 U	< 18 U	< 15 U

NOTES:

Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PRGs, February 2012)

µg/kg = micrograms per kilogram

J = Concentration is estimated.

U = Compound was analyzed for, but not detected. The laboratory reporting limit is listed.

B = Analyte found in associated blank.

Bold font indicates detected concentration.

Shaded where the result exceeds the PSRG

Table 7

Historical Analytical Results – Operable Unit 3 Extraction and Monitoring Wells

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	CT-1 7/21/1999	CT-1 2/15/2000	CT-1 7/28/2000	CT-1 1/18/2001	CT-1 3/7/2002	CT-1 12/2/2002	CT-1 12/2/2003	CT-1 12/1/2004	CT-1 12/1/2005	CT-1 12/6/2007	CT-1 12/5/2008	CT-1 12/16/2009
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 5 U	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.39 U	< 1 U
1,1-Dichloroethene	7	< 5 U	1	< 5 U	2	1 J	< 1 U	1.9	2.4	0.55 J	2.7	< 0.56 U	< 1 U
1,2-Dichloroethane	1	< 5 U	**8**	**2 J**	**25**	**2**	**2.4**	**8.4**	**6.5**	**1.5**	**2.9**	0.5 J	< 1 U
1,2-Dichloropropane	1	< 5 U	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.36 U	< 1 U
Acetone	700	< 100 U	< 10 U	< 10 U	< 5 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	120	< 10 U
Chloroform	1	< 5 U	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.48 U	< 1 U
cis-1,2-Dichloroethene	70	< 5 U	< 1 U	< 5 U	1	1 J	< 1 U	1.8	2	0.71 J	4.1	< 0.55 U	< 1 U
Methylene chloride	5	< 5 U	< 1 U	< 5 U	< 1 U	< U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	0.78 J	< 2 U
Tetrachloroethene	1	< 5 U	< 1 U	< 5 U	< 1 U	< U	< 1 U	0.8 J	0.42 J	< 1 U	0.26 J	< 0.47 U	< 1 U
trans-1,2-Dichloroethene	70	< 5 U	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.54 U	< 1 U
Trichloroethene	2.8	< 5 U	< 1 U	< 5 U	1	J	< 1 U	1.7	2	0.48 J	2.4	< 0.59 U	< 1 U
Vinyl chloride	1	< 10 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 2 U	< 2 U	< 1 U	< 2 U	< 0.58 U	< 2 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 10 U	< 10 U	< 10 U	< 10 U	< 1 U	< 9.7 U	< 9.5 U	< 9.9 U	< 10 U	< 9.9 U	< 0.27 U	< 9.5 U
bis(2-Ethylhexyl) phthalate	5	< 10 U	< 10 U	< 10 U	< 10 U	< 1 U	< 9.7 U	< 9.5 U	< 9.9 U	< 10 U	< 9.9 U	< 0.47 U	< 9.5 U
Metals (µg/L)													
Antimony	6	< 5 U	< 5 U	< 2 U	3 B	< 4 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.8 U	1.4 UB
Chromium	50	< 2 U	< 2 U	< 1 U	1 B	< 1 U	1.4 B	0.63 B	< 5 U	< 5 U	< 5 U	< 1.1 U	0.57 J
Manganese	50	**2500**	**320**	**606**	**1010 E**	**163**	**88.5**	**465**	**343**	**2510**	**799**	27.4	11.9 J
Thallium	2	< 2 U	< 2 U	< 1 U	< 2 U	< 6 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.8 U	< 10 U
Zinc	2100	27	38	16 B	40	23	117	21	16.2 B	NA	42.1 J	9.9 B	4.9 UB

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU3 ROD Performance Standard	CT-1	CT-1	NS-13	NS-13	NS-13	NS-13	NS-13	NS-13	NS-13	NS-13	NS-13	NS-13
Sample Date		12/15/2010	12/7/2011	5/6/1998	5/6/1998	7/15/1999	7/21/2000	7/21/2000	3/8/2002	12/2/2003	12/1/2004	12/1/2005	11/30/2006
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 1 U	< 1 U	< 2000 U	< 1000 U	**41**	**28**	< 500 U	2	0.6 J	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 1 U	1.1	< 2000 U	< 1000 U	< 5 U	3 J	< 500 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	1	< 1 U	**1.6**	**39000 D**	**27000 E**	**76**	**1500 E**	**10000 D**	1 J	0.42 J	< 1 U	< 1 U	0.19 J
1,2-Dichloropropane	1	< 1 U	< 1 U	< 2000 U	< 1000 U	**14**	**7**	< 500 U	1 J	0.23 J	< 1 U	< 1 U	< 1 U
Acetone	700	< 10 U	< 5 U	< 2000 U	< 1000 U	< 100 U	< 10 U	< 1000 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U
Chloroform	1	< 1 U	< 1 U	< 2000 U	< 1000 U	**8**	**5**	< 500 U	< U	< 1 U	< 1 U	< 1 U	0.22 J
cis-1,2-Dichloroethene	70	< 1 U	1.5	NA	NA	< 5 U	< 5 U	< 500 U	< U	< 1 U	< 1 U	< 1 U	< 1 U
Methylene chloride	5	< 2 U	< 5 U	< 2000 U	< 1000 U	**8**	**6**	< 500 U	< U	< 2 U	< 2 U	< 2 U	< 2 U
Tetrachloroethene	1	< 1 U	< 1 U	< 2000 U	< 1000 U	< 5 U	**4 J**	< 500 U	< U	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	70	< 1 U	< 1 U	NA	NA	< 5 U	< 5 U	< 500 U	< U	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene	2.8	< 1 U	1.3	< 2000 U	< 1000 U	**12**	**8**	< 500 U	1 J	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	1	< 2 U	< 0.5 U	< 2000 U	< 1000 U	< 10 U	< 5 U	< 500 U	< 1 U	< 2 U	< 2 U	< 1 U	< 1 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 9.6 U	0.88 UB	NA	NA	< 10 U	1 J	NA	< 2 U	< 10 U	< 9.8 U	< 10 U	< 11 U
bis(2-Ethylhexyl) phthalate	5	< 9.6 U	< 9.3 U	NA	NA	< 10 U	< 10 U	NA	< 1 U	< 10 U	**8.3 J**	< 10 U	< 11 U
Metals (µg/L)													
Antimony	6	< 10 U	< 20 U	NA	< 5 U	< 5 U	< 2 U	NA	< 4 U	< 10 U	**104**	3.5 B J	< 10 U
Chromium	50	1 B	< 10 U	NA	10 J	< 2 U	50	NA	**73**	15.6 J	5.2	9.6	7.4
Manganese	50	11.2 B, J	**57**	NA	**240**	**2900**	**2060**	NA	**157**	21.7	44.8	**55.5**	48.5
Thallium	2	< 10 U	< 10 U	NA	< 10 U	< 2 U	< 1 U	NA	< 6 U	< 10 U	< 10 U	< 10 U	< 10 U
Zinc	2100	3.1 B	6.7 UB	NA	< 20 U	16	2 B	NA	8 B	4.6 B J	< 20 U	5.6 B J	2 J

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-13 12/5/2008	NS-13 12/10/2009	NS-13 12/14/2010	NS-13 12/2/2011	NS-14 5/5/1998	NS-14 7/14/1999	NS-14 7/21/1999	NS-14 7/19/2000	NS-14 7/19/2000	NS-14 12/2/2003	NS-14 12/1/2004	NS-14 12/1/2005
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U	NA	< 500 U	NA	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 0.28 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U	NA	< 500 U	NA	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	1	< 0.21 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U	NA	**3000 D**	NA	0.23 J	< 1 U	< 1 U
1,2-Dichloropropane	1	< 0.18 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U	NA	< 500 U	NA	< 1 U	< 1 U	< 1 U
Acetone	700	< 2.5 U	< 10 U	< 10 U	5.1	< 10 U	< 100 U	NA	NA	NA	< 10 U	< 10 U	< 10 U
Chloroform	1	< 0.24 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U	NA	NA	NA	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	< 0.27 U	< 1 U	< 1 U	< 1 U	NA	< 5 U	NA	NA	NA	< 1 U	< 1 U	< 1 U
Methylene chloride	5	< 0.32 U	< 2 U	< 2 U	**6.9 UB**	< 10 U	< 5 U	NA	NA	NA	< 2 U	< 2 U	< 2 U
Tetrachloroethene	1	< 0.24 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U	NA	NA	< 5 U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	70	< 0.27 U	< 1 U	< 1 U	< 1 U	NA	< 5 U	NA	NA	< 5 U	< 1 U	< 1 U	< 1 U
Trichloroethene	2 8	< 0.29 U	< 1 U	< 1 U	< 0.5 U	< 10 U	< 5 U	NA	NA	< 5 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	1	< 0.29 U	< 2 U	< 2 U	< 0.5 U	< 10 U	< 10 U	NA	NA	< 5 U	< 2 U	< 2 U	< 1 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 0.26 U	< 9.5 U	< 9.4 U	< 1.9 U	NA	NA	< 10 U	NA	< 10 U	< 9.8 U	< 11 U	< 10 U
bis(2-Ethylhexyl) phthalate	5	< 0.46 U	< 9.5 U	< 9.4 U	< 9.3 U	NA	NA	< 10 U	NA	< 10 U	< 9.8 U	**6.9 J**	< 10 U
Metals (µg/L)													
Antimony	6	< 1.8 U	2.1 UB	< 10 U	2.8 J	NA	< 5 U	NA	NA	< 2 U	< 10 U	< 10 U	< 10 U
Chromium	50	9.4	4.9 J	2.4 B	2.7 J	NA	4	NA	NA	8 B	3.7 B J	5.8	2.9 B
Manganese	50	**64.3**	**62.2**	46.7	30	NA	8	NA	NA	**80**	6 B	9.1 B	5.9 B
Thallium	2	< 2.8 U	< 10 U	< 10 U	< 10 U	NA	< 2 U	NA	NA	< 1 U	< 10 U	< 10 U	< 10 U
Zinc	2100	13.5 B	< 20 U	3.3 B	8.4 UB	NA	16	NA	NA	137	4.2 B J	2.8 B	7.6 B J

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-14 11/30/2006	NS-14 12/5/2008	NS-24 7/14/1999	NS-24 1/25/2000	NS-24 7/18/2000	NS-24 7/18/2000	NS-24 7/18/2000	NS-24 7/18/2000	NS-24 7/18/2000	NS-24 7/18/2000	NS-24 7/18/2000	NS-24 1/16/2001
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 1 U	< 0.2 U	< 5 U	< 1 U	NA	NA	NA	< 2500 U	< 25 U	**42 D**	< 5 U	< 1 U
1,1-Dichloroethene	7	< 1 U	< 0.28 U	< 5 U	< 1 U	NA	NA	NA	< 2500 U	< 25 U	< 10 U	< 5 U	< 1 U
1,2-Dichloroethane	1	< 1 U	< 0.21 U	< 5 U	< 1 U	NA	**92000 D**	**51 D**	**6300 ED**	**820 E**	**130**	< 5 U	**21**
1,2-Dichloropropane	1	< 1 U	< 0.18 U	< 5 U	< 1 U	NA	NA	NA	< 2500 U	< 25 U	**12 D**	< 5 U	< 1 U
Acetone	700	< 10 U	< 2.5 U	< 100 U	< 10 U	NA	NA	NA	< 5000 U	< 50 U	< 20 U	< 10 U	20
Chloroform	1	< 1 U	< 0.24 U	< 5 U	< 1 U	NA	NA	NA	< 2500 U	< 25 U	< 10 U	< 5 U	< 1 U
cis-1,2-Dichloroethene	70	< 1 U	< 0.27 U	< 5 U	< 1 U	< 10 U	NA	NA	NA	< 2500 U	< 25 U	< 5 U	< 1 U
Methylene chloride	5	< 2 U	< 0.32 U	< 5 U	< 1 U	NA	< 2500 U	< 25 U	**38 D**	**7**	**6**	< 5 U	< 1 U
Tetrachloroethene	1	< 1 U	< 0.24 U	< 5 U	< 1 U	NA	NA	NA	< 2500 U	< 25 U	**7 JD**	< 5 U	< 1 U
trans-1,2-Dichloroethene	70	< 1 U	< 0.27 U	< 5 U	< 1 U	NA	NA	NA	< 2500 U	< 25 U	< 10 U	< 5 U	< 1 U
Trichloroethene	2.8	< 1 U	< 0.29 U	< 5 U	< 1 U	NA	NA	< 2500 U	< 25 U	**12 D**	< 5 U	2 J	< 1 U
Vinyl chloride	1	< 1 U	< 0.29 U	< 10 U	< 1 U	NA	< 2500 U	< 25 U	**28 D**	**24**	< 5 U	**4 J**	< 1 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 11 U	< 0.26 U	**57**	**45**	NA	NA	NA	NA	NA	NA	**50**	**53**
bis(2-Ethylhexyl) phthalate	5	< 11 U	< 0.46 U	< 10 U	< 10 U	NA	NA	NA	NA	NA	NA	< 10 U	< 10 U
Metals (µg/L)													
Antimony	6	< 10 U	< 1.8 U	< 5 U	< 5 U	NA	NA	NA	NA	NA	NA	< 2 U	< 1 U
Chromium	50	2.9 J	7.6	< 2 U	< 2 U	NA	NA	NA	NA	NA	NA	< 1 U	< 1 U
Manganese	50	3.2 J	15.2	**7600**	**4900**	NA	NA	NA	NA	NA	NA	**4880**	**4830 E**
Thallium	2	< 10 U	< 2.8 U	< 2 U	< 2 U	NA	NA	NA	NA	NA	NA	< 1 U	< 2 U
Zinc	2100	2 J	11 B	88	< 10 U	NA	NA	NA	NA	NA	NA	< 2 U	31

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID / Sample Date	OU3 ROD Performance Standard	NS-24 3/14/2002	NS-24 12/2/2002	NS-24 12/2/2003	NS-24 12/1/2004	NS-24 12/1/2005	NS-24 12/10/2007	NS-24 12/10/2007	NS-24 12/9/2008	NS-33 5/5/1998	NS-33 6/14/2000	NS-33 11/20/2000	NS-33 7/26/2001
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 10 U	< 5 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	< 10 U	NA	< 1 U	< 1 U
1,2-Dichloroethane	1	< U	< 1 U	0.38 J	< 1 U	0.11 J	0.18 J	0.18 J	< 0.21 U	< 10 U	< 5 U	< 1 U	< 1 U
1,2-Dichloropropane	1	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	< 10 U	< 5 U	< 1 U	< 1 U
Acetone	700	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 10 U	< 10 U	< 2 U	< 2 U
Chloroform	1	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 10 U	< 5 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	< U	< 1 U	< 1 U	< 1 U	< 1 U	0.16 J	0.16 J	< 0.27 U	NA	NA	NA	NA
Methylene chloride	5	< U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.32 U	< 10 U	< 5 U	< 1 U	< 1 U
Tetrachloroethene	1	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 10 U	< 5 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	70	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	NA	NA	NA	NA
Trichloroethene	2.8	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.29 U	< 10 U	< 5 U	< 1 U	< 1 U
Vinyl chloride	1	< 1 U	< 1 U	< 2 U	< 2 U	< 1 U	0.22 J	0.22 J	< 0.29 U	< 10 U	< 5 U	< 1 U	< 1 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	**40**	**29**	**21**	**51**	**75**	**85**	**85**	**62**	NA	< 10 U	< 10 U	< 10 U
bis(2-Ethylhexyl) phthalate	5	< 1 U	< 9.6 U	< 9.5 U	< 11 U	< 10 U	< 10 U	< 10 U	< 0.48 U	NA	< 10 U	< 10 U	< 10 U
Metals (µg/L)													
Antimony	6	< 4 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.8 U	NA	< 2 U	< 1 U	< 1 U
Chromium	50	2 B	< 5 U	1.7 B	1.3 B	1.4 B	< 5 U	< 5 U	1.2 B	NA	29	37	37
Manganese	50	**3200 J**	**2640**	**2590**	**3620**	**4300**	**4220**	**4220**	**3830**	NA	**120**	**56**	**56**
Thallium	2	< 6 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.8 U	NA	< 1 U	< 1 U	< 1 U
Zinc	2100	10 B	< 20 U	2 B	< 20 U	2 B J	1.6 B	1.6 B	5.3 B	NA	5 B	4 B	4 B

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID / Sample Date	OU3 ROD Performance Standard	NS-33 2/7/2002	NS-33 7/11/2002	NS-33 7/23/2003	NS-33 12/16/2003	NS-33 7/23/2004	NS-33 12/13/2004	NS-33 6/15/2005	NS-33 12/1/2005	NS-33 7/11/2006	NS-33 11/29/2006	NS-33 7/10/2007	NS-33 12/4/2007
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	<1 U	<0.4 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	<1 U	<0.3 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
1,2-Dichloroethane	1	<1 U	<0.3 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
1,2-Dichloropropane	1	<1 U	<0.3 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
Acetone	700	<10 U	< 1 U	3.6 JB	<5 U	<10 U	<5 U	<10 U	<5 U	<10 U	<5 U	< 5 U	< 5 U
Chloroform	1	<1 U	<0.3 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	<1 U	<0.3 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
Methylene chloride	5	<2 U	<0.3 U	<2 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
Tetrachloroethene	1	<1 U	<0.3 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	70	<1 U	<0.3 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
Trichloroethene	2.8	<1 U	<0.3 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	< 1 U	< 1 U
Vinyl chloride	1	<2 U	<0.4 U	<2 U	<1 U	<2 U	<1 U	<2 U	<1 U	<2 U	<1 U	< 1 U	< 1 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	<10 U	< 2 U	<10 U	<9.7 U	<9.8 U	<9.9 U	<10 U	<10 U	<10 U	<9.9 U	< 9.9 U	< 10 U
bis(2-Ethylhexyl) phthalate	5	<10 U	< 2 U	3.4 J	<9.7 U	6.4 J	<9.9 U	<10 U	<10 U	3.1 J	<9.9 U	< 9.9 U	< 10 U
Metals (µg/L)													
Antimony	6	<4.1 U	<1.4 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	< 10 U	< 10 U
Chromium	50	3.8 B	6.6 B	4.4 B	5.4	2.7 B	3.2 B	3.8 B	4.2 B	3.8 B	3.7 B	**84.6**	5.1
Manganese	50	3.1 B	19.1	10.1 B	17.1	3.7 BJ	3.0 BJ	4.6 B	6.2 B	8.2 B	2.1 B	19.8	5.2 B
Thallium	2	<5.7 U	< 3.8 U	7.5 B	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	< 10 U	< 5 U
Zinc	2100	<3.7 U	28.2 B	1.9 B	3.8 B	2.3 B	<20 U	<20 U	2.5 BJ	5.1 JB	2.6 B	6.2 B	21.7 B

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-33 7/2/2008	NS-33 12/3/2008	NS-33 7/8/2009	NS-33 7/15/2010	NS-33 7/29/2011	NS-33 12/6/2011	NS-34 5/5/1998	NS-35 5/6/1998	NS-35 9/9/1998	NS-35 9/9/1998	NS-35 7/13/1999	NS-35 1/20/2000
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	<1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 2500 U	< 100 U	< 1000 U	< 5 U	3
1,1-Dichloroethene	7	<1 U	< 0.28 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 2500 U	< 100 U	< 1000 U	< 5 U	2
1,2-Dichloroethane	1	<1 U	< 0.21 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	**50000**	**12000 E**	**18000 D**	**40000**	**41000**
1,2-Dichloropropane	1	<1 U	< 0.18 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 2500 U	< 100 U	< 1000 U	< 5 U	**3**
Acetone	700	<5 U	< 2.5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	< 2500 U	< 100 U	< 1000 U	< 100 U	< 10 U
Chloroform	1	<1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 2500 U	< 100 U	< 1000 U	< 5 U	< 1 U
cis-1,2-Dichloroethene	70	<1 U	< 0.27 U	< 1 U	< 1 U	< 1 U	< 2 U	NA	NA	NA	NA	< 5 U	1
Methylene chloride	5	<1 U	< 0.32 U	0.32 J	< 1 U	< 1 U	< 5 U	< 10 U	< 2500 U	< 100 U	< 1000 U	< 5 U	< 1 U
Tetrachloroethene	1	<1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 2500 U	< 100 U	< 1000 U	< 5 U	**4**
trans-1,2-Dichloroethene	70	<1 U	< 0.27 U	< 1 U	< 1 U	< 1 U	< 1 U	NA	NA	< 100 U	< 1000 U	< 5 U	< 1 U
Trichloroethene	2.8	<1 U	< 0.29 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 10 U	< 2500 U	< 100 U	< 1000 U	< 5 U	**5**
Vinyl chloride	1	<1 U	< 0.29 U	< 1 U	< 1 U	< 1 U	< 0.5 U	< 10 U	< 2500 U	**60 J**	< 1000 U	**58**	**110**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	<9.9 U	< 0.27 U	< 9.8 U	< 9.4 U	< 2 U	< 1.9 U	NA	NA	NA	NA	< 10 U	< 10 U
bis(2-Ethylhexyl) phthalate	5	6.5 J	< 0.47 U	< 9.8 U	< 9.4 U	< 20 U	< 9.5 U	NA	NA	NA	NA	< 10 U	< 10 U
Metals (µg/L)													
Antimony	6	<10 U	< 1.8 U	< 10 U	< 10 U	< 10 UH	3.4 J	< 5 U	< 5 U	< 5 U	NA	< 5 U	< 5 U
Chromium	50	3.9 B	4.9 B	3.5 J	3.6 B	38 H	**200**	13	13	7 J	NA	< 2 U	< 2 U
Manganese	50	2.9 B	3.4 B	1.2 J	2.7 B	29 H	50	< 15 U	**780**	**928**	NA	**3600**	**5300**
Thallium	2	<10 U	**4.3 BJ**	**7 J**	< 10 U	< 10 UH	< 10 U	**7 J**	**6 J**	< 10 U	NA	< 2 U	< 2 U
Zinc	2100	1.3 BJ	14.3 BJ	5.8 UB	< 20 U	4.0 JH	6.3 J	< 20 U	5 J	9 J	NA	17	< 10 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-35 7/24/2000	NS-35 7/24/2000	NS-35 1/18/2001	NS-35 1/18/2001	NS-35 3/7/2002	NS-35 12/2/2002	NS-35 12/2/2003	NS-35 12/1/2004	NS-35 12/1/2005	NS-35 12/6/2007	NS-35 12/8/2008	NS-35 4/22/2009
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 500 U	< 5 U	< 250 U	< 1 U	< 110 U	< 1000 U	< 2500 U	< 1000 U	< 20 U	< 40 U	< 7.8 U	< 500 U
1,1-Dichloroethene	7	< 500 U	< 5 U	< 250 U	1 J	< 130 U	< 1000 U	< 2500 U	< 1000 U	< 20 U	< 40 U	< 11 U	< 500 U
1,2-Dichloroethane	1	**17000 D**	**2900 E**	**5000 D**	**710 E**	**6700**	**21000**	**53000**	**27000**	**470**	**570**	**5800**	**13000**
1,2-Dichloropropane	1	< 500 U	< 5 U	< 250 U	< 1 U	< 120 U	< 1000 U	< 2500 U	< 1000 U	< 20 U	< 40 U	< 7.2 U	< 500 U
Acetone	700	< 1000 U	< 10 U	**2200 D**	20	< 620 U	< 10000 U	< 25000 U	< 10000 U	< 200 U	< 400 U	< 100 U	< 2000 U
Chloroform	1	< 500 U	< 5 U	< 250 U	< 1 U	< 120 U	< 1000 U	< 2500 U	< 1000 U	< 20 U	< 40 U	< 48 U	< 500 U
cis-1,2-Dichloroethene	70	< 500 U	< 5 U	< 250 U	2	< 72 U	< 1000 U	< 2500 U	< 1000 U	< 20 U	< 40 U	< 11 U	< 500 U
Methylene chloride	5	< 500 U	< 5 U	< 250 U	< 1 U	< 90 U	**210 J**	< 5000 U	< 2000 U	< 40 U	< 80 U	< 13 U	< 500 U
Tetrachloroethene	1	< 500 U	**4 J**	< 250 U	1 J	< 90 U	< 1000 U	< 2500 U	< 1000 U	**6 J**	**6.2 J**	< 9.4 U	< 500 U
trans-1,2-Dichloroethene	70	< 500 U	< 5 U	< 250 U	< 1 U	< 93 U	< 1000 U	< 2500 U	< 1000 U	< 20 U	< 40 U	< 11 U	< 500 U
Trichloroethene	2.8	< 500 U	**6**	< 250 U	**3**	< 98 U	< 1000 U	< 2500 U	< 1000 U	**7 J**	< 40 U	< 12 U	**150 J**
Vinyl chloride	1	< 500 U	**210 E**	< 250 U	**48 E**	< 150 U	< 1000 U	< 5000 U	< 2000 U	**69**	**61 J**	**85**	**1100**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	< 10 U	NA	< 10 U	< 1 U	< 9.7 U	< 10 U	< 11 U	< 10 U	< 10 U	< 0.27 U	NA
bis(2-Ethylhexyl) phthalate	5	NA	3 J	NA	< 10 U	< 1 U	< 9.7 U	< 10 U	< 11 U	1.9 J	< 10 U	< 0.48 U	NA
Metals (µg/L)													
Antimony	6	NA	< 2 U	NA	< 1 U	< 4 U	< 10 U	< 10 U	< 10 U	4.4 B J	< 10 U	< 1.8 U	NA
Chromium	50	NA	< 1 U	NA	3 B	4 B	2.1 B	2.8 B	4.3 B	7.2 B J	3.1 B	5.1	NA
Manganese	50	NA	**6730**	NA	**9730 E**	**11100**	**8110**	**9530**	**11500**	**13300**	**14500**	**15600**	**11300**
Thallium	2	NA	< 1 U	NA	< 2 U	< 11 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.8 U	NA
Zinc	2100	NA	8 B	NA	24	< 4 U	< 20 U	7.2 B	3.2 B	7.2 B J	10.3 JB	10.9 B	NA

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-35 4/22/2009	NS-35 12/14/2009	NS-35 12/7/2010	NS-35 12/1/2011	NS-36 5/6/1998	NS-36 5/6/1998	NS-36 9/9/1998	NS-36 7/14/1999	NS-36 1/20/2000	NS-36 7/24/2000	NS-36 7/24/2000	NS-36 1/18/2001
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	NA	< 200 U	< 25	< 1 U	< 500 U	< 1000 U	< 10 U	**20**	**23**	< 5000 U	**20**	< 1 U
1,1-Dichloroethene	7	NA	< 200 U	< 25	< 1 U	< 500 U	< 1000 U	< 10 U	< 5 U	5	< 5000 U	7	**11**
1,2-Dichloroethane	1	NA	**3700**	**630**	**39**	**9800 E**	**7900 D**	**180**	**52000**	**60000**	**63000 D**	**4000 E**	**3400 E**
1,2-Dichloropropane	1	NA	< 200 U	< 25	< 1 U	< 500 U	< 1000 U	< 10 U	< 5 U	**2**	< 5000 U	**3 J**	< 1 U
Acetone	700	NA	< 2000 U	< 120	< 5 U	< 500 U	< 1000 U	23	< 25000 U	< 10 U	< 10000 U	8 J	< 5 U
Chloroform	1	NA	< 200 U	< 25	< 1 U	< 500 U	< 1000 U	< 10 U	< 5 U	**2**	< 5000 U	**3 J**	**4**
cis-1,2-Dichloroethene	70	NA	< 200 U	< 25	2.2	NA	NA	NA	< 5 U	1	< 5000 U	< 5 U	3
Methylene chloride	5	NA	< 400 U	**8.0 J**	< 5 U	< 500 U	< 1000 U	< 10 U	< 5 U	2	< 5000 U	4 J	**6 B**
Tetrachloroethene	1	NA	< 200 U	< 25	< 1 U	< 500 U	< 1000 U	< 10 U	< 5 U	**4**	< 5000 U	**4 J**	**7**
trans-1,2-Dichloroethene	70	NA	< 200 U	< 25	< 1 U	NA	NA	< 10 U	< 5 U	< 1 U	< 5000 U	< 5 U	1 J
Trichloroethene	2.8	NA	< 200 U	**7.2 J**	**4.1**	< 500 U	< 1000 U	< 10 U	**7**	**8**	< 5000 U	**12**	**21**
Vinyl chloride	1	NA	< 400 U	**16 J**	**11**	< 500 U	< 1000 U	**12**	**99**	**130**	< 5000 U	**280 E**	**350 E**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	< 9.7 U	< 9.8	0.79 J	NA	NA	NA	< 10 U	< 11 U	NA	< 10 U	1 J
bis(2-Ethylhexyl) phthalate	5	NA	< 9.7 U	< 9.8	< 9.3 U	NA	NA	NA	< 10 U	< 11 U	NA	2 J	< 10 U
Metals (µg/L)													
Antimony	6	NA	< 10 U	< 10	< 20 U	NA	NA	NA	< 5 U	< 5 U	NA	< 2 U	< 1 U
Chromium	50	NA	< 5 U	< 5	< 10 UJ	NA	NA	NA	< 2 U	< 2 U	NA	< 1 U	1 B
Manganese	50	**11000**	**10700**	**12400**	**14,000**	NA	NA	NA	**1200**	**1300**	NA	**1850**	**2290 E**
Thallium	2	NA	**4.8 J**	< 10	1.0 J	NA	NA	NA	< 2 U	< 2 U	NA	< 1 U	< 2 U
Zinc	2100	NA	2.6 J	< 20	4.5 UB	NA	NA	NA	17	< 10 U	NA	< 2 U	< 9 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-36 1/18/2001	NS-36 3/7/2002	NS-36 12/2/2002	NS-36 12/2/2003	NS-36 12/1/2004	NS-36 12/1/2005	NS-36 12/6/2007	NS-36 12/8/2008	NS-36 4/22/2009	NS-36 4/22/2009	NS-36 12/14/2009	NS-36 12/7/2010
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 5000 U	< 650 U	< 2000 U	< 2500 U	**7.2 J**	< 2000 U	< 2000 U	< 390 U	< 50 U	NA	< 2000 U	< 1500 U
1,1-Dichloroethene	7	< 5000 U	< 770 U	< 2000 U	< 2500 U	< 10 U	< 2000 U	< 2000 U	< 560 U	< 50 U	NA	< 2000 U	< 1500 U
1,2-Dichloroethane	1	**130000 D**	**39000**	**77000**	**75000**	**63000**	**53000**	**43000**	**36000**	**700**	NA	**38000**	**34000**
1,2-Dichloropropane	1	< 5000 U	< 690 U	< 2000 U	< 2500 U	< 10 U	< 2000 U	< 2000 U	< 360 U	< 50 U	NA	< 2000 U	< 1500 U
Acetone	700	< 25000 U	< 3800 U	< 20000 U	< 25000 U	< 100 U	< 20000 U	< 20000 U	< 5000 U	< 200 U	NA	< 20000 U	< 15000 U
Chloroform	1	< 5000 U	< 730 U	< 2000 U	< 2500 U	< 10 U	< 2000 U	< 2000 U	< 480 U	< 50 U	NA	< 2000 U	< 1500 U
cis-1,2-Dichloroethene	70	< 5000 U	< 430 U	< 2000 U	< 2500 U	< 10 U	< 2000 U	< 2000 U	< 550 U	< 50 U	NA	< 2000 U	< 1500 U
Methylene chloride	5	**3600 JD**	< 540 U	< 4000 U	< 5000 U	< 20 U	< 4000 U	< 4000 U	< 640 U	< 50 U	NA	< 4000 U	< 3000 U
Tetrachloroethene	1	< 5000 U	< 540 U	< 2000 U	< 2500 U	**4.8 J**	< 2000 U	< 2000 U	< 470 U	< 50 U	NA	< 2000 U	< 1500 U
trans-1,2-Dichloroethene	70	< 5000 U	< 560 U	< 2000 U	< 2500 U	< 10 U	< 2000 U	< 2000 U	< 540 U	< 50 U	NA	< 2000 U	< 1500 U
Trichloroethene	2.8	< 5000 U	< 590 U	< 2000 U	< 2500 U	**9.9 J**	< 2000 U	< 2000 U	< 590 U	**10 J**	NA	< 2000 U	< 1500 U
Vinyl chloride	1	< 5000 U	< 900 U	< 2000 U	< 5000 U	**260**	< 2000 U	< 4000 U	< 580 U	**69**	NA	< 4000 U	< 3000 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	< 1 U	< 10 U	< 9.6 U	< 10 U	< 9.8 U	0.83 J	< 0.26 U	NA	NA	< 9.4 U	< 9.4 U
bis(2-Ethylhexyl) phthalate	5	NA	< 1 U	< 10 U	< 9.6 U	< 10 U	< 9.8 U	< 10 U	< 0.46 U	NA	NA	< 9.4 U	< 9.4 U
Metals (µg/L)													
Antimony	6	NA	< 4 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.8 U	NA	NA	< 10 U	< 10 U
Chromium	50	NA	3 B	1.8 B	4.8 B	1.4 B	14.7 B J	2 B	2.1 B	NA	NA	< 5 U	< 5 U
Manganese	50	NA	**2600**	**2970**	**3430**	**3130**	**3950**	**3750**	**3770**	**2130**	**2090**	**4190**	**3070**
Thallium	2	NA	< 6 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.8 U	NA	NA	**2.5 J**	< 10 U
Zinc	2100	NA	8 B	4.8 B	2.2 B	5.1 B	14.7 B J	11.4 JB	5.4 B	NA	NA	21.8	<20 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-36 12/1/2011	NS-37 5/5/1998	NS-37 7/14/1999	NS-37 1/21/2000	NS-37 7/19/2000	NS-37 1/22/2001	NS-37 3/14/2002	NS-37 12/2/2002	NS-37 12/2/2003	NS-37 12/1/2004	NS-37 12/1/2005	NS-37 12/10/2007
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 20 U	< 10 U	< 5 U	< 1 U	NA	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 20 U	< 10 U	< 5 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	1	**13,000**	< 10 U	< 5 U	< 1 U	NA	< 1 U	< U	< 1 U	< 1 U	< 1 U	0.25 J	0.35 J
1,2-Dichloropropane	1	< 20 U	< 10 U	< 5 U	< 1 U	NA	< 1 U	< U	0.28 J	< 1 U	< 1 U	0.24 J	< 1 U
Acetone	700	< 100 U	10	< 100 U	< 10 U	< 10 U	< 2 U	< 2 U	4.9 J	< 10 U	< 10 U	< 10 U	2.6 J
Chloroform	1	< 20 U	**42**	< 5 U	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	< 20 U	NA	< 5 U	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Methylene chloride	5	< 100 U	< 10 U	< 5 U	< 1 U	**7**	JB	< U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
Tetrachloroethene	1	< 20 U	< 10 U	< 5 U	< 1 U	NA	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	70	< 20 U	NA	< 5 U	< 1 U	NA	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene	2.8	< 10 U	< 10 U	< 5 U	< 1 U	NA	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	1	**94**	< 10 U	< 10 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 2 U	< 2 U	< 1 U	< 2 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 19 U	NA	< 10 U	< 10 U	< 10 U	< 10 U	< 1 U	4.1 J	< 9.8 U	< 10 U	< 9.9 U	2 J
bis(2-Ethylhexyl) phthalate	5	< 97 U	NA	< 10 U	< 10 U	< 10 U	1 J	< 1 U	< 9.9 U	< 9.8 U	< 10 U	< 9.9 U	< 11 U
Metals (µg/L)													
Antimony	6	2.8 J	NA	< 5 U	< 5 U	< 2 U	NA	< 4 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Chromium	50	4.6 J	NA	**240**	38	7 B	6 B	30	11.8	5.8 J	4.2 B	5.5 B J	< 5 U
Manganese	50	**3,600**	NA	**490**	**150**	**92**	**142 E**	**1280 J**	**6570**	**972**	**1130**	**1600**	**3260**
Thallium	2	< 10 U	NA	< 2 U	< 2 U	< 1 U	NA	< 6 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Zinc	2100	12 UB	NA	66	< 10 U	22	24	5 B	5.2 B	2.2 B	< 20 U	5.5 B J	< 20 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-37 12/9/2008	NS-37 4/23/2009	NS-37 4/23/2009	NS-38 5/5/1998	NS-38 9/9/1998	NS-38 7/14/1999	NS-38 1/21/2000	NS-38 7/19/2000	NS-38 1/19/2001	NS-38 3/14/2002	NS-38 12/2/2002	NS-38 12/2/2003
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 0.2 U	< 5 U	NA	< 10 U	< 10 U	< 5 U	< 1 U	NA	< 5 U	< U	< 1 U	< 4 U
1,1-Dichloroethene	7	< 0.28 U	< 5 U	NA	< 10 U	< 10 U	< 5 U	< 1 U	NA	< 5 U	< 1 U	< 1 U	< 4 U
1,2-Dichloroethane	1	< 0.21 U	< 5 U	NA	< 10 U	< 10 U	< 5 U	< 1 U	NA	< 5 U	< U	< 1 U	< 4 U
1,2-Dichloropropane	1	< 0.18 U	< 5 U	NA	< 10 U	< 10 U	< 5 U	**3**	NA	< 5 U	< U	< 1 U	< 4 U
Acetone	700	< 2.5 U	7.4 J	NA	49	< 10 U	180	160	NA	110 D	31	18	63
Chloroform	1	< 0.24 U	< 5 U	NA	< 10 U	< 10 U	< 5 U	< 1 U	NA	< 5 U	< U	< 1 U	< 4 U
cis-1,2-Dichloroethene	70	< 0.27 U	< 5 U	NA	NA	NA	< 5 U	< 1 U	NA	< 5 U	< U	< 1 U	< 4 U
Methylene chloride	5	< 0.32 U	< 5 U	NA	< 10 U	< 10 U	**6**	3	NA	< 5 U	< U	< 2 U	< 8 U
Tetrachloroethene	1	< 0.24 U	< 5 U	NA	< 10 U	< 10 U	< 5 U	< 1 U	< 5 U	< 5 U	< U	< 1 U	< 4 U
trans-1,2-Dichloroethene	70	< 0.27 U	< 5 U	NA	NA	< 10 U	< 5 U	< 1 U	< 5 U	< 5 U	< U	< 1 U	< 4 U
Trichloroethene	2.8	< 0.29 U	< 5 U	NA	< 10 U	< 10 U	< 5 U	< 1 U	< 5 U	< 5 U	< U	< 1 U	< 4 U
Vinyl chloride	1	< 0.29 U	< 10 U	NA	< 10 U	**9 J**	**23**	**14**	< 5 U	**27 D**	**4**	< 1 U	< 8 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 0.25 U	NA	NA	NA	NA	< 10 U	< 10 U	4 J	**7 J**	< 1 U	**7 J**	**7.7 J**
bis(2-Ethylhexyl) phthalate	5	< 0.44 U	NA	NA	NA	NA	< 10 U	< 10 U	< 10 U	< 10 U	< 1 U	1 J	< 9.6 U
Metals (µg/L)													
Antimony	6	< 1.8 U	NA	NA	NA	6	< 5 U	< 5 U	< 2 U	1 B	< 4 U	< 10 U	< 10 U
Chromium	50	7.7	NA	NA	NA	8 J	< 2 U	2	5 B	9 B	9	8.9	10.8 J
Manganese	50	**2410**	**2690**	**2700**	NA	**15000**	**27000**	**22000**	**29500**	**36400 E**	**34700 J**	**35200**	**38300**
Thallium	2	< 2.8 U	NA	NA	NA	**20**	< 2 U	< 2 U	< 1 U	< 2 U	< 27 U	< 50 U	< 50 U
Zinc	2100	6.2 B	NA	NA	NA	8 J	14	< 10 U	32	21	< 4 U	< 20 U	1.3 B

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID / Sample Date	OU3 ROD Performance Standard	NS-38 12/1/2004	NS-38 12/1/2005	NS-38 12/10/2007	NS-38 12/9/2008	NS-38 12/9/2008	NS-38 4/23/2009	NS-38 4/23/2009	NS-38 12/16/2009	NS-38 12/8/2010	NS-38 12/6/2011	NS-39 5/6/1998	NS-39 9/9/1998
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 1 U	< 12 U	< 1 U	< 0.2 U	< 0.78 U	< 5 U	NA	< 1 U	< 1 U	< 1 U	< 250 U	< 200 U
1,1-Dichloroethene	7	< 1 U	< 12 U	< 1 U	< 0.28 U	< 1.1 U	< 5 U	NA	< 1 U	< 1 U	< 1 U	< 250 U	< 200 U
1,2-Dichloroethane	1	< 1 U	< 12 U	0.3 J	< 0.21 U	< 0.86 U	< 5 U	NA	< 1 U	0.35 J	< 1 U	**2100**	**2400 D**
1,2-Dichloropropane	1	< 1 U	< 12 U	< 1 U	< 0.18 U	< 0.72 U	< 5 U	NA	< 1 U	< 1 U	< 1 U	< 250 U	< 200 U
Acetone	700	< 10 U	< 120 U	< 10 U	17	27 J	< 20 U	NA	< 10 U	< 10 U	< 5 U	< 250 U	< 200 U
Chloroform	1	< 1 U	< 12 U	< 1 U	< 0.24 U	< 0.97 U	< 5 U	NA	< 1 U	< 1 U	< 1 U	< 250 U	< 200 U
cis-1,2-Dichloroethene	70	< 1 U	< 12 U	< 1 U	< 0.27 U	< 1.1 U	< 5 U	NA	< 1 U	< 1 U	< 1 U	NA	NA
Methylene chloride	5	< 2 U	< 25 U	< 2 U	< 0.32 U	1.6 J	< 5 U	NA	< 2 U	< 2 U	< 5 U	< 250 U	< 200 U
Tetrachloroethene	1	< 1 U	< 12 U	< 1 U	< 0.24 U	< 0.94 U	< 5 U	NA	< 1 U	< 1 U	< 1 U	< 250 U	< 200 U
trans-1,2-Dichloroethene	70	< 1 U	< 12 U	< 1 U	< 0.27 U	< 1.1 U	< 5 U	NA	< 1 U	< 1 U	< 1 U	NA	< 200 U
Trichloroethene	2.8	< 1 U	< 12 U	< 1 U	< 0.29 U	< 1.2 U	< 5 U	NA	< 1 U	< 1 U	< 0.5 U	< 250 U	< 200 U
Vinyl chloride	1	< 2 U	< 12 U	0.15 J	< 0.29 U	< 1.2 U	< 10 U	NA	< 2 U	< 2 U	< 0.5 U	< 250 U	< 200 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 9.8 U	< 11 U	< 10 U	**9.3 J**	**7.2 J**	NA	NA	< 9.4 U	< 9.4 U	**17 J**	NA	NA
bis(2-Ethylhexyl) phthalate	5	< 9.8 U	< 11 U	< 10 U	< 0.46 U	< 0.48 U	NA	NA	< 9.4 U	< 9.4 U	< 93 U	NA	NA
Metals (µg/L)													
Antimony	6	< 10 U	< 10 U	< 10 U	< 1.8 U	< 1.8 U	NA	NA	2 UB	< 10 U	5.8 J	NA	NA
Chromium	50	< 8.2 U	8.6	8.6	10.4	11	NA	NA	20.3	< 25 U	4.1 J	NA	NA
Manganese	50	**39400**	**41800**	**43500**	**41800**	**41800**	**43800**	**43300**	**43800**	**45700**	**50,000**	NA	NA
Thallium	2	< 50 U	< 50 U	**28**	< 13.8 U	< 13.8 U	NA	NA	< 10 U	< 50 U	1.8 J	NA	NA
Zinc	2100	< 20 U	4.9 B J	2.4 B	7.5 B	6.2 B	NA	NA	17.4 UB	< 20 U	3.0 J	NA	NA

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-39 9/9/1998	NS-39 7/16/1999	NS-39 6/14/2000	NS-39 11/20/2000	NS-39 7/26/2001	NS-39 2/7/2002	NS-39 3/14/2002	NS-39 7/11/2002	NS-39 12/2/2002	NS-39 7/23/2003	NS-39 12/2/2003	NS-39 12/16/2003
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	2 J	< 5 U	< 5 U	< 1 U	1	1.8	2 J	1	< 1000 U	<40 U	< 500 U	<500 U
1,1-Dichloroethene	7	< 10 U	< 5 U	NA	< 1 U	<0.3 U	<1 U	< 1 U	< U	< 1000 U	<40 U	< 500 U	<500 U
1,2-Dichloroethane	1	**1400 E**	**270**	**19**	**6**	**31**	**42**	**46**	**27**	**18000**	**2700**	**8700**	**8700**
1,2-Dichloropropane	1	**5 J**	< 5 U	< 5 U	< 1 U	**2**	**1.7**	**2 J**	**2**	< 1000 U	<40 U	< 500 U	<500 U
Acetone	700	38	< 100 U	< 10 U	< 2 U	<1 U	<10 U	< 6 U	< 2 U	< 10000 U	<40 U	< 5000 U	<2500 U
Chloroform	1	< 10 U	< 5 U	< 5 U	< 1 U	0.7 J	0.53	< 1 U	J	< 1000 U	<40 U	< 500 U	<500 U
cis-1,2-Dichloroethene	70	NA	< 5 U	NA	NA	<0.3 U	<1 U	< 1 U	< U	< 1000 U	<40 U	< 500 U	<500 U
Methylene chloride	5	**6 J**	< 5 U	< 5 U	2	**10**	**11**	**13**	**7**	< 2000 U	**29 J**	< 1000 U	<500 U
Tetrachloroethene	1	< 10 U	< 5 U	< 5 U	< 1 U	0.8 J	1 J	1 J	1	< 1000 U	**10 J**	< 500 U	<500 U
trans-1,2-Dichloroethene	70	< 10 U	< 5 U	NA	NA	<0.3 U	<1 U	< 1 U	< U	< 1000 U	<40 U	< 500 U	<500 U
Trichloroethene	2.8	< 10 U	< 5 U	< 5 U	< 1 U	1	1.4	1 J	1	< 1000 U	<40 U	< 500 U	<500 U
Vinyl chloride	1	**12**	< 10 U	**4 J**	**2**	**14**	**9.5**	**10**	**7**	< 1000 U	<80 U	< 1000 U	<500 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	< 10 U	4 J	5 J	9 J	**13**	**10 J**	**7 J**	**30**	**36**	**32**	**32**
bis(2-Ethylhexyl) phthalate	5	NA	< 10 U	< 10 U	1 J	<2 U	<10 U	< 1 U	**8 J B**	< 9.6 U	4.5 J	< 10 U	<10 U
Metals (µg/L)													
Antimony	6	NA	< 5 U	< 2 U	< 1 U	2.7 B	5.1 B	< 4 U	< 4 U	< 10 U	<10 U	< 10 U	<10 U
Chromium	50	NA	< 2 U	< 5 U	10 B	5.7 B	4.4 B	7	6	< 5 U	0.91 B	1.5 B	1.5 B
Manganese	50	NA	**170**	**98**	**66**	**122**	**211**	**174 J**	**165**	**682**	**5580**	**5080**	**5170**
Thallium	2	NA	< 2 U	< 1 U	< 1 U	<3.8 U	<5.7 U	< 6 U	< 6 U	< 10 U	<10 U	< 10 U	<10 U
Zinc	2100	NA	16	< 2 U	3 B	45.5	8.4 B	< 4 U	< 4 U	< 20 U	1.6 B	< 20 U	<20 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-39 7/23/2004	NS-39 12/13/2004	NS-39 6/15/2005	NS-39 12/1/2005	NS-39 7/11/2006	NS-39 11/29/2006	NS-39 7/10/2007	NS-39 12/4/2007	NS-39 7/2/2008	NS-39 12/3/2008	NS-39 12/3/2008	NS-39 4/23/2009
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	<300 U	< 8300 U	<4000 U	< 5000 U	<5000 U	< 5000 U	< 1500 U	< 2500 U	< 200 U	< 2 U	< 2 U	< 50 U
1,1-Dichloroethene	7	<300 U	< 8300 U	<4000 U	< 5000 U	<5000 U	< 5000 U	< 1500 U	< 2500 U	< 200 U	**7.6 J**	**7.7 J**	< 50 U
1,2-Dichloroethane	1	**6400**	**120000**	**80000**	**77000**	**170000**	**100000**	**35000**	**36000**	**5700**	**230**	**230**	**510**
1,2-Dichloropropane	1	<300 U	< 8300 U	<4000 U	< 5000 U	<5000 U	< 5000 U	< 1500 U	< 2500 U	< 200 U	< 1.8 U	< 1.8 U	< 50 U
Acetone	700	<3000 U	< 83000 U	<40000 U	< 50000 U	<50000 U	< 50000 U	< 7500 U	< 25000 U	< 1000 U	< 25 U	< 25 U	< 200 U
Chloroform	1	<300 U	< 8300 U	<4000 U	< 5000 U	<5000 U	< 5000 U	< 1500 U	< 2500 U	< 200 U	< 2.4 U	< 2.4 U	< 50 U
cis-1,2-Dichloroethene	70	<300 U	< 8300 U	<4000 U	< 5000 U	<5000 U	< 5000 U	< 1500 U	< 2500 U	< 200 U	4.5 J	5.7 J	< 50 U
Methylene chloride	5	<600 U	< 17000 U	<4000 U	< 10000 U	<10000 U	< 10000 U	< 1500 U	< 5000 U	**72 J**	**11**	**12**	< 50 U
Tetrachloroethene	1	<300 U	**2400 J**	<4000 U	< 5000 U	<5000 U	< 5000 U	< 1500 U	< 2500 U	< 200 U	< 2.4 U	< 2.4 U	**25 J**
trans-1,2-Dichloroethene	70	<300 U	< 8300 U	<4000 U	< 5000 U	<5000 U	< 5000 U	< 1500 U	< 2500 U	< 200 U	< 2.7 U	< 2.7 U	< 50 U
Trichloroethene	2.8	<300 U	< 8300 U	<4000 U	< 5000 U	<5000 U	< 5000 U	< 1500 U	< 2500 U	< 200 U	**34**	**34**	**20 J**
Vinyl chloride	1	<600 U	< 17000 U	<8000 U	< 5000 U	<10000 U	< 5000 U	< 1500 U	< 5000 U	**55 J**	**80**	**79**	**37 J**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	**9.6 J**	**52**	**38**	**64**	**25**	**49**	**47**	**23**	**31**	**27**	**25**	NA
bis(2-Ethylhexyl) phthalate	5	<9.8 U	< 11 U	<10 U	< 10 U	<9.9 U	1.6 J	< 9.8 U	< 9.9 U	4.3 J	< 0.45 U	< 0.46 U	NA
Metals (µg/L)													
Antimony	6	<10 U	< 10 U	<10 U	< 10 U	<10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.8 U	< 1.8 U	NA
Chromium	50	<5 U	2.1 B	1.9 B	1.6 B	2.5 B	3.3 J	3.4 B	2.9 B	3.6 B	3.1 B	2.9 B	NA
Manganese	50	**5040**	**8020 J**	**9460**	**8510**	**12000**	**12100**	**12600**	**11900**	**12800**	**13300**	**13600**	**15500**
Thallium	2	<10 U	< 10 U	8.1 B	< 10 U	6.6 B	< 10 U	< 10 U	< 10 U	<10 U	< 2.8 U	< 2.8 U	NA
Zinc	2100	<20 U	1.8 B	1.8 B	4.6 B J	5.6 JB	2.6 J	5.4 B	9 JB	1.3 BJ	6.1 BJ	5.6 BJ	NA

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-39 4/23/2009	NS-39 7/8/2009	NS-39 12/9/2009	NS-39 12/9/2009	NS-39 12/9/2009	NS-39 12/10/2009	NS-39 7/15/2010	NS-39 12/16/2010	NS-39 7/29/2011	NS-39 12/6/2011	NS-40 5/6/1998	NS-40 5/6/1998
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	NA	< 50 U	< 50 U	< 40 U	< 50 U	< 40 U	< 1 U	< 1 U	< 1 U	< 1 U	< 2000 U	< 2000 U
1,1-Dichloroethene	7	NA	< 50 U	< 50 U	< 40 U	< 50 U	< 40 U	4	3.1	3.4	4.8	< 2000 U	< 2000 U
1,2-Dichloroethane	1	NA	**620**	**800**	**810**	**800**	**810**	**2.8**	**16**	**6.5**	**1.7**	**120000 E**	**110000 D**
1,2-Dichloropropane	1	NA	< 50 U	< 50 U	< 40 U	< 50 U	< 40 U	< 1 U	< 1 U	< 1 U	< 1 U	< 2000 U	< 2000 U
Acetone	700	NA	< 250 U	< 500 U	< 400 U	< 250 U	< 200 U	< 5 U	< 10 U	< 5 U	< 5 U	< 2000 U	**15000 DJ**
Chloroform	1	NA	< 50 U	< 50 U	< 40 U	< 50 U	< 40 U	< 1 U	< 1 U	< 1 U	< 1 U	< 2000 U	< 2000 U
cis-1,2-Dichloroethene	70	NA	< 50 U	< 50 U	< 40 U	< 50 U	< 40 U	3.2	2.3	3	4.1	NA	NA
Methylene chloride	5	NA	< 50 U	**17 J**	**9.8 J**	**17 J**	**9.8 J**	2.3	3.5 B	2.3	< 5 U	< 2000 U	< 2000 U
Tetrachloroethene	1	NA	< 50 U	< 50 U	< 40 U	< 50 U	< 40 U	0.92 J	**3**	**1.3**	< 1 U	< 2000 U	< 2000 U
trans-1,2-Dichloroethene	70	NA	< 50 U	< 50 U	< 40 U	< 50 U	< 40 U	0.30 J	< 1 U	0.21 J	< 1 U	NA	NA
Trichloroethene	2.8	NA	**35 J**	**37 J**	**37 J**	**37 J**	**37 J**	**21**	**15**	**18**	**25**	< 2000 U	< 2000 U
Vinyl chloride	1	NA	**61**	**86 J**	**70 J**	**86**	**70**	**33**	**15**	**17**	**24**	< 2000 U	< 2000 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	**9.9**	**22**	**21**	**22**	**21**	**28**	< 9.5 U	**22**	**23**	NA	NA
bis(2-Ethylhexyl) phthalate	5	NA	< 9.7 U	< 9.6 U	< 9.7 U	< 9.6 U	< 9.7 U	< 9.4 U	< 9.5 U	< 20 U	< 9.3 U	NA	NA
Metals (µg/L)													
Antimony	6	NA	< 10 U	1.6 UB	2.6 UB	1.6 UB	2.6 UB	< 10 U	< 10 U	<10 UH	2.9 J	< 5 U	NA
Chromium	50	NA	6.7	7.4	7	7.4	7	< 5 U	< 5 U	3.4 JH	4.4 J	7 J	NA
Manganese	50	**15700**	**16400**	**16100**	**15700**	**16100**	**15700**	**14000**	**11500 J**	**13,000 H**	**14,000**	**13500**	NA
Thallium	2	NA	< 10 U	**3.6 J**	**3.9 J**	**3.6 J**	**3.9 J**	< 10 U	< 10 U	<10 UH	< 10 U	**7 J**	NA
Zinc	2100	NA	6.6 UB	3 J	3.8 J	3 J	3.8 J	5.4 B	3.4 B	5.1 JH	4.2 J	< 20 U	NA

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-40 9/9/1998	NS-40 9/9/1998	NS-40 7/16/1999	NS-40 7/27/2000	NS-40 3/14/2002	NS-40 12/2/2002	NS-40 12/2/2003	NS-40 12/1/2004	NS-40 12/1/2005	NS-40 11/30/2006	NS-40 12/5/2007	NS-40 12/9/2008
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	**5000 J**	**7 J**	**8**	< 5000 U	< 870 U	< 2500 U	< 2500 U	< 100 U	< 100 U	< 25 U	< 12 U	< 0.2 U
1,1-Dichloroethene	7	< 5000 U	< 50 U	< 5 U	< 5000 U	< 1000 U	< 2500 U	< 2500 U	< 100 U	< 100 U	< 25 U	< 12 U	2.3
1,2-Dichloroethane	1	**84000 D**	**22000 E**	**92000**	**84000 D**	**73000**	**64000**	**98000**	**7000**	**3000**	**700**	**210**	**15**
1,2-Dichloropropane	1	< 5000 U	< 50 U	< 5 U	< 5000 U	< 920 U	< 2500 U	< 2500 U	< 100 U	< 100 U	< 25 U	< 12 U	< 0.18 U
Acetone	700	< 5000 U	< 50 U	< 100 U	< 10000 U	< 5000 U	< 25000 U	< 25000 U	< 1000 U	< 1000 U	< 250 U	< 120 U	2.5 J
Chloroform	1	< 5000 U	**11 J**	**14**	< 5000 U	< 970 U	< 2500 U	< 2500 U	**55 J**	**45 J**	**17 J**	**9.4 J**	**1.1**
cis-1,2-Dichloroethene	70	NA	NA	< 5 U	< 5000 U	< 570 U	< 2500 U	< 2500 U	< 100 U	< 100 U	< 25 U	1.2 J	1.9
Methylene chloride	5	< 5000 U	**120**	**87**	< 5000 U	< 720 U	< 5000 U	< 5000 U	< 200 U	< 200 U	< 50 U	**6.3 J**	< 0.32 U
Tetrachloroethene	1	**5000 J**	**10 J**	**13**	< 5000 U	< 720 U	< 2500 U	< 2500 U	< 100 U	< 100 U	**5.9 J**	< 12 U	0.58 J
trans-1,2-Dichloroethene	70	< 5000 U	< 50 U	< 5 U	< 5000 U	< 740 U	< 2500 U	< 2500 U	< 100 U	< 100 U	< 25 U	< 12 U	< 0.27 U
Trichloroethene	2.8	**5000 J**	**7 J**	**9**	< 5000 U	< 780 U	< 2500 U	< 2500 U	< 100 U	< 100 U	**8.2 J**	**9 J**	**13**
Vinyl chloride	1	< 5000 U	**79**	**56**	< 5000 U	< 1200 U	< 2500 U	< 5000 U	< 200 U	< 100 U	**57**	**42**	**44**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	NA	**11**	**17**	**7 J**	**17**	< 9.8 U	1.9 J	< 11 U	< 9.8 U	**7.4 J**	< 0.25 U
bis(2-Ethylhexyl) phthalate	5	NA	NA	< 10 U	< 10 U	< 1 U	< 9.8 U	< 9.8 U	< 10 U	< 11 U	< 9.8 U	< 10 U	< 0.43 U
Metals (µg/L)													
Antimony	6	NA	< 5 U	< 5 U	< 2 U	< 4 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.8 U
Chromium	50	NA	< 10 U	< 2 U	1 B	2 B	2.1 B	2.7 B	< 5 U	1 B J	2.4 J	2 B	2.4 B
Manganese	50	NA	**10100**	**14000**	**9600**	**7360 J**	**7530**	**8580**	**6050**	**6180**	**9320**	**9170**	**9230**
Thallium	2	NA	**11**	< 2 U	< 1 U	< 6 U	< 10 U	< 10 U	**12.5**	< 10 U	< 10 U	< 10 U	< 2.8 U
Zinc	2100	NA	< 20 U	16	< 2 U	< 4 U	< 20 U	1.8 B	3.6 B	4.3 B J	4 J	8.9 JB	5.5 B

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-40 4/23/2009	NS-40 4/23/2009	NS-40 12/9/2009	NS-40 12/16/2010	NS-40 12/6/2011	NS-41 5/6/1998	NS-41 7/19/1999	NS-41 7/20/2000	NS-41 3/13/2002	NS-41 12/2/2002	NS-41 12/2/2003	NS-41 12/1/2004
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 5 U	NA	< 2 U	< 1 U	< 10 U	< 5000 U	< 10 U	NA	1 J	0.54 J	0.49 J	1.2
1,1-Dichloroethene	7	1.8 J	NA	2.6	1.4	< 10 U	< 5000 U	< 10 U	NA	< 1 U	< 1 U	0.55 J	< 1 U
1,2-Dichloroethane	1	**120**	NA	**49**	**10**	**8,700**	**71000**	**84**	NA	**36**	**22**	**21**	**4.7**
1,2-Dichloropropane	1	< 5 U	NA	< 2 U	< 1 U	< 10 U	< 5000 U	< 10 U	NA	< U	< 1 U	0.27 J	< 1 U
Acetone	700	25	NA	< 20 U	< 10 U	< 50 U	< 5000 U	< 200 U	< 1000 U	< 2 U	< 10 U	< 10 U	< 10 U
Chloroform	1	**1.9 J**	NA	**4.7**	**0.60 J**	< 10 U	< 5000 U	< 10 U	< 500 U	< U	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	1.6 J	NA	1.8 J	1.2	< 10 U	NA	< 10 U	< 500 U	1	0.52 J	1.1	0.39 J
Methylene chloride	5	< 5 U	NA	1.3 J	< 2 U	< 50 U	< 5000 U	< 10 U	< 500 U	1 J	0.58 J	1.4 J	< 2 U
Tetrachloroethene	1	**3.8 J**	NA	0.86 J	0.26 J	< 10 U	< 5000 U	< 10 U	NA	**2**	**1.4**	0.81 J	0.76 J
trans-1,2-Dichloroethene	70	< 5 U	NA	< 2 U	< 1 U	< 10 U	NA	< 10 U	NA	< U	< 1 U	< 1 U	< 1 U
Trichloroethene	2.8	**11**	NA	**13**	**8.2**	**7.4**	< 5000 U	< 10 U	NA	2	2.5	2.4	2.1
Vinyl chloride	1	**32**	NA	**47**	**36**	**39**	< 5000 U	< 20 U	NA	**3**	**2**	**4.3**	< 2 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	NA	< 9.5 U	< 9.8 U	**5.5**	NA	< 10 U	< 10 U	NA	< 9.5 U	< 9.6 U	< 9.7 U
bis(2-Ethylhexyl) phthalate	5	NA	NA	< 9.5 U	< 9.8 U	< 9.5 U	NA	< 10 U	< 10 U	NA	< 9.5 U	< 9.6 U	< 9.7 U
Metals (µg/L)													
Antimony	6	NA	NA	1.4 UB	< 10 U	< 20 U	NA	< 5 U	< 2 U	< 4 U	< 10 U	< 10 U	< 10 U
Chromium	50	NA	NA	5.6	< 5 U	2.0 J	NA	25	8 B	**122**	< 5 U	**67.5 J**	33.1
Manganese	50	**8710**	**8820**	**9510**	**10500 J**	**8,500**	NA	**2300**	**2420**	**1830 J**	**1260**	**2160**	**1140**
Thallium	2	NA	NA	< 10 U	< 10 U	1.3 J	NA	< 2 U	< 1 U	< 6 U	< 10 U	< 10 U	< 10 U
Zinc	2100	NA	NA	4.6 J	4.3 B	7.1 J	NA	26	4 B	9 B	< 20 U	13.4 B J	8.2 B

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-41 12/1/2005	NS-41 12/4/2006	NS-41 12/5/2007	NS-41 12/9/2008	NS-41 12/10/2009	NS-41 12/15/2010	NS-41 12/2/2011	NS-42 5/5/1998	NS-42 5/5/1998	NS-42 9/10/1998	NS-42 9/10/1998	NS-42 7/19/1999
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	1.2	< 1 U	0.44 J	< 0.2 U	< 1 U	0.21 J	< 1 U	< 10000 U	< 2500 U	< 10000 U	**83 J**	< 500 U
1,1-Dichloroethene	7	< 1 U	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U	< 1 U	< 10000 U	< 2500 U	< 10000 U	< 5000 U	< 500 U
1,2-Dichloroethane	1	**1.8**	**2.4**	**3.6**	0.4 J	**2.1**	< 1 U	< 1 U	**170000 D**	**130000 E**	**150000 D**	**87000 E**	**6200**
1,2-Dichloropropane	1	0.28 J	0.25 J	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U	< 10000 U	< 2500 U	< 10000 U	< 5000 U	< 500 U
Acetone	700	< 10 U	< 10 U	< 10 U	< 2.5 U	< 10 U	< 10 U	< 5 U	**6500 DJ**	**1200 J**	< 10000 U	**2400**	< 10000 U
Chloroform	1	< 1 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 10000 U	< 2500 U	< 10000 U	< 5000 U	< 500 U
cis-1,2-Dichloroethene	70	0.33 J	0.49 J	0.16 J	< 0.27 U	0.76 J	< 1 U	0.62 J	NA	NA	NA	NA	< 500 U
Methylene chloride	5	< 2 U	< 2 U	< 2 U	< 0.32 U	< 2 U	< 2 U	**6.5 UB**	< 10000 U	< 2500 U	< 10000 U	< 5000 U	< 500 U
Tetrachloroethene	1	0.93 J	0.57 J	0.28 J	0.48 J	< 1 U	0.21 J	< 1 U	< 10000 U	< 2500 U	< 10000 U	< 5000 U	< 500 U
trans-1,2-Dichloroethene	70	< 1 U	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 1 U	NA	NA	< 10000 U	< 5000 U	< 500 U
Trichloroethene	2.8	2	**3**	1.3	1	**3.7**	1	1.9	< 10000 U	< 2500 U	< 10000 U	< 5000 U	< 500 U
Vinyl chloride	1	< 1 U	< 1 U	< 2 U	< 0.29 U	0.25 J	< 2 U	< 0.5 U	< 10000 U	< 2500 U	< 10000 U	< 5000 U	< 1000 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 10 U	< 10 U	< 10 U	< 0.26 U	< 9.4 U	< 9.8 U	< 2 U	NA	NA	NA	NA	< 10 U
bis(2-Ethylhexyl) phthalate	5	< 10 U	< 10 U	< 10 U	< 0.45 U	< 9.4 U	< 9.8 U	< 10 U	NA	NA	NA	NA	< 10 U
Metals (µg/L)													
Antimony	6	< 10 U	< 10 U	< 10 U	< 1.8 U	1.4 UB	< 10 U	< 20 U	NA	< 5 U	NA	< 5 U	< 5 U
Chromium	50	36.1	19.3	4.9 B	27.7	15.8	15.9	8.2 J	NA	5 J	NA	< 10 U	< 2 U
Manganese	50	**667**	**617**	**401**	**1350**	**656**	**708 J**	**980**	NA	**1800**	NA	**4110**	**8200**
Thallium	2	< 10 U	< 10 U	< 10 U	< 2.8 U	< 10 U	< 10 U	< 10 U	NA	< 10 U	NA	< 10 U	< 2 U
Zinc	2100	10.4 B J	6.5 JB	8.7 JB	8.5 B	11.6 J	5.0 B	8.3 UB	NA	180	NA	16 J	40

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID	OU3 ROD Performance Standard	NS-42	NS-42	NS-42	NS-42	NS-42	NS-42	NS-42	NS-42	NS-42	NS-42	NS-42	NS-42
Sample Date		6/14/2000	6/14/2000	11/20/2000	11/20/2000	7/26/2001	2/7/2002	3/13/2002	7/11/2002	7/11/2002	12/2/2002	7/23/2003	12/2/2003
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 12000 U	**160**	< 200 U	< 50 U	<2 U	<10 U	< 3 U	NA	< 26 U	< 50 U	<100 U	< 10 U
1,1-Dichloroethene	7	NA	NA	< 200 U	< 50 U	<2 U	23	3 J	NA	< 76 U	< 50 U	<100 U	3.3 J
1,2-Dichloroethane	1	**320000 D**	**15000 E**	**6000 D**	**5400 ED**	**680**	**310**	**110**	NA	**5400**	**63000**	**2000**	**210**
1,2-Dichloropropane	1	< 12000 U	< 5 U	< 200 U	< 50 U	<2 U	<10 U	< 3 U	NA	< 30 U	< 50 U	<100 U	< 10 U
Acetone	700	< 25000 U	**1200 E**	< 400 U	< 100 U	56	<10 U	< 15 U	NA	< 500 U	< 500 U	<1000 U	< 100 U
Chloroform	1	< 12000 U	**20**	< 200 U	< 50 U	<2 U	<10 U	< 3 U	NA	< 34 U	< 50 U	<100 U	< 10 U
cis-1,2-Dichloroethene	70	NA	NA	NA	NA	30	22	18	NA	< 77 U	36 J	23 J	18
Methylene chloride	5	< 12000 U	**32**	< 200 U	**47 JD**	**10**	<20 U	< 2 U	NA	< 29 U	**41 J**	<200 U	< 20 U
Tetrachloroethene	1	< 12000 U	**37**	< 200 U	< 50 U	<2 U	<10 U	< 2 U	NA	< 39 U	< 50 U	<100 U	< 10 U
trans-1,2-Dichloroethene	70	NA	NA	NA	NA	<2 U	<10 U	< 2 U	NA	< 63 U	< 50 U	<100 U	< 10 U
Trichloroethene	2.8	< 12000 U	**66**	< 200 U	< 50 U	**11**	**8.9 J**	**8**	NA	< 17 U	**38 J**	**20 J**	**10**
Vinyl chloride	1	< 12000 U	**200**	< 200 U	< 50 U	**37**	**45**	**36**	NA	< 42 U	**170**	**270**	**47**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	< 10 U	NA	< 11 U	<2 U	2.1 J	< 1 U	< 1 U	< 2 U	< 9.5 U	<10 U	< 10 U
bis(2-Ethylhexyl) phthalate	5	< 10 U	NA	NA	< 11 U	<2 U	<10 U	< 1 U	< 1 U	1 J B	< 9.5 U	**6.9 J**	< 10 U
Metals (µg/L)													
Antimony	6	NA	< 2 U	NA	2 B	2.3 B	4.7 B	< 4 U	NA	< 4 U	< 10 U	3.3 BJ	< 10 U
Chromium	50	NA	< 5 U	NA	4 B	3 B	24.9	32	NA	6	7	8.2	6.5
Manganese	50	NA	**14900**	NA	**10300**	**8700**	**13200**	**12800 J**	NA	**15700**	**16700**	**15500**	**15100**
Thallium	2	NA	< 1 U	NA	< 1 U	4.6 B	<5.7 U	< 11 U	NA	< 6 U	< 10 U	<10 U	< 10 U
Zinc	2100	NA	4 B	NA	3 B	<17.2 U	12.4 B	20	NA	< 4 U	< 20 U	87.1	1.8 B

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-42 12/16/2003	NS-42 7/23/2004	NS-42 12/1/2004	NS-42 6/15/2005	NS-42 12/1/2005	NS-42 7/11/2006	NS-42 11/29/2006	NS-42 7/10/2007	NS-42 12/4/2007	NS-42 7/2/2008	NS-42 12/3/2008	NS-42 7/8/2009
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	<10 U	**22**	< 5 U	<2 U	< 5 U	<1 U	< 5 U	< 2 U	< 4 U	<1 U	< 0.98 U	< 5 U
1,1-Dichloroethene	7	3.3 J	5.6	< 5 U	4.7	6.2	4.1	5	3.8	4.6	<4 U	5.2	4.9 J
1,2-Dichloroethane	1	**170**	**12**	**160**	**3.3**	**1.5 J**	**2.4**	< 5 U	< 2 U	< 4 U	**2.3**	< 1.1 U	< 5 U
1,2-Dichloropropane	1	**18**	**1.5**	< 5 U	<2 U	< 5 U	<1 U	< 5 U	< 2 U	< 4 U	<1 U	< 0.9 U	< 5 U
Acetone	700	<50 U	<20 U	< 50 U	<20 U	< 50 U	<5 U	< 50 U	< 10 U	< 40 U	2.9 J	< 12 U	< 25 U
Chloroform	1	<10 U	<10 U	< 5 U	<2 U	< 5 U	<1 U	< 5 U	< 2 U	< 4 U	<1 U	< 1.2 U	< 5 U
cis-1,2-Dichloroethene	70	18	30	28	25	28	25	27	30	23	21	22	22
Methylene chloride	5	<10 U	<10 U	< 10 U	<2 U	< 10 U	<2 U	< 10 U	< 2 U	1.4 J	0.9 J	**9.5**	< 5 U
Tetrachloroethene	1	<10 U	<10 U	< 5 U	<2 U	< 5 U	<1 U	< 5 U	< 2 U	< 4 U	<1 U	< 1.2 U	< 5 U
trans-1,2-Dichloroethene	70	<10 U	0.43 J	< 5 U	<2 U	< 5 U	0.48 J	< 5 U	< 2 U	< 4 U	0.4 J	< 1.4 U	< 5 U
Trichloroethene	2.8	**9.3 J**	<10 U	**26**	**22**	**27**	**15**	**17**	**12**	**11**	**12**	**23**	**16 J**
Vinyl chloride	1	**47**	**68**	**77**	**57**	**68**	**39**	**51**	**20**	**28**	**33**	**66**	**53**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	<10 U	<10 U	< 9.9 U	<10 U	< 10 U	<9.8 U	< 10 U	< 10 U	< 10 U	<11 U	< 0.28 U	< 10 U
bis(2-Ethylhexyl) phthalate	5	<10 U	6.7 J	< 9.9 U	<10 U	< 10 U	1.6 J	< 10 U	3.9 J	< 10 U	<11 U	< 0.49 U	< 10 U
Metals (µg/L)													
Antimony	6	<10 U	<10 U	< 10 U	<10 U	< 10 U	<10 U	< 10 U	< 10 U	< 10 U	<10 U	< 1.8 U	< 10 U
Chromium	50	6.1	6.4	8.2	8.6	5.3	3.6 B	5.2	11	4.2 B	5.2	9.8	4.5 J
Manganese	50	**15200**	**15600 J**	**16000 J**	**14400**	**15700**	**13800**	**14200**	**11900**	**11700**	**11300**	**12100**	**13200**
Thallium	2	<10 U	10.7	< 10 U	10.1	< 10 U	5.8 B	< 10 U	< 10 U	< 10 U	<10 U	**3.7 BJ**	< 10 U
Zinc	2100	1.8 B	4.4 B	3.9 B	5.2 B	4.8 B J	4.5 JB	3.8 J	11.3 B	7.7 JB	3.3 BJ	14.6 BJ	11.5 UB

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-42 12/10/2009	NS-42 12/10/2009	NS-42 7/16/2010	NS-42 12/14/2010	NS-42 7/29/2011	NS-42 12/6/2011	NS-43 5/5/1998	NS-43 9/9/1998	NS-43 7/13/1999	NS-43 1/20/2000	NS-43 7/18/2000	NS-43 1/22/2001
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 10 U	< 5 U	< 1 U	< 5 U	< 1 U
1,1-Dichloroethene	7	6.4	6.4	3.3	2.2	1.5	< 1 U	< 10 U	< 10 U	< 5 U	< 1 U	< 5 U	< 1 U
1,2-Dichloroethane	1	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	**3.5**	< 10 U	**2 J**	< 5 U	< 1 U	< 5 U	< 1 U
1,2-Dichloropropane	1	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 10 U	< 5 U	< 1 U	< 5 U	< 1 U
Acetone	700	< 50 U	< 25 U	< 5 U	< 10 U	< 5 U	< 5 U	4 J	< 10 U	< 100 U	< 10 U	< 10 U	< 2 U
Chloroform	1	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 10 U	< 5 U	< 1 U	< 5 U	< 1 U
cis-1,2-Dichloroethene	70	35	35	21	15	10	2.6	NA	NA	< 5 U	< 1 U	< 5 U	< 1 U
Methylene chloride	5	1.5 J	1.5 J	< 1 U	0.94 J	0.3 J	< 5 U	< 10 U	< 10 U	< 5 U	< 1 U	< 5 U	JB
Tetrachloroethene	1	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 10 U	< 5 U	< 1 U	< 5 U	< 1 U
trans-1,2-Dichloroethene	70	< 5 U	< 5 U	0.35 J	< 1 U	0.23 J	< 1 U	NA	< 10 U	< 5 U	< 1 U	< 5 U	< 1 U
Trichloroethene	2.8	**17**	**17**	**8.8**	**9.8**	**7.1**	2.5	< 10 U	< 10 U	< 5 U	< 1 U	< 5 U	< 1 U
Vinyl chloride	1	**50**	**50**	**14**	**10**	**4.6**	< 0.5 U	< 10 U	< 10 U	< 10 U	< 1 U	< 5 U	< 1 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 9.5 U	< 9.5 U	1.5 J	< 9.5 U	< 2 U	0.73 J	NA	NA	< 10 U	< 10 U	< 10 U	< 10 U
bis(2-Ethylhexyl) phthalate	5	< 9.5 U	< 9.5 U	< 9.4 U	< 9.5 U	< 20 U	< 10 U	NA	NA	< 10 U	< 10 U	< 10 U	< 10 U
Metals (µg/L)													
Antimony	6	2 UB	2 UB	1.7 B	< 10 U	<10 UH	3.5 J	NA	< 5 U	< 5 U	< 5 U	< 2 U	NA
Chromium	50	10.1	10.1	23.9	3.6 B	7.0 H	9.2 J	NA	10	14	13	2 B	4 B
Manganese	50	**12600**	**12600**	**11900**	**10600**	**12,000 H**	**11,000**	NA	17	**76**	**75**	28	13 BE
Thallium	2	**3.3 J**	**3.3 J**	< 10 U	< 10 U	<10 UH	< 10 U	NA	< 10 U	< 2 U	< 2 U	< 1 U	NA
Zinc	2100	7.4 J	7.4 J	28.5	5.8 B	14 JH	11 J	NA	< 20 U	17	< 10 U	< 2 U	< 9 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-43 3/6/2002	NS-43 12/2/2002	NS-43 12/2/2003	NS-43 12/1/2004	NS-43 12/1/2005	NS-43 12/6/2007	NS-43 12/8/2008	NS-43 12/14/2009	NS-43 12/7/2010	NS-43 12/1/2011	NS-44 5/5/1998	NS-44 7/13/1999
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U
1,1-Dichloroethene	7	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U
1,2-Dichloroethane	1	< U	< 1 U	< 1 U	< 1 U	0.23 J	< 1 U	< 0.21 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U
1,2-Dichloropropane	1	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U
Acetone	700	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 10 U	< 5 U	< 5 U	< 10 U	< 100 U
Chloroform	1	< U	< 1 U	< 1 U	< 1 U	0.14 J	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U
cis-1,2-Dichloroethene	70	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 1 U	NA	< 5 U
Methylene chloride	5	< U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.32 U	< 2 U	< 1 U	< 5 U	< 10 U	< 5 U
Tetrachloroethene	1	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U
trans-1,2-Dichloroethene	70	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 1 U	NA	< 5 U
Trichloroethene	2.8	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U	< 0.5 U	< 10 U	< 5 U
Vinyl chloride	1	< 1 U	< 1 U	< 2 U	< 2 U	< 1 U	< 2 U	< 0.29 U	< 2 U	< 1 U	< 0.5 U	< 10 U	< 10 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 1 U	< 9.6 U	< 9.7 U	< 11 U	< 10 U	< 10 U	< 0.27 U	< 9.5 U	< 9.5 U	< 1.9 U	NA	< 10 U
bis(2-Ethylhexyl) phthalate	5	< 1 U	< 9.6 U	< 9.7 U	< 11 U	< 10 U	< 10 U	< 0.48 U	< 9.5 U	< 9.5 U	< 9.3 U	NA	< 10 U
Metals (µg/L)													
Antimony	6	< 4 U	< 10 U	< 10 U	< 10 U	4.5 B J	< 10 U	< 1.8 U	< 10 U	< 10 U	< 20 U	NA	< 5 U
Chromium	50	4 B	2.3 B	3.8 B J	2.7 B	4.5 B J	3.5 B	4.3 B	2.2 J	4.2 B	4.2 J	NA	4
Manganese	50	5 B	3 B	4.5 B	2.5 B	1.4 B	1.4 B	8.7 B	1.4 J	6.0 B	11	NA	8
Thallium	2	< 6 U	< 10 U	< 10 U	< 10 U	< 10 U	**7 B**	< 2.8 U	< 10 U	< 10 U	< 10 U	NA	< 2 U
Zinc	2100	< 4 U	< 20 U	< 20 U	< 20 U	3.9 B J	7.2 JB	5.5 B	6.3 J	< 20 U	3.8 UB	NA	12

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-44 1/20/2000	NS-44 7/18/2000	NS-44 1/22/2001	NS-44 3/6/2002	NS-44 12/2/2002	NS-44 12/2/2003	NS-44 12/1/2004	NS-44 12/1/2005	NS-44 12/6/2007	NS-44 12/8/2008	NS-44 12/14/2009	NS-44 12/7/2010
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U
1,2-Dichloroethane	1	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	0.32 J	< 1 U	< 1 U	< 0.21 U	< 1 U	< 1 U
1,2-Dichloropropane	1	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U
Acetone	700	< 10 U	< 10 U	< 2 U	< 2 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.5 U	< 10 U	< 5 U
Chloroform	1	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U
Methylene chloride	5	< 1 U	< 5 U	< 1 U	< U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.32 U	< 2 U	< 1 U
Tetrachloroethene	1	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	70	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U
Trichloroethene	2.8	< 1 U	< 5 U	< 1 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.29 U	< 1 U	< 1 U
Vinyl chloride	1	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 2 U	< 2 U	< 1 U	< 2 U	< 0.29 U	< 2 U	< 1 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 10 U	< 10 U	< 10 U	< 1 U	< 9.5 U	< 9.9 U	< 10 U	< 9.8 U	< 10 U	< 0.27 U	< 9.6 U	< 9.5 U
bis(2-Ethylhexyl) phthalate	5	< 10 U	< 10 U	< 10 U	< 1 U	< 9.5 U	< 9.9 U	< 10 U	< 9.8 U	< 10 U	< 0.48 U	< 9.6 U	< 9.5 U
Metals (µg/L)													
Antimony	6	< 5 U	< 2 U	NA	< 4 U	< 10 U	3.6 B	< 10 U	3.3 B J	< 10 U	< 1.8 U	< 10 U	< 10 U
Chromium	50	3	1 B	3 B	3 B	3 B	6.8 J	2.7 B	3.3 B J	3.8 B	2.4 B	3.4 J	2.6 B
Manganese	50	< 5 U	12 B	2 BE	< U	0.6 B	1.1 B	0.36 B	< 15 U	0.39 B	< 0.57 U	1.8 J	< 15 U
Thallium	2	< 2 U	< 1 U	NA	< 6 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.8 U	< 10 U	< 10 U
Zinc	2100	< 10 U	< 2 U	11 B	< 4 U	< 20 U	2 B	< 20 U	3.1 B J	7.8 JB	3.4 B	< 20 U	< 20 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID / Sample Date	OU3 ROD Performance Standard	NS-44 12/1/2011	NS-45 4/20/1998	NS-45 4/20/1998	NS-45 9/10/1998	NS-45 7/15/1999	NS-45 9/10/1999	NS-45 9/10/1999	NS-45 7/21/2000	NS-45 3/8/2002	NS-45 12/2/2002	NS-45 12/2/2003	NS-45 12/1/2004
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 1 U	< 200 U	< 100 U	NA	< 5 U	< 500 U	< 20 U	< 5 U	< U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 1 U	< 200 U	< 100 U	NA	**24**	< 500 U	6 J	**16**	7	3.8	1.1	< 1 U
1,2-Dichloroethane	1	< 1 U	**3000 D**	**3100 E**	NA	**3100**	**7700 D**	**3400 E**	**190**	**3**	**14**	**3.4**	**1.9**
1,2-Dichloropropane	1	< 1 U	< 200 U	< 100 U	NA	< 5 U	< 500 U	< 20 U	< 5 U	< U	< 1 U	< 1 U	< 1 U
Acetone	700	< 5 U	< 200 U	140	NA	< 100 U	< 500 U	< 20 U	< 10 U	< 2 U	20	< 10 U	< 10 U
Chloroform	1	< 1 U	< 200 U	< 100 U	NA	< 5 U	< 500 U	< 20 U	< 5 U	< U	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	< 1 U	NA	NA	NA	16	NA	NA	11	6	2.1	1.6	1.1
Methylene chloride	5	< 5 U	< 200 U	< 100 U	NA	< 5 U	< 500 U	2 J	< 5 U	1 J	0.42 J	0.4 J	< 2 U
Tetrachloroethene	1	< 1 U	< 200 U	< 100 U	NA	< 5 U	< 500 U	< 20 U	< 5 U	< U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	70	< 1 U	NA	NA	NA	< 5 U	< 500 U	13 J	< 5 U	< U	< 1 U	< 1 U	< 1 U
Trichloroethene	2.8	≥ 0.5 U	< 200 U	< 100 U	NA	**6**	< 500 U	**4 J**	**5 J**	**3**	1.5	1	0.87 J
Vinyl chloride	1	< 0.5 U	< 200 U	< 100 U	NA	< 10 U	< 500 U	**5 J**	**4 J**	**2 J**	< 1 U	0.7 J	< 2 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 1.9 U	NA	NA	NA	< 10 U	NA	NA	< 10 U	< 6 U	< 9.6 U	< 9.6 U	< 10 U
bis(2-Ethylhexyl) phthalate	5	< 9.3 U	NA	NA	NA	< 10 U	NA	NA	< 10 U	< 4 U	0.97 J	< 9.6 U	< 10 U
Metals (µg/L)													
Antimony	6	< 20 U	NA	< 5 U	< 5 U	< 5 U	NA	NA	< 2 U	< 4 U	< 10 U	< 10 U	< 10 U
Chromium	50	2.3 J	NA	11	< 10 U	< 2 U	NA	NA	< 1 U	1 B	< 5 U	1 B	< 5 U
Manganese	50	< 10 U	NA	**3790**	**3220**	**4500**	NA	NA	**5240**	**4570**	**3940**	**748**	**658**
Thallium	2	< 10 U	NA	**4 J**	< 10 U	< 2 U	NA	NA	< 1 U	< 6 U	< 10 U	< 10 U	< 10 U
Zinc	2100	< 20 U	NA	9 J	10 J	16	NA	NA	< 2 U	8 B	4.6 B	2.4 B	< 20 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-45 12/1/2005	NS-45 12/5/2006	NS-45 12/6/2007	NS-45 12/10/2008	NS-45 12/10/2008	NS-45 12/11/2009	NS-45 12/8/2010	NS-45 12/1/2011	NS-46 4/20/1998	NS-46 9/10/1998	NS-46 7/19/1999	NS-46 9/10/1999
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 1 U	< 1 U	< 1 U	< 0.2 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	NA	< 5 U	< 10 U
1,1-Dichloroethene	7	< 1 U	< 1 U	0.51 J	0.33 J	NA	< 1 U	0.38 J	< 1 U	< 10 U	NA	< 5 U	< 10 U
1,2-Dichloroethane	1	**1.3**	**1.2**	**1.3**	**2.5**	NA	**1.1**	**2**	**1.4**	**29**	NA	**18**	**54**
1,2-Dichloropropane	1	< 1 U	< 1 U	< 1 U	< 0.18 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	NA	< 5 U	< 10 U
Acetone	700	< 10 U	< 10 U	< 10 U	< 2.5 U	NA	< 10 U	< 10 U	< 5 U	< 10 U	NA	< 100 U	< 10 U
Chloroform	1	< 1 U	< 1 U	< 1 U	< 0.24 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	NA	< 5 U	< 10 U
cis-1,2-Dichloroethene	70	0.59 J	0.45 J	0.56 J	0.42 J	NA	< 1 U	0.33 J	0.40 J	NA	NA	< 5 U	NA
Methylene chloride	5	< 2 U	< 2 U	< 2 U	< 0.32 U	NA	0.21 UB	< 2 U	< 5 U	< 10 U	NA	< 5 U	< 10 U
Tetrachloroethene	1	< 1 U	< 1 U	< 1 U	< 0.24 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	NA	< 5 U	< 10 U
trans-1,2-Dichloroethene	70	< 1 U	< 1 U	< 1 U	< 0.27 U	NA	< 1 U	< 1 U	< 1 U	NA	NA	< 5 U	< 10 U
Trichloroethene	2.8	0.74 J	0.86 J	0.83 J	0.69 J	NA	0.45 J	1.1	1.6	< 10 U	NA	< 5 U	< 10 U
Vinyl chloride	1	0.2 J	< 1 U	0.22 J	< 0.29 U	NA	< 2 U	0.48 J	0.39 J	< 10 U	NA	< 10 U	< 10 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 10 U	< 10 U	< 10 U	< 0.27 U	NA	< 9.5 U	< 9.5 U	0.68 J	NA	NA	< 10 U	NA
bis(2-Ethylhexyl) phthalate	5	< 10 U	< 10 U	< 10 U	< 0.47 U	NA	< 9.5 U	< 9.5 U	< 9.7 U	NA	NA	< 10 U	NA
Metals (µg/L)													
Antimony	6	< 10 U	< 10 U	< 10 U	< 1.8 U	NA	2.2 UB	< 10 U	< 20 U	< 5 U	< 5 U	< 5 U	NA
Chromium	50	< 5 U	< 5 U	< 5 U	< 1.1 U	NA	0.63 J	< 5 U	< 10 UJ	< 10 U	< 10 U	< 2 U	NA
Manganese	50	**486**	**469**	**686**	**375**	**362**	**208**	**331**	**280**	**80**	**117**	**190**	NA
Thallium	2	< 10 U	< 10 U	< 10 U	< 2.8 U	NA	< 10 U	< 10 U	< 10 U	**4 J**	< 10 U	< 2 U	NA
Zinc	2100	< 20 U	5 JB	6 JB	8.9 B	NA	< 20 U	< 20 U	11 UB	22	< 20 U	14	NA

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID / Sample Date	OU3 ROD Performance Standard	NS-46 7/20/2000	NS-46 3/12/2002	NS-46 12/2/2002	NS-46 12/2/2003	NS-46 12/1/2004	NS-46 12/1/2005	NS-46 12/5/2006	NS-46 12/7/2007	NS-46 12/10/2008	NS-46 4/22/2009	NS-46 4/22/2009	NS-46 12/14/2009
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 5 U	< U	0.45 J	< 1000 U	< 62 U	< 3 U	< 3 U	< 2 U	< 0.39 U	< 5 U	NA	< 1 U
1,1-Dichloroethene	7	< 5 U	2	1.9	< 1000 U	< 62 U	**8.9**	**12**	**8.3**	**7.9**	**11**	NA	5.8
1,2-Dichloroethane	1	< 5 U	**12**	**310**	**15000**	**11000 E**	**83**	**50**	**17**	**8.7**	**7.9**	NA	**3.6**
1,2-Dichloropropane	1	< 5 U	< U	0.25 J	< 1000 U	< 62 U	< 3 U	< 3 U	< 2 U	< 0.36 U	< 5 U	NA	< 1 U
Acetone	700	NA	4 J	7.2 J	< 10000 U	< 620 U	< 30 U	< 30 U	< 20 U	< 5 U	< 20 U	NA	< 10 U
Chloroform	1	NA	< U	< 1 U	< 1000 U	< 62 U	< 3 U	< 3 U	< 2 U	< 0.48 U	< 5 U	NA	< 1 U
cis-1,2-Dichloroethene	70	NA	J	0.38 J	< 1000 U	< 62 U	2.2 J	2.6 J	2.2	2.3	3 J	NA	1.6
Methylene chloride	5	NA	< U	0.53 J	< 2000 U	< 120 U	3 J	< 6 U	0.46 J	0.82 J	< 5 U	NA	< 2 U
Tetrachloroethene	1	NA	1	**1.2**	< 1000 U	< 62 U	**9.5**	< 3 U	0 3 J	0.78 J	< 5 U	NA	< 1 U
trans-1,2-Dichloroethene	70	NA	< U	< 1 U	< 1000 U	< 62 U	< 3 U	< 3 U	0.45 J	< 0.54 U	< 5 U	NA	0.22 J
Trichloroethene	2.8	NA	**6**	**7.8**	< 1000 U	**40 J**	**30**	**59**	**41**	**42**	**53**	NA	**22**
Vinyl chloride	1	NA	**10**	**19**	< 2000 U	**160**	**82**	**100**	**68**	**62**	**94**	NA	**39**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 10 U	< 1 U	< 9.5 U	3 J	< 10 U	3.8 J	3.7 J	< 10 U	< 0.26 U	NA	NA	0.89 J
bis(2-Ethylhexyl) phthalate	5	< 10 U	1 J	< 9.5 U	< 9.6 U	< 10 U	< 10 U	< 9.7 U	< 10 U	< 0.46 U	NA	NA	< 9.5 U
Metals (µg/L)													
Antimony	6	< 2 U	< 4 U	< 10 U	< 10 U	< 10 U	3.5 B J	< 10 U	< 10 U	< 1.8 U	NA	NA	< 10 U
Chromium	50	< 1 U	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 1.1 U	NA	NA	< 5 U
Manganese	50	**70**	**189**	**108**	**416**	**588**	**527**	**450**	**314**	**320**	**254**	**259**	**255**
Thallium	2	< 1 U	< 6 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.8 U	NA	NA	< 10 U
Zinc	2100	2 B	< 4 U	< 20 U	< 20 U	< 20 U	2.7 B J	5.4 JB	4.4 JB	3.1 B	NA	NA	< 20 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-46 12/8/2010	NS-46 12/1/2011	NS-47 4/20/1998	NS-47 4/20/1998	NS-47 9/10/1998	NS-47 7/19/1999	NS-47 9/10/1999	NS-47 9/10/1999	NS-47 7/26/2000	NS-47 7/26/2000	NS-47 3/11/2002	NS-47 12/2/2002
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 5 U	< 1 U	< 10000 U	< 100000 U	NA	**17**	< 2500 U	< 20000 U	< 25000 U	**9**	< 4400 U	< 1000 U
1,1-Dichloroethene	7	2.3 J	2.5	< 10000 U	< 100000 U	NA	< 5 U	< 2500 U	< 20000 U	< 25000 U	3 J	< 5100 U	< 1000 U
1,2-Dichloroethane	1	**160**	**99**	**630000 E**	**470000 D**	NA	**310000**	**270000 E**	**310000 D**	**260000 D**	**7700 E**	**180000**	**270000**
1,2-Dichloropropane	1	< 5 U	< 1 U	< 10000 U	< 100000 U	NA	< 5 U	< 2500 U	< 20000 U	< 25000 U	**3 J**	< 4600 U	< 1000 U
Acetone	700	13 J	< 5 U	< 10000 U	< 100000 U	NA	< 100 U	< 2500 U	< 20000 U	< 50000 U	< 10 U	**30000 J**	< 10000 U
Chloroform	1	< 5 U	< 1 U	< 10000 U	< 100000 U	NA	< 5 U	< 2500 U	< 20000 U	< 25000 U	**3 J**	< 4900 U	< 1000 U
cis-1,2-Dichloroethene	70	< 5 U	0.99 J	NA	NA	NA	< 5 U	NA	NA	< 25000 U	< 5 U	< 2900 U	< 1000 U
Methylene chloride	5	3.5 J	< 5 U	< 10000 U	< 100000 U	NA	< 5 U	< 2500 U	< 20000 U	< 25000 U	< 5 U	< 3600 U	< 2000 U
Tetrachloroethene	1	< 5 U	< 1 U	< 10000 U	< 100000 U	NA	**10**	< 2500 U	< 20000 U	< 25000 U	**8**	< 3600 U	< 1000 U
trans-1,2-Dichloroethene	70	< 5 U	< 1 U	NA	NA	NA	< 5 U	< 2500 U	< 20000 U	< 25000 U	< 5 U	< 3700 U	< 1000 U
Trichloroethene	2.8	**7.4**	**9.6**	< 10000 U	< 100000 U	NA	**13**	< 2500 U	< 20000 U	< 25000 U	**12**	< 3900 U	< 1000 U
Vinyl chloride	1	**31**	**31**	< 10000 U	< 100000 U	NA	**580**	**520 J**	< 20000 U	< 25000 U	**570 E**	< 6000 U	**440 J**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	1.9 J	1.1 J	NA	NA	NA	< 10 U	NA	NA	NA	< 10 U	< 1 U	< 10 U
bis(2-Ethylhexyl) phthalate	5	< 9.5 U	< 10 U	NA	NA	NA	< 10 U	NA	NA	NA	< 10 U	< 1 U	< 10 U
Metals (µg/L)													
Antimony	6	< 10 U	< 20 U	< 5 U	NA	< 5 U	< 5 U	NA	NA	NA	< 2 U	< 4 U	< 10 U
Chromium	50	< 5 U	4.4 J	10	NA	< 10 U	< 2 U	NA	NA	NA	< 1 U	< 1 U	< 5 U
Manganese	50	< 15 U	4.7 J	**1500**	NA	**808**	**1100**	NA	NA	NA	**1490**	**1810**	**1530**
Thallium	2	< 10 U	< 10 U	**6 J**	NA	< 10 U	< 2 U	NA	NA	NA	< 1 U	< 6 U	< 10 U
Zinc	2100	< 20 U	4.7 UB	36	NA	< 20 U	17	NA	NA	NA	< 2 U	10 B	< 20 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID / Sample Date	OU3 ROD Performance Standard	NS-47 12/2/2003	NS-47 12/1/2004	NS-47 12/1/2005	NS-47 12/5/2006	NS-47 12/7/2007	NS-47 12/10/2008	NS-47 12/10/2008	NS-48 4/22/1998	NS-48 4/22/1998	NS-48 9/11/1998	NS-48 7/15/1999	NS-48 9/11/1999
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 5000 U	< 25000 U	< 10000 U	< 15000 U	< 20000 U	< 3900 U	NA	< 250 U	< 500 U	NA	< 5 U	< 500 U
1,1-Dichloroethene	7	< 5000 U	< 25000 U	< 10000 U	< 15000 U	< 20000 U	< 5600 U	NA	< 250 U	< 500 U	NA	< 5 U	< 500 U
1,2-Dichloroethane	1	**150000**	**560000**	**480000**	**370000**	**330000**	**320000**	NA	**6700 E**	**5900 D**	NA	**67**	**9100**
1,2-Dichloropropane	1	< 5000 U	< 25000 U	< 10000 U	< 15000 U	< 20000 U	< 3600 U	NA	< 250 U	< 500 U	NA	< 5 U	< 500 U
Acetone	700	< 50000 U	< 250000 U	< 100000 U	< 150000 U	< 200000 U	< 50000 U	NA	180 J	< 500 U	NA	< 100 U	< 500 U
Chloroform	1	< 5000 U	< 25000 U	< 10000 U	< 15000 U	< 20000 U	< 4800 U	NA	< 250 U	< 500 U	NA	**11**	< 500 U
cis-1,2-Dichloroethene	70	< 5000 U	< 25000 U	< 10000 U	< 15000 U	< 20000 U	< 5500 U	NA	NA	NA	NA	< 5 U	NA
Methylene chloride	5	< 10000 U	< 50000 U	< 20000 U	< 30000 U	< 40000 U	< 6400 U	NA	< 250 U	< 500 U	NA	**7**	< 500 U
Tetrachloroethene	1	< 5000 U	< 25000 U	< 10000 U	< 15000 U	< 20000 U	< 4700 U	NA	< 250 U	< 500 U	NA	< 5 U	< 500 U
trans-1,2-Dichloroethene	70	< 5000 U	< 25000 U	< 10000 U	< 15000 U	< 20000 U	< 5400 U	NA	NA	NA	NA	< 5 U	< 500 U
Trichloroethene	2.8	< 5000 U	< 25000 U	< 10000 U	< 15000 U	< 20000 U	< 5900 U	NA	< 250 U	< 500 U	NA	< 5 U	< 500 U
Vinyl chloride	1	< 10000 U	< 50000 U	< 10000 U	< 15000 U	< 40000 U	< 5800 U	NA	< 250 U	< 500 U	NA	< 10 U	< 500 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 0.26 U	NA	NA	NA	NA	< 10 U	NA
bis(2-Ethylhexyl) phthalate	5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 0.46 U	NA	NA	NA	NA	< 10 U	NA
Metals (µg/L)													
Antimony	6	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.8 U	NA	< 5 U	NA	< 5 U	< 5 U	NA
Chromium	50	1.4 B J	< 5 U	< 5 U	< 5 U	< 5 U	< 1.1 U	NA	< 10 U	NA	< 10 U	< 2 U	NA
Manganese	50	**1530**	**1410**	**1620**	**1600**	**1670**	**1940**	**2070**	**6840**	NA	**4100**	**4900**	NA
Thallium	2	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.8 U	NA	**5 J**	NA	< 10 U	< 2 U	NA
Zinc	2100	< 20 U	< 20 U	2.8 B J	216 B	7 JB	8.9 B	NA	< 20 U	NA	< 20 U	18	NA

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-48 7/20/2000	NS-48 3/11/2002	NS-48 12/2/2002	NS-48 12/2/2003	NS-48 12/1/2004	NS-48 12/1/2005	NS-48 12/5/2006	NS-48 12/11/2007	NS-48 12/10/2008	NS-49 4/20/1998	NS-49 9/10/1998	NS-49 7/21/1999
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	NA	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 2500 U	NA	< 500 U
1,1-Dichloroethene	7	NA	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	< 2500 U	NA	< 500 U
1,2-Dichloroethane	1	NA	**3**	**1.1**	**3.1**	0.7 J	0.59 J	0.52 J	0.7 J	0.38 J	**36000**	NA	**15000**
1,2-Dichloropropane	1	NA	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	< 2500 U	NA	< 500 U
Acetone	700	< 10 U	< 2 U	3 J	< 10 U	3.1 J	< 10 U	< 10 U	< 10 U	3.3 J	**2900**	NA	< 10000 U
Chloroform	1	< 5 U	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 2500 U	NA	< 500 U
cis-1,2-Dichloroethene	70	< 5 U	< U	< 1 U	< 1 U	0.6 J	< 1 U	< 1 U	< 1 U	< 0.27 U	NA	NA	< 500 U
Methylene chloride	5	**7**	< U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.32 U	< 2500 U	NA	< 500 U
Tetrachloroethene	1	NA	< U	< 1 U	< 1 U	0.26 J	< 1 U	< 1 U	< 1 U	< 0.24 U	< 2500 U	NA	< 500 U
trans-1,2-Dichloroethene	70	NA	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	NA	NA	< 500 U
Trichloroethene	2.8	NA	< U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.29 U	< 2500 U	NA	< 500 U
Vinyl chloride	1	NA	< 1 U	< 1 U	< 2 U	< 2 U	< 1 U	< 1 U	< 2 U	< 0.29 U	< 2500 U	NA	< 1000 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 10 U	< 1 U	< 9.6 U	< 9.8 U	< 10 U	< 9.8 U	< 10 U	< 11 U	< 0.27 U	NA	NA	**14**
bis(2-Ethylhexyl) phthalate	5	< 10 U	< 1 U	< 9.6 U	< 9.8 U	< 10 U	< 9.8 U	< 10 U	< 11 U	< 0.48 U	NA	NA	< 10 U
Metals (µg/L)													
Antimony	6	< 2 U	< 4 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.8 U	< 5 U	< 5 U	< 5 U
Chromium	50	< 1 U	2 B	< 5 U	2 B J	< 5 U	1.4 B	< 5 U	< 5 U	1.2 B	< 10 U	5 J	< 2 U
Manganese	50	**7540**	**5830**	**5310**	**4740**	**4200**	**3780**	**3520**	**3310**	**3300**	**9870**	**6440**	**7000**
Thallium	2	< 1 U	< 6 U	< 10 U	< 10 U	**6.7 B**	< 10 U	< 10 U	< 10 U	< 2.8 U	**6 J**	**6 J**	< 2 U
Zinc	2100	< 2 U	< 4 U	< 20 U	1.9 B J	3.8 B	3.1 B J	40.2 B	< 20 U	64	< 20 U	< 20 U	14

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-49 9/10/1999	NS-49 2/15/2000	NS-49 6/13/2000	NS-49 11/20/2000	NS-49 1/18/2001	NS-49 1/18/2001	NS-49 1/18/2001	NS-49 7/26/2001	NS-49 2/7/2002	NS-49 3/7/2002	NS-49 3/7/2002	NS-49 7/11/2002
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 1000 U	< 1000 U	**12**	< 500 U	< 1000 U	NA	NA	<20 U	3.9	4	< 130 U	< 13 U
1,1-Dichloroethene	7	< 1000 U	< 1000 U	NA	< 500 U	< 1000 U	NA	NA	<15 U	<1 U	1	< 150 U	< 38 U
1,2-Dichloroethane	1	**16000**	**34000**	**4600 E**	**20000 D**	**22000 D**	NA	NA	**7900**	**5700**	**2500 E**	**7500**	**9400 E**
1,2-Dichloropropane	1	< 1000 U	< 1000 U	< 5 U	< 500 U	< 1000 U	NA	NA	<15 U	**2.4**	**2**	< 140 U	< 15 U
Acetone	700	< 1000 U	< 10000 U	< 10 U	< 1000 U	< 5000 U	NA	NA	130	<10 U	< 2 U	< 750 U	< 250 U
Chloroform	1	< 1000 U	< 1000 U	**3 J**	< 500 U	< 1000 U	NA	NA	<15 U	**1.9**	**2**	< 150 U	< 85 U
cis-1,2-Dichloroethene	70	NA	< 1000 U	NA	NA	< 1000 U	NA	NA	<15 U	0.69 J	1 J	< 86 U	< 38 U
Methylene chloride	5	< 1000 U	< 1000 U	**21**	< 500 U	< 1000 U	NA	NA	<25 U	4.8	5	< 110 U	**67 J**
Tetrachloroethene	1	< 1000 U	< 1000 U	**6**	< 500 U	< 1000 U	NA	NA	<15 U	**3**	**3**	< 110 U	< 20 U
trans-1,2-Dichloroethene	70	< 1000 U	< 1000 U	NA	NA	< 1000 U	NA	NA	<15 U	<1 U	< U	< 110 U	< 31 U
Trichloroethene	2.8	< 1000 U	< 1000 U	**7**	< 500 U	< 1000 U	NA	NA	<15 U	**5**	**5**	< 120 U	< 9 U
Vinyl chloride	1	< 1000 U	< 1000 U	**46**	< 500 U	< 1000 U	NA	NA	<20 U	**18**	**15**	< 180 U	< 21 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	< 10 U	**20**	**15**	**17**	**16**	**14**	**9 J**	**14**	**12**	NA	**8 J**
bis(2-Ethylhexyl) phthalate	5	NA	< 10 U	**6 J**	< 10 U	< 10 U	< 10 U	< 10 U	<2 U	<10 U	NA	< 1 U	1 J B
Metals (µg/L)													
Antimony	6	NA	< 5 U	< 2 U	< 1 U	< 1 U	NA	NA	<1.4 U	<4.1 U	< 4 U	NA	< 4 U
Chromium	50	NA	< 2 U	< 5 U	< 1 U	3 B	NA	NA	1.3 B	1.5 B	2 B	NA	1 B
Manganese	50	NA	**8600**	**8180**	**7830**	**7270 E**	NA	NA	**6480**	**6270**	**5870**	NA	**5840**
Thallium	2	NA	< 2 U	< 1 U	< 1 U	< 2 U	NA	NA	<3.8 U	<5.7 U	< 6 U	NA	< 6 U
Zinc	2100	NA	41	77	30	38	NA	NA	68.8	44.6	48	NA	46

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-49 7/11/2002	NS-49 12/2/2002	NS-49 7/23/2003	NS-49 12/2/2003	NS-49 12/16/2003	NS-49 7/23/2004	NS-49 12/1/2004	NS-49 6/15/2005	NS-49 12/1/2005	NS-49 7/11/2006	NS-49 11/29/2006	NS-49 7/10/2007
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 66 U	< 330 U	<350 U	< 120 U	<120 U	<50 U	< 50 U	< 200 U	< 200 U	< 200 U	< 200 U	< 50 U
1,1-Dichloroethene	7	< 190 U	< 330 U	<350 U	< 120 U	<120 U	<50 U	< 50 U	< 200 U	< 200 U	< 200 U	< 200 U	< 50 U
1,2-Dichloroethane	1	**12000**	**7600**	**7300**	**3500**	**3500**	**5900**	**6300**	**4000**	**2900**	**3900**	**3300**	**620**
1,2-Dichloropropane	1	< 74 U	< 330 U	<350 U	< 120 U	<120 U	<50 U	< 50 U	< 200 U	< 200 U	< 200 U	< 200 U	< 50 U
Acetone	700	< 1200 U	< 3300 U	<3500 U	< 1200 U	<620 U	<500 U	< 250 U	< 2000 U	< 2000 U	< 2000 U	< 2000 U	< 250 U
Chloroform	1	< 17 U	< 330 U	<350 U	< 120 U	<120 U	<50 U	< 50 U	< 200 U	< 200 U	< 200 U	< 200 U	< 50 U
cis-1,2-Dichloroethene	70	< 190 U	< 330 U	<350 U	< 120 U	<120 U	<50 U	< 50 U	< 200 U	< 200 U	< 200 U	< 200 U	< 50 U
Methylene chloride	5	< 73 U	< 670 U	<350 U	< 250 U	<120 U	<50 U	< 50 U	**160 JB**	< 400 U	< 400 U	< 400 U	< 50 U
Tetrachloroethene	1	< 98 U	< 330 U	<350 U	< 120 U	<120 U	<50 U	< 50 U	< 200 U	< 200 U	< 200 U	< 200 U	< 50 U
trans-1,2-Dichloroethene	70	< 160 U	< 330 U	<350 U	< 120 U	<120 U	<50 U	< 50 U	< 200 U	< 200 U	< 200 U	< 200 U	< 50 U
Trichloroethene	2.8	< 43 U	< 330 U	<350 U	< 120 U	<120 U	<50 U	< 50 U	< 200 U	< 200 U	< 200 U	< 200 U	< 50 U
Vinyl chloride	1	< 110 U	< 330 U	<700 U	< 250 U	<120 U	**23 J**	**20 J**	< 400 U	< 200 U	< 200 U	< 200 U	< 50 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	**6.5 J**	**8.8 J**	**7.2 J**	**7.2 J**	**8.6 J**	**7.1 J**	**6.6 J**	**6.2 J**	**<9.6 U**	< 9.7 U	3.5 J
bis(2-Ethylhexyl) phthalate	5	NA	< 9.7 U	1.9 J	< 9.6 U	<10 U	**20**	< 9.9 U	<9.7 U	< 10 U	2 J	< 9.7 U	4.7 J
Metals (µg/L)													
Antimony	6	NA	< 10 U	<10 U	< 10 U	<10 U	<10 U	< 10 U	<10 U	< 10 U	<10 U	< 10 U	< 10 U
Chromium	50	NA	1.8 B	1.2 B	1.6 B	2 B	<5 U	1.7 B	1.2 B	0.98 B	1.2 B	1.4 J	1.9 B
Manganese	50	NA	**6030**	**6100**	**5910**	**5950**	**6520 J**	**5910 J**	**6330**	**6120**	**5980**	**5830**	**5920**
Thallium	2	NA	< 10 U	<10 U	< 10 U	<10 U	<10 U	< 10 U	<10 U	< 10 U	<10 U	< 10 U	< 10 U
Zinc	2100	NA	35	14.5 B	35	34.9	19.1 B	27.8	25.3	21.8 J	33.4 J	25.5	43.5

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-49 12/4/2007	NS-49 12/4/2007	NS-49 12/4/2007	NS-49 12/4/2007	NS-49 12/4/2007	NS-49 7/2/2008	NS-49 12/3/2008	NS-49 12/3/2008	NS-49 7/8/2009	NS-49 12/10/2009	NS-49 7/15/2010	NS-49 12/15/2010
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 100 U	< 100 U	< 200 U	< 200 U	< 100 U	< 200 U	< 0.2 U	NA	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	< 100 U	< 100 U	< 200 U	< 200 U	< 100 U	< 200 U	1.5	NA	1.4	2.1	0.84 J	0.84 J
1,2-Dichloroethane	1	**3800**	**4100 E**	**3800**	**3800**	**4100 E**	**2700**	0.76 J	NA	**2**	**4.1**	**2.2**	**2.1**
1,2-Dichloropropane	1	< 100 U	< 100 U	< 200 U	< 200 U	< 100 U	< 200 U	< 0.18 U	NA	< 1 U	< 1 U	< 1 U	< 1 U
Acetone	700	< 1000 U	< 1000 U	< 2000 U	< 1000 U	< 500 U	< 1000 U	< 2.5 U	NA	< 5 U	< 10 U	< 5 U	< 10 U
Chloroform	1	< 100 U	< 100 U	< 200 U	< 200 U	< 100 U	< 200 U	< 0.24 U	NA	< 1 U	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	< 100 U	< 100 U	< 200 U	< 200 U	< 100 U	< 200 U	1.8	NA	2.2	3.5	2.9	1.6
Methylene chloride	5	< 200 U	< 200 U	< 400 U	< 200 U	< 100 U	**90 J**	< 0.32 U	NA	< 1 U	< 2 U	< 1 U	< 2 U
Tetrachloroethene	1	< 100 U	< 100 U	< 200 U	< 200 U	< 100 U	< 200 U	< 0.24 U	NA	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	70	< 100 U	< 100 U	< 200 U	< 200 U	< 100 U	< 200 U	< 0.27 U	NA	< 1 U	< 1 U	0.17 J	< 1 U
Trichloroethene	2.8	< 100 U	< 100 U	< 200 U	< 200 U	< 100 U	< 200 U	**8.7**	NA	**9.1 J**	**11**	**8.9**	**5.5**
Vinyl chloride	1	**21 J**	**21 J**	< 400 U	< 200 U	**21 J**	< 200 U	**10**	NA	**8.6**	**11**	**12**	**4.8**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	2.8 J	NA	2.8 J	2.8 J	NA	<9.8 U	**8.1 J**	NA	4.3 J	**9.3 J**	**14**	**7.3 J**
bis(2-Ethylhexyl) phthalate	5	< 9.6 U	NA	< 9.6 U	< 9.6 U	NA	1.7 J	< 0.46 U	NA	< 10 U	< 9.6 U	< 9.4 U	< 9.5 U
Metals (µg/L)													
Antimony	6	< 10 U	NA	< 10 U	< 10 U	NA	<10 U	< 1.8 U	NA	< 10 U	1.7 UB	< 10 U	< 10 U
Chromium	50	1.5 B	NA	1.5 B	1.5 B	NA	1.6 B	1.7 B	NA	2.6 J	2.7 J	< 5 U	< 5 U
Manganese	50	**5850**	NA	**5850**	**5850**	NA	**5750**	**6060**	**6130**	**8440**	**8900**	**9280**	**8290 J**
Thallium	2	< 10 U	NA	< 10 U	< 5 U	NA	<10 U	< 2.8 U	NA	< 10 U	< 10 U	< 10 U	< 10 U
Zinc	2100	35.9 J	NA	35.9 J	6.3 B	NA	11.2 BJ	39.6 J	NA	43	43.9	45.2	22.5

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-49 7/29/2011	NS-49 12/6/2011	NS-50 4/21/1998	NS-50 4/21/1998	NS-50 9/11/1998	NS-50 7/21/1999	NS-50 9/11/1999	NS-50 7/26/2000	NS-50 7/26/2000	NS-50 1/18/2001	NS-50 1/18/2001	NS-50 3/13/2002
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 1 U	< 2 U	< 5000 U	< 2500 U	NA	**6**	< 5000 U	< 250 U	2 J	< 5000 U	< 1 U	< 6 U
1,1-Dichloroethene	7	1.4	1.2 J	< 5000 U	< 2500 U	NA	< 5 U	< 5000 U	< 250 U	4 J	< 5000 U	4	< 8 U
1,2-Dichloroethane	1	**12**	**1,100**	**94000 DJ**	**96000 E**	NA	**29000**	**62000**	**4500 D**	**1600 E**	**160000 D**	**3100 E**	**390**
1,2-Dichloropropane	1	< 1 U	< 2 U	< 5000 U	< 2500 U	NA	< 5 U	< 5000 U	< 250 U	< 5 U	< 5000 U	< 1 U	< 7 U
Acetone	700	< 5 U	< 10 U	**5900 D**	**2500**	NA	< 100 U	< 5000 U	< 500 U	< 10 U	< 25000 U	< 2 U	< 38 U
Chloroform	1	< 1 U	< 2 U	**1800 DJ**	< 2500 U	NA	**15**	< 5000 U	< 250 U	**4 J**	< 5000 U	**3**	< 7 U
cis-1,2-Dichloroethene	70	2.5	2.2 J	NA	NA	NA	< 5 U	NA	< 250 U	< 5 U	< 5000 U	5	< 4 U
Methylene chloride	5	< 1 U	< 10 U	< 5000 U	< 2500 U	NA	**52**	< 5000 U	< 250 U	**17**	**3700 JD**	**44 EB**	< 5 U
Tetrachloroethene	1	< 1 U	< 2 U	< 5000 U	< 2500 U	NA	**6**	< 5000 U	< 250 U	< 5 U	< 5000 U	**7**	< 5 U
trans-1,2-Dichloroethene	70	< 1 U	< 2 U	NA	NA	NA	< 5 U	< 5000 U	< 250 U	< 5 U	< 5000 U	< 1 U	< 6 U
Trichloroethene	2.8	**7.8**	**7.5**	< 5000 U	< 2500 U	NA	**6**	< 5000 U	< 250 U	**13**	< 5000 U	**16**	< 6 U
Vinyl chloride	1	**10**	**10**	< 5000 U	< 2500 U	NA	< 10 U	< 5000 U	**230 JD**	**260 E**	< 5000 U	**73 E**	**26 J**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	**11**	**8.2**	NA	NA	NA	**12**	NA	NA	**19**	NA	< 10 U	**24**
bis(2-Ethylhexyl) phthalate	5	< 19 U	< 9 3 U	NA	NA	NA	< 10 U	NA	NA	4 J	NA	< 10 U	< 1 U
Metals (µg/L)													
Antimony	6	<10 UH	< 20 U	NA	< 5 U	< 5 U	< 5 U	NA	NA	< 2 U	NA	2 B	< 4 U
Chromium	50	< 5 UH	< 10 U	NA	< 10 U	< 10 U	< 2 U	NA	NA	1 B	NA	1 B	2 B
Manganese	50	**9,500 H**	**9,100**	NA	**10600**	**10700**	**6900**	NA	NA	**4860**	NA	**3620 E**	**2680 J**
Thallium	2	<10 UH	1.4 J	NA	**6 J**	**10 J**	< 2 U	NA	NA	< 1 U	NA	< 2 U	< 6 U
Zinc	2100	9.0 JH	22	NA	14 J	< 20 U	16	NA	NA	< 2 U	NA	46	< 4 U

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-50 12/2/2002	NS-50 12/2/2003	NS-50 12/1/2004	NS-50 12/1/2004	NS-50 12/1/2005	NS-50 12/1/2005	NS-50 11/30/2006	NS-50 12/5/2007	NS-50 12/4/2008	NS-50 12/11/2009	NS-50 12/15/2010	NS-50 12/2/2011
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 2.5 U	< 1 U	< 12 U	NA	< 1 U	NA	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	7	2.9	0.92 J	< 12 U	NA	1.2	NA	2.2	1.7	2	1.5	0.98 J	1.6
1,2-Dichloroethane	1	**2500**	**26**	**320**	NA	**2.6**	NA	**3.4**	**1.7**	**1.1**	0.71 J	0.36 J	**49**
1,2-Dichloropropane	1	< 2.5 U	< 1 U	< 250 U	< 12 U	< 1 U	NA	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U
Acetone	700	< 25 U	< 10 U	< 2500 U	< 120 U	< 1000 U	< 10 U	< 10 U	5.3 J	7 J	< 10 U	< 10 U	< 5 U
Chloroform	1	**16**	0.71 J	< 12 U	< 250 U	0.67 J	NA	0.41 J	0.098 J	< 0.24 U	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene	70	1.3 J	0.74 J	< 250 U	< 12 U	1.1	NA	2.2	2.2	2.3	2.2	2.2	4.1
Methylene chloride	5	1.2 J	0.33 J	< 25 U	NA	< 2 U	NA	< 2 U	0.2 JB	< 0.32 U	0.38 UB	0.32 J,B	< 5 U
Tetrachloroethene	1	< 2.5 U	< 1 U	< 12 U	NA	< 1 U	NA	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	70	< 2.5 U	< 1 U	< 12 U	< 250 U	< 1 U	NA	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 1 U
Trichloroethene	2.8	**9.2**	2.4	**7.3 J**	NA	**4.6**	NA	**9.7**	**8.1**	**8.6**	**7.3**	**4.2**	**4.4**
Vinyl chloride	1	**78**	**40**	**70**	NA	**23**	NA	**31**	**18**	**17**	**17**	**7.4**	**13**
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	**18**	**16**	< 9.8 U	**18**	**12**	NA	**13**	**9.4 J**	**8.9 J**	**6.7 J**	**7.7 J**	**11**
bis(2-Ethylhexyl) phthalate	5	< 9.6 U	< 9.7 U	< 9.7 U	< 9.8 U	< 9.8 U	NA	< 10 U	< 9.9 U	< 0.46 U	< 9.4 U	< 9.5 U	< 9.3 U
Metals (µg/L)													
Antimony	6	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 10 U	< 10 U	< 1.8 U	< 10 U	< 10 U	< 20 U
Chromium	50	1.7 B	1.3 B J	< 5 U	< 5 U	< 5 U	NA	< 5 U	< 5 U	< 1.1 U	1.1 J	< 5 U	< 10 U
Manganese	50	**3010**	**3070**	**2480 J**	**3070**	**3130**	NA	**3320**	**3400**	**2730**	**2360**	**3000 J**	**2,100**
Thallium	2	**6.7 B**	< 10 U	< 10 U	< 10 U	< 10 U	NA	< 10 U	< 10 U	< 2.8 U	< 10 U	< 10 U	< 10 U
Zinc	2100	26.8	3 B J	< 20 U	NA	3.3 B J	NA	< 20 U	11 JB	5.4 BJ	< 20 U	< 20 U	4.2 UB

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID Sample Date	OU3 ROD Performance Standard	NS-51 4/21/1998	NS-51 4/21/1998	NS-51 9/10/1998	NS-51 7/20/1999	NS-51 9/10/1999	NS-51 2/15/2000	NS-51 7/20/2000	NS-51 7/20/2000	NS-51 3/7/2002	NS-51 12/2/2002	NS-51 12/2/2003	NS-51 12/1/2004
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 10000 U	< 20000 U	NA	< 500 U	< 20000 U	< 25000 U	< 5 U	NA	< 440 U	< 2000 U	< 400 U	< 250 U
1,1-Dichloroethene	7	< 10000 U	< 20000 U	NA	< 500 U	< 20000 U	< 25000 U	< 5 U	NA	< 510 U	< 2000 U	**84 J**	< 250 U
1,2-Dichloroethane	1	**230000 E**	**240000 D**	NA	**290000**	**200000**	**410000**	**18**	NA	**38000**	**43000**	**6300**	**8200**
1,2-Dichloropropane	1	< 10000 U	< 20000 U	NA	< 500 U	< 20000 U	< 25000 U	< 5 U	NA	< 460 U	< 2000 U	< 400 U	< 250 U
Acetone	700	< 10000 U	**26000 D**	NA	< 10000 U	< 20000 U	< 250000 U	NA	NA	< 2500 U	< 20000 U	< 4000 U	< 2500 U
Chloroform	1	< 10000 U	< 20000 U	NA	< 500 U	< 20000 U	< 25000 U	NA	NA	< 490 U	< 2000 U	**200 J**	< 250 U
cis-1,2-Dichloroethene	70	NA	NA	NA	< 500 U	NA	< 25000 U	NA	NA	< 290 U	< 2000 U	**180 J**	< 250 U
Methylene chloride	5	< 10000 U	< 20000 U	NA	< 500 U	< 20000 U	< 25000 U	NA	NA	< 360 U	< 4000 U	**380 J**	< 500 U
Tetrachloroethene	1	< 10000 U	< 20000 U	NA	< 500 U	< 20000 U	< 25000 U	NA	< 500 U	< 360 U	< 2000 U	< 400 U	< 250 U
trans-1,2-Dichloroethene	70	NA	NA	NA	< 500 U	< 20000 U	< 25000 U	NA	< 500 U	< 370 U	< 2000 U	< 400 U	< 250 U
Trichloroethene	2.8	< 10000 U	< 20000 U	NA	< 500 U	< 20000 U	< 25000 U	NA	< 500 U	< 390 U	< 2000 U	**520**	< 250 U
Vinyl chloride	1	< 10000 U	< 20000 U	NA	< 1000 U	< 20000 U	< 25000 U	NA	< 500 U	< 600 U	< 2000 U	**9700**	< 500 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	NA	NA	NA	< 10 U	NA	< 10 U	NA	< 10 U	< 1 U	< 9.8 U	< 9.6 U	< 9.8 U
bis(2-Ethylhexyl) phthalate	5	NA	NA	NA	< 10 U	NA	< 10 U	NA	< 10 U	< 1 U	< 9.8 U	< 9.6 U	< 9.8 U
Metals (µg/L)													
Antimony	6	< 5 U	NA	< 5 U	< 5 U	NA	< 5 U	NA	< 2 U	< 4 U	< 10 U	< 10 U	< 10 U
Chromium	50	< 10 U	NA	< 10 U	< 2 U	NA	< 2 U	NA	1 B	2 B	1.2 B	2.6 B J	< 5 U
Manganese	50	**5590**	NA	**4040**	**12000**	NA	**3500**	NA	**3400**	**3460**	**2720**	**3040**	**2480 J**
Thallium	2	**7 J**	NA	**5 J**	< 2 U	NA	< 2 U	NA	< 1 U	< 6 U	**7.1 B**	< 10 U	< 10 U
Zinc	2100	130	NA	< 20 U	14	NA	84	NA	1390	42	147	52.4 J	72.7

Notes: Provided on the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

	OU3 ROD Performance Standard	NS-53	NS-53	NS-53	NS-53	NS-53	NS-53	NS-53	NS-53	NS-53	NS-53	NS
		4/22/1998	4/22/1998	9/11/1998	7/15/1999	9/11/1999	9/11/1999	7/24/2000	7/24/2000	3/13/2002	3/13/
ompounds (µg/L)												
thane	5	< 2500 U	< 10000 U	NA	< 5 U	< 10000 U	< 500 U	< 50 U	< 5 U	< U	<
ne	7	< 2500 U	< 10000 U	NA	< 5 U	< 10000 U	< 500 U	< 50 U	< 5 U	< 1 U	<
ne	1	**110000 E**	**110000 D**	NA	**13000**	**95000 D**	**76000 E**	**2000 D**	**1300 E**	**47 E**	**8**
ane	1	< 2500 U	< 10000 U	NA	< 5 U	< 10000 U	< 500 U	< 50 U	< 5 U	< U	<
	700	**2200 J**	< 10000 U	NA	< 100 U	< 10000 U	< 500 U	< 100 U	< 10 U	< 2 U	< 1
	1	< 2500 U	< 10000 U	NA	**14**	< 10000 U	< 500 U	**51 D**	**55**	**99 E**	**1**
ethene	70	NA	NA	NA	< 5 U	NA	NA	< 50 U	< 5 U	< U	<
ide	5	< 2500 U	< 10000 U	NA	**14**	< 10000 U	**110 J**	< 50 U	5	2	4
e	1	< 2500 U	< 10000 U	NA	< 5 U	< 10000 U	< 500 U	< 50 U	< 5 U	1	<
roethene	70	NA	NA	NA	< 5 U	< 10000 U	< 500 U	< 50 U	< 5 U	< U	<
	2.8	< 2500 U	< 10000 U	NA	< 5 U	< 10000 U	< 500 U	< 50 U	< 5 U	1 J	<
	1	< 2500 U	< 10000 U	NA	< 10 U	< 10000 U	**85 J**	< 50 U	**8**	< 1 U	<
nic Compounds (µg/L)												
l) ether	5	NA	NA	NA	< 10 U	NA	NA	NA	2 J	< 1 U	N
) phthalate	5	NA	NA	NA	< 10 U	NA	NA	NA	< 10 U	NA	<
	6	< 5 U	NA	< 5 U	< 5 U	NA	NA	NA	< 2 U	< 4 U	N
	50	< 10 U	NA	< 10 U	< 2 U	NA	NA	NA	< 1 U	1 B	N
	50	**4760**	NA	**3320**	**840**	NA	NA	NA	**960**	**411 J**	N
	2	**4 J**	NA	< 10 U	< 2 U	NA	NA	NA	< 1 U	< 6 U	N
	2100	9 J	NA	< 20 U	20	NA	NA	NA	< 2 U	32	N

the last page of Table 5.

Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

Location ID / Sample Date	OU3 ROD Performance Standard	NS-51	NS-51	NS-51	NS-51	NS-51	NS-51	NS-51	NS-52	NS-52	NS-52	NS-52	NS-52
		12/1/2005	11/30/2006	12/5/2007	12/4/2008	12/10/2009	12/14/2010	12/2/2011	4/21/1998	9/10/1998	7/20/1999	9/10/1999	7/24/2000
Volatile Organic Compounds (µg/L)													
1,1,2-Trichloroethane	5	< 100 U	< 5 U	< 1 U	< 0.2 U	0.27 J	< 1 U	< 1 U	< 2500 U	NA	< 500 U	< 2000 U	< 250 U
1,1-Dichloroethene	7	< 100 U	< 5 U	0.61 J	< 0.28 U	< 1 U	0.40 J	< 1 U	< 2500 U	NA	< 500 U	< 2000 U	< 250 U
1,2-Dichloroethane	1	**1800**	**140**	**26**	0.82 J	0.46 J	**2.7**	< 1 U	**35000**	NA	**8400**	**22000**	**4100 D**
1,2-Dichloropropane	1	< 100 U	< 5 U	< 1 U	< 0.18 U	0.17 J	< 1 U	< 1 U	< 2500 U	NA	< 500 U	< 2000 U	< 250 U
Acetone	700	NA	< 50 U	< 10 U	< 2.5 U	< 10 U	< 10 U	< 5 U	< 2500 U	NA	< 10000 U	< 2000 U	< 500 U
Chloroform	1	< 100 U	< 5 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U	< 2500 U	NA	< 500 U	< 2000 U	< 250 U
cis-1,2-Dichloroethene	70	< 100 U	< 5 U	1.6	< 0.27 U	< 1 U	1.6	< 1 U	NA	NA	< 500 U	NA	< 250 U
Methylene chloride	5	< 200 U	< 10 U	< 2 U	< 0.32 U	< 2 U	< 2 U	**6.3 UB**	**1300 J**	NA	< 500 U	< 2000 U	< 250 U
Tetrachloroethene	1	< 100 U	< 5 U	0.26 J	< 0.24 U	0.33 J	< 1 U	< 1 U	< 2500 U	NA	< 500 U	< 2000 U	< 250 U
trans-1,2-Dichloroethene	70	< 100 U	< 5 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 1 U	NA	NA	< 500 U	< 2000 U	< 250 U
Trichloroethene	2.8	< 100 U	**3 J**	**3.4**	< 0.29 U	1.6	**3.9**	**2.9**	< 2500 U	NA	< 500 U	< 2000 U	< 250 U
Vinyl chloride	1	< 100 U	**9.2**	**9.8**	< 0.29 U	< 2 U	< 2 U	< 0.5 U	< 2500 U	NA	< 1000 U	< 2000 U	< 250 U
Semi-Volatile Organic Compounds (µg/L)													
bis(2-Chloroethyl) ether	5	< 10 U	< 9.6 U	< 9.6 U	< 0.26 U	< 9.4 U	< 9.5 U	< 1.9 U	NA	NA	< 10 U	NA	NA
bis(2-Ethylhexyl) phthalate	5	< 10 U	< 9.6 U	< 9.6 U	< 0.46 U	< 9.4 U	< 9.5 U	< 9.3 U	NA	NA	< 10 U	NA	NA
Metals (µg/L)													
Antimony	6	< 10 U	< 10 U	< 10 U	< 1.8 U	1.8 UB	< 10 U	< 20 U	< 5 U	< 5 U	< 5 U	NA	NA
Chromium	50	1.4 B	1.7 J	1.4 B	3.2 B	2.1 J	< 5 U	< 10 U	4 J	< 10 U	4	NA	NA
Manganese	50	**2940**	**2100**	**2420**	**1160**	**1720**	**755**	**1.500**	**584**	**561**	**360**	NA	NA
Thallium	2	< 10 U	< 10 U	< 10 U	< 2.8 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2 U	NA	NA
Zinc	2100	26.7 J	60.8	50.1 J	22.7 J	15.6 J	5.8 B	7.3 UB	< 20 U	< 20 U	28	NA	NA

Notes: Provided on the last page of Table 5.

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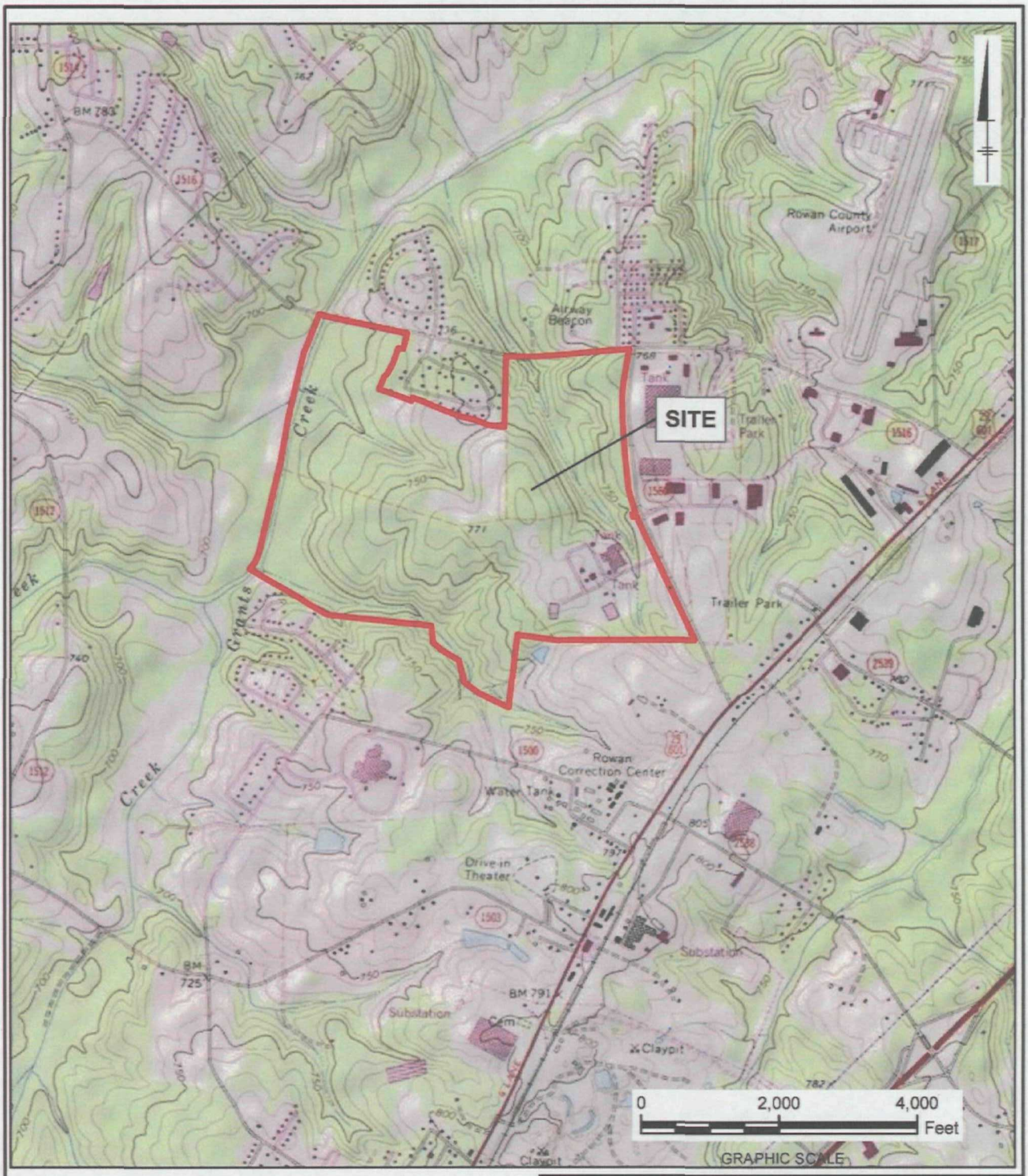
Table 7
Historical Analytical Results - OU3 Extraction and Monitoring Wells
NSCC Superfund Site
Salisbury, North Carolina

OU3 ROD erformance Standard	NS-52 7/24/2000	NS-52 3/13/2002	NS-52 12/2/2002	NS-52 12/2/2003	NS-52 12/1/2004	NS-52 12/1/2005	NS-52 12/4/2006	NS-52 12/4/2007	NS-52 12/4/2008	NS-52 12/11/2009	NS-52 12/14/2010	NS-52 12/2/2011
)												
5	< 5 U	< U	< 4.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 1 U
7	< 5 U	< 1 U	< 4.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.28 U	< 1 U	< 1 U	< 1 U
1	**2000 E**	**5**	**100**	**5.2**	**1.9**	**1.8**	**2**	**1.6**	0.54 J	0.68 J	< 1 U	< 1 U
1	**2 J**	< U	< 4.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.18 U	< 1 U	< 1 U	< 1 U
700	< 10 U	< 2 U	< 42 U	< 10 U	< 10 U	3.1 J	< 10 U	< 10 U	2.9 J	< 10 U	< 10 U	< 5 U
1	< 5 U	< U	< 4.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U
70	5 J	J	< 4.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 1 U
5	**18**	< U	< 8.3 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.32 U	< 2 U	< 2 U	**6.6 UB**
1	**3 J**	1 J	< 4.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.24 U	< 1 U	< 1 U	< 1 U
70	< 5 U	< U	< 4.2 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.27 U	< 1 U	< 1 U	< 1 U
2.8	**4 J**	1 J	< 4.2 U	1	0.9 J	1.5	1.1	0.54 J	1.8	0.45 J	0.46 J	< 0.5 U
1	**60**	**3**	**3.4 J**	**2.1**	< 2 U	0.29 J	< 1 U	< 2 U	< 0.29 U	< 2 U	< 2 U	< 0.5 U
(µg/L)												
5	< 10 U	< 1 U	< 9.9 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 0.26 U	< 9.5 U	< 9.4 U	< 1.9 U
5	< 10 U	< 1 U	< 9.9 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 0.45 U	< 9.5 U	< 9.4 U	< 9.3 U
6	< 2 U	< 4 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.8 U	< 10 U	< 10 U	< 20 U
50	< 1 U	1 B	< 5 U	1.3 B J	< 5 U	< 5 U	< 5 U	< 5 U	< 1.1 U	0.62 J	< 5 U	< 10 U
50	**4280**	**1070 J**	**1040**	**1000**	**1120**	**1110**	**497**	**76**	**540**	**126**	**82.1**	34
2	< 1 U	< 6 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 2.8 U	**2.5 J**	< 10 U	< 10 U
2100	6 B	< 4 U	25.7	9.7 B J	3.8 B	130 J	11 JB	7.7 JB	10 BJ	< 20 U	2.5 B	4.1 UB

able 5.



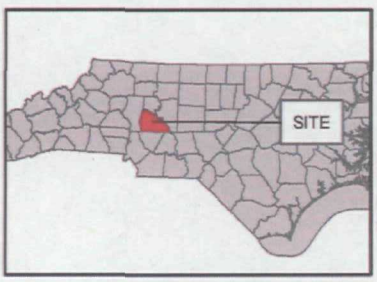
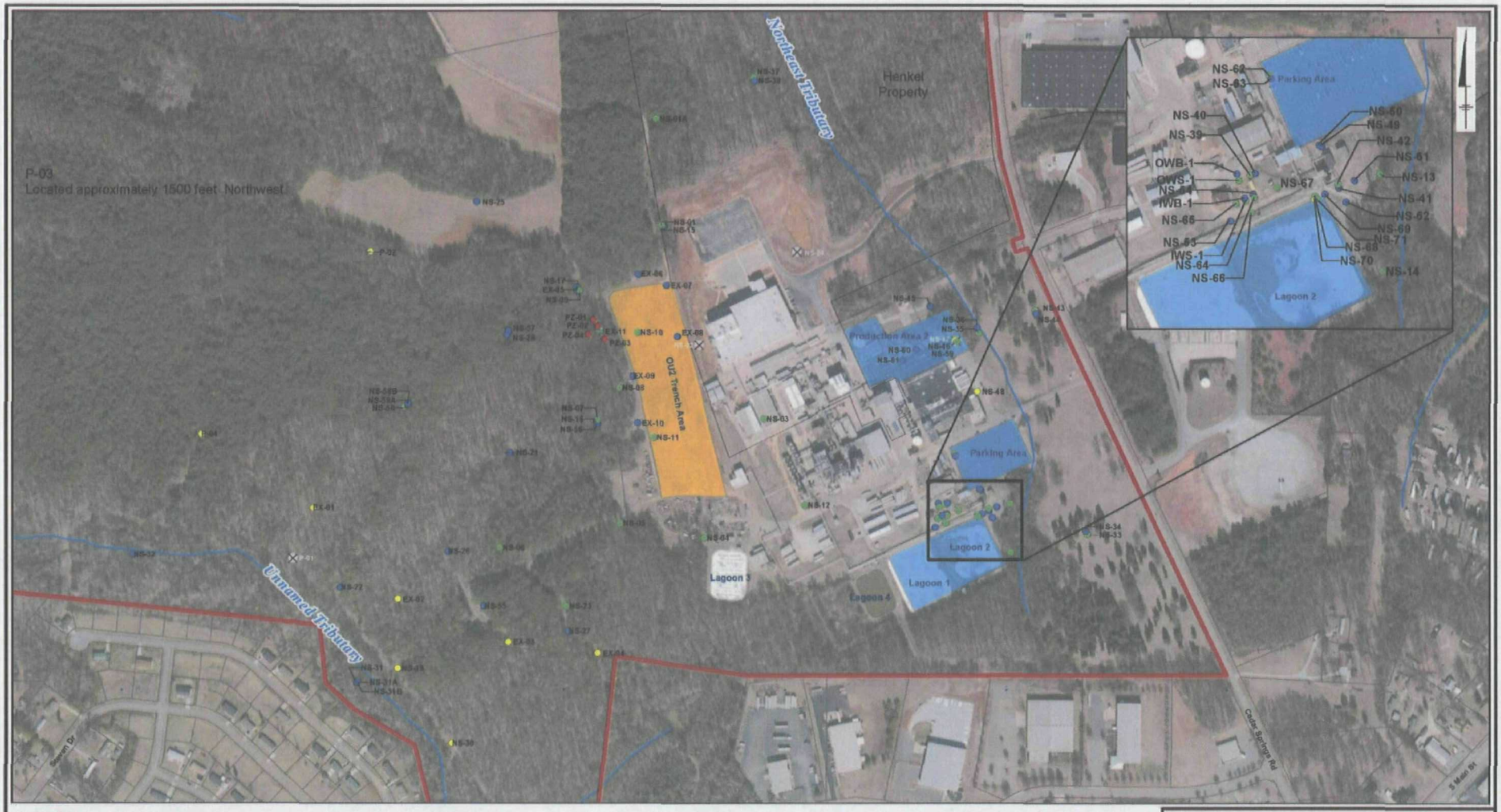


IMAGE SOURCE:
1:24,000 USGS
http://goto.arcgisonline.com/maps/USA_Topo_Maps

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

USGS TOPOGRAPHIC MAP

Figure 1



Legend

- MW, Saprolite
- MW, Shallow Bedrock
- MW, Deep Bedrock
- Extraction Well Location
- Piezometer Location
- Sediment Sample Location
- Stream Gauge Location
- Surface Water Location
- Abandoned Wells
- OU2
- OU4
- SiteBoundary
- Henkel Boundary
- Railroads
- Streams
- Parcels

0 400 800 Feet

GRAPHIC SCALE

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

SITE PLAN

Figure 2

Legend

- Saprolite Sample Locations
- Potentiometric Contours (ft. amsl)
- (Inferred where dashed)
- Railroads
- Streams
- Parcels

NOTE:
See Figure 15 for higher resolution in the OU3 Lagoon Area.

0 400 800 Feet
GRAPHIC SCALE

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

POTENTIOMETRIC SURFACE OF THE SAPROLITE AQUIFER
DECEMBER 2011

Figure 3

Legend

- Shallow Bedrock Sample Locations
- Potentiometric Contours (ft. amsl)
- (Inferred where dashed)
- Drawdown
- Railroads
- Streams
- Parcels

NOTE:
See Figure 16 for higher resolution in the OU3 Lagoon Area.

0 400 800 Feet
GRAPHIC SCALE

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

POTENTIOMETRIC SURFACE OF THE SHALLOW BEDROCK AQUIFER
DECEMBER 2011

Figure 4

Legend

- Deep Bedrock Sample Locations
- Potentiometric Contours (ft. amsl)
- (Inferred where dashed)
- Railroads
- Streams
- Parcels

0 400 800 Feet

GRAPHIC SCALE

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

POTENTIOMETRIC SURFACE OF THE DEEP BEDROCK AQUIFER

DECEMBER 2011

Figure 5

- Extraction Well
- MW Saprolite
- MW Shallow Bedrock
- MW Deep Bedrock
- Inferred Fracture Trace
- Simulated EX-5 Capture Zone
- Simulated EX-9 Capture Zone*

Flow Rates

EX-5 - 2.5 gpm

EX-9 - 0.5 gpm

0 100 200 Feet

GRAPHIC SCALE

*EX-9 is screened in saprolite (model layer 1) and upper shallow bedrock (model layer 2), the capture zone shown for EX-9 is for model layer 2 only

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SALISBURY, NORTH CAROLINA

EX-5 AND EX-9 SIMULATED STEADY-STATE CAPTURE ZONES IN SHALLOW BEDROCK (MODEL LAYER 3)

Figure 6

- Extraction Well
- MW Saprolite
- MW Shallow Bedrock
- MW Deep Bedrock
- Inferred Fracture Trace
- Simulated EX-5 Capture Zone
- Simulated EX-9 Capture Zone*
- Simulated EX-11 Capture Zone

Flow Rates

EX-5 - 2.5 gpm

EX-9 - 0.5 gpm

EX-11- 2.5 gpm

0 100 200 Feet

GRAPHIC SCALE

*EX-9 is screened in saprolite (model layer 1) and upper shallow bedrock (model layer 2). the capture zone shown for EX-9 is for model layer 2 only

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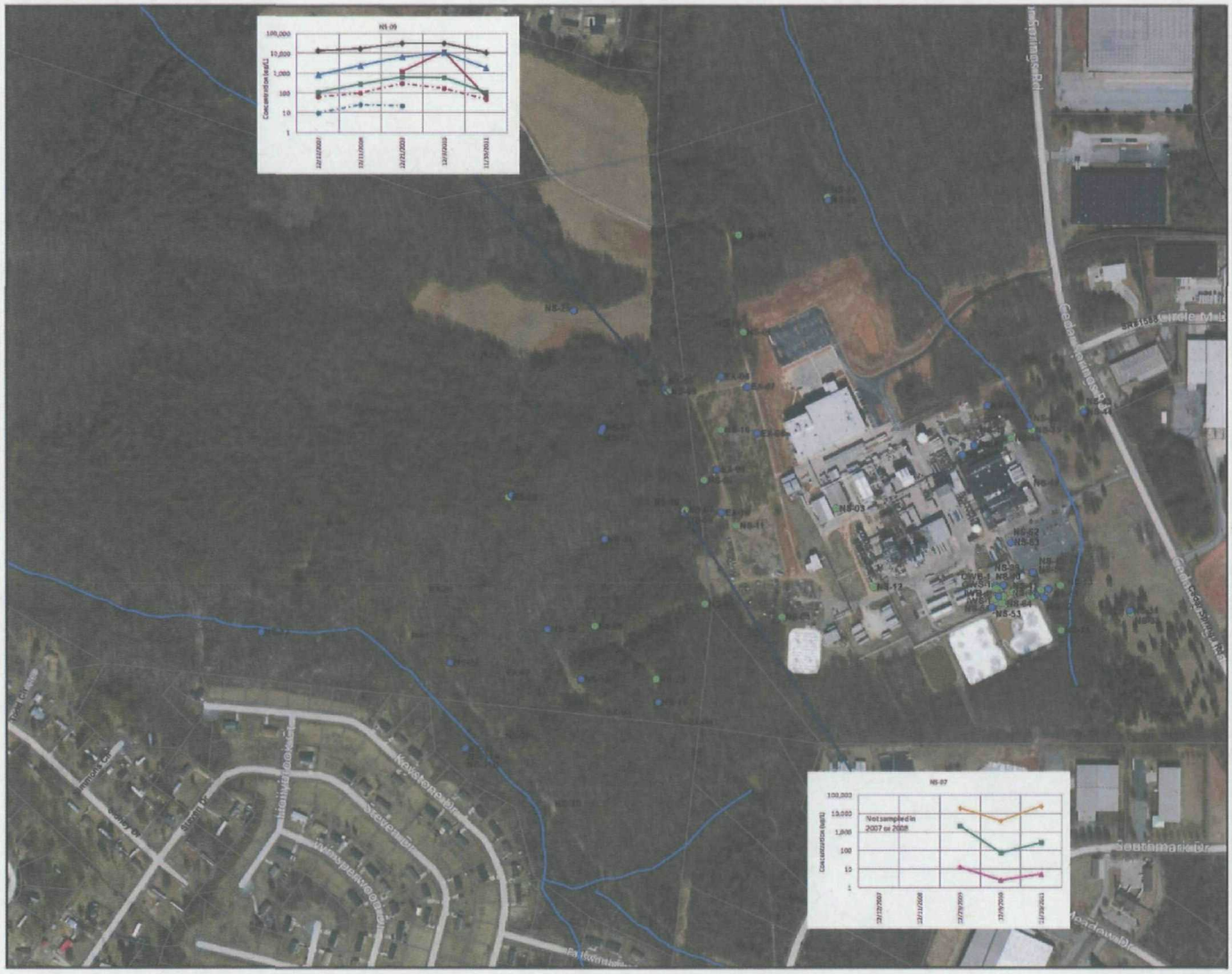
SALISBURY, NORTH CAROLINA

EX-5, EX-9, AND EX-11 SIMULATED STEADY-STATE CAPTURE ZONES IN SHALLOW BEDROCK (MODEL LAYER 3)

Figure 7



Legend

- MW, Saprolite
- MW, Shallow Bedrock
- MW, Deep Bedrock
- Methylene Chloride
- Benzene
- bis(2-Chloroethyl) ether
- Xylene (total)
- Toluene
- Manganese
- Vinyl Chloride
- Acetone

Notes:
All Concentrations are in (ug/L)

0 500 Feet
GRAPHIC SCALE

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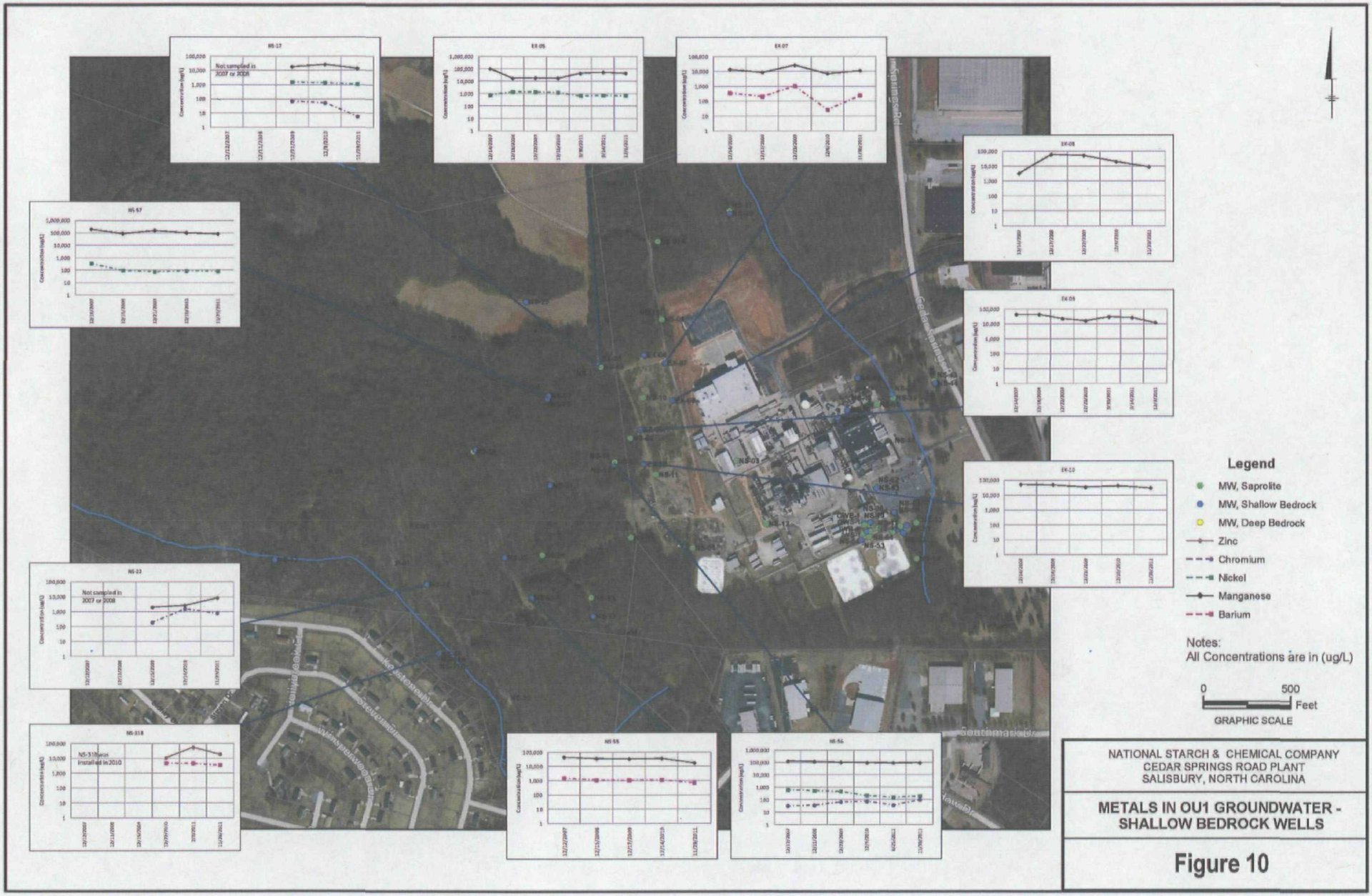
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

VOCS, SVOCS AND METALS IN OU1 GROUNDWATER - SAPOROLITE WELLS

Figure 8

Legend
MW, Saprolite
MW, Shallow Bedrock
MW, Deep Bedrock
Methylene Chloride
1,2-Dichloroethane
Benzene
bis(2-Chloroethyl) ether
Toluene
1,2-Dichloropropane
Xylene (total)
Ethylbenzene
Vinyl Chloride
Acetone
Notes:
All Concentrations are in (ug/L)
0
500
Feet
GRAPHIC SCALE
NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA
VOCS AND SVOCS IN OU1
GROUNDWATER -
SHALLOW BEDROCK WELLS
Figure 9



NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

METALS IN OU1 GROUNDWATER - SHALLOW BEDROCK WELLS

Figure 10

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

VOCS, SVOCS AND METALS IN OU1 GROUNDWATER - DEEP BEDROCK WELLS

Figure 11

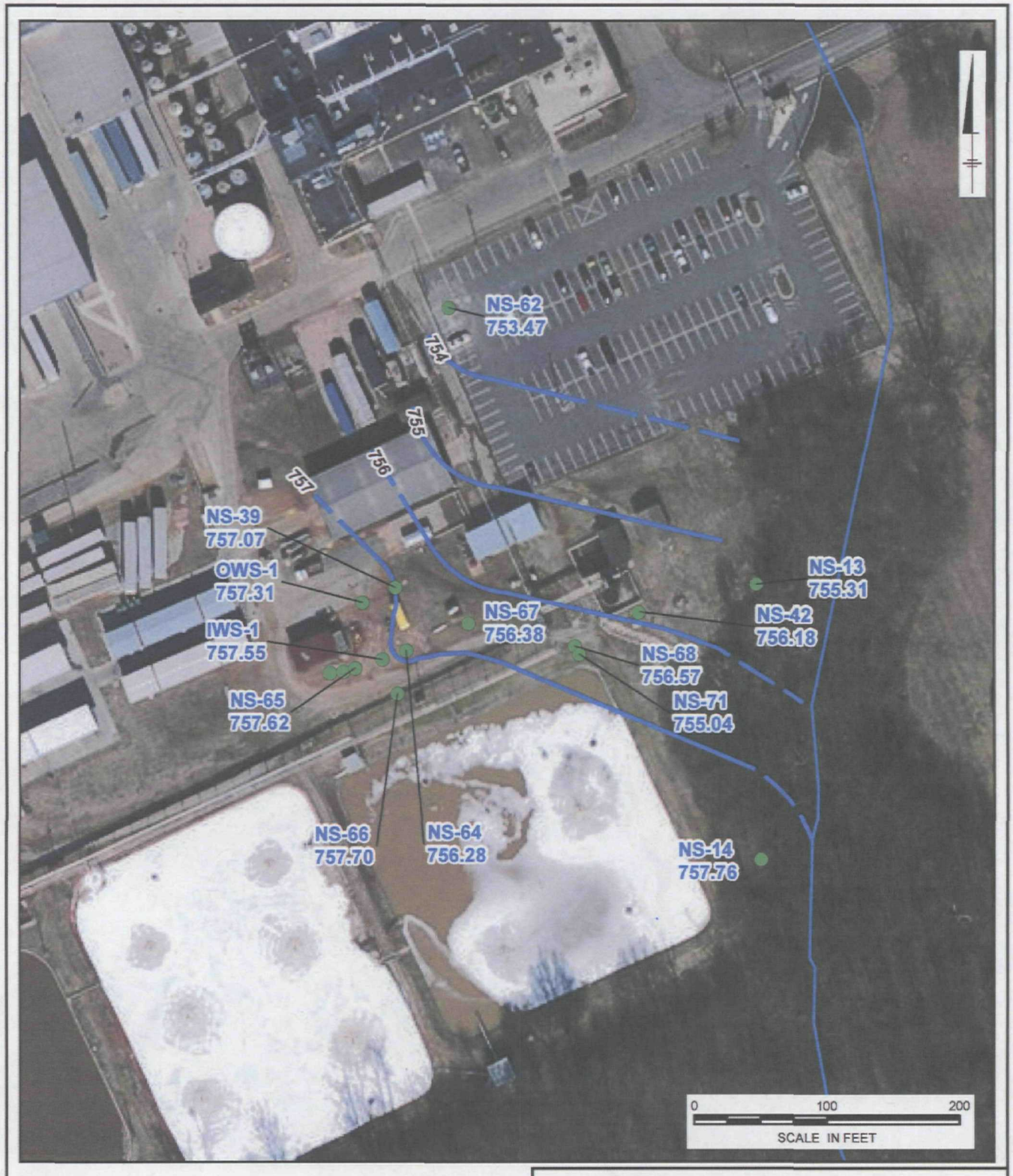
Legend

- OU2 Soil Sampling Locations
- GORE Sample Locations
- Monitoring Wells
- Trench observed on aerial image
- Test Pit
- Trench
- OU2

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

OU2 Soil Sampling Locations

Figure 12



Legend

- Saprolite Sample Locations
- Potentiometric Contours (ft. amsl) December 2011
- (Inferred where dashed)
- Railroads
- Streams
- Parcels

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

POTENTIOMETRIC SURFACE OF THE SAPROLITE AQUIFER (LAGOON AREA)

Figure 13

Legend

- Shallow Bedrock Sample Locations
- Potentiometric Contours (ft. amsl) December 2011
- (Inferred where dashed)
- Railroads
- Streams
- Parcels

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

POTENTIOMETRIC SURFACE OF THE SHALLOW BEDROCK AQUIFER (LAGOON AREA)

Figure 14

- Extraction Well
- MW Saprolite
- MW Shallow Bedrock
- MW Deep Bedrock
- Inferred Fracture Trace
- Simulated Water Level Contour (c.i. - 5 feet)
- Simulated IWB-1 Capture Zone in Model Layer 1

Flow Rates

IWB-1 - 15 gpm

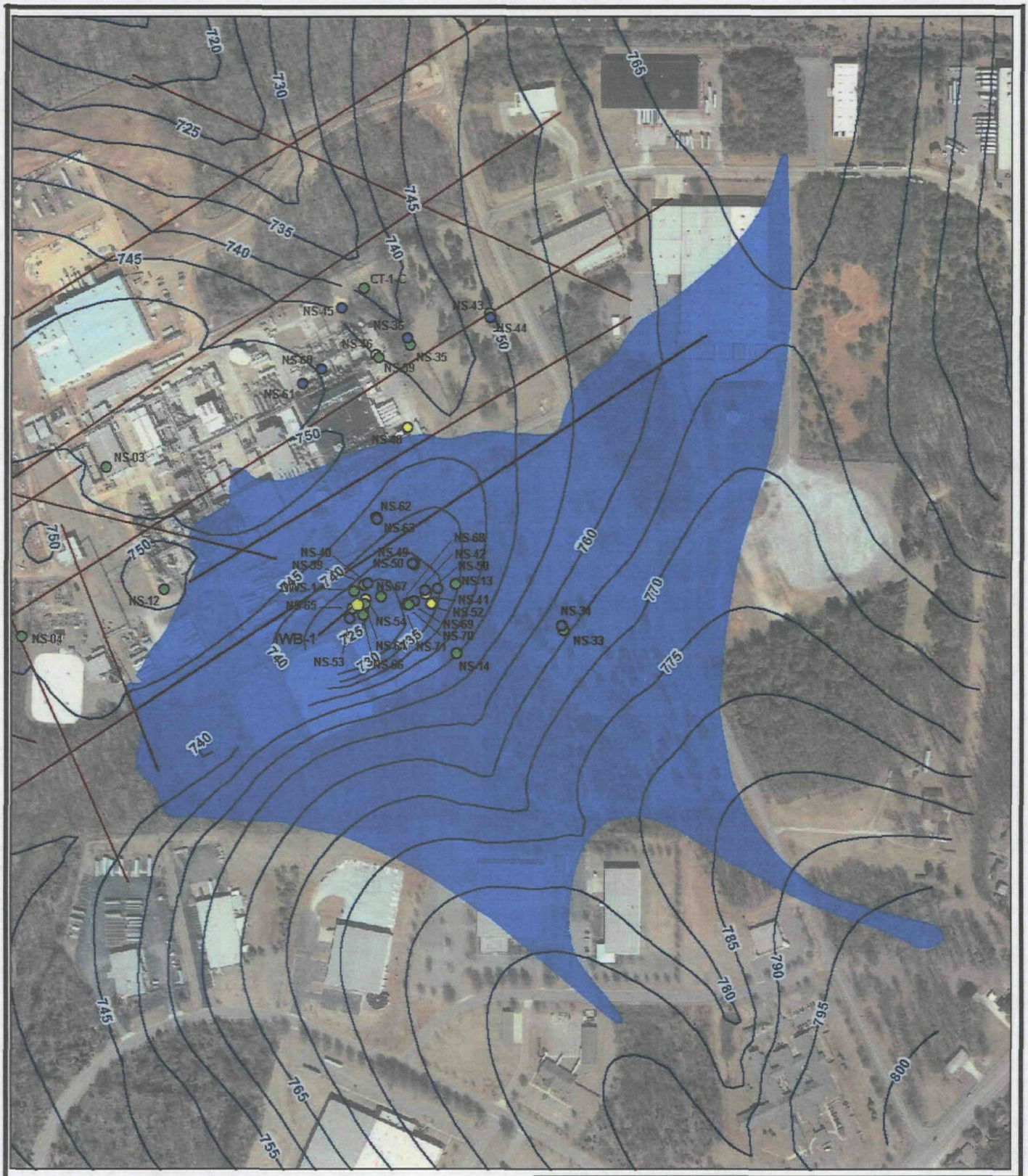
0 200 400 Feet

GRAPHIC SCALE

NATIONAL STARCH CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

IWB-1 SIMULATED STEADY-STATE
CAPTURE ZONE IN SAPROLITE AT 15 GPM

Figure 15



- Extraction Well
- MW Saprolite
- MW Shallow Bedrock
- MW Deep Bedrock
- Inferred Fracture Trace
- Simulated Water Level Contour (c.i. - 5 feet)
- Simulated IWB-1 Capture Zone in Model Layer 1

Flow Rates

IWB-1 - 30 gpm

0 200 400 Feet

GRAPHIC SCALE

NATIONAL STARCH CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

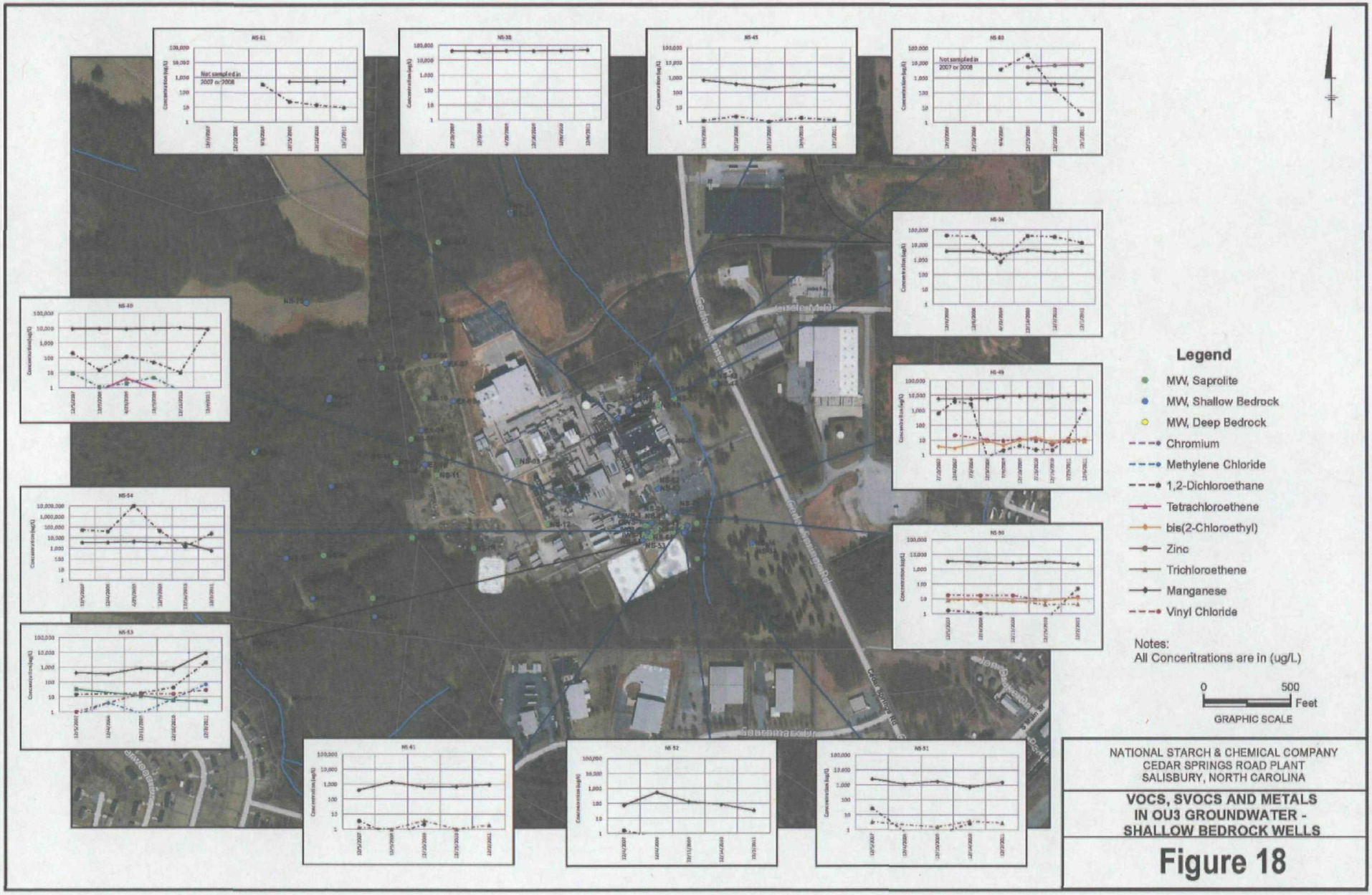
IWB-1 SIMULATED STEADY-STATE
CAPTURE ZONE IN SAPROLITE AT 30 GPM

Figure 16

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

VOCS, SVOCS AND METALS IN OU3 GROUNDWATER - SAPOROLITE WELLS

Figure 17



NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

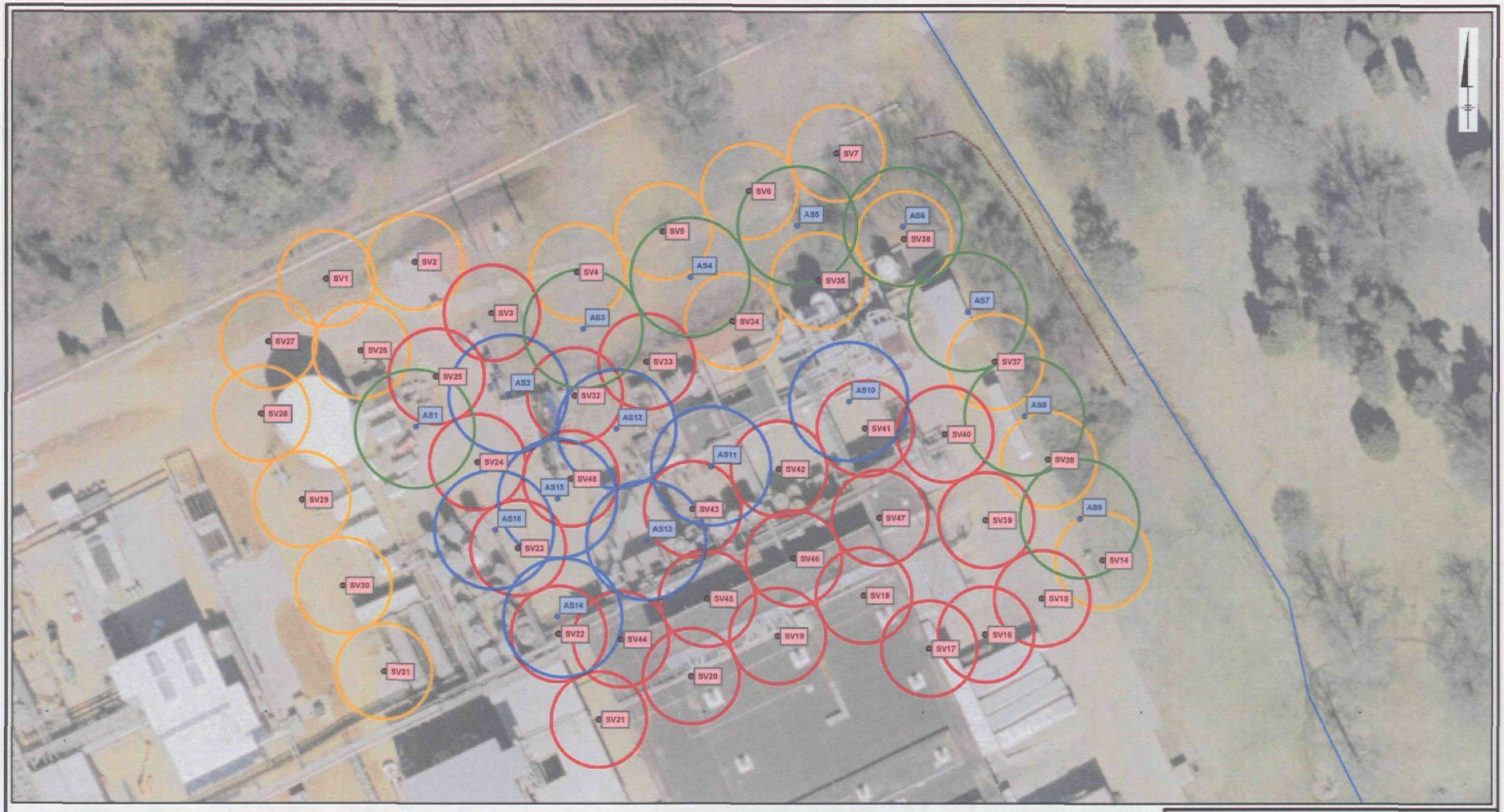
VOCS, SVOCS AND METALS IN OU3 GROUNDWATER - SHALLOW BEDROCK WELLS

Figure 18

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

VOCS, SVOCS AND METALS IN OU3 GROUNDWATER - DEEP BEDROCK WELLS

Figure 19



Legend

- Railroad
- Vapor Recovery Trench
- Stream
- AS Air Sparge Well
- SV Soil Vapor Extracting Well
- Zone 1 Air Sparge (40' Radius of Influence)
- Zone 2 Air Sparge (40' Radius of Influence)
- Zone 1 SVE (30' Radius of Influence)
- Zone 2 SVE (30' Radius of Influence)

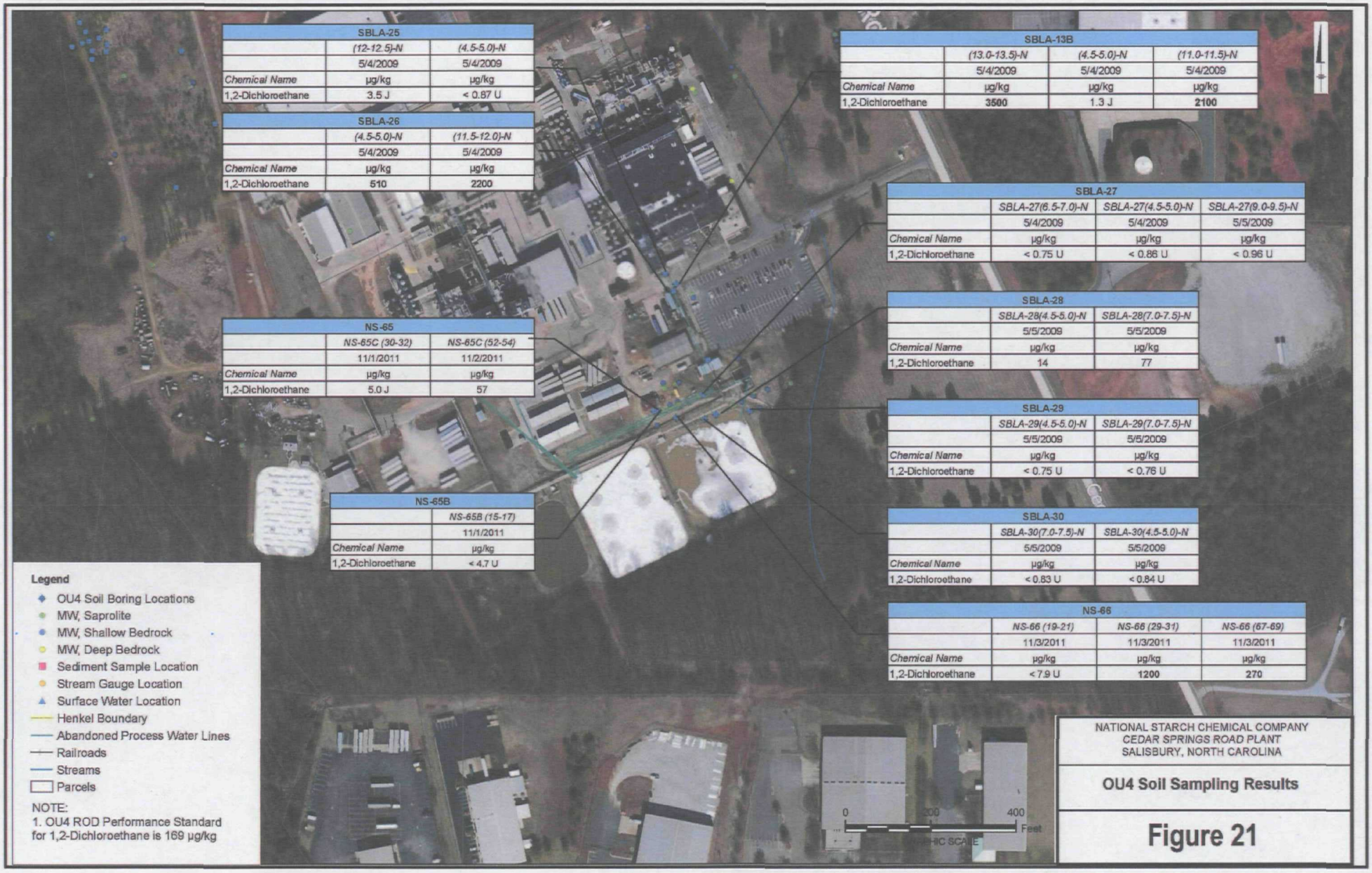
0 60 120 Feet

GRAPHIC SCALE

NATIONAL STARCH & CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

SOIL VAPOR AND AIR SPARGE LOCATIONS

Figure 20



SBLA-25		
	(12-12.5)-N	(4.5-5.0)-N
	5/4/2009	5/4/2009
Chemical Name	µg/kg	µg/kg
1,2-Dichloroethane	3.5 J	< 0.87 U

SBLA-26		
	(4.5-5.0)-N	(11.5-12.0)-N
	5/4/2009	5/4/2009
Chemical Name	µg/kg	µg/kg
1,2-Dichloroethane	510	2200

NS-65		
	NS-65C (30-32)	NS-65C (52-54)
	11/1/2011	11/2/2011
Chemical Name	µg/kg	µg/kg
1,2-Dichloroethane	5.0 J	57

NS-65B	
	NS-65B (15-17)
	11/1/2011
Chemical Name	µg/kg
1,2-Dichloroethane	< 4.7 U

SBLA-13B			
	(13.0-13.5)-N	(4.5-5.0)-N	(11.0-11.5)-N
	5/4/2009	5/4/2009	5/4/2009
Chemical Name	µg/kg	µg/kg	µg/kg
1,2-Dichloroethane	3500	1.3 J	2100

SBLA-27			
	SBLA-27(6.5-7.0)-N	SBLA-27(4.5-5.0)-N	SBLA-27(9.0-9.5)-N
	5/4/2009	5/4/2009	5/5/2009
Chemical Name	µg/kg	µg/kg	µg/kg
1,2-Dichloroethane	< 0.75 U	< 0.86 U	< 0.96 U

SBLA-28		
	SBLA-28(4.5-5.0)-N	SBLA-28(7.0-7.5)-N
	5/5/2009	5/5/2009
Chemical Name	µg/kg	µg/kg
1,2-Dichloroethane	14	77

SBLA-29		
	SBLA-29(4.5-5.0)-N	SBLA-29(7.0-7.5)-N
	5/5/2009	5/5/2009
Chemical Name	µg/kg	µg/kg
1,2-Dichloroethane	< 0.75 U	< 0.76 U

SBLA-30		
	SBLA-30(7.0-7.5)-N	SBLA-30(4.5-5.0)-N
	5/5/2009	5/5/2009
Chemical Name	µg/kg	µg/kg
1,2-Dichloroethane	< 0.83 U	< 0.84 U

NS-66			
	NS-66 (19-21)	NS-66 (29-31)	NS-66 (67-69)
	11/3/2011	11/3/2011	11/3/2011
Chemical Name	µg/kg	µg/kg	µg/kg
1,2-Dichloroethane	< 7.9 U	1200	270

Legend

- OU4 Soil Boring Locations
- MW, Saprolite
- MW, Shallow Bedrock
- MW, Deep Bedrock
- Sediment Sample Location
- Stream Gauge Location
- Surface Water Location
- Henkel Boundary
- Abandoned Process Water Lines
- Railroads
- Streams
- Parcels

NOTE:
1. OU4 ROD Performance Standard for 1,2-Dichloroethane is 169 µg/kg

0 200 400 Feet

GRAPHIC SCALE

NATIONAL STARCH CHEMICAL COMPANY
CEDAR SPRINGS ROAD PLANT
SALISBURY, NORTH CAROLINA

OU4 Soil Sampling Results

Figure 21

APPENDICES

APPENDIX A

REFERENCES

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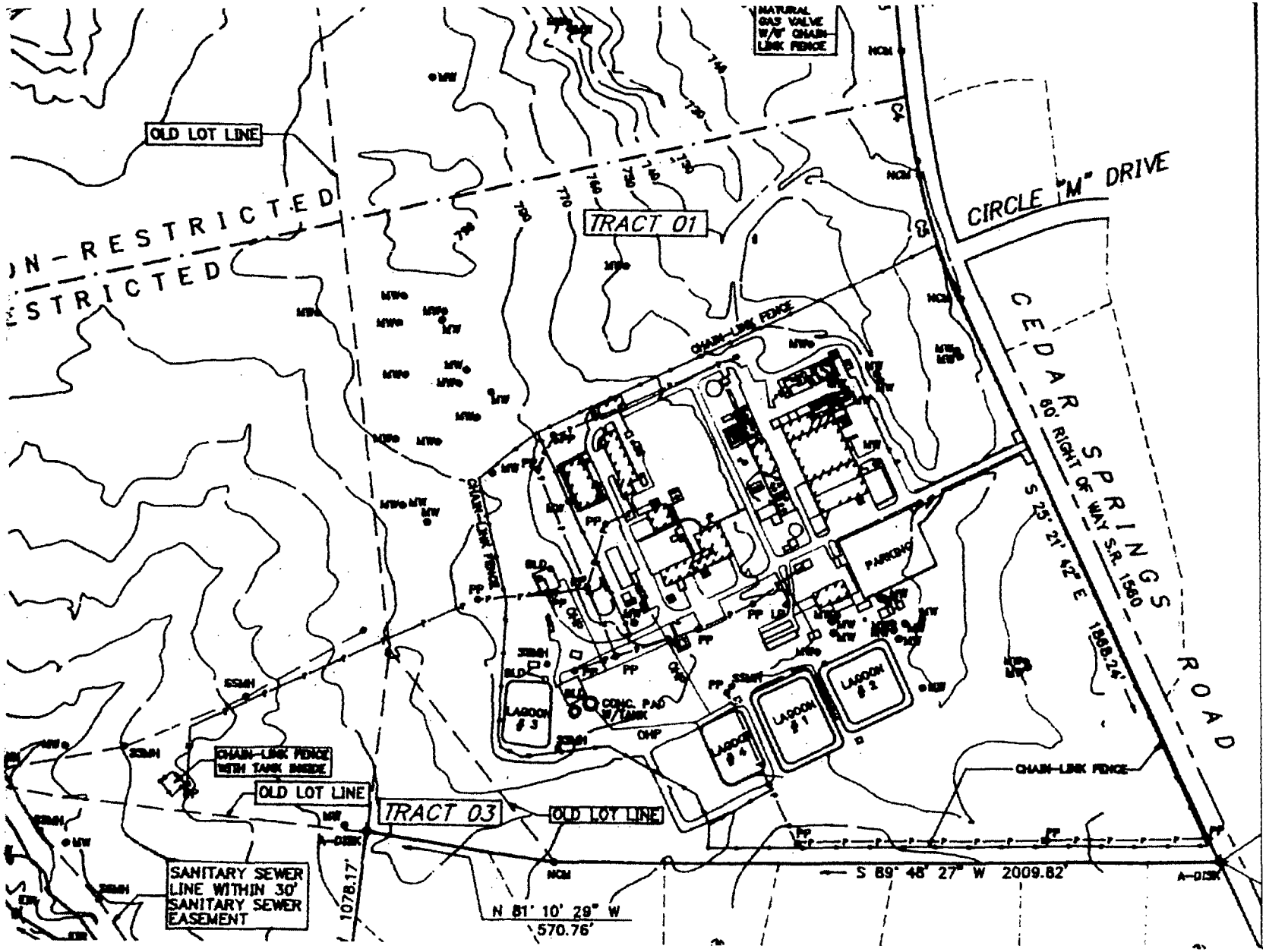
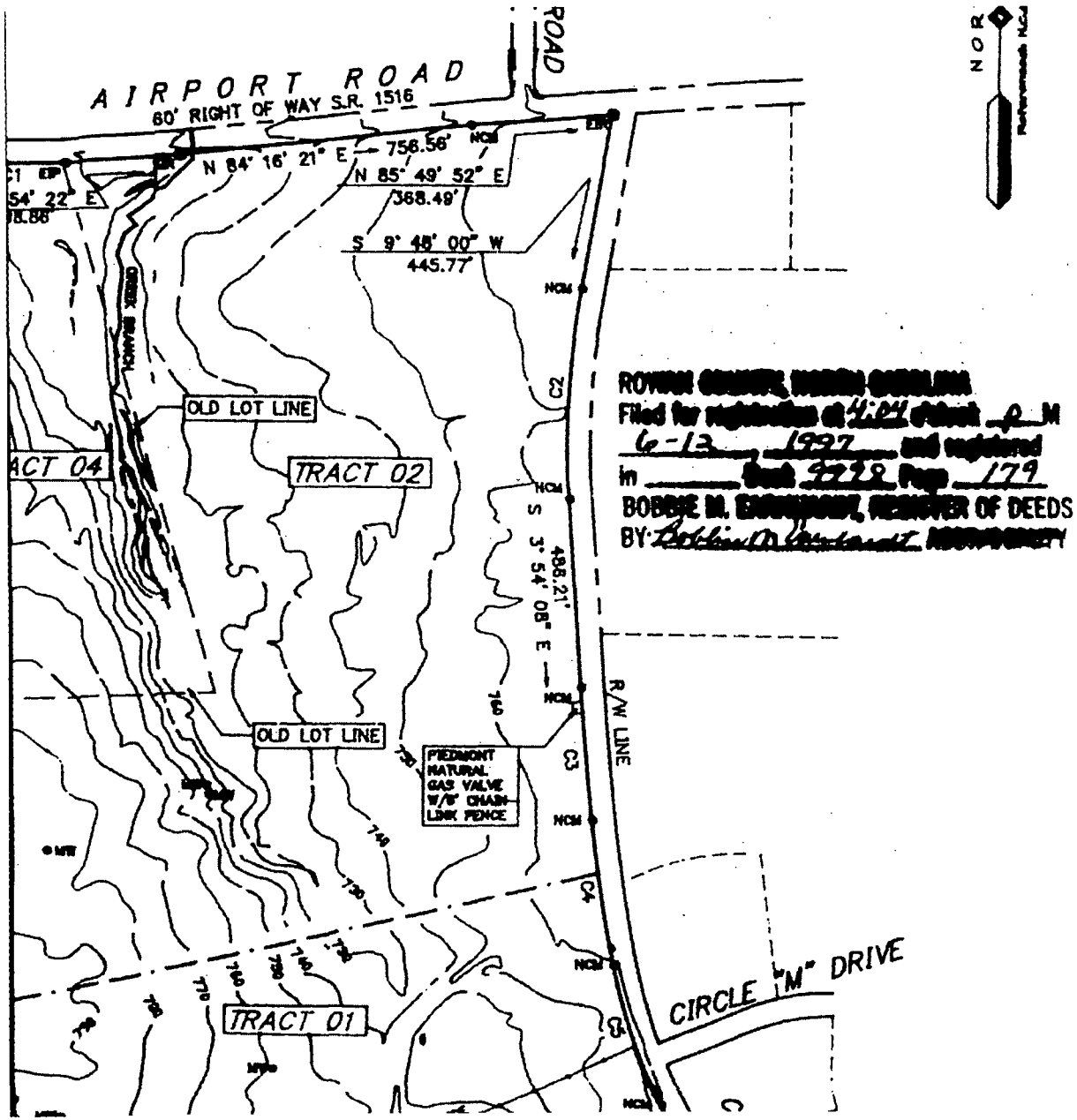
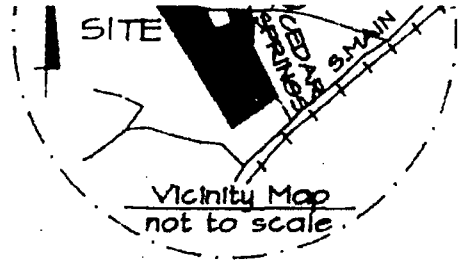
APPENDIX B

Deed Notice


OLD LOT LINE
TRACT 01
CIRCLE "M" DRIVE
CEDAR SPRINGS ROAD
60' RIGHT OF WAY S.R. 1560
S 25° 21' 42" E 1868.24'
CHAIN-LINK FENCE
LAGOON #1
LAGOON #2
LAGOON #3
LAGOON #4
PARKING
CONC. PAD W/TANK
OHP
CHAIN-LINK FENCE WITH TANK INSIDE
OLD LOT LINE
TRACT 03
OLD LOT LINE
CHAIN-LINK FENCE
SANITARY SEWER LINE WITHIN 30' SANITARY SEWER EASEMENT
1078.17'
N 81° 10' 29" W
570.76'
S 89° 48' 27" W 2009.82'
NATURAL GAS VALVE W/8' CHAIN-LINK FENCE





ROWAN COUNTY, NORTH CAROLINA
Filed for registration at 4:04 o'clock P M
6-12 1997 and registered
in Book 522 Page 179
BOBBIE M. SHOEMAKER, REGISTER OF DEEDS
BY: Bobbie M. Shoemaker ASSISTANT/DEPUTY

I, Donald J. Moore, certify that this plat was drawn under my supervision from an actual field survey [illegible] that the boundaries not surveyed are shown as broken lines plotted from information found in Book 46, Page 144, that the ratio of precision as calculated is 1:10,000; that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, registration number and seal this 12th day of June, A.D., 1997.

MOORE REGISTERED SEAL L-2432 LAND SURVEYOR DONALD J. MOORE

L-2432 NC
Registration Number

NOTES

References:
map prepared for National Starch Chemical Corp. by Watson & Atwood, 1/28/1953,
revised map section I Kings Forest, plat book 4958, page 1035,
Southmark Industrial Park, plat book 4958, page 2071,
Little Acres section three, plat book 4958, page 1889,
Little Acres section four, plat book 4958, page 1962,
Donald J. Moore survey for National Starch dated 5/15/1996
Hall Location survey for National Starch by Rotenberger Surveying Co. 1/28/1997
Plant Complex provided by National Starch 5/16/1997
Site Map provided by National Starch, 5/15/1997
DEED BK. 388, PG. 491
DEED BK. 671, PG. 101
DEED BK. 884, PG. 482
DEED BK. 888, PG. 286
TAX MAP 412, PARCELS 18,20
TAX MAP 468, PARCELS 68
TAX MAP 478, PARCELS 20,36

1. This plat is subject to any Easements, Agreements, or Rights-of-Ways of record prior to the date of this plat, which was not visible at the time of this survey.
2. Ratio of Precision for Boundary survey is 1/10,000.
3. Buildings, Sewer Lines, Utilities, Cemetery, other Structures, and Site, are taken from field measurements, previous survey maps, and plats of others.

BK 1118 PG 0198

SEE ADDENDUM

FILED in ROWAN County, NC
on Mar 28 2008 at 04:47:15 PM
by: Bobbie M. Earnhardt
Register of Deeds
BOOK 1118 PAGE 198

4/14.08
CT

NORTH CAROLINA NON-WARRANTY DEED

Excise Tax: No Tax Consideration

Parcel Identifier No. **471, Part of 025, 471/001, 468/113, 472/013 & 153** Verified by __ County on the ____ day of_____, 20 ____ By: _____

NO OPINION ON TITLE IS EXPRESSED OR IMPLIED BY THE PREPARER OF THIS DEED

Mail/Box to:_____

This instrument was prepared by: **Ketner & Dees, Attorneys at Law, P.O. Box 1308, Salisbury, NC 28145-1308**

Brief description for the Index:

THIS DEED made this 25th day of March, 2008, by and between

GRANTOR	GRANTEE
INDOPCO, INC. (formerly known as National Starch and Chemical Corporation and National Starch Products, Inc., successor to Proctor Chemical Company, Inc., formerly known as Prochem Delaware, Inc.), a Delaware corporation duly qualified to do business in North Carolina	**AKZO NOBEL SPG, LLC, a Delaware limited liability company** **Mailing Address:** **c/o National Starch and Chemical Company** **10 Finderne Avenue** **Bridgewater, NJ 08807**

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the Rowan County, North Carolina and more particularly described as follows:

See Exhibit A attached hereto and incorporated herein by reference for a complete description of the property.

The property hereinabove described was acquired by Grantor by instrument recorded in Book ____ page ____.

NC Bar Association Form No. 7 © 1977, 2002
Printed by Agreement with the NC Bar Association – 1981 - Chicago Title Insurance Company

Karen

6287

A map showing the above described property is recorded in Plat Book _____ page _____.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

The Grantor makes no warranty, express or implied, as to title to the property hereinabove described.

IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as of the day and year first above written.

INDOPCO, INC.
(Entity Name)

By: P.C. Mahl

Title: V.P. & SECRETARY

State of NEW JERSEY - County of SOMERSET

I, the undersigned Notary Public of the County and State aforesaid, certify that P.C. MAHL personally came before me this day and acknowledged that he is the V.P. & SECRETARY of Indopco, Inc. a corporation, and that by authority duly given and as the act of such entity, he signed the foregoing instrument in its name on its behalf as its act and deed. Witness my hand and Notarial stamp or seal, this 25TH day of MARCH, 2008.

My Commission Expires: OCT 13, 2009

Mary Ellen Krause
Notary Public

(affix stamp or seal)

Printed or Typed Name of Notary Public:
MARY ELLEN KRAUSE

NC Bar Association Form No. 7 © 1977, 2002
Printed by Agreement with the NC Bar Association – 1981 – Chicago Title Insurance Company

2

EXHIBIT A

DESCRIPTION OF PROPERTY:

BEGINNING at a point located in the western margin of the 60 foot right of way of Cedar Springs Road (NCSR 1560), said point having N.C. State Plane Coordinates 1983 Datum of North: 688914.24 feet and East: 1544397.24 feet, and said point being the following nine courses and distances from NCGS 1983 Monument "ABEX" (with coordinates of North: 689255.04 and East:1549321.02): (1) South 56-59-12 W 4726.95 feet to an existing control monument, (2) N 25-21-42 W 1868.24 feet to an existing control monument, (3) along a curve to the right, the radius of which is 1635.48 feet (and the chord of which is N 23-48-25 W 118.18 feet), an arc distance of 118.20 feet to an existing iron rod, corner of City of Salisbury (now or formerly, Book 801, page 119), (4) S 66-35-27 W 50.00 feet to an existing iron rod, (5) N 20-51-42 W 49.50 feet to an existing iron rod, (6) N 66-01-07 East 50.03 feet to an existing iron rod in the western right of way margin of Cedar Springs Road (NCSR 1560), (7) along a curve to the right, the radius of which is 1635.48 feet (and the chord of which is N 18-11-14 W 102.60 feet), an arc distance of 102.61 feet to a new iron rod, (8) along a curve to the right, the radius of which is 1635.48 feet (and the chord of which is N 14-18-13 W 119.08 feet), an arc distance of 119.10 feet to an existing control monument, and (9) along a curve to the right, the radius of which is 4035.56 feet (and the chord of which is N 10-24-41 W 181.71 feet), an arc distance of 181.73 feet, and running thence from said point of beginning with said western right of way margin of Cedar Springs Road (NCSR 1560) three lines as follows: (1) along a curve to the left, the radius of which is 4035.56 feet (and the chord of which is S 10-24-41 E 181.71 feet), an arc distance of 181.73 feet to an existing control monument, (2) along a curve to the left, the radius of which is 1635.48 feet (and the chord of which is S 14-18-13 E 119.08 feet), an arc distance of 119.10 feet to a new iron pin set, (3) along a curve to the left, the radius of which is 1635.48 feet (and the chord of which is S 18-11-14 East 102.60 feet), an arc distance of 102.61 feet to an existing iron rod, corner of City of Salisbury (now or formerly, Book 801, page 119); thence three lines with the City of Salisbury (now or formerly) as follows: (1) S 66-01-07 W 50.03 feet to an existing iron rod, (2) S 20-51-42 E 49.50 feet to an existing iron rod, and (3) N 66-35-27 East 50.00 feet to an existing iron rod in the western right of way margin of Cedar Springs Road (NCSR 1560); thence with said western right of way margin of Cedar Springs Road (NCSR 1560) two lines as follows: (1) along a curve to the left, the radius of which is 1635.48 feet (and the chord of which is S 23-48-25 E 118.18 feet), an arc distance of 118.20 feet to an existing control monument, and (2) S 25-21-42 E 1868.24 feet to an existing control monument, corner of Southmark Industrial Park (Book of Maps 9995, Page 2071); thence three lines with Southmark Industrial Park as follows: (1) S 89-48-27 W 2009.82 feet to an existing control monument, (2) N 81-10-29 W 570.76 feet to an existing control monument, and (3) S 06-22-44 W 1078.17 feet to an existing iron rod, corner of Elmer M. and Frances A. Goodman (now or formerly, Deed Book 566, page 4); thence with Elmer M. and Frances A. Goodman (now or formerly) seven lines as follows: (1) N 64-58-57 W 421.42 feet to an existing iron rod, (2) N 53-05-10 W 325.80 feet to an existing iron rod, (3) N 14-25-49 W 323.86 feet to an existing iron rod, (4) N 61-35-27 W 245.61 feet to an existing iron rod, (5) N 47-37-03 W 211.31 feet to an existing iron rod, (6) N 06-22-49 W 255.34 feet to an existing iron rod, and (7) N 84-01-11 W 1502.47 feet to an existing iron pipe, a corner of Little Acres Subdivision; thence N 59-35-19 W 1295.36 feet to an existing iron pipe on the east bank of Grants Creek; thence N 59-35-19 W 25.46 feet to a point in the centerline of Grants Creek, corner of Mary C. Harrison (now or formerly, Deed Book 584, page 982); thence two lines with Mary C. Harrison (now or formerly) and the centerline of Grants Creek as follows: (1) N 39-06-17 E 126.98 feet to a point, and (2) N 22-40-17 E 165.08 feet to a point; thence with the line of Mary C. Harrison (now or formerly) and then the line of E.M. Goodman, Jr. and Jacob F. Almond (now or formerly, Deed Book 628, page 86) and the centerline of Grants Creek, four lines as follows: (1) N 13-17-17 E 1363.91 feet to a point, (2) N 09-26-17 E 635.11

3

feet to a point, (3) N 13-29-17 E 966.29 feet to a point, and (4) N 25-18-48 E 617.41 feet to a point at the intersection of Grants Creek and the southern margin of the 60 foot right of way of Airport Road (NCSR 1516); thence with said right of way margin of Airport Road (NCSR 1516) S 77-56-02 E 1270.47 feet to an existing iron pipe, a corner of Kings Forest Subdivision; thence with Kings Forest Subdivision sixteen lines as follows: (1) S 13-20-50 W 234.67 feet to an existing control monument, (2) N 79-38-43 W 73.48 feet to an existing iron pipe, (3) S 19-29-07 W 238.75 feet to an existing iron pipe, (4) S 27-57-38 W 170.04 feet to an existing iron pipe, (5) N 62-03-37 W 26.95 feet to an existing concrete monument, (6) S 23-17-32 W 60.08 feet to an existing iron pipe, (7) S 23-19-11 W 195.38 feet to an existing iron pipe, (8) S 68-54-29 E 275.72 feet to an existing iron pipe, (9) S 68-53-41 E 224.50 feet to an existing control monument, (10) N 21-08-52 E 53.86 feet to an existing control monument, (11) S 69-10-36 E 135.42 feet to an existing iron pipe, (12) S 67-08-25 E 510.35 feet to an existing iron pipe, (13) S 73-57-21 E 347.65 feet to an existing iron pipe, (14) S 67-33-23 E 177.86 feet to an existing iron pipe, (15) S 83-38-30 E 238.08 feet to an existing iron rod, and (16) N 00-57-42 E 1033.96 feet to an existing control monument located in the southern margin of the 60' right of way of Airport Road (NCSR 1516); thence with said right of way margin four lines as follows: (1) along a curve to the left, the radius of which is 3661.00 feet (and the chord of which is S 87-48-45 E 370.98 feet), an arc distance of 371.14 feet to an existing iron pipe, (2) N 86-54-22 E 298.86 feet to an existing iron rod, (3) N 84-16-21 E 756.56 feet to an existing control monument, and (4) N 85-49-52 E 368.49 feet to an existing iron rod at the intersection of the Southern margin of the 60' right of way of Airport Road (NCSR 1516) with the Western margin of the 60' right of way of Cedar Springs Road (NCSR 1560); thence with said margin of Cedar Springs Road (NCSR 1560) seven lines as follows: (1) S 09-48-00 W 445.77 feet to an existing control monument, (2) along a curve to the left, the radius of which is 2204.48 feet (and the chord of which is S 03-20-42 W 537.29 feet), an arc distance of 538.62 feet to an existing control monument, (3) S 03-54-08 E 486.21 feet to an existing control monument, (4) along a curve to the left, the radius of which is 9347.31 feet (and the chord of which is S 05-11-57 E 343.93 feet), an arc distance of 343.95 feet to an existing control monument, and (5) along a curve to the left, the radius of which is 4035.56 feet (and the chord of which is S 07-44-11 E 195.09 feet), an arc distance of 195.11 feet to the BEGINNING, containing 482.256 acres according to a survey by Donald J. Moore, Professional Land Surveyor, L-3482 NC, dated May 23, 1997 and revised June 9, 1997, further revised March 15, 2008 and March 28, 2008.

The northwestern portion of the above-described property adjoins the residential subdivision of Kings Forest and, though undeveloped, is subject to restrictions and the reservation of a 10 foot drainage and/or utility easement and a 30 foot sewer, drainage and utility easement as set forth in deed recorded in Deed Book 584 at page 982 in the Rowan County Registry, said area being more particularly described on the map attached to said deed and being shown in part on the above-referenced plat of survey by Donald J. Moore within Tract 05.

A portion of the above-described property is subject to reservations and restrictions as set forth in deed recorded in Book 671 at page 108 in the Rowan County Registry, said subject area being shown as Tract 06 on the above-referenced plat of survey by Donald J. Moore.

This conveyance is subject to the terms and provisions of that certain United States Environmental Protection Agency Unilateral Administrative Order recorded in Book 760 at page 255 in the Rowan County Registry and the terms and provisions of that certain Post Closure Notification to Registrar of Deeds recorded in Book 767 at page 420 in the Rowan County Registry and the matters reflected on that certain map recorded in Extra Map Book 9998 at page 179 in the Rowan County Registry.

4

This conveyance is further subject to any and all other easements, rights of way, reservations and restrictions of record, and it is further understood and agreed that the Grantee herein is acquiring every right and interest of the Grantor in the subject property, except as expressly set forth herein, and that Grantee shall have the benefit, and the responsibility and obligation, if any, of any agreement made by Grantor which relates to the property, whether or not such agreement is recorded or unrecorded.

Excepted from the above described 482.256 acre tract is the following 17.021 acre tract:

BEGINNING at a point located in the western margin of the 60 foot right of way of Cedar Springs Road (NCSR 1560), said point having N.C. State Plane Coordinates 1983 Datum of North: 688914.24 feet and East: 1544397.24 feet, and said point being the following nine courses and distances from NCGS 1983 Monument "ABEX" (with coordinates of North: 689255.04 and East:1549321.02): (1) South 56-59-12 W 4726.95 feet to an existing control monument, (2) N 25-21-42 W 1868.24 feet to an existing control monument, (3) along a curve to the right, the radius of which is 1635.48 feet (and the chord of which is N 23-48-25 W 118.18 feet), an arc distance of 118.20 feet to an existing iron rod, corner of City of Salisbury (now or formerly, Book 801, page 119), (4) S 66-35-27 W 50.00 feet to an existing iron rod, (5) N 20-51-42 W 49.50 feet to an existing iron rod, (6) N 66-01-07 East 50.03 feet to an existing iron rod in the western right of way margin of Cedar Springs Road (NCSR 1560), (7) along a curve to the right, the radius of which is 1635.48 feet (and the chord of which is N 18-11-14 W 102.60 feet), an arc distance of 102.61 feet to a new iron rod, (8) along a curve to the right, the radius of which is 1635.48 feet (and the chord of which is N 14-18-13 W 119.08 feet), an arc distance of 119.10 feet to an existing control monument, and (9) along a curve to the right, the radius of which is 4035.56 feet (and the chord of which is N 10-24-41 W 181.71 feet), an arc distance of 181.73 feet, and running thence from said point of beginning with said western right of way margin of Cedar Springs Road (NCSR 1560) two lines as follows: (1) along a curve to the left, the radius of which is 4035.56 feet (and the chord of which is S 10-24-41 E 181.71 feet), an arc distance of 181.73 feet to an existing concrete monument, and (2) along a curve to the left, the radius of which is 1634.48 feet (and the chord of which is S 14-18-13 E 119.08 feet), an arc distance of 119.10 feet to a new iron pin set, a new corner; thence 23 new common lines of Grantor and Grantee herein as follows: (1) S 64-35-39 W 845.28 feet to a new iron rod set, (2) S 24-47-11 E (passing a new iron rod set at 116.63 feet) a total distance of 408.24 feet to a nail set, (3) N 64-23-00 E 118.62 feet to a nail set on the block building corner, (4) S 25-24-45 E 162.15 feet to a nail set, (5) S 64-27-39 W 53.59 feet to a nail set on the block building corner, (6) S 25-35-14 E 69.98 feet to a new iron rod set, (7) S 64-39-21 W 66.54 feet to a nail set, (8) N 25-08-51 W 101.18 feet to a nail set on the building line, (9) S 64-54-08 W 88.84 feet to a new iron rod set, (10) N 25-51-37 W 145.25 feet to a new iron rod set, (11) S 64-49-55 W 132.07 feet to a nail set, (12) S 25-47-08 E 14.64 feet to a nail set, (13) S 62-16-01 W 14.41 feet to a nail set; (14) N 25-13-48 W 15.28 feet to a nail set, (15) S 64-51-08 W 36.14 feet to a nail set, (16) S 26-09-39 E 33.23 feet to a nail set, (17) S 64-51-54 W 390.99 feet to a new iron rod set, (18) N 20-18-37 W 360.45 feet to a new iron rod set, (19) N 20-18-37 W 358.44 feet to a new iron rod set, (20) N 64-31-40 E 1255.35 feet to a new iron rod set, (21) N 64-35-43 E 153.49 feet to a new iron rod set, (22) N 65-31-55 E 88.80 feet to a new iron rod set, and (23) N 64-35-39 E 21.99 feet to the BEGINNING, containing 17.021 Acres according to a survey by Donald J. Moore, Professional Land Surveyor, L-3482 NC, dated March 15, 2008 (file number 0024RW08).

Grantor herein further excepts and reserves for itself and its successors and assigns the right of ingress, egress and regress over, across and through that certain existing drive extending in a western direction from Cedar Springs Road (NCSR 1560) to the existing parking area, said drive

5

and parking area being shown on the above referenced survey by Donald J. Moore, Professional Land Surveyor, L-3482 NC, dated May 23, 1997 and revised June 9, 1997, and further revised March 15, 2008. Grantor further reserves for itself and its successors and assigns the right to reasonable use of said parking area, along with Grantee herein, and the right of pedestrian access over, across and through the parking area and any and all walkways and drives extending from the parking area to the buildings and other improvements situated on said excepted and retained tract.

Grantor further reserves for itself and its successors and assigns the right to grant such utility and other easements over, across and through portions of the principal tract conveyed herein to Grantee as may now, or in the future, be necessary or appropriate to comply with any requirements of the Code of Ordinances of the City of Salisbury to provide separate utilities in connection with the subdivision effected by the within deed.

This division of land into parcels greater than 10 acres where no street right-of-way dedication is involved constitutes an exception to the subdivision ordinance of the City of Salisbury in accordance with Appendix A, Article II, Section 2.01, 2.(b) of the Code of Ordinances of the City of Salisbury and in accordance with §160A-376(a)(2) of the General Statutes of the State of North Carolina.

6

Rowan County Assessor's Office

Multiple Parcel Identification

Tract/Lot	Parcel ID	MAP	S/M	PAR	S/P	U/IN	L/IN	C/C	PART	INT
		471		058						3
		471		025					P	3
		471		001						3
		472		013						3
		468		113						3
		472		153						3

7

APPENDIX C

Mann-Kendall Statistical Evaluation

Mann-Kendall Test for Trend

Trends for concentrations of constituents of concern were analyzed using the Mann-Kendall test for trend. The Mann-Kendall test for trend is a non-parametric test that can account for missing values and does not require data to fit a particular distribution (Gilbert, 1987). The significance of a trend was tested based on the following hypotheses:

- There is no significant trend (null hypothesis)
- There is a significant upward trend
- There is a significant downward trend

Based on the number of samples and probability of certain characteristics of a trend, the null hypothesis of no significant trend is either accepted or rejected. It the probability of no trend is less than 5 percent (p-value less than 0.05), the null hypothesis is rejected and either a significant upward trend or a significant downward trend is accepted based on the sign of the trend analysis statistic. Trend analyses were performed using the ProUCL version 4.1 statistical software package (US EPA, 2011). Because ProUCL 4.1 does not handle non-detects statistically in Mann-Kendall trend analyses, as it does with other tests, non-detects were treated as they were in the 2007 NSCC 5-year Report.

Mann-Kendall requires at least 4 data points. Constituents were not analyzed if the frequency of detection was such that there were fewer than 4 actual detects to use as data points for M-K. Wells with fewer than four detections were not analyzed because there were too few data points to reject the null hypothesis. Where there were non-detects in addition to the minimum of 4 detects, they were treated as follows: If the detection limit was below the ROD Performance Standard, the value was not included in the M-K analysis. If it was above the performance standard, then the reporting limit was divided by two and included in the analysis

One-hundred seventeen (117) trend analyses were performed on 35 different wells. Results of the trend analyses indicate stable or decreasing trends for concentrations of constituents of concern with the exception of:

- Manganese in monitoring wells NS-13, NS-38, and NS-49
- Bis(2-Chloroethyl) ether in monitoring well NS-49
- 1,2-Dichloroethane, tetrachloroethene, and vinyl chloride in monitoring well NS-53

Appendix C
Mann-Kendall Statistic for Trend
OU1 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	EX-01			EX-02			EX-03			EX-04		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Benzene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Chloroform	ND	--	--	ND	--	--	ND	--	--	ND	--	--
cis-1,2-dichloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Ethylbenzene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Methylene chloride	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Tetrachloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Trichloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Toluene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Vinyl Chloride	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Xylenes (total)	ND	--	--	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloroethane	ND	--	--	ND	--	--	ND	--	--	ND	--	--
1,1-Dichloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloropropane	ND	--	--	ND	--	--	ND	--	--	ND	--	--
SVOCs												
bis(2-chloroethyl) ether	**NST**	4	0.529	**NST**	-4	0.637	**NST**	6	0.555	ND	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Barium	ND	--	--	**NST**	-6	0.183	ND	--	--	ND	--	--
Beryllium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Cadmium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Chromium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Manganese	ND	--	--	**Down Trend**	-8	0.365	**NST**	0	0.122	ND	--	--
Nickel	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Selenium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Zinc	ND	--	--	ND	--	--	ND	--	--	ND	--	--

Notes:
MK Stat - Mann-Kendall Statistic
ND - Compound not detected above Performance Standard in past 4 years.
NST - No Significant Trend
ID - Insufficient Data to perform Mann-Kendall trend analysis (Minimum of 4 data points are necessary)
Down Trend - Significant Downward Trend
Up Trend - Significant Upward Trend

Appendix C
Mann-Kendall Statistic for Trend
OU1 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	EX-05			EX-06			EX-07			EX-08		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	Down Trend	-17	0.404	ID	--	--	ND	--	--	ND	--	--
Benzene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Chloroform	ND	--	--	ID	--	--	ND	--	--	ND	--	--
cis-1,2-dichloroethene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Ethylbenzene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Methylene chloride	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Tetrachloroethene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Trichloroethene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Toluene	NST	0	0.46	ID	--	--	ND	--	--	NST	-3	0.828
Vinyl Chloride	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Xylenes (total)	ND	--	--	ID	--	--	ND	--	--	ND	--	--
1,2-Dichloroethane	NST	-10	0.484	ID	--	--	ND	--	--	NST	-1	1.044
1,1-Dichloroethene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
1,2-Dichloropropane	ND	--	--	ID	--	--	ND	--	--	ND	--	--
SVOCs												
bis(2-chloroethyl) ether	ND	--	--	ID	--	--	ND	--	--	ND	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Barium	ND	--	--	ID	--	--	NST	-2	1.038	ND	--	--
Beryllium	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Cadmium	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Chromium	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Manganese	NST	3	0.706	ID	--	--	NST	-2	0.57	NST	-2	0.879
Nickel	NST	-11	0.339	ID	--	--	ND	--	--	ND	--	--
Selenium	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Zinc	ND	--	--	ID	--	--	ND	--	--	ND	--	--

Notes:
MK Stat - Mann-Kendall Statistic
ND - Compound not detected above Performance Standard in past 4 years.
NST - No Significant Trend
ID - Insufficient Data to perform Mann-Kendall trend analysis (Minimum of 4 data points are necessary)
Down Trend - Significant Downward Trend
Up Trend - Significant Upward Trend

Appendix C
Mann-Kendall Statistic for Trend
OU1 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	EX-09			EX-10			EX-11			NS-07		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	**Down Trend**	-16	0.752	ND	--	--	ID	--	--	ID	--	--
Benzene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Chloroform	ND	--	--	ND	--	--	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Ethylbenzene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Methylene chloride	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Tetrachloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Trichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Toluene	**Down Trend**	-23	0.59	ND	--	--	ID	--	--	ID	--	--
Vinyl Chloride	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Xylenes (total)	**NST**	-8	0.511	**NST**	-3	0.481	ID	--	--	ID	--	--
1,2-Dichloroethane	**Down Trend**	-18	0.654	**NST**	-3	1.016	ID	--	--	ID	--	--
1,1-Dichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
1,2-Dichloropropane	**NST**	-10	1.003	**NST**	-1	0.832	ID	--	--	ID	--	--
SVOCs												
bis(2-chloroethyl) ether	ND	--	--	**NST**	-4	0.706	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Barium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Beryllium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Cadmium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Chromium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Manganese	**Down Trend**	-13	0.435	**Down Trend**	-8	0.219	ID	--	--	ID	--	--
Nickel	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Selenium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Zinc	ND	--	--	ND	--	--	ID	--	--	ID	--	--

Notes:
MK Stat - Mann-Kendall Statistic
ND - Compound not detected above Performance Standard in past 4 years.
NST - No Significant Trend
ID - Insufficient Data to perform Mann-Kendall trend analysis (Minimum of 4 data points are necessary)
Down Trend - Significant Downward Trend
Up Trend - Significant Upward Trend

Appendix C
Mann-Kendall Statistic for Trend
OU1 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-09			NS-10			NS-11			NS-15		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Benzene	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Chloroform	ND	--	--	ND	--	--	ID	--	--	ND	--	--
cis-1,2-dichloroethene	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Ethylbenzene	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Methylene chloride	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Tetrachloroethene	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Trichloroethene	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Toluene	**NST**	4	0.923	ND	--	--	ID	--	--	ND	--	--
Vinyl Chloride	**NST**	0	0.764	ND	--	--	ID	--	--	ND	--	--
Xylenes (total)	**NST**	1	0.755	ND	--	--	ID	--	--	ND	--	--
1,2-Dichloroethane	ND	--	--	ND	--	--	ID	--	--	ND	--	--
1,1-Dichloroethene	ND	--	--	ND	--	--	ID	--	--	ND	--	--
1,2-Dichloropropane	ND	--	--	ND	--	--	ID	--	--	ND	--	--
SVOCs												
bis(2-chloroethyl) ether	ND	--	--	ND	--	--	ID	--	--	ND	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Barium	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Beryllium	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Cadmium	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Chromium	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Manganese	**NST**	0	0.488	ND	--	--	ID	--	--	ND	--	--
Nickel	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Selenium	ND	--	--	ND	--	--	ID	--	--	ND	--	--
Zinc	ND	--	--	ND	--	--	ID	--	--	ND	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU1 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-17			NS-21			NS-22			NS-26		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Benzene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Chloroform	ID	--	--	ID	--	--	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Ethylbenzene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Methylene chloride	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Tetrachloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Trichloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Toluene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Vinyl Chloride	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Xylenes (total)	ID	--	--	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloroethane	ID	--	--	ID	--	--	ID	--	--	ID	--	--
1,1-Dichloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloropropane	ID	--	--	ID	--	--	ID	--	--	ID	--	--
SVOCs												
bis(2-chloroethyl) ether	ID	--	--	ID	--	--	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Barium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Beryllium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Cadmium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Chromium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Manganese	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Nickel	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Selenium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Zinc	ID	--	--	ID	--	--	ID	--	--	ID	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU1 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-27			NS-29			NS-30			NS-31		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ID	--	--	ND	--	--	ND	--	--	**Down Trend**	-8	0.65
Benzene	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Chloroform	ID	--	--	ND	--	--	ND	--	--	ND	--	--
cis-1,2-dichloroethene	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Ethylbenzene	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Methylene chloride	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Tetrachloroethene	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Trichloroethene	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Toluene	ID	--	--	**NST**	-7	0.428	ND	--	--	ND	--	--
Vinyl Chloride	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Xylenes (total)	ID	--	--	**NST**	-5	0.557	ND	--	--	ND	--	--
1,2-Dichloroethane	ID	--	--	ND	--	--	ND	--	--	**NST**	-4	0.0367
1,1-Dichloroethene	ID	--	--	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloropropane	ID	--	--	ND	--	--	ND	--	--	**NST**	1	0.0894
SVOCs												
bis(2-chloroethyl) ether	ID	--	--	**Down Trend**	-10	2.058	ND	--	--	**NST**	2	0.53
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ID	--	--	**NST**	-6	0.493	ND	--	--	ND	--	--
Barium	ID	--	--	**Down Trend**	-10	0.619	ND	--	--	ND	--	--
Beryllium	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Cadmium	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Chromium	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Manganese	ID	--	--	**Down Trend**	-10	0.642	ND	--	--	ND	--	--
Nickel	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Selenium	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Zinc	ID	--	--	ND	--	--	ND	--	--	ND	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU1 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-31A			NS-31B			NS-32			NS-33		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Benzene	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Chloroform	ID	--	--	ID	--	--	ND	--	--	ND	--	--
cis-1,2-dichloroethene	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Ethylbenzene	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Methylene chloride	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Tetrachloroethene	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Trichloroethene	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Toluene	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Vinyl Chloride	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Xylenes (total)	ID	--	--	ID	--	--	ND	--	--	ND	--	--
1,2-Dichloroethane	ID	--	--	ID	--	--	ND	--	--	ND	--	--
1,1-Dichloroethene	ID	--	--	ID	--	--	ND	--	--	ND	--	--
1,2-Dichloropropane	ID	--	--	ID	--	--	ND	--	--	ND	--	--
SVOCs												
bis(2-chloroethyl) ether	ID	--	--	ID	--	--	ND	--	--	ND	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Barium	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Beryllium	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Cadmium	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Chromium	ID	--	--	ID	--	--	ND	--	--	**NST**	-4	1.493
Manganese	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Nickel	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Selenium	ID	--	--	ID	--	--	ND	--	--	ND	--	--
Zinc	ID	--	--	ID	--	--	ND	--	--	ND	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU1 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-55			NS-57			NS-58			NS-58A		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	**NST**	-4	0.425	ID	--	--	ID	--	--
Benzene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Chloroform	ND	--	--	ND	--	--	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Ethylbenzene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Methylene chloride	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Tetrachloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Trichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Toluene	ND	--	--	**NST**	-5	0.343	ID	--	--	ID	--	--
Vinyl Chloride	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Xylenes (total)	ND	--	--	**NST**	-5	0.907	ID	--	--	ID	--	--
1,2-Dichloroethane	ND	--	--	ND	--	--	ID	--	--	ID	--	--
1,1-Dichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
1,2-Dichloropropane	ND	--	--	ND	--	--	ID	--	--	ID	--	--
SVOCs												
bis(2-chloroethyl) ether	**NST**	-6	0.605	**NST**	3	0.429	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	**NST**	-2	1.219	ID	--	--	ID	--	--
Barium	**NST**	-6	0.258	ND	--	--	ID	--	--	ID	--	--
Beryllium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Cadmium	ND	--	--	**NST**	0	0.94	ID	--	--	ID	--	--
Chromium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Manganese	**NST**	-6	0.297	**NST**	-6	0.403	ID	--	--	ID	--	--
Nickel	ND	--	--	**NST**	-6	0.863	ID	--	--	ID	--	--
Selenium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Zinc	ND	--	--	ND	--	--	ID	--	--	ID	--	--

Notes:
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Appendix C
Mann-Kendall Statistic for Trend
OU1 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-58B			P-02		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs						
Acetone	ID	--	--	ID	--	--
Benzene	ID	--	--	ID	--	--
Chloroform	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ID	--	--	ID	--	--
Ethylbenzene	ID	--	--	ID	--	--
Methylene chloride	ID	--	--	ID	--	--
Tetrachloroethene	ID	--	--	ID	--	--
Trichloroethene	ID	--	--	ID	--	--
Toluene	ID	--	--	ID	--	--
Vinyl Chloride	ID	--	--	ID	--	--
Xylenes (total)	ID	--	--	ID	--	--
1,2-Dichloroethane	ID	--	--	ID	--	--
1,1-Dichloroethene	ID	--	--	ID	--	--
1,2-Dichloropropane	ID	--	--	ID	--	--
SVOCs						
bis(2-chloroethyl) ether	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--
Metals						
Arsenic	ID	--	--	ID	--	--
Barium	ID	--	--	ID	--	--
Beryllium	ID	--	--	ID	--	--
Cadmium	ID	--	--	ID	--	--
Chromium	ID	--	--	ID	--	--
Manganese	ID	--	--	ID	--	--
Nickel	ID	--	--	ID	--	--
Selenium	ID	--	--	ID	--	--
Zinc	ID	--	--	ID	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	CT-1			NS-13			NS-14			NS-24		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Chloroform	ND	--	--	ND	--	--	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Ethylbenzene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Methylene chloride	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Tetrachloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Toluene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Trichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Vinyl Chloride	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Xylenes (total)	ND	--	--	ND	--	--	ID	--	--	ID	--	--
1,2-Dichloroethane	ND	--	--	ND	--	--	ID	--	--	ID	--	--
1,1-Dichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
1,2-Dichloropropane	ND	--	--	ND	--	--	ID	--	--	ID	--	--
SVOCs												
bis(2-chloroethyl) ether	ND	--	--	ND	--	--	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Metals												
Arsenic	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Barium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Chromium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Manganese	**NST**	-4	1.907	**Up Trend**	6	0.314	ID	--	--	ID	--	--
Nickel	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Selenium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Zinc	ND	--	--	ND	--	--	ID	--	--	ID	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-33			NS-34			NS-35			NS-36		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Chloroform	ND	--	--	ID	--	--	ND	--	--	ND	--	--
cis-1,2-dichloroethene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Ethylbenzene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Methylene chloride	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Tetrachloroethene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Toluene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Trichloroethene	ND	--	--	ID	--	--	**NST**	-5	1.296	ND	--	--
Vinyl Chloride	ND	--	--	ID	--	--	**NST**	-5	1.728	ND	--	--
Xylenes (total)	ND	--	--	ID	--	--	ND	--	--	ND	--	--
1,2-Dichloroethane	ND	--	--	ID	--	--	**NST**	-5	1.254	**NST**	-7	0.608
1,1-Dichloroethene	ND	--	--	ID	--	--	ND	--	--	ND	--	--
1,2-Dichloropropane	ND	--	--	ID	--	--	ND	--	--	ND	--	--
SVOCs												
bis(2-chloroethyl) ether	ND	--	--	ID	--	--	ND	--	--	ND	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Barium	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Chromium	**NST**	-4	1.493	ID	--	--	ND	--	--	ND	--	--
Manganese	ND	--	--	ID	--	--	**NST**	-3	0.15	**NST**	-1	0.215
Nickel	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Selenium	ND	--	--	ID	--	--	ND	--	--	ND	--	--
Zinc	ND	--	--	ID	--	--	ND	--	--	ND	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-37			NS-38			NS-39			NS-40		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Chloroform	ID	--	--	ND	--	--	ND	--	--	**NST**	1	0.877
cis-1,2-dichloroethene	ID	--	--	ND	--	--	**Down Trend**	-17	1.654	ND	--	--
Ethylbenzene	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Methylene chloride	ID	--	--	ND	--	--	**Down Trend**	-42	2.34	ND	--	--
Tetrachloroethene	ID	--	--	ND	--	--	**Down Trend**	-54	2.265	**NST**	-1	0.94
Toluene	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Trichloroethene	ID	--	--	ND	--	--	**Down Trend**	-42	2.082	**NST**	-10	0.276
Vinyl Chloride	ID	--	--	ND	--	--	**Down Trend**	-48	2.285	**NST**	-5	0.208
Xylenes (total)	ID	--	--	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloroethane	ID	--	--	ND	--	--	**Down Trend**	-50	2.141	**NST**	1	2.487
1,1-Dichloroethene	ID	--	--	ND	--	--	**Down Trend**	-52	2.24	ND	--	--
1,2-Dichloropropane	ID	--	--	ND	--	--	ND	--	--	ND	--	--
SVOCs												
bis(2-chloroethyl) ether	ID	--	--	ND	--	--	**NST**	-19	0.464	ND	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Barium	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Chromium	ID	--	--	**NST**	0	0.625	ND	--	--	ND	--	--
Manganese	ID	--	--	**Up Trend**	13	0.0641	**NST**	5	0.133	**NST**	-3	0.0817
Nickel	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Selenium	ID	--	--	ND	--	--	ND	--	--	ND	--	--
Zinc	ID	--	--	ND	--	--	ND	--	--	ND	--	--

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Up Trend - Significant Upward Trend

Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-41			NS-42			NS-43			NS-44		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Chloroform	ND	--	--	ND	--	--	ND	--	--	ND	--	--
cis-1,2-dichloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Ethylbenzene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Methylene chloride	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Tetrachloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Toluene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Trichloroethene	**NST**	3	0.608	**Down Trend**	-28	0.477	ND	--	--	ND	--	--
Vinyl Chloride	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Xylenes (total)	ND	--	--	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloroethane	ND	--	--	ND	--	--	ND	--	--	ND	--	--
1,1-Dichloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloropropane	ND	--	--	ND	--	--	ND	--	--	ND	--	--
SVOCs												
bis(2-chloroethyl) ether	ND	--	--	ND	--	--	ND	--	--	ND	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Barium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Chromium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Manganese	**NST**	3	0.45	**NST**	-8	0.0786	ND	--	--	ND	--	--
Nickel	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Selenium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Zinc	ND	--	--	ND	--	--	ND	--	--	ND	--	--

Notes:
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Up Trend - Significant Upward Trend

Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-45			NS-46			NS-47			NS-48		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Chloroform	ND	--	--	ND	--	--	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Ethylbenzene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Methylene chloride	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Tetrachloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Toluene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Trichloroethene	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Vinyl Chloride	ND	--	--	**Down Trend**	-10	0.463	ID	--	--	ID	--	--
Xylenes (total)	ND	--	--	ND	--	--	ID	--	--	ID	--	--
1,2-Dichloroethane	**NST**	0	0.348	**NST**	1	1.32	ID	--	--	ID	--	--
1,1-Dichloroethene	ND	--	--	**NST**	-9	0.547	ID	--	--	ID	--	--
1,2-Dichloropropane	ND	--	--	ND	--	--	ID	--	--	ID	--	--
SVOCs												
bis(2-chloroethyl) ether	ND	--	--	ND	--	--	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Metals												
Arsenic	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Barium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Chromium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Manganese	**NST**	-6	0.491	**Down Trend**	-8	0.563	ID	--	--	ID	--	--
Nickel	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Selenium	ND	--	--	ND	--	--	ID	--	--	ID	--	--
Zinc	ND	--	--	ND	--	--	ID	--	--	ID	--	--

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Up Trend - Significant Upward Trend

Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-49			NS-50			NS-51			NS-52		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Chloroform	ND	--	--	ND	--	--	ND	--	--	ND	--	--
cis-1,2-dichloroethene	**NST**	-10	1.799	**NST**	8	0.309	ND	--	--	ND	--	--
Ethylbenzene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Methylene chloride	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Tetrachloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Toluene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Trichloroethene	**Down Trend**	-27	1.337	**NST**	-9	0.286	**NST**	0	0.384	ND	--	--
Vinyl Chloride	**NST**	-20	1.458	**NST**	-8	0.301	ND	--	--	ND	--	--
Xylenes (total)	ND	--	--	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloroethane	**NST**	-3	1.759	**NST**	-1	2.184	**NST**	-5	1.952	ND	--	--
1,1-Dichloroethene	**Down Trend**	-24	1.827	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloropropane	ND	--	--	ND	--	--	ND	--	--	ND	--	--
SVOCs												
bis(2-chloroethyl) ether	**Up Trend**	25	0.484	**NST**	0	0.188	ND	--	--	ND	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Barium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Chromium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Manganese	**Up Trend**	24	0.214	**NST**	-6	0.171	**NST**	-4	0.414	**NST**	-4	1.215
Nickel	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Selenium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Zinc	ND	--	--	ND	--	--	ND	--	--	ND	--	--

Notes:
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Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-53			NS-54			NS-59			NS-60		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Chloroform	**Down Trend**	-8	0.875	ND	--	--	ND	--	--	ND	--	--
cis-1,2-dichloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Ethylbenzene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Methylene chloride	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Tetrachloroethene	**Up Trend**	8	1.267	ND	--	--	ND	--	--	ND	--	--
Toluene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Trichloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Vinyl Chloride	**Up Trend**	9	0.869	ND	--	--	**NST**	-4	1.1	ND	--	--
Xylenes (total)	ND	--	--	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloroethane	**Up Trend**	8	2.109	**NST**	-12	2.769	**NST**	-4	1.589	**NST**	-4	1.738
1,1-Dichloroethene	ND	--	--	ND	--	--	ND	--	--	ND	--	--
1,2-Dichloropropane	ND	--	--	ND	--	--	ND	--	--	ND	--	--
SVOCs												
bis(2-chloroethyl) ether	ND	--	--	ND	--	--	ND	--	--	ND	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Barium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Chromium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Manganese	**NST**	6	1.658	**NST**	-7	0.393	**NST**	0	0.281	ND	--	--
Nickel	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Selenium	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Zinc	ND	--	--	ND	--	--	ND	--	--	ND	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-61			NS-62			NS-63			NS-64		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Chloroform	ND	--	--	ID	--	--	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Ethylbenzene	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Methylene chloride	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Tetrachloroethene	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Toluene	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Trichloroethene	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Vinyl Chloride	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Xylenes (total)	ND	--	--	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloroethane	**Down Trend**	-4	1.685	ID	--	--	ID	--	--	ID	--	--
1,1-Dichloroethene	ND	--	--	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloropropane	ND	--	--	ID	--	--	ID	--	--	ID	--	--
SVOCs												
bis(2-chloroethyl) ether	ND	--	--	ID	--	--	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Barium	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Chromium	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Manganese	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Nickel	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Selenium	ND	--	--	ID	--	--	ID	--	--	ID	--	--
Zinc	ND	--	--	ID	--	--	ID	--	--	ID	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-65			NS-66			NS-67			NS-68		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Chloroform	ID	--	--	ID	--	--	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Ethylbenzene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Methylene chloride	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Tetrachloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Toluene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Trichloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Vinyl Chloride	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Xylenes (total)	ID	--	--	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloroethane	ID	--	--	ID	--	--	ID	--	--	ID	--	--
1,1-Dichloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloropropane	ID	--	--	ID	--	--	ID	--	--	ID	--	--
SVOCs												
bis(2-chloroethyl) ether	ID	--	--	ID	--	--	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Barium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Chromium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Manganese	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Nickel	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Selenium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Zinc	ID	--	--	ID	--	--	ID	--	--	ID	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	NS-69			NS-70			NS-71			OWB-1		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs												
Acetone	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Chloroform	ID	--	--	ID	--	--	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Ethylbenzene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Methylene chloride	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Tetrachloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Toluene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Trichloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Vinyl Chloride	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Xylenes (total)	ID	--	--	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloroethane	ID	--	--	ID	--	--	ID	--	--	ID	--	--
1,1-Dichloroethene	ID	--	--	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloropropane	ID	--	--	ID	--	--	ID	--	--	ID	--	--
SVOCs												
bis(2-chloroethyl) ether	ID	--	--	ID	--	--	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--	ND	--	--
Metals												
Arsenic	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Barium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Chromium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Manganese	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Nickel	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Selenium	ID	--	--	ID	--	--	ID	--	--	ID	--	--
Zinc	ID	--	--	ID	--	--	ID	--	--	ID	--	--

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Appendix C
Mann-Kendall Statistic for Trend
OU3 Groundwater
NSCC Superfund Site - Salisbury, North Carolina

Well Name	OWS-1			IWS-1			IWB-1		
	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation	Trend	MK Stat	Coefficient Variation
VOCs									
Acetone	ID	--	--	ID	--	--	ID	--	--
Chloroform	ID	--	--	ID	--	--	ID	--	--
cis-1,2-dichloroethene	ID	--	--	ID	--	--	ID	--	--
Ethylbenzene	ID	--	--	ID	--	--	ID	--	--
Methylene chloride	ID	--	--	ID	--	--	ID	--	--
Tetrachloroethene	ID	--	--	ID	--	--	ID	--	--
Toluene	ID	--	--	ID	--	--	ID	--	--
Trichloroethene	ID	--	--	ID	--	--	ID	--	--
Vinyl Chloride	ID	--	--	ID	--	--	ID	--	--
Xylenes (total)	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloroethane	ID	--	--	ID	--	--	ID	--	--
1,1-Dichloroethene	ID	--	--	ID	--	--	ID	--	--
1,2-Dichloropropane	ID	--	--	ID	--	--	ID	--	--
SVOCs									
bis(2-chloroethyl) ether	ID	--	--	ID	--	--	ID	--	--
bis(2-ethylhexyl) phthalate	ND	--	--	ND	--	--	ND	--	--
Metals									
Arsenic	ID	--	--	ID	--	--	ID	--	--
Barium	ID	--	--	ID	--	--	ID	--	--
Chromium	ID	--	--	ID	--	--	ID	--	--
Manganese	ID	--	--	ID	--	--	ID	--	--
Nickel	ID	--	--	ID	--	--	ID	--	--
Selenium	ID	--	--	ID	--	--	ID	--	--
Zinc	ID	--	--	ID	--	--	ID	--	--

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APPENDIX D

Public Notice Published in the Salisbury Post
on Thursday, September 6, 2012

The U.S. Environmental Protection Agency, Region 4 Announces a Third Five-Year Review for the National Starch Chemical Corporation Site, Salisbury, Rowan County, North Carolina

The U.S. Environmental Protection Agency is conducting a third Five-Year Review of the remedy for the National Starch Chemical Corporation (NSCC) site located in Salisbury, Rowan County, North Carolina. This is an active manufacturing facility now owned and operated by AkzoNobel Surface Chemistry, LLC (AkzoNobel). The purpose of the Five-Year Review is to ensure that the selected cleanup actions effectively protect human health and the environment.

The Remedial Action for Operable Unit 1 (OU-1) focuses on the contaminated groundwater in the western portion of the NSCC property. This contamination came from the Trench Area. The contaminated groundwater is extracted via extraction wells, piped to a pretreatment system which includes an air stripper. This water is then sent to the plant's wastewater treatment system and then discharge to the local sewer system. Contaminants stripped from the water by the air stripper are destroyed through a catalytic oxidizer prior to being released to the atmosphere. Construction for OU-1 remedy began in August 1990 and was completed in March 1996.

The OU-3 remedy consisted of two extraction wells that addressed contaminated groundwater in the eastern portion of the facility. The extracted groundwater was mixed with the OU-1 groundwater for treatment. Construction of this system began in the fall of 1998 and was completed in February 2000. The system was shut down in 2008 as the levels of contamination in the groundwater being extracted were near the cleanup level. AkzoNobel began looking at different technologies such as in-situ treatment as a polishing step to reach the cleanup levels. As a part of this effort, additional groundwater wells were installed. Groundwater in one of these wells contained high levels of contamination. As a result, AkzoNobel is converting this monitoring well into an extraction well. Groundwater extraction from this new extraction well will begin in 2012. The polishing has been postponed.

The OU-4 focused on the soil contamination in the eastern portion of the facility. The OU-4 Natural Attenuation Treatability Study failed to verify that naturally occurring processes were destroying 1,2-dichloroethane (DCA) in the soil. Consequently, EPA directed AkzoNobel to implement the contingent remedy. The contingent remedy is soil vapor extraction (SVE) The SVE system includes 48 vapor extraction wells; a vapor extraction trench; 16 air injection wells; the necessary piping, electrical conduit; blower and vacuum components; and a catalytic oxidizer to treat the vapor before being discharged to the atmosphere. The construction of the SVE system was completed May 2010. As of May 2012, the SVE system has removed approximately 10,000 pounds of volatile organic compounds from the soil in the OU-4 area.

The Agency issued the Preliminary Closeout Report for the Site in September 2010. The Preliminary Closeout Report documents that construction activities on all Operable Units are complete.

The National Contingency Plan (NCP) requires remedial actions that result in any hazardous substances, pollutants or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure be reviewed every five years to ensure the protection of human health and the environment. The third Five-Year Review for the site will be completed by September 2012. A copy of the final report will be placed in the information repository located at the Rowan County Public Library, 201 W. Fischer Street in Salisbury, for the public to review.

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