FINAL

No Further Response Action Planned Decision Document

Former Underground Storage Tanks at Former Building 218 (TU014) and Former Underground Storage Tank at Former Building 374 (TU017) at
Gabreski Air National Guard Base
Westhampton Beach, New York

National Guard Bureau,
Logistics and Installations Directorate, Operations Division,
Restoration Branch
NGB/A4OR

Compliance Restoration Program
Project No. ANG2015NEWENGLAND

Contract No. W9133L-14-D-0008, DO 0005

February 2018

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Former Underground Storage Tanks at Former Building 218 (Site TU014) and Former Underground Storage Tank at Former Building 374 (SiteTU017)

Gabreski Air National Guard Base
Francis S. Gabreski Airport
Westhampton Beach, New York

Prepared For

National Guard Bureau,
Logistics and Installations Directorate, Operations Division,
Restoration Branch
NGB/A4OR

February 2018

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TABLE OF CONTENTS

DECLARATION....1
NAME OF INSTALLATION....1
SITE NAME AND LOCATION....1
STATEMENT OF BASIS AND PURPOSE....1
DESCRIPTION OF THE SELECTED REMEDY....1
DECLARATION STATEMENT....2
AUTHORIZING SIGNATURES....3
CONCURRENCE RECORD....5
1.0 INTRODUCTION....9
1.1 SITE NAME, LOCATION, AND DESCRIPTION....9
1.1.1 Site Description....9
1.1.2 Topography....9
1.1.3 Critical Environments....10
1.1.4 Adjacent Land Uses and Nearby Populations....10
1.1.5 General Surface Water and Groundwater Resources....10
1.2 SITE HISTORY AND ENFORCEMENT ACTIVITIES....10
1.2.1 Site History....10
1.2.2 Regulatory Agency Involvement....11
1.3 COMMUNITY PARTICIPATION....11
1.4 SCOPE OF RESPONSE ACTION....12
2.0 SUMMARY OF SITE CHARACTERISTICS....13
2.1 PHYSIOGRAPHY, GEOLOGIC SETTING, AND CLIMATOLOGY....13
2.2 SOIL CHARACTERISTICS....14
2.3 HYDROGEOLOGIC SETTING....14
2.4 SURFACE WATER SETTING....14
2.5 RECEPTORS....14
3.0 DATA ANALYSIS/RISK ASSESSMENT....15
3.1 SITE TU014 - FORMER USTS AT FORMER BUILDING 218....15
3.1.1 Soil....15
3.1.2 Groundwater....16
3.1.3 Summary....17
3.2 SITE TU017 - FORMER UST AT FORMER BUILDING 374....17
3.2.1 Soil....18
3.2.2 Groundwater....18
3.2.3 Summary....18
4.0 SELECTED ACTION: NO FURTHER RESPONSE ACTION PLANNED....19

TABLE OF CONTENTS (CONTINUED)

5.0 RESPONSIVENESS SUMMARY.....21
5.1 STAKEHOLDER COMMENTS AND LEAD AGENCY RESPONSES.....21
5.2 TECHNICAL AND LEGAL ISSUES.....21
6.0 REFERENCES.....23

ATTACHMENTS

ATTACHMENT A PUBLIC NOTICE

ATTACHMENT B NYSDEC REMEDIAL INVESTIGATION REPORT CONCURRENCE LETTER

FIGURES

Figure 1-1 Site Location Map

Figure 1-2 Site Layout Map - Site TU014, Former USTs at Former Building 218

Figure 1-3 Site Layout Map - Site TU017, Former UST at Former Building 374

Figure 3-1 Sample Location Map - Site TU014, Former USTs at Former Building 218

Figure 3-2 Sample Location Map - Site TU017, Former UST at Former Building 374

TABLES

Table 3-1 Soil Sample Analytical Results, Site Inspection Site TU014 - Former USTs at Former Building 218

Table 3-2 Soil Sample Analytical Results, Remedial Investigation Site TU014 - Former USTs at Former Building 218

Table 3-3 Groundwater Sample Analytical Results, Site Inspection Site TU014 - Former USTs at Former Building 218

Table 3-4 Groundwater Sample Analytical Results, Remedial Investigation Site TU014 - Former USTs at Former Building 218

Table 3-5 Soil Sample Analytical Results, Site Inspection Site TU017 - Former UST at Former Building 374

Table 3-6 Soil Sample Analytical Results, Remedial Investigation Site TU017 - Former UST at Former Building 374

Table 3-7 Groundwater Sample Analytical Results, Site Inspection Site TU017 - Former UST at Former Building 374

Table 3-8 Groundwater Sample Analytical Results, Remedial Investigation Site TU017 - Former UST at Former Building 374

LIST OF ACRONYMS

ºF	degrees Fahrenheit
%	percent
ADD	Airport Development District
AMSL	above mean sea level
ANG	Air National Guard
ANGB	Air National Guard Base
AR	Administrative Record
ARAR	Applicable or Relevant and Appropriate Requirement
bgs	below ground surface
BHHRA	baseline human health risk assessment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
COPC	chemical of potential concern
CP	Commissioner Policy
CRP	Compliance Restoration Program
DD	Decision Document
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
ft	foot or feet
IRP	Installation Restoration Program
MCL	Maximum Contaminant Level
mph	miles per hour
MW	monitoring well
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFA	No Further Action
NFRAP	No Further Response Action Planned
NGB	National Guard Bureau
NGB/A4OR	National Guard Bureau Logistics and Installations Directorate, Operations Division, Restoration Branch
NYANG	New York Air National Guard
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
PA	Preliminary Assessment
PAH	polycyclic aromatic hydrocarbon
PAL	project action limit
PEER	PEER Consultants, P.C.
RI	Remedial Investigation
RSL	Regional Screening Level
SARA	Superfund Amendments and Reauthorization Act
SCO	Soil Cleanup Objective
SI	Site Inspection
SSCO	Supplemental Soil Cleanup Objective

LIST OF ACRONYMS (CONTINUED)

SVOC	semivolatile organic compound
TEC-Weston JV	TEC-Weston Joint Venture
THQ	target hazard quotient
TR	target risk level
USEPA	United States Environmental Protection Agency
UST	underground storage tank
UU/UE	unlimited use and unrestricted exposure
VOC	volatile organic compound

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DECLARATION

NAME OF INSTALLATION

Facility Name: Gabreski Air National Guard Base

SITE NAME AND LOCATION

Site Location: Francis S. Gabreski Airport
Westhampton Beach, New York
CERCLIS ID Number: Not Applicable
NYSDEC Site ID: 152148
Operable Unit/Sites: Former Underground Storage Tanks (USTs) at Former Building 218 (Site TU014) and Former UST at Former Building 374 (Site TU017).

STATEMENT OF BASIS AND PURPOSE

This No Further Response Action Planned (NFRAP) Decision Document (DD) presents the basis for the no further response action decision for Sites TU014 and TU017, located at the Gabreski Air National Guard Base (ANGB), Francis S. Gabreski Airport, Westhampton Beach, New York. This document was developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, and to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). This decision is based on the Administrative Record (AR) for Sites TU014 and TU017.

This document is issued by the National Guard Bureau, Logistics and Installations Directorate, Operations Division, Restoration Branch (NGB/A4OR), as the lead agency. National Guard Bureau (NGB) is managing remediation of contamination at the following Sites in accordance with CERCLA, as required by the Defense Environmental Restoration Program (DERP):

- Site TU014 Former USTs in Former Building 218
- Site TU017 Former USTs in Former Building 374

As the lead agency, NGB/A4OR has selected NFRAP for the above-listed Sites. NGB coordinates environmental matters with the New York State Department of Environmental Conservation (NYSDEC), who is the relevant regulatory agency in this matter. NYSDEC confers with the United States Environmental Protection Agency (USEPA), as necessary.

DESCRIPTION OF THE SELECTED REMEDY

On the basis of the current conditions at Sites TU014 and TU017, site-related contaminants were not identified in soil or groundwater resulting from release from potential sources. Site-related contaminant levels at Sites TU014 and TU017 do not pose a significant risk to human health and the environment; therefore, NFRAP is appropriate for these Sites. However, a groundwater use restriction noted in the Gabreski ANGB Master Plan due to an off-site plume is necessary at Site TU014 to ensure protection of human health and the environment.

DECLARATION STATEMENT

This NFRAP DD represents the selected action for Sites TU014 and TU017. This NFRAP DD has been prepared in accordance with the general guidelines of CERCLA. The NFRAP decision is also in accordance with NYSDEC codes and regulations.

AUTHORIZING SIGNATURES

This signature sheet documents NGB approval of NFRAP in this DD for Sites TU014 and TU017.

Kevin Mattoch — 15 Feb 18

Kevin L. Mattoch, P.E., GS-15
Chief, Operations Division
Installations and Mission Support Directorate

Date

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CONCURRENCE RECORD

No Further Response Action Planned Concurrence Letter from New York State Department of Environmental Conservation - Sites TU014 and TU017.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
625 Broadway, 12th Floor, Albany, New York 12233-7011
P: (518) 402-9706 | F: (518) 402-9020
www.dec.ny.gov

January 3, 2018

RE: No Further Response Action Planned Decision Document Former Underground Storage Tanks at Former Building 218 (TU014) and Former Underground Storage Tank at Former Building 374 (TU017)"
Gabreski Air National Guard Base, Westhampton Beach, New York
Site #152148

Jody Ann Murata
Program Manager
NGB/A7OR
Shepperd Hall
3501 Fetchet Ave.
Joint Base Andrews MD 20762-5157

Dear Ms. Murata,

New York State Department of Environmental Conservation (NYSDEC) has reviewed the "No Further Response Action Planned Decision Document Former Underground Storage Tanks at Former Building 218 (TU014) and Former Underground Storage Tank at Former Building 374 (TU017)" at Gabreski Air National Guard Base, Westhampton Beach, New York.

No Further Response Action Planned is appropriate for these Sites. Based on our review of the document, the State concurs with the proposed determination and approves the above referenced document.

Please give me a call at 518-402-9692 or email at heather.bishop@dec.ny.gov if you have any questions or comments regarding this site.

Sincerely,

Heather Bishop, Project Manager
Division of Environmental Remediation

Ec:
J. Swartwout, NYSDEC
W. Parish, NYSDEC
C. Bethoney/S. Karpinski, NYSDOH

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1.0 INTRODUCTION

1.1 SITE NAME, LOCATION, AND DESCRIPTION

1.1.1 Site Description

Gabreski ANGB is located on the southeast side of Long Island at the Francis S. Gabreski Airport, Westhampton Beach, Suffolk County, New York (**Figure 1-1**). Suffolk County, which owns the airport property, leases the 88.5-acre ANGB portion to the U.S. Government who, in turn, license the property to the New York Air National Guard (NYANG).

The airport is currently home to the 106th Rescue Wing and the Hampton Business and Technology Park. The airport consists of over 1,400 acres and has been used by the federal government for military operations since 1942. The technology park is being developed as a corporate center with emphasis on high-technology, homeland security and communications industries. Air National Guard (ANG) has no plans to vacate the property or change the land use in the near future.

During its operational history, Gabreski ANGB personnel have engaged in various activities, including aircraft and ground vehicle maintenance. These operations generate varying quantities of waste oils, recovered fuels, corrosion inhibitors, spent cleaners, and solvents. As part of the Department of Defense (DoD) Installation Restoration Program (IRP); NGB/A4OR initiated activities to identify, evaluate, and remediate former disposal or spill sites containing hazardous substances. NGB/A4OR is publishing this DD to document selection of NFRAP under CERCLA for the following two Sites at the ANGB:

- Site TU014 Former USTs at Former Building 218
- Site TU017 Former UST at Former Building 374

TU014 encompasses the area of former Building 218 and its USTs (**Figure 1-2**). Building 218 reportedly functioned as a storage shed. Two USTs located adjacent to former Building 218 were removed in 1996. One UST was a 550-gallon, No. 2 fuel oil tank. The other UST was a 275-gallon, diesel fuel tank. Closure documents for these tanks are not available. Building 218 has been demolished and a paved parking lot has been created in the area.

TU017 encompasses the area of former Building 374 and its UST (**Figure 1-3**). Building 374 was a generator building. A 2,500-gallon, diesel fuel UST was formerly affiliated with this building. The UST was reportedly removed in 1996. Building 374 was demolished in 2009. Building 324 and an electrical transformer pad have since been constructed in the area.

1.1.2 Topography

The property is generally flat with subtle rolling terrain and stream channels that slope down from the north to the south-southeast. Surface elevations from approximately 20 feet (ft) above mean sea level (AMSL) in the southern portion of the base to 70 ft in the northern portion of the base.

1.1.3 Critical Environments

Vegetation at the Gabreski ANGB is limited to landscaped areas with grass, bushes, or weeds. No vegetation is present at TU014. There is a small portion of TU017 that contains grass in the areas of the former UST and building footprints. This vegetation is maintained through regular mowing activities.

1.1.4 Adjacent Land Uses and Nearby Populations

The zoning maps for the Town of Southampton, New York and the Village of Westhampton Beach, New York show that the land encompassing the airport, technology park and ANGB is classified as light industrial to the north, residential and open space to east, including the Quogue Wildlife Refuge, residential and park/conservation to the south, and residential to the west.

Suffolk County, which owns the airport property, leases the 88.5-acre ANGB portion to the U.S. Government who, in turn, license the property to the NYANG.

1.1.5 General Surface Water and Groundwater Resources

Groundwater is the only water supply source for Suffolk County. Most of the water in the vicinity of the Francis S. Gabreski Airport is obtained from the upper glacial aquifer; the rest is obtained from the Magothy and Lloyd aquifers. At present, Suffolk County Water Authority supplies the majority of the water in the area; the rest is supplied by several smaller companies. Suffolk County Water Authority operates 18 wells in 4 well fields within a 4-mile radius of the site. The nearest public water supply is the Meeting House Road well field. The field is located 0.6 mile southeast of Francis S. Gabreski Airport. It is operated by the Suffolk County Water Authority.

No permanent surface water drainage features are located at Gabreski ANGB. The base's stormwater conveyance systems drains to Aspatuck Creek located near the southeast corner of the installation. This creek flows into Quantuck Bay, which is separated from the Atlantic Ocean by a narrow barrier island.

1.2 SITE HISTORY AND ENFORCEMENT ACTIVITIES

1.2.1 Site History

The U.S. Army developed the airfield in 1941 as the Westhampton Beach Army Airfield to use for gunnery training for World War II. The U.S. Army discontinued use on the majority of the property and a private oil company leased the airfield from 1948 to 1951. In 1951, the U.S. Air Force reactivated the airfield as the Suffolk County Air Force Base. The Air Force deactivated and closed the base in 1969 and Suffolk County began operating the airfield as Suffolk County Airport. In 1991, the airport was renamed Francis S. Gabreski Airport.

In June 1970, military operations were reintroduced when the 102nd Air Refueling Squadron of the 106th Air Refueling Group, NYANG, relocated to Suffolk County. In 1972, the unit's mission changed to fighter-inceptor, with the new mission of controlling the skies along the northeast U.S. coast. In 1975, the designation and mission changed to "Aerospace Rescue and Recovery," which was later shortened to "Air Rescue," and again to "Rescue." In 1995, the

current names of the 102nd Rescue Squadron and 106th Rescue Wing were assigned. The location of the ANG facilities has remained the same since 1971.

The mission of the Gabreski ANGB is to provide worldwide Personnel Recovery, Combat Search and Rescue Capability, Expeditionary Combat Support, and Civil Search and Rescue Support to Federal and State authorities. The Gabreski ANGB conducts its activities in an environmentally sound manner, efficiently and effectively complying with the letter, spirit, and intent of applicable environmental statutes, regulation, and standards. In support of its primary mission, the facility has historically stored and used various types of hazardous materials. Current waste management practices at the facility are performed in compliance with applicable laws and regulations to protect human health and the environment.

The current mission of the 106th Rescue Wing is to provide peacetime and combat search and rescue services on a world-wide basis. Operations at the base include aircraft and ground-vehicle maintenance. Aircraft maintenance operations include corrosion control, non-destructive inspection, some painting, fuel cell maintenance, engine maintenance, avionics repair, hydraulics, washing, and wheel and tire maintenance. Operations related to ground-vehicle maintenance include fluid changes, filter changes, brake repair, lube, grease and repair of axel and drive trains, body repair, welding, minor painting, and washing. To support these activities, aircraft and vehicle maintenance facilities are active and involve the use, storage, and disposal of hazardous materials including petroleum, oil, lubricants, acids, paints, thinners, strippers, and solvents.

1.2.2 Regulatory Agency Involvement

In 2012, ANG began an environmental Compliance Restoration Program (CRP) that initiated revisiting ANG installations, evaluating records for areas that were previously excluded from the original Environmental Restoration Program to ensure that all potential environmental sites at the facility had been properly addressed. Preliminary Assessment (PA) activities were conducted at Gabreski ANGB on November 25, 2013 at eight areas of concern. The PA recommended a Site Inspection (SI) be conducted at five of the areas of concern (AECOM, 2015). The SI project objective was to determine the presence or absence of contamination and either (1) obtain a No Further Action (NFA) decision for the areas of concern at Gabreski ANGB with regulatory concurrence from the NYSDEC or (2) identify the data quality objectives required for conducting a follow-on remedial investigation (RI) at the areas of concern that did not meet the criteria for NFA. Based on the results of the SI, two potential contaminated sites, TU014 and Tu017, were evaluated and recommended for further action.

As the lead agency for remedial activities, NGB/A4OR has conducted RI activities at Sites TU014 and TU017, in accordance with CERCLA under DERP, which was established by Section 211 of SARA of 1986. As the regulatory review agency, NYSDEC provides primary oversight of the environmental restoration actions.

1.3 COMMUNITY PARTICIPATION

This DD was prepared in accordance with the DoD DERP Management Manual (DoD, 2012) requirement to identify community involvement in the proposed decision. The community participation component of this DD includes consideration of comments by the public on the

proposed decision. A public notice was published in a local newspaper, the *Southampton Press, Western Edition,* on December 14, 2017 to provide the public the opportunity to comment on the proposed decision during a 30-day public comment period (December 14, 2017 through January 12, 2018). The affidavit of publication and a copy of the printed public notice is included in **Attachment A**. A hard copy and electronic copy (on CD) of the Draft DD and an electronic copy of the RI Report (on CD) were made available to the public for review and comment at the Reference Desk at the Westhampton Free Library at 7 Library Avenue, Westhampton Beach, New York. No written or verbal comments were received from the public during the 30-day comment period; therefore, community acceptance of this NFRAP DD is inferred.

In addition, documents relevant to the environmental studies performed at Sites TU014 and TU017 have been made available to the public in the AR maintained by NGB/A4OR/ANGB. The AR was established to make documents and information, such as technical reports, data, and regulatory correspondence, accessible to the public. The documents are available online at http://afcec.publicadmin-record.us.af.mil/Search.aspx.

1.4 SCOPE OF RESPONSE ACTION

On the basis of the current conditions at Sites TU014 and TU017, site-related contaminants were not identified in soil or groundwater resulting from release from potential sources. Site-related contaminant levels at Sites TU014 and TU017 do not pose a significant risk to human health and the environment; therefore, NFRAP is appropriate for these Sites. However, a groundwater use restriction noted in the Gabreski ANGB Master Plan due to an off-site plume is necessary at Site TU014 to ensure protection of human health and the environment.

2.0 SUMMARY OF SITE CHARACTERISTICS

2.1 PHYSIOGRAPHY, GEOLOGIC SETTING, AND CLIMATOLOGY

The climate in Westhampton Beach, New York, is defined as mild and is influenced by its proximity to the Atlantic Ocean coastal area. Summers tend to be warm or mild with an average temperature of 71.9 degrees Fahrenheit (ºF). Winters are cold with an average temperature of 32ºF, few or no days of sub-zero temperatures, and 26 to 32 inches of snowfall. The average daily high temperature in July is 82ºF. The highest afternoon temperatures occur from July through August and range between the high 70s, and low 80s with temperatures above 85ºF occasionally occurring. The average daily low temperature of 23ºF occurs in January.

The average annual precipitation is between 43 and 44 inches per year, with approximately one-half the annual rainfall occurring from November through March. The average net precipitation is 42 inches per year, including evapotranspiration. The average wind velocity is 9 miles per hour (mph) and the average humidity is 70 percent (%). About 106 days per year are described as clear, 133 days as partly cloudy, and 136 days as cloudy.

Gabreski ANGB is located on a glacial outwash plain that slopes south from the Ronkonkoma Moraine to bays and barrier islands, which form the southern boundary of Long Island. Depth to bedrock beneath the airport ranges from 1,500 to 1,600 feet. The bedrock that underlies the unconsolidated deposits includes hard, dense schist, gneiss, and granite similar in character to that which underlies much of the mainland in nearby parts of New York and Connecticut. The bedrock is overlain by Cretaceous sediment called the Raritan formation and the Magothy formation.

The Raritan formation rests directly on highly to slightly weathered bedrock. On Long Island, the formation has two fairly distinct members that include the Lloyd sand member below and a clay member above. The formation likely occurs beneath all of central Suffolk County. Northward, the Lloyd sand thins and probably pinches out beneath Long Island Sound, and the clay member may do likewise. Southward, the formation extends a considerable distance offshore, possibly as far as 100 miles on the continental shelf.

The Magothy formation is a thick body of continental deposits composed of lenses of sand, sandy clay, clay, and some gravel. It rests on the Raritan formation and is in turn unconformably overlain by upper Pleistocene deposits. The greatest thickness revealed by drilling is about 1,000 ft. The present upper surface of the Magothy on Long Island is an erosional surface, and the original thickness is not known. The Magothy formation underlies most of Long Island except for some western areas where it was removed by erosion. The Magothy is composed of beds of poorly sorted quartzose sand mixed with and interbedded with silt and clay, and locally it contains pebbles or small lenses of gravel. Sandy clay and clayey sand make up most of the fine beds, but there are also several thick beds of clay. These clay beds probably do not constitute as effective of a barrier to the movement of groundwater as the clay member of the Raritan formation.

2.2 SOIL CHARACTERISTICS

The soil types at Gabreski ANGB have been mapped by the Natural Resources Conservation Service and are as follows:

- Urban land (Ur) – More than 80% covered by building and pavement (originally occurring soils, which have been altered by digging, mixing, and moving are likely the Plymouth loamy sand-PI-described below).

- Cut and fill land (Cu) – Gently sloping, complex due to grading and structures.

- Plymouth loamy sand (PI) – 0 to 3% slope, excessively drained, and resulting from outwash plains and moraines.

2.3 HYDROGEOLOGIC SETTING

Groundwater beneath the ANGB is found within the following three aquifers: Upper Glacial, Magothy Aquifer, and Lloyd Aquifer. The Upper Glacial is the unconfined, shallow surficial aquifer that lies directly below the ANGB. This unconfined aquifer consists of very porous and highly permeable coarse sands and gravels, and can yield large quantities of potable water. It is generally 120 feet thick, and flows south-southeast toward the headwaters of Quantuck Creek. Depth to groundwater varies from 5 ft below ground surface (bgs) in the southern portion of the base to 40 ft bgs at higher elevations.

Magothy Aquifer is another good source of drinking water. The top of the Magothy Aquifer is approximately 160 ft bgs and is separated from the Upper Glacial Aquifer by a 40-ft thick Gardiners Clay Formation that serves as an aquitard.

Lloyd Aquifer is the deepest aquifer, which provides a good source of drinking water in an area where salt water intrusion is common. The Lloyd Aquifer is separated from the Magothy Aquifer by the 200-ft Raritan Clay Formation that serves as an aquitard.

The direction of groundwater movement beneath the Francis S. Gabreski Airport (i.e., in the upper glacial aquifer) is toward the south-southeast.

2.4 SURFACE WATER SETTING

No permanent surface water drainage features are located at Gabreski ANGB.

2.5 RECEPTORS

There is no expected change in current land use and the current receptors include base workers and visitors. As such, commercial/industrial workers were evaluated in the risk assessment for Sites TU014 and TU017. Potential future land use may include unlimited use and unrestricted exposure (UU/UE); as such, hypothetical residential receptors were also evaluated in the risk assessment (TEC-Weston Joint Venture [TEC-Weston JV], 2017).

3.0 DATA ANALYSIS/RISK ASSESSMENT

This section includes summaries of the data analysis completed at Sites TU014 and TU017, including any human health or ecological risks that remain, which are the basis for the selected remedy of NFRAP at each Site.

3.1 SITE TU014 - FORMER USTS AT FORMER BUILDING 218

A PA was conducted at TU014 in November 2013. The PA indicated that based on lack of information regarding sampling data and closure documentation for UST removal, both soil and groundwater contamination may be present (AECOM, 2015).

An SI was conducted in September 2014 (AECOM, 2015). During the SI, 10 soil borings (TU14SB15 through TU14SB24) were advanced at Site TU014 in the area of the former USTs of Building 218 to a depth of at least 35 ft bgs. Twenty soil samples (2 per boring) were collected and analyzed for volatile organic compounds (VOC) and semivolatile organic compounds (SVOC). Two groundwater samples were collected from temporary monitoring wells (MW) installed at borings TU14SB15 and TU14SB20 and analyzed for VOCs and SVOCs.

An RI was conducted at Site TU014 in May 2016 to evaluate the impact of chemicals in soil and groundwater on human health and the environment based on recommendations from the SI. During the RI, 11 soil samples were collected from 5 boreholes (GB-TU014-MW001 through GB-TU014-MW003, GB-TU014-SB001, and GB-TU014-SB002) and analyzed for VOCs and SVOCs. In addition, three borings (GB-TU014-MW001 through GB-TU014-MW003) were completed as groundwater MWs. Groundwater samples were collected from the three MWs and analyzed for VOCs and SVOCs during one sampling event (TEC-Weston JV, 2017).

SI and RI sampling locations are presented on **Figure 3-1**.

3.1.1 Soil

Soil analytical results were compared to regulatory screening levels. Soil project action limits (PAL) for the RI were selected as the minimum value (i.e., most stringent) of the following:

- Unrestricted Use Soil Cleanup Objectives (SCOs) as specified in 6 New York Codes, Rules, and Regulations (NYCRR) Part 375.
- NYSDEC Commissioner Policy (CP)-51 Residential Supplemental SCOs (SSCO).
- USEPA May 2016 Residential Regional Screening Levels (RSLs) based on target hazard quotient (THQ) of 1 and target risk (TR) of 1E-06 were used as the PAL for analytes that do not have a published SCO.

In soil collected at TU014 during the 2014 SI and 2016 RI, nine VOCs (1,2,4-trimethylbenzene, 1,3,5 trimethylbenzene, acetone, ethylbenzene, naphthalene, n-propylbenzene, m,p-xylene, o xylene, total xylenes) and one SVOC (2-methylnaphthalene) were detected at concentrations exceeding PALs. SI and RI soil analytical results are presented in **Table 3-1** and **Table 3-2**, respectively. Chemicals of potential concern (COPCs) were not detected at concentrations above

PALs in vadose zone soil samples, with the exception of acetone at one location. With the exception of acetone at one sampling location, all COPCs detected in soil at concentrations above PALs are in samples collected at the groundwater interface in the vicinity and downgradient/sidegradient of the former No. 2 fuel oil UST. The acetone concentration exceeded the PAL based on the protection of groundwater but did not exceed direct contact PALs; acetone was not detected in groundwater at concentrations above PALs (TEC-Weston JV, 2017).

Soil contamination at the groundwater interface at TU014 is attributed to groundwater contamination from the upgradient Baumann Bus plume as further discussed in the following groundwater discussion.

According to the results of the baseline human health risk assessment (BHHRA), Site TU014 soils are suitable for UU/UE and do not pose an unacceptable risk to current or future residents or commercial/industrial workers, since RI soil samples do not exceed PAL criteria.

3.1.2 Groundwater

Groundwater analytical results were compared to regulatory screening levels. Groundwater PALs for the RI were selected as the minimum value (i.e., most stringent) of the following:

- NYSDEC Class GA (source of drinking water, groundwater) Water Quality Standards as specified in 6 NYCRR Part 703.
- USEPA National Primary Drinking Water Regulations (i.e., maximum contaminant levels [MCLs]).
- USEPA May 2016 tap water RSLs based on THQ of 1 and TR of 1E-06 were used as the PAL for analytes that do not have a published NYSDEC Water Quality Standard or MCL.

Fifteen VOCs and 21 SVOCs were detected in grab groundwater samples collected during the SI (**Table 3-3**). The compounds 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-isopropyltoluene, ethylbenzene, isopropylbenzene, naphthalene, n-propylbenzene, and sec-butylbenzene exceeded their respective PALs in at least one groundwater sample (AECOM, 2015). Groundwater samples collected during the 2014 SI were collected as grab samples from open boreholes. The SI groundwater investigation results were used to evaluate placement of permanent MWs during the RI.

During the RI, eleven VOCs (1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, isopropylbenzene [cumene], m,p-xylene, naphthalene, n-butylbenzene, n-propylbenzene, o-xylene, sec-butylbenzene, and total xylenes) and two SVOCs (2-methylnaphthalene and naphthalene) were detected in groundwater samples collected from permanent MWs, including upgradient locations, at concentrations exceeding groundwater PALs (**Table 3-4**) (TEC-Weston JV, 2017).

TU014 groundwater cancer risks and non-cancer risk estimates calculated using the sum of ratio approach for the BHHRA yielded risks below or within USEPA's respective risk management range of on-in-ten thousand to one-in-one million (1E-04 to 1E-06) for cancer and below the

USEPA's THQ threshold (1.0) for non-cancer effects for the commercial/industrial worker scenario. However, cancer risks and non-cancer risk estimates for the residential scenario exceeded USEPA's respective risk management range (1E-04 to 1E-06) for cancer and USEPA's THQ threshold (1.0) for non-cancer effects (TEC-Weston JV, 2017).

Groundwater contamination underlying TU014 is attributed to groundwater contamination from the upgradient Baumann Bus plume and not to a release from Site TU014. The Baumann Bus plume originated from Airport Development District (ADD) property owned by Suffolk County, located across Cook Street to the north and from outside the Gabreski ANGB property line. The plume contains petroleum-based contaminants that were released from USTs that had contained heating oil, waste oil, diesel fuel, automotive gas, and jet fuel suspected of migrating southward to ANGB property. The plume was last monitored in March 2016 and compounds detected in the groundwater MWs located at the ANGB site boundary located less than 100 ft from Site TU014 include 1,2,4-trimethylbenzene, 1,2-dichlorobenzene, 1,3,5-trimethylbenzene, cis-1,2-dichloroethene, cyclohexane, ethylbenzene, isopropylbenzene, m,p-xylene, methylcyclohexane, n-butylbenzene, n-propylbenzene, naphthalene, o-xylene, p-isopropyltoluene, sec-butylbenzene, tertbutylbenzene, and toluene.

3.1.3 Summary

Site-related COPCs were not identified in soil or groundwater at TU014 resulting from releases from former TU014 potential sources (TEC-Weston JV, 2017). Stakeholders agreed in a September 2016 conference call for this project that groundwater contamination underlying TU014 is attributed to groundwater contamination from the upgradient Baumann Bus plume. It was therefore recommended that NGB communicate these RI results to Suffolk County and/or other responsible parties for the Baumann Bus plume. The responsible parties were recommended to (1) monitor the upgradient plume's migration onto the ANG property, (2) delineate the downgradient limits of the plume, and (3) conduct soil gas and indoor air sampling at adjacent buildings to ensure risks are not present to ANGB workers. ANG is currently working with Sussex County to ensure a CERCLA remedial action at the Baumann Bus plume is being adequately implemented.

3.2 SITE TU017 - FORMER UST AT FORMER BUILDING 374

A PA was conducted at TU017 in November 2013. The PA indicated that based on lack of information regarding sampling data and closure documentation for UST removal, both soil and groundwater contamination may be present (AECOM, 2015).

An SI was conducted in October 2014. Five soil samples were collected from four boreholes (TU17SB34 through TU17SB36 and TU17SB38) and one groundwater sample was collected from one borehole (TU17GW34) at TU017 and analyzed for VOCs and SVOCs (AECOM, 2015).

An RI was conducted at Site TU017 in May 2016 to evaluate the impact of chemicals in soil and groundwater on human health and the environment based on recommendations from the SI. During the RI, eight soil samples were collected from four boreholes (GB-TU017-MW001, GB-TU017-MW002, GB-TU017-SB001, and GB-TU017-SB002) and analyzed for VOCs and SVOCs. In addition, two borings (GB-TU017-MW001 and GB-TU017-MW002) were

completed as permanent groundwater MWs. Groundwater samples were collected from the two MWs and analyzed for VOCs and SVOCs during one sampling event (TEC-Weston JV, 2017).

SI and RI sampling locations are presented on **Figure 3-2.**

3.2.1 Soil

Soil analytical results were compared to regulatory screening levels as detailed above in Section 3.1.1.

Nine VOCs and 25 SVOCs were detected in the 2014 SI soil samples (**Table 3-5**). Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene exceeded their respective PALs in the sample collected from 10 to 15 ft bgs at one location. No VOCs or SVOCs were detected in soil collected during the 2016 RI at concentrations exceeding PALs (**Table 3-6)**.

During both the 2014 SI and 2016 RI sampling investigations, Site TU017 did not have any COPCs (i.e., chemicals exceeding screening levels) in the 0-10 ft bgs soil zone. During the 2014 SI, five SVOCs, all polycyclic aromatic hydrocarbons (PAHs), exceeded their respective human health-based screening levels at sampling location TU17SB34, which was collected from 10 to 15 ft bgs (**Table 3-5**) (AECOM, 2015). The presence of PAHs at TU17SB34 is not likely to be a result of a release from the former diesel fuel UST. PAHs may be present in soil at this location from previous land disturbances or backfilling of former features related to Site 8 (PEER Consultants, P.C. [PEER], 2006) or may have been introduced to the sample during SI sample collection or analysis. The data were not quantitatively evaluated in the BHHRA because the direct contact exposure pathway is incomplete for soils deeper than 10 feet since these soils would not be overturned or excavated during future construction activities. Therefore, Site TU017 is suitable for UU/UE and does not pose a risk to current or future residents or commercial/industrial workers (TEC-Weston JV, 2017).

3.2.2 Groundwater

Groundwater analytical results were compared to regulatory screening levels as detailed above in Section 3.1.2.

Two VOCs and five SVOCs were detected in the 2014 SI groundwater sample (**Table 3-7**). Bis(2-ethylhexyl)phthalate exceeded its PAL in one grab groundwater sample (AECOM, 2015).

No VOCs or SVOCs were detected in groundwater collected from permanent MWs during the RI at concentrations exceeding PALs (**Table 3-8)**. Groundwater COPCs were not identified in the BHHRA for TU017 groundwater (TEC-Weston JV, 2017).

3.2.3 Summary

There are no unacceptable risks remaining in soil or groundwater at TU017 to current or future receptors including permanent residents (TEC-Weston JV, 2017). NFRAP is recommended for Site TU017.

4.0 SELECTED ACTION: NO FURTHER RESPONSE ACTION PLANNED

On the basis of the current conditions at Sites TU014 and TU017, site-related contaminants were not identified in soil or groundwater resulting from release from potential sources. Site-related contaminant levels at Sites TU014 and TU017 do not pose a significant risk to human health and the environment; therefore, NFRAP is appropriate for these Sites. However, a groundwater use restriction noted in the Gabreski ANGB Master Plan due to an off-site plume is necessary at Site TU014 to ensure protection of human health and the environment. CERCLA five-year reviews will be required until the restriction is able to be removed due to a reduction in contamination levels. NYSDEC has concurred with this selected action (NYSDEC, 2017; **Attachment B**).

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5.0 RESPONSIVENESS SUMMARY

NGB/A4OR has determined that conditions at Site TU017 do not pose a current or potential threat to human health or the environment. NGB/A4OR has determined that conditions at Site TU014 do not pose a current or potential threat to human health or the environment under current land use (commercial/industrial). Cancer risks and non-cancer risk estimates for the potential future residential scenario exceeded USEPA's respective risk management range (1E-04 to 1E-06) for cancer and USEPA's THQ threshold (1.0) for non-cancer effects. NGB/A4OR has communicated these results to Suffolk County and/or other responsible parties for the Baumann Bus plume. ANG is currently working with Sussex County to ensure a CERCLA remedial action at the Baumann Bus plume is being adequately implemented.

5.1 STAKEHOLDER COMMENTS AND LEAD AGENCY RESPONSES

The Final RI Report for the Sites referenced in this DD was accepted by the NYSDEC (NYSDEC, 2017; **Attachment B**). The document states that the Sites require NFRAP because no spill or release had occurred, and RI screening sample results were either below applicable or relevant and appropriate requirement (ARAR) levels or attributed to an off-site source area. Conditions at Sites TU014 and TU017 do not present an unacceptable risk to current or future receptors because the RI concluded that there are no site-related COPCs in soil or groundwater. This document serves as the NFRAP DD for Sites TU014 and TU017.

A public notice was published in a local newspaper, the *Southampton Press, Western Edition,* on December 14, 2017 to provide the public the opportunity to comment on the proposed decision during a 30-day public comment period (December 14, 2017 through January 12, 2018). The affidavit of publication and a copy of the printed public notice is included in **Attachment A.** No written or verbal comments were received from the public during the 30-day comment period; therefore, community acceptance of this NFRAP DD is inferred.

5.2 TECHNICAL AND LEGAL ISSUES

Review of site history and historical analytical results has shown that no site-related contamination exists from Sites TU014 or TU017 that poses an unacceptable risk to human health or the environment. However, a groundwater use restriction noted in the Gabreski ANGB Master Plan due to an off-site plume is necessary at Site TU014 to ensure protection of human health and the environment. CERCLA five-year reviews will be required until the restriction is able to be removed due to a reduction in contamination levels.

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6.0 REFERENCES

AECOM. 2015. *Final Regional Compliance Restoration Program Preliminary Assessment/Site Inspection, Gabreski Air National Guard Base, Westhampton Beach, New York*. July 2015.

DoD (Department of Defense). 2012. Defense Environmental Restoration Program (DERP) Management Manual. Number 4715.20. March 2012.

NYSDEC (New York State Department of Environmental Conservation). 2017. Concurrence Letter for the Final Remedial Investigation Report, Former Underground Storage Tanks at Former Building 218 (TU014) and Former Underground Storage Tank at Former Building 374 (TU017), Gabreski Air National Guard Base, Site #152148, Westhampton Beach, Suffolk County. Letter dated December 12, 2017.

PEER (PEER Consultants, P.C.). 2006. *Final Remedial Investigation Report for Site 8 – Old Base Septic Systems. 106th Rescue Wing, New York Air National Guard, Francis S. Gabreski Airport, Westhampton Beach, New York*. December 2006.

TEC-Weston JV (TEC-Weston Joint Venture). 2016. *Final Remedial Investigation Report, Former Underground Storage Tanks at Former Building 218 (TU014) and Former Underground Storage Tank at Former Building 374 (TU017) at Gabreski Air National Guard Base Westhampton Beach, New York*. March 2017.

Town of Southampton Zoning Map. Undated. Internet accessed on March 29, 2017 at: http://www.southamptontownny.gov/222/Zoning-Maps

Village of Westhampton Beach Zoning Map. February 4, 2010. Internet accessed on March 29, 2017 at: http://westhamptonbeach.org/building-and-zoning/zoning-map/

Note:
AR records can be accessed at http://afcec.publicadmin-record.us.af.mil/.

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FIGURES

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LEGEND

- Installation Boundary
- Regional Groundwater Flow Direction

Note:
Water levels from site-specific groundwater wells collected during the RI and previous investigations performed at the base confirm that groundwater flow direction is southeast.

Imagery Source: ESRI Imagery Mapping Service, 2013

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FIGURE 1-1
SITE LOCATION MAP
GABRESKI AIR NATIONAL GUARD BASE
WESTHAMPTON BEACH, NY

DATE	PROJECT NO	SCALE
APR 2017	15363.100.001.0404	AS SHOWN

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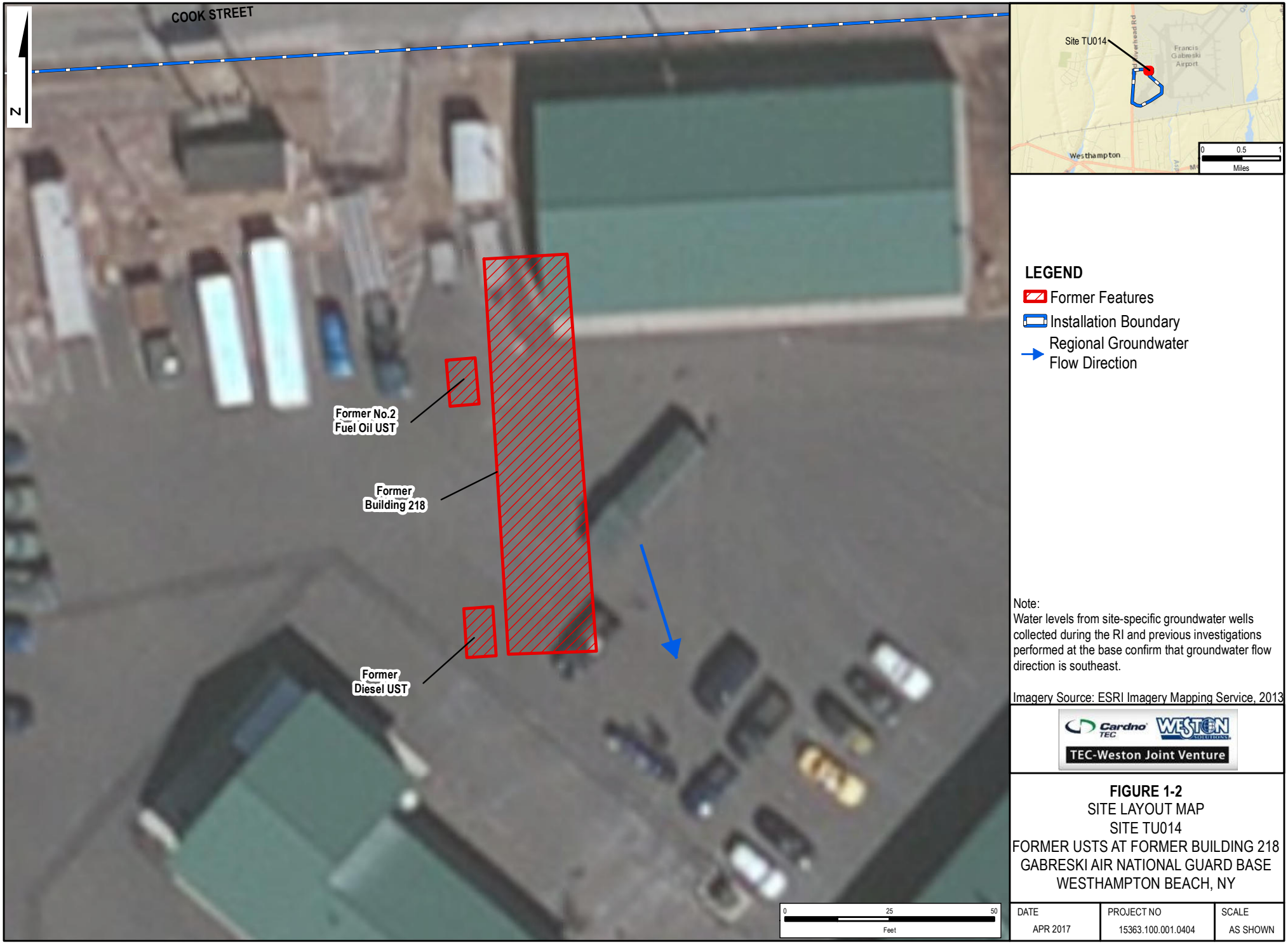

LEGEND

- Former Features
- Installation Boundary
- Regional Groundwater Flow Direction

Note:
Water levels from site-specific groundwater wells collected during the RI and previous investigations performed at the base confirm that groundwater flow direction is southeast.

Imagery Source: ESRI Imagery Mapping Service, 2013

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FIGURE 1-2
SITE LAYOUT MAP
SITE TU014
FORMER USTS AT FORMER BUILDING 218
GABRESKI AIR NATIONAL GUARD BASE
WESTHAMPTON BEACH, NY

DATE	PROJECT NO	SCALE
APR 2017	15363.100.001.0404	AS SHOWN

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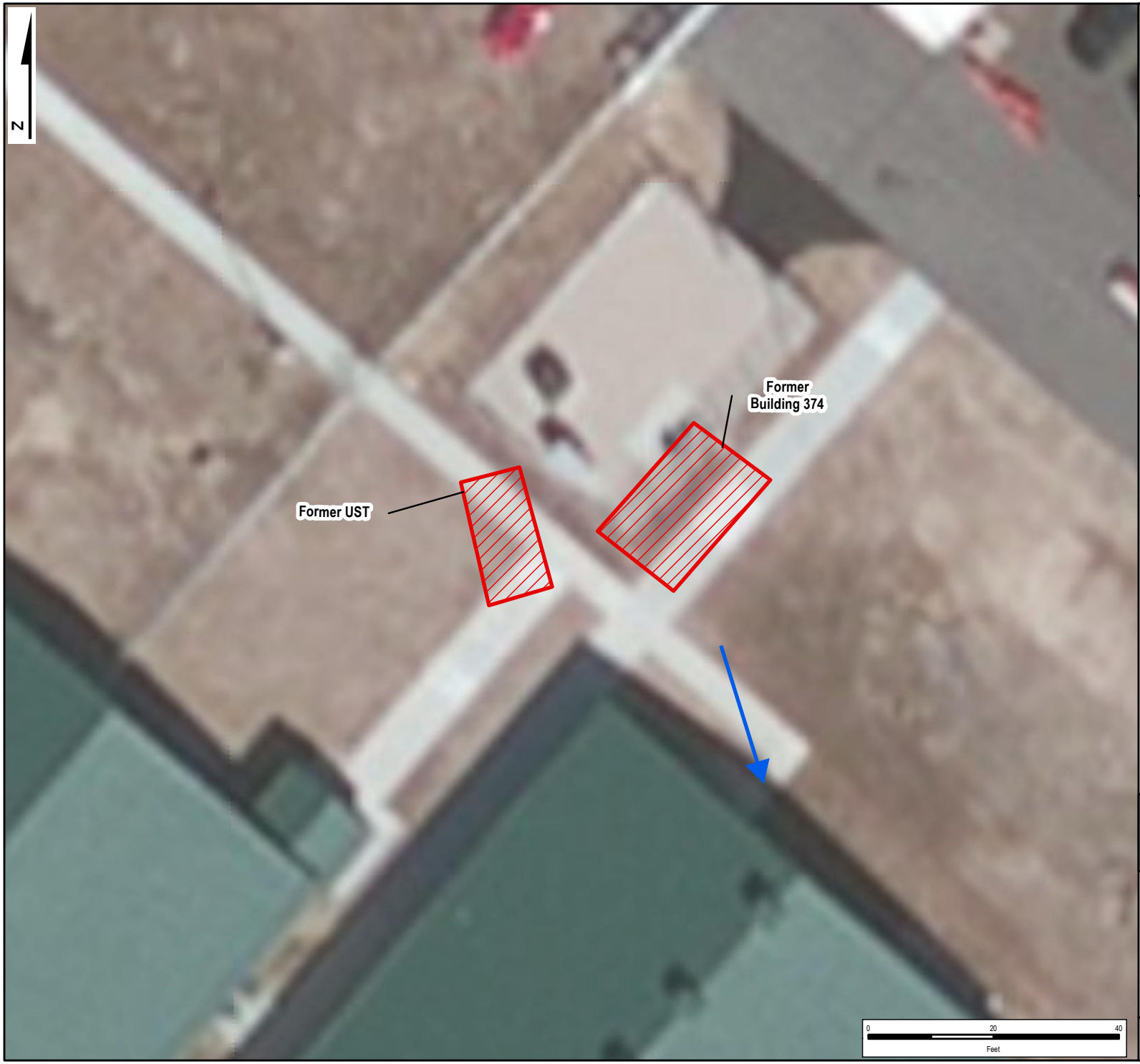

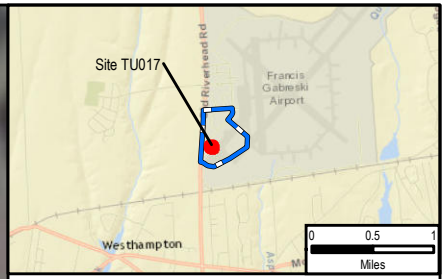

LEGEND

- Former Features
- Installation Boundary
- Regional Groundwater Flow Direction

Note:
Water levels from site-specific groundwater wells collected during the RI and previous investigations performed at the base confirm that groundwater flow direction is southeast.

Imagery Source: ESRI Imagery Mapping Service, 2013

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FIGURE 1-3
SITE LAYOUT MAP
SITE TU017
FORMER UST AT FORMER BUILDING 374
GABRESKI AIR NATIONAL GUARD BASE
WESTHAMPTON BEACH, NY

DATE	PROJECT NO	SCALE
APR 2017	15363.100.001.0404	AS SHOWN

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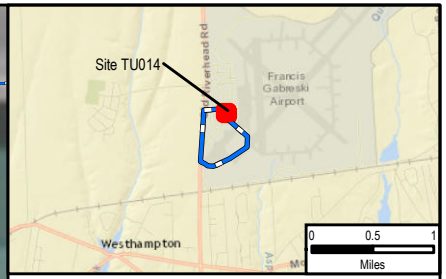

LEGEND

- Former Features
- Installation Boundary
- County Monitoring Well
- 2014 PA/SI Sampling Location
- 2016 Soil Boring Location
- 2016 Soil Boring and Permanent Monitoring Well
- Regional Groundwater Flow Direction

Imagery Source: ESRI Imagery Mapping Service, 2013

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FIGURE 3-1
SAMPLE LOCATION MAP
SITE TU014
FORMER USTS AT FORMER BUILDING 218
GABRESKI AIR NATIONAL GUARD BASE
WESTHAMPTON BEACH, NY

DATE	PROJECT NO	SCALE
APR 2017	15363.100.001.0405	AS SHOWN

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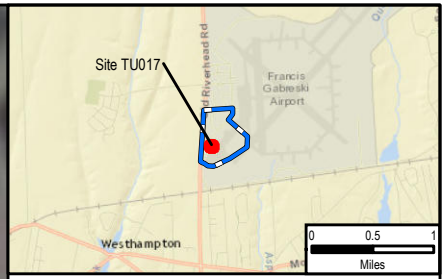

LEGEND

- Former Features
- Installation Boundary
- 2016 Soil Boring Location
- 2016 Soil Boring and Permanent Monitoring Well
- 2014 PA/SI Sampling Station
- Regional Groundwater Flow Direction

Imagery Source: ESRI Imagery Mapping Service, 2013

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FIGURE 3-2
SAMPLE LOCATION MAP
SITE TU017
FORMER UST AT FORMER BUILDING 374
GABRESKI AIR NATIONAL GUARD BASE
WESTHAMPTON BEACH, NY

DATE	PROJECT NO	SCALE
APR 2017	15363.100.001.0405	AS SHOWN

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TABLES

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Table 3-1
Soil Sample Analytical Results, Site Inspection
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

Location	NYSDEC CP-51 Unrestricted Use	NYSDEC ECL 375-6 Soil Cleanup Objectives	RSL - Residential Soil	TU014 SB15			TU014 SB16		TU014 SB17		TU014 SB18		TU014 SB19		TU014 SB20		TU014 SB21		TU014 SB22		TU014 SB23		TU014 SB24	
Sample ID				TU14SB15	TU14SB15	TU14SB15 DUP	TU14SB16	TU14SB16	TU14SB17	TU14SB17	TU14SB18	TU14SB18	TU14SB19	TU14SB19	TU14SB20	TU14SB20	TU14SB21	TU14SB21	TU14SB22	TU14SB22	TU14SB23	TU14SB23	TU14SB24	TU14SB24
Sample Date				9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/24/2014	9/24/2014	9/24/2014	9/24/2014	9/24/2014	9/24/2014	9/24/2014	9/24/2014	9/24/2014	9/24/2014
Depth Interval (ft bgs)				12 - 13	34 - 35	34 - 35	11 - 12	34 - 35	20 -21	33 - 34	4 - 5	34 - 35	15 -16	34 - 35	32 - 33	4 - 5	32 - 33	4 - 5	25 - 26	32 - 33	24 - 25	32 - 33	6 - 7	32 - 33
Media				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
VOCs (µg/kg)																								
1,2,4-Trimethylbenzene	***3600***	3600	58000	0.16 J	0.18 J	0.15 J	0.74 J	0.16 J	0.2 J	0.2 J	0.24 J	0.17 J	0.57 J	0.19 J	8.7	0.52 U	0.69 J	0.55 U	0.52 U	0.24 J	0.56 U	2.6	0.23 J	0.34 J
1,2-Dichlorobenzene	***1100***	1100	1800000	0.22 U	0.21 U	0.2 U	0.34 J	0.22 U	0.2 U	0.2 U	0.28 U	0.21 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.22 U	0.21 U	0.3 U	0.21 U
1,3,5-Trimethylbenzene	***8400***	8400	780000	0.55 U	0.52 U	0.51 U	0.25 J	0.55 U	0.51 U	0.51 U	0.7 U	0.52 U	0.53 U	0.57 U	4	0.52 U	0.48 J	0.55 U	0.52 U	0.52 U	0.56 U	1.4	0.75 U	0.24 J
1,4-Dichlorobenzene	***1800***	1800	2600	0.22 U	0.21 U	0.2 U	0.28 J	0.22 U	0.2 U	0.2 U	0.28 U	0.21 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.22 U	0.21 U	0.3 U	0.21 U
4-Isopropyltoluene	NS	NS	NS	0.55 U	0.52 U	0.51 U	0.53 U	0.55 U	0.51 U	0.51 U	0.7 U	0.52 U	0.53 U	0.57 U	1.2	0.52 U	0.52 U	0.55 U	0.52 U	0.52 U	0.56 U	0.51 U	0.75 U	0.52 U
Acetone	***50***	50	61000000	13 UJ	17 UJ	16 UJ	**67**	15 UJ	24 UJ	17 UJ	46	14 UJ	**81**	14 UJ	5.1 U	5.2 U	5.2 U	6.5 UJ	5.2 U	5.2 U	5.6 U	5.1 U	30	5.2 U
Benzene	***60***	60	1200	0.55 U	0.52 U	0.51 U	0.61 J	0.55 U	0.51 U	0.51 U	4.7	0.52 U	0.62 J	0.57 U	0.51 U	0.52 U	0.52 U	0.55 U	0.52 U	0.52 U	0.56 U	0.51 U	0.35 J	0.52 U
Carbon Disulfide	NS	NS	***770000***	0.55 U	0.52 U	0.51 U	6	0.55 U	0.47 J	0.42 J	0.48 J	0.52 U	10	0.57 U	0.51 U	0.52 U	0.52 U	0.55 U	0.52 U	0.52 U	0.56 U	0.51 U	11	0.52 U
Chlorobenzene	***1100***	1100	280000	0.17 J	0.23 J	0.51 U	0.22 J	0.55 U	0.18 J	0.2 J	0.7 U	0.52 U	0.2 J	0.17 J	0.51 U	0.52 U	0.52 U	0.55 U	0.52 U	0.52 U	0.56 U	0.51 U	0.75 U	0.52 U
Ethylbenzene	***1000***	1000	5800	5.3	5.4 J	3.4 J	6.4	5.4	5.5	5.3	5.2	3.6	6.7	4.9	1.4	0.52 U	0.52 U	0.55 U	0.52 U	0.52 U	0.56 U	0.57 J	0.75 U	0.52 U
Isopropylbenzene	NS	NS	***1900000***	0.22 U	0.21 U	0.2 U	0.16 J	0.22 U	0.2 U	0.2 U	0.28 U	0.21 U	0.15 J	0.23 U	0.64 J	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.22 U	0.42 J	0.3 U	0.21 U
Naphthalene	***12000***	12000	3800	0.55 U	0.52 U	0.51 U	5.2 J	0.55 U	0.51 U	0.51 U	0.7 U	0.52 U	4.1 J	0.57 U	5 J	0.52 U	0.52 U	0.55 U	0.52 U	0.52 U	0.56 U	0.51 U	0.75 U	0.52 U
n-Butylbenzene	***12000***	NS	3900000	0.55 U	0.52 U	0.51 U	0.53 U	0.55 U	0.51 U	0.51 U	0.7 U	0.52 U	0.53 U	0.57 U	1.8	0.52 U	0.32 J	0.55 U	0.52 U	0.52 U	0.56 U	0.29 J	0.75 U	0.52 U
n-Propylbenzene	***3900***	3900	3300000	0.55 U	0.52 U	0.51 U	0.53 U	0.55 U	0.51 U	0.51 U	0.7 U	0.52 U	0.53 U	0.57 U	1.4	0.52 U	0.52 U	0.55 U	0.52 U	0.52 U	0.56 U	0.56 J	0.75 U	0.52 U
sec-Butylbenzene	***11000***	1100	7800000	0.55 U	0.52 U	0.51 U	0.53 U	0.55 U	0.51 U	0.51 U	0.7 U	0.52 U	0.53 U	0.57 U	0.94 J	0.52 U	0.52 U	0.55 U	0.52 U	0.52 U	0.56 U	0.51 U	0.75 U	0.52 U
Styrene	NS	NS	***6000000***	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.58 J	0.2 U	0.28 U	0.21 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.22 U	0.21 U	0.3 U	0.21 U
Toluene	***700***	700	4900000	9.5	11 J	6.3 J	12	9.4	10	9.7	9.8	6.3	12	9	0.2 J	0.12 J	0.14 J	0.18 J	0.13 J	0.18 J	0.17 J	0.14 J	0.71 J	0.16 J
Trichlorofluoromethane	NS	NS	***730000***	0.55 U	0.52 U	0.51 U	0.55 J	0.55 U	0.51 U	0.51 U	0.7 U	0.52 U	0.53 U	0.57 U	0.51 U	0.52 U	0.52 U	0.55 U	0.52 U	0.52 U	0.56 U	0.51 U	0.75 U	0.52 U
Xylene, Meta + Para	NS	NS	NS	21	22 J	13 J	26	22	21	21	20	14	28	20	4.3	0.32 J	0.39 J	0.31 J	0.4 J	0.57 J	0.51 J	1.1 J	0.78 J	0.4 J
Xylene, Ortho	NS	NS	***6500000***	4.8	4.7 J	3 J	6.3	4.6	4.9	4.8	4.5	3.2	6.3	4.7	0.3 J	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.22 U	0.21 U	0.3 U	0.21 U
SVOCs (µg/kg)																								
Benzo(a)anthracene	***1000***	1000	150	8.6 U	8.7 U	8.5 U	170 J	8.6 U	2.8 J	8.5 U	160 J	8.6 U	--	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	87 U	8.6 U	8.5 U	29 J	8.6 U
Benzo(a)pyrene	***1000***	22000	15	8.6 U	8.7 U	8.5 U	120 J	8.6 U	8.5 U	8.5 U	170 J	8.6 U	--	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	87 U	8.6 U	8.5 U	33 J	8.6 U
Benzo(b)fluoranthene	***1000***	1700	150	8.6 U	8.7 U	8.5 U	210 J	8.6 U	3.2 J	8.5 U	280	8.6 U	--	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	87 U	8.6 U	8.5 U	62 J	8.6 U
Benzo(g,h,i)perylene	***100000***	1000000	NS	8.6 U	8.7 U	8.5 U	73 J	8.6 U	8.5 U	8.5 U	89 J	8.6 U	--	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	87 U	8.6 U	8.5 U	22 J	8.6 U
Benzo(k)fluoranthene	***800***	1700	1500	8.6 U	8.7 U	8.5 U	80 J	8.6 U	8.5 U	8.5 U	110 J	8.6 U	--	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	87 U	8.6 U	8.5 U	26 J	8.6 U
Benzoic Acid	NS	NS	***250000000***	88 J	170 U	89 J	3500 U	84 J	170 U	89 J	1800 U	91 J	--	88 J	87 J	89 J	88 J	88 J	87 J	1700 U	88 J	84 J	1800 U	170 U
Bis(2-ethylhexyl) Phthalate	NS	NS	***38000***	67 UJ	60 UJ	71 UJ	1500 B	93 UJ	260 B	60 UJ	180 U	53 UJ	--	62 UJ	65 UJ	62 UJ	68 UJ	60 UJ	52 UJ	530 B	64 UJ	52 UJ	380 UJ	120 UJ
Butyl Benzyl Phthalate	NS	NS	***280000***	17 U	17 U	17 U	140 J	17 U	17 U	17 U	180 U	17 U	--	17 U	17 U	17 U	17 U	17 U	17 U	170 U	17 U	17 U	180 U	17 U
Chrysene	***1000***	1000	15000	17 U	17 U	17 U	180 J	17 U	17 U	17 U	170 J	17 U	--	17 U	17 U	17 U	17 U	17 U	17 U	170 U	17 U	17 U	180 U	17 U
Di-n-butyl Phthalate	NS	NS	***6200000***	34 U	28 J	34 U	700 U	34 U	34 U	34 U	350 U	34 U	--	34 U	22 J	41 J	34 U	34 U	51 J	350 U	15 J	34 U	350 U	34 U
Fluoranthene	***100000***	1000000	2300000	17 U	17 U	17 U	390	17 U	4.6 J	17 U	310	17 U	--	17 U	17 U	17 U	17 U	17 U	17 U	170 U	17 U	17 U	55 J	17 U
Indeno(1,2,3-cd)pyrene	***500***	8200	150	8.6 U	8.7 U	8.5 U	73 J	8.6 U	8.5 U	8.5 U	70 J	8.6 U	--	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	87 U	8.6 U	8.5 U	88 U	8.6 U
Phenanthrene	***100000***	1000000	NS	17 U	17 U	17 U	400	17 U	4.3 J	17 U	110 J	17 U	--	17 U	17 U	17 U	17 U	17 U	17 U	170 U	17 U	17 U	180 U	17 U
Pyrene	***100000***	1000000	1700000	17 U	17 U	17 U	370	17 U	4.6 J	17 U	360	17 U	--	17 U	17 U	17 U	17 U	17 U	17 U	170 U	17 U	17 U	58 J	17 U

Notes: Only compounds detected one or more times are presented in this table
Italicized and bolded value indicates screening criterion used
Highlighted cell indicates analyte was detected
Bold value indicates analyte detected above screening level
µg/kg = micrograms per kilogram

Data Qualifiers: J = Estimated concentration
U = Not detected at or above concentration shown
UJ = Not detected at or above estimated concentration shown
DUP = Duplicate Sample
NS = No screening criteria available

File directly from AECOM. 2015. Final Regional Compliance Restoration Program Preliminary Assessment/Site Inspection, Gabreski Air National Guard Base, Westhampton Beach, New York. July 2015.

Table 3-2
Soil Sample Analytical Results, Remedial Investigation
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

Analyte	CAS Number	2016 USEPA Res RSL[a]	6 NYCRR Part 375 Unrestricted Use SCO[b]	NYSDEC CP-51 Residential Supplemental SCO[c]	PAL[d]		Location ID:	GB-TU014-MW001		GB-TU014-MW001		GB-TU014-MW001		GB-TU014-MW002		GB-TU014-MW002		GB-TU014-MW003		GB-TU014-MW003		GB-TU014-SB001		GB-TU014-SB001		GB-TU014-SB002		GB-TU014-SB002	
							Field Sample ID:	GB-TU014-MW001-S0103		GB-TU014-MW001-S3335		GB-TU014-MW001-S3335-D		GB-TU014-MW002-S0608		GB-TU014-MW002-S1012		GB-TU014-MW003-S0608		GB-TU014-MW003-S3335		GB-TU014-SB001-S0103		GB-TU014-SB001-S3234		GB-TU014-SB002-S0608		GB-TU014-SB002-S1416	
							Date:	5/4/2016		5/4/2016		5/4/2016		5/4/2016		5/4/2016		5/5/2016		5/5/2016		5/5/2016		5/5/2016		5/5/2016		5/5/2016	
							Lab Sample ID:	280-82932-3		280-82932-4		280-82932-5		280-82932-1		280-82932-2		280-82932-6		280-82932-7		280-82932-8		280-82932-9		280-82932-11		280-82932-12	
							Depth (ft bgs):	1 - 3		33 - 35		33 - 35		6 - 8		10 - 12		6 - 8		33 - 35		1 - 3		32 - 34		6 - 8		14 - 16	
VOCs by 8260C																													
1,1,1-Trichloroethane	71-55-6	8100	0.68	NP	0.68	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
1,1,2,2-Tetrachloroethane	79-34-5	0.6	NP	35	35	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	UJ	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	UJ	0.001	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	40000	NP	100	100	mg/kg		0.0052	U	0.09	U	0.1	U	0.0048	U	0.0047	U	0.0048	U	0.13	U	0.0048	U	0.053	U	0.0048	U	0.0052	U
1,1,2-Trichloroethane	79-00-5	1.1	NP	NP	1.1	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
1,1-Dichloroethane	75-34-3	3.6	0.27	NP	0.27	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
1,1-Dichloroethene	75-35-4	230	0.33	NP	0.33	mg/kg		0.0052	U	0.09	U	0.1	U	0.0048	U	0.0047	U	0.0048	U	0.13	U	0.0048	U	0.053	U	0.0048	U	0.0052	U
1,2,3-Trichlorobenzene	87-61-6	63	NP	80	80	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	UJ	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	UJ	0.001	U
1,2,4-Trichlorobenzene	120-82-1	24	NP	NP	24	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	UJ	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	UJ	0.001	U
1,2,4-Trimethylbenzene	95-63-6	58	3.6	NP	3.6	mg/kg		0.001	U	**77**	J+	**100**	J+	0.00095	UJ	0.00094	U	0.00097	U	**72**	J+	0.00096	U	**14**	J+	0.00097	UJ	0.001	U
1,2-Dibromo-3-chloropropane	96-12-8	0.0053	NP	NP	0.0053	mg/kg		0.0052	U	0.23	U	0.26	U	0.0048	UJ	0.0047	U	0.0048	U	0.33	U	0.0048	U	0.13	U	0.0048	UJ	0.0052	U
1,2-Dibromoethane	106-93-4	0.036	NP	NP	0.036	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
1,2-Dichlorobenzene	95-50-1	1800	1.1	NP	1.1	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	UJ	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	UJ	0.001	U
1,2-Dichloroethane	107-06-2	0.46	0.02	NP	0.02	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
1,2-Dichloroethene, Total	540-59-0	NP	NP	NP	NP	mg/kg		0.0021	U	0.09	U	0.1	U	0.0019	U	0.0019	U	0.0019	U	0.13	U	0.0019	U	0.053	U	0.0019	U	0.0021	U
1,2-Dichloropropane	78-87-5	1	NP	NP	1	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
1,3,5-Trimethylbenzene	108-67-8	780	8.4	NP	8.4	mg/kg		0.001	U	**30**	J+	**45**	J+	0.00095	UJ	0.00094	U	0.00097	U	**28**	J+	0.00096	U	**6.4**	J+	0.00097	UJ	0.001	U
1,3-Dichlorobenzene	541-73-1	NP	2.4	NP	2.4	mg/kg		0.001	U	0.048	J+	0.069	U	0.00095	UJ	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.025	U	0.00097	UJ	0.001	U
1,4-Dichlorobenzene	106-46-7	2.6	1.8	NP	1.8	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	UJ	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	UJ	0.001	U
2-Butanone (MEK)	78-93-3	27000	0.12	100	0.12	mg/kg		0.0052	U	0.23	U	0.26	U	0.0048	U	0.0047	U	0.0048	U	0.33	U	0.0048	U	0.13	U	0.0048	U	0.0052	U
2-Hexanone	591-78-6	200	NP	NP	200	mg/kg		0.0052	U	0.09	U	0.1	U	0.0048	U	0.0047	U	0.0048	U	0.13	U	0.0048	U	0.053	U	0.0048	U	0.0052	U
4-Methyl-2-pentanone (MIBK)	108-10-1	33000	NP	NP	33000	mg/kg		0.0052	U	0.09	U	0.1	U	0.0048	U	0.0047	U	0.0048	U	0.13	U	0.0048	U	0.053	U	0.0048	U	0.0052	U
Acetone	67-64-1	61000	0.05	NP	0.05	mg/kg		**0.029**		0.23	U	0.26	U	**0.027**	J+	**0.044**		**0.023**		0.33	U	0.0096	U	0.13	U	**0.026**	J+	**0.017**	J
Benzene	71-43-2	1.2	0.06	NP	0.06	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Bromobenzene	108-86-1	290	NP	NP	290	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	UJ	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	UJ	0.001	U
Bromodichloromethane	75-27-4	0.29	NP	NP	0.29	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Bromoform	75-25-2	19	NP	NP	19	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	UJ	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	UJ	0.001	U
Bromomethane	74-83-9	6.8	NP	NP	6.8	mg/kg		0.0052	U	0.09	U	0.1	U	0.0048	U	0.0047	U	0.0048	U	0.13	U	0.0048	U	0.053	U	0.0048	U	0.0052	U
Carbon disulfide	75-15-0	770	NP	100	100	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Carbon tetrachloride	56-23-5	0.65	0.76	NP	0.76	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Chlorobenzene	108-90-7	280	1.1	NP	1.1	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Chloroethane	75-00-3	14000	NP	NP	14000	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Chloroform	67-66-3	0.32	0.37	NP	0.37	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	**0.017**	J+	0.00097	U	0.001	U
Chloromethane	74-87-3	110	NP	NP	110	mg/kg		0.0052	U	0.09	U	0.1	U	0.0048	U	0.0047	U	0.0048	U	0.13	U	0.0048	U	0.053	U	0.0048	U	0.0052	U
cis-1,2-Dichloroethene	156-59-2	160	0.25	NP	0.25	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
cis-1,3-Dichloropropene	10061-01-5	1.8	NP	NP	1.8	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Cyclohexane	110-82-7	6500	NP	NP	6500	mg/kg		0.001	U	**2.5**	J+	**3.7**	J+	0.00095	U	0.00094	U	0.00097	U	**0.35**	J+	0.00096	U	**1.6**	J+	0.00097	U	0.001	U
Dibromochloromethane	124-48-1	8.3	NP	NP	8.3	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Dichlorodifluoromethane	75-71-8	87	NP	NP	87	mg/kg		0.0052	U	0.09	U	0.1	U	0.0048	U	0.0047	U	0.0048	U	0.13	U	0.0048	U	0.053	U	0.0048	U	0.0052	U
Ethylbenzene	100-41-4	5.8	1	NP	1	mg/kg		0.001	U	**8.9**	J+	**14**	J+	0.00095	U	0.00094	U	0.00097	U	**0.94**	J+	0.00096	U	**7.2**	J+	0.00097	U	0.001	U
Isopropylbenzene (Cumene)	98-82-8	1900	NP	100	100	mg/kg		0.001	U	**6.4**	J+	**9.3**	J+	0.00095	UJ	0.00094	U	0.00097	U	**1.9**	J+	0.00096	U	**5.2**	J+	0.00097	UJ	0.001	U
m,p-Xylene	179601-23-1	550	0.26	NP	0.26	mg/kg		0.0021	U	**50**	J+	**82**	J+	0.0019	U	0.0019	U	0.0019	U	**46**	J+	0.0019	U	**3**	J+	0.0019	U	0.0021	U
Methyl acetate	79-20-9	78000	NP	NP	78000	mg/kg		0.0052	U	0.23	U	0.26	U	0.0048	U	0.0047	U	0.0048	U	0.33	U	0.0048	U	0.13	U	0.0048	U	0.0052	U
Methyl tert-butyl ether	1634-04-4	47	0.93	NP	0.93	mg/kg		0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Methylcyclohexane	108-87-2	NP	NP	NP	NP	mg/kg		0.001	U	**36**	J+	**53**	J+	0.00095	U	0.00094	U	0.00097	U	**45**	J+	0.00096	U	**8.2**	J+	0.00097	U	0.001	U
Methylene chloride	75-09-2	57	0.05	NP	0.05	mg/kg		0.0052	U	0.23	U	0.26	U	0.0048	U	0.0047	U	0.0048	U	0.33	U	0.0048	U	0.13	U	**0.011**	J+	0.0052	U

Table 3-2
Soil Sample Analytical Results, Remedial Investigation
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

Analyte	CAS Number	2016 USEPA Res RSL[a]	6 NYCRR Part 375 Unrestricted Use SCO[b]	NYSDEC CP-51 Residential Supplemental SCO[c]	PAL[d]		Location ID:	GB-TU014-MW001		GB-TU014-MW001		GB-TU014-MW001		GB-TU014-MW002		GB-TU014-MW002		GB-TU014-MW003		GB-TU014-MW003		GB-TU014-SB001		GB-TU014-SB001		GB-TU014-SB002		GB-TU014-SB002	
							Field Sample ID:	GB-TU014-MW001-S0103		GB-TU014-MW001-S3335		GB-TU014-MW001-S3335-D		GB-TU014-MW002-S0608		GB-TU014-MW002-S1012		GB-TU014-MW003-S0608		GB-TU014-MW003-S3335		GB-TU014-SB001-S0103		GB-TU014-SB001-S3234		GB-TU014-SB002-S0608		GB-TU014-SB002-S1416	
							Date:	5/4/2016		5/4/2016		5/4/2016		5/4/2016		5/4/2016		5/5/2016		5/5/2016		5/5/2016		5/5/2016		5/5/2016		5/5/2016	
							Lab Sample ID:	280-82932-3		280-82932-4		280-82932-5		280-82932-1		280-82932-2		280-82932-6		280-82932-7		280-82932-8		280-82932-9		280-82932-11		280-82932-12	
							Depth (ft bgs):	1 - 3		33 - 35		33 - 35		6 - 8		10 - 12		6 - 8		33 - 35		1 - 3		32 - 34		6 - 8		14 - 16	
Naphthalene	91-20-3	3.8	12	NP	12	mg/kg	0.001	U	**11**	J	**16**	J	0.00095	UJ	0.00094	U	0.00097	U	**1.8**	J+	0.00096	U	**6.5**	J	0.00097	UJ	0.001	U
n-Butylbenzene	104-51-8	3900	12	NP	12	mg/kg	0.001	U	**5.5**	J+	**8.3**	J+	0.00095	UJ	0.00094	U	0.00097	U	**3.1**	J+	0.00096	U	**4.6**	J+	0.00097	UJ	0.001	U
n-Propylbenzene	103-65-1	3800	3.9	NP	3.9	mg/kg	0.001	U	**10**	J+	**14**	J+	0.00095	UJ	0.00094	U	0.00097	U	**4**	J+	0.00096	U	**7.8**	J+	0.00097	UJ	0.001	U
o-Xylene	95-47-6	650	0.26	NP	0.26	mg/kg	0.001	U	**0.74**	J+	**1.1**	J+	0.00095	U	0.00094	U	0.00097	U	**0.89**	J+	0.00096	U	**0.64**	J+	0.00097	U	0.001	U
sec-Butylbenzene	135-98-8	7800	11	NP	11	mg/kg	0.001	U	**4.9**	J+	**7.1**	J+	0.00095	UJ	0.00094	U	0.00097	U	**2.6**	J+	0.00096	U	**4.1**	J+	0.00097	UJ	0.001	U
Styrene	100-42-5	6000	NP	NP	6000	mg/kg	0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
tert-Butylbenzene	98-06-6	7800	5.9	NP	5.9	mg/kg	0.001	U	**0.38**	J+	**0.56**	J+	0.00095	UJ	0.00094	U	0.00097	U	**0.18**	J+	0.00096	U	**0.29**	J+	0.00097	UJ	0.001	U
Tetrachloroethene	127-18-4	24	1.3	NP	1.3	mg/kg	0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Toluene	108-88-3	4900	0.7	NP	0.7	mg/kg	0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	**0.072**	J+	0.00097	U	0.001	U
trans-1,2-Dichloroethene	156-60-5	1600	0.19	NP	0.19	mg/kg	0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
trans-1,3-Dichloropropene	10061-02-6	1.8	NP	NP	1.8	mg/kg	0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Trichloroethene	79-01-6	0.94	0.47	NP	0.47	mg/kg	0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Trichlorofluoromethane	75-69-4	23000	NP	NP	23000	mg/kg	0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Vinyl chloride	75-01-4	0.059	0.02	NP	0.02	mg/kg	0.001	U	0.09	U	0.1	U	0.00095	U	0.00094	U	0.00097	U	0.13	U	0.00096	U	0.053	U	0.00097	U	0.001	U
Xylenes, Total	1330-20-7	580	0.26	NP	0.26	mg/kg	0.0052	U	**51**	J+	**83**	J+	0.0048	U	0.0047	U	0.0048	U	**47**	J+	0.0048	U	**3.2**	J+	0.0048	U	0.0052	U
SVOCs by 8270D																												
1,2,4,5-Tetrachlorobenzene	95-94-3	23	NP	NP	23	mg/kg	0.13	U	0.16	U	0.16	U	0.13	U	0.14	U	0.14	U	0.15	U	0.13	U	0.15	U	0.14	U	0.13	U
1,2,4-Trichlorobenzene	120-82-1	24	NP	NP	24	mg/kg	0.068	U	0.079	U	0.078	U	0.066	U	0.069	U	0.07	U	0.077	U	0.066	U	0.074	U	0.069	U	0.068	U
1,2-Dichlorobenzene	95-50-1	1,800	1.1	NP	1.1	mg/kg	0.068	U	0.079	U	0.078	U	0.066	U	0.069	U	0.07	U	0.077	U	0.066	U	0.074	U	0.069	U	0.068	U
1,2-Diphenylhydrazine	122-66-7	0.68	NP	NP	0.68	mg/kg	0.068	U	0.079	U	0.078	U	0.066	U	0.069	U	0.07	U	0.077	U	0.066	U	0.074	U	0.069	U	0.068	U
1,3-Dichlorobenzene	541-73-1	NP	2.4	NP	2.4	mg/kg	0.033	U	0.039	U	0.039	U	0.033	U	0.034	U	0.034	U	0.038	U	0.032	U	**0.037**	J+	0.034	U	0.033	U
1,4-Dichlorobenzene	106-46-7	2.6	1.8	NP	1.8	mg/kg	0.033	U	0.039	U	0.039	U	0.033	U	0.034	U	0.034	U	0.038	U	0.032	U	0.037	U	0.034	U	0.033	U
2,2'-Oxybis(1-chloropropane)	108-60-1	3100	NP	NP	3100	mg/kg	0.068	U	0.079	U	0.078	U	0.066	U	0.069	U	0.07	U	0.077	U	0.066	U	0.074	U	0.069	U	0.068	U
2,4,5-Trichlorophenol	95-95-4	6,300	NP	100	100	mg/kg	0.033	U	0.039	U	0.039	U	0.033	U	0.034	U	0.034	U	0.038	U	0.032	U	0.037	U	0.034	U	0.033	U
2,4,6-Trichlorophenol	88-06-2	49	NP	NP	49	mg/kg	0.033	U	0.039	U	0.039	U	0.033	U	0.034	U	0.034	U	0.038	U	0.032	U	0.037	U	0.034	U	0.033	U
2,4-Dichlorophenol	120-83-2	190	NP	100	100	mg/kg	0.033	U	0.039	U	0.039	U	0.033	U	0.034	U	0.034	U	0.038	U	0.032	U	0.037	U	0.034	U	0.033	U
2,4-Dimethylphenol	105-67-9	1,300	NP	NP	1300	mg/kg	0.13	U	0.16	U	0.16	U	0.13	U	0.14	U	0.14	U	0.15	U	0.13	U	0.15	U	0.14	U	0.13	U
2,4-Dinitrophenol	51-28-5	130	NP	100	100	mg/kg	1	U	1.2	U	1.2	U	0.99	U	1	U	1	U	1.1	U	0.98	U	1.1	U	1	U	1	U
2,4-Dinitrotoluene	121-14-2	1.7	NP	NP	1.7	mg/kg	0.13	U	0.16	U	0.16	U	0.13	U	0.14	U	0.14	U	0.15	U	0.13	U	0.15	U	0.14	U	0.13	U
2,6-Dichlorophenol	87-65-0	NP	NP	NP	NP	mg/kg	0.17	U	0.2	U	0.2	U	0.16	U	0.17	U	0.17	U	0.19	U	0.16	U	0.19	U	0.17	U	0.17	U
2,6-Dinitrotoluene	606-20-2	0.36	NP	1.03	1.03	mg/kg	0.068	U	0.079	U	0.078	U	0.066	U	0.069	U	0.07	U	0.077	U	0.066	U	0.074	U	0.069	U	0.068	U
2-Chloronaphthalene	91-58-7	4,800	NP	NP	4800	mg/kg	0.033	U	0.039	U	0.039	U	0.033	U	0.034	U	0.034	U	0.038	U	0.032	U	0.037	U	0.034	U	0.033	U
2-Chlorophenol	95-57-8	390	100	NP	100	mg/kg	0.068	U	0.079	U	0.078	U	0.066	U	0.069	U	0.07	U	0.077	U	0.066	U	0.074	U	0.069	U	0.068	U
2-Methylnaphthalene	91-57-6	240	NP	0.41	0.41	mg/kg	0.068	U	**1.7**	J	**3.1**	J	0.066	U	0.069	U	0.07	U	**9.2**		0.066	U	**1.9**		0.069	U	0.068	U
2-Methylphenol	95-48-7	3,200	0.33	NP	0.33	mg/kg	0.033	U	0.039	U	0.039	U	0.033	U	0.034	U	0.034	U	0.038	U	0.032	U	0.037	U	0.034	U	0.033	U
3 & 4 Methylphenol	782-60-0	NP	0.33	NP	0.33	mg/kg	0.068	U	0.079	U	0.078	U	0.066	U	0.069	U	0.07	U	0.077	U	0.066	U	0.074	U	0.069	U	0.068	U
3,3'-Dichlorobenzidine	91-94-1	1.2	NP	NP	1.2	mg/kg	0.27	U	0.31	U	0.31	U	0.26	U	0.27	U	0.28	U	0.31	U	0.26	U	0.3	U	0.28	U	0.27	U
3-Nitroaniline	99-09-2	NP	NP	NP	NP	mg/kg	0.27	U	0.31	U	0.31	U	0.26	U	0.27	U	0.28	U	0.31	U	0.26	U	0.3	U	0.28	U	0.27	U
4,6-Dinitro-2-methylphenol	534-52-1	5.1	NP	NP	5.1	mg/kg	1	U	1.2	U	1.2	U	0.99	U	1	U	1	U	1.1	U	0.98	U	1.1	U	1	U	1	U
4-Chloroaniline	106-47-8	2.7	NP	100	100	mg/kg	0.27	U	0.31	U	0.31	U	0.26	U	0.27	U	0.28	U	0.31	U	0.26	U	0.3	U	0.28	U	0.27	U
4-Chlorophenyl-phenylether	7005-72-3	NP	NP	NP	NP	mg/kg	0.068	U	0.079	U	0.078	U	0.066	U	0.069	U	0.07	U	0.077	U	0.066	U	0.074	U	0.069	U	0.068	U
4-Nitroaniline	100-01-6	27	NP	NP	27	mg/kg	0.27	U	0.31	U	0.31	U	0.26	U	0.27	U	0.28	UJ	0.31	U	0.26	U	0.3	U	0.28	U	0.27	U
4-Nitrophenol	100-02-7	NP	NP	NP	NP	mg/kg	0.27	U	0.31	U	0.31	U	0.26	U	0.27	U	0.28	U	0.31	U	0.26	U	0.3	U	0.28	U	0.27	U

Table 3-2
Soil Sample Analytical Results, Remedial Investigation
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

Analyte	CAS Number	2016 USEPA Res RSL[a]	6 NYCRR Part 375 Unrestricted Use SCO[b]	NYSDEC CP-51 Residential Supplemental SCO[c]	PAL[d]		Location ID:	GB-TU014-MW001	GB-TU014-MW001	GB-TU014-MW001	GB-TU014-MW002	GB-TU014-MW002	GB-TU014-MW003	GB-TU014-MW003	GB-TU014-SB001	GB-TU014-SB001	GB-TU014-SB002	GB-TU014-SB002
							Field Sample ID:	GB-TU014-MW001-S0103	GB-TU014-MW001-S3335	GB-TU014-MW001-S3335-D	GB-TU014-MW002-S0608	GB-TU014-MW002-S1012	GB-TU014-MW003-S0608	GB-TU014-MW003-S3335	GB-TU014-SB001-S0103	GB-TU014-SB001-S3234	GB-TU014-SB002-S0608	GB-TU014-SB002-S1416
							Date:	5/4/2016	5/4/2016	5/4/2016	5/4/2016	5/4/2016	5/5/2016	5/5/2016	5/5/2016	5/5/2016	5/5/2016	5/5/2016
							Lab Sample ID:	280-82932-3	280-82932-4	280-82932-5	280-82932-1	280-82932-2	280-82932-6	280-82932-7	280-82932-8	280-82932-9	280-82932-11	280-82932-12
							Depth (ft bgs):	1 - 3	33 - 35	33 - 35	6 - 8	10 - 12	6 - 8	33 - 35	1 - 3	32 - 34	6 - 8	14 - 16
Acenaphthene	83-32-9	3,600	20	NP	20	mg/kg	0.033 U	**0.046** J	**0.092** J	0.033 U	0.034 U	0.034 U	**0.21** J	0.032 U	**0.11** J	0.034 U	0.033 U
Acenaphthylene	208-96-8	NP	100	NP	100	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Anthracene	120-12-7	18,000	100	NP	100	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	**0.036** J	0.066 U	0.074 U	0.069 U	0.068 U
Benzidine	92-87-5	0.00053	NP	NP	0.00053	mg/kg	2 U	2.4 U	2.3 U	2 U	2 U	2.1 R	2.3 U	2 U	2.2 U	2.1 U	2 U
Benzo(a)anthracene	56-55-3	0.16	1	NP	1	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Benzo(a)pyrene	50-32-8	0.016	1	NP	1	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Benzo(b)fluoranthene	205-99-2	0.16	1	NP	1	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Benzo(g,h,i)perylene	191-24-2	NP	100	NP	100	mg/kg	0.033 U	0.039 U	0.039 U	0.033 U	0.034 U	0.034 U	0.038 U	0.032 U	0.037 U	0.034 U	0.033 U
Benzo(k)fluoranthene	207-08-9	1.6	0.8	NP	0.8	mg/kg	0.13 U	0.16 U	0.16 U	0.13 U	0.14 U	0.14 U	0.15 U	0.13 U	0.15 U	0.14 U	0.13 U
Benzoic acid	65-85-0	250,000	NP	NP	100	mg/kg	1 U	1.2 U	1.2 U	0.99 U	1 U	1 U	1.1 U	0.98 U	1.1 U	1 U	1 U
Benzyl alcohol	100-51-6	6,300	NP	NP	6300	mg/kg	0.033 U	0.039 U	0.039 U	0.033 U	0.034 U	0.034 U	0.38 U	0.032 U	0.037 U	0.034 U	0.033 U
Bis(2-chloroethoxy)methane	111-91-1	190	NP	NP	190	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Bis(2-chloroethyl)ether	111-44-4	0.23	NP	NP	0.23	mg/kg	0.033 U	0.039 U	0.039 U	0.033 U	0.034 U	0.034 U	0.038 U	0.032 U	0.037 U	0.034 U	0.033 U
Bis(2-ethylhexyl)phthalate	117-81-7	39	NP	50	50	mg/kg	0.13 U	0.16 U	**0.058** J	0.13 U	0.14 U	0.14 U	0.15 U	0.13 U	0.15 U	0.14 U	0.13 U
Butylbenzylphthalate	85-68-7	290	NP	100	100	mg/kg	0.13 U	0.16 U	0.16 U	0.13 U	0.14 U	0.14 U	0.15 U	0.13 U	0.15 U	0.14 U	0.13 U
Carbazole	86-74-8	NP	NP	NP	NP	mg/kg	0.13 U	0.16 U	0.16 U	0.13 U	0.14 U	0.14 U	0.15 U	0.13 U	0.15 U	0.14 U	0.13 U
Chrysene	218-01-9	16	1	NP	1	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Dibenz(a,h)anthracene	53-70-3	0.016	0.33	NP	0.33	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Dibenzofuran	132-64-9	73	NP	NP	73	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Diethylphthalate	84-66-2	51,000	NP	100	100	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Dimethylphthalate	131-11-3	NP	NP	100	100	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Di-n-butylphthalate	84-74-2	6,300	NP	100	100	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Di-n-octylphthalate	117-84-0	630	NP	100	100	mg/kg	0.067 U	0.078 U	0.077 U	0.065 U	0.068 U	0.069 U	0.075 U	0.065 U	0.073 U	0.068 U	0.067 U
Fluoranthene	206-44-0	2,400	100	NP	100	mg/kg	0.13 U	0.16 U	0.16 U	0.13 U	0.14 U	0.14 U	0.15 U	0.13 U	0.15 U	0.14 U	0.13 U
Fluorene	86-73-7	2,400	30	NP	30	mg/kg	0.068 U	**0.048** J	**0.085** J	0.066 U	0.069 U	0.07 U	**0.24** J	0.066 U	**0.098** J	0.069 U	0.068 U
Hexachlorobenzene	118-74-1	0.21	0.33	0.41	0.33	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Hexachlorobutadiene	87-68-3	1.2	NP	NP	1.2	mg/kg	0.033 U	0.039 U	0.039 U	0.033 U	0.034 U	0.034 U	0.038 U	0.032 U	0.037 U	0.034 U	0.033 U
Hexachlorocyclopentadiene	77-47-4	1.8	NP	NP	1.8	mg/kg	0.13 U	0.16 U	0.16 U	0.13 U	0.14 U	0.14 U	0.15 U	0.13 U	0.15 U	0.14 U	0.13 U
Hexachloroethane	67-72-1	1.8	NP	NP	1.8	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	0.5	NP	0.5	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Isophorone	78-59-1	570	NP	100	100	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Naphthalene	91-20-3	3.8	12	NP	12	mg/kg	0.068 U	**0.54** J+	**1.1** J+	0.066 U	0.069 U	0.07 U	**2.9**	0.066 U	**0.26** J+	0.069 U	0.068 U
Nitrobenzene	98-95-3	5.1	NP	3.7	3.7	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
N-Nitrosodimethylamine	62-75-9	0.002	NP	NP	0.002	mg/kg	0.13 U	0.16 U	0.16 U	0.13 U	0.14 U	0.14 U	0.15 U	0.13 U	0.15 U	0.14 U	0.13 U
N-Nitroso-di-n-propylamine	621-64-7	0.078	NP	NP	0.078	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
N-Nitrosodiphenylamine	86-30-6	110	NP	NP	110	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
N-Nitrosopyrrolidine	930-55-2	0.26	NP	NP	0.26	mg/kg	0.17 R	0.2 R	0.2 R	0.16 R	0.17 R	0.17 R	0.19 U	0.16 R	0.19 R	0.17 R	0.17 R
Pentachlorophenol	87-86-5	1	0.8	NP	0.8	mg/kg	1 U	1.2 U	1.2 U	0.99 U	1 U	1 U	1.1 U	0.98 U	1.1 U	1 U	1 U
Phenanthrene	85-01-8	NP	100	NP	100	mg/kg	0.068 U	**0.05** J	**0.094** J	0.066 U	0.069 U	0.07 U	**0.24** J	0.066 U	**0.11** J	0.069 U	0.068 U
Phenol	108-95-2	19000	0.33	NP	0.33	mg/kg	0.068 U	0.079 U	0.078 U	0.066 U	0.069 U	0.07 U	0.077 U	0.066 U	0.074 U	0.069 U	0.068 U
Pyrene	129-00-0	1800	100	NP	100	mg/kg	**0.018** J	0.039 U	0.039 U	0.033 U	0.034 U	0.034 U	**0.023** J	**0.018** J	**0.021** J	0.034 U	0.033 U

Table 3-2
Soil Sample Analytical Results, Remedial Investigation
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

Notes:
Bold indicates value above laboratory detection limit.
Shading indicates value above PAL.

PAL References:
[a] USEPA May 2016 Residential RSL (THQ=1, TR = 1E-06) (http://www2.epa.gov/risk/risk-based-screening-table-generic-tables)
[b] 6 NYCRR Part 375, December 2006 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/part375.pdf)
[c] NYSDEC CP-51 Soil Cleanup Guidance, October 2010 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/cpsoil.pdf)
[d] Soil PALs were selected as the minimum value of the 6 NYCRR Part 375 Unrestricted Use SCOs and the NYSDEC CP-51 Residential Supplemental SCOs. USEPA May 2016 RSLs based on target hazard quotient of 1 and target risk of 1E-06 were used as the PAL for analytes that do not have a published SCO.

Data Flags:
J – Result is estimated.
J+ - Result is estimated, High Bias.
R - Rejected.
U – Analyte is not detected at or above the Limit of Detection.
UJ – Analyte is not detected, but there is uncertainty concerning the reported value.

CAS - Chemical Abstracts Service
CP - Commissioner Policy
D - duplicate sample
ft bgs - feet below ground surface
GB - Gabreski Air National Guard Base
ID - identification
mg/kg - milligram per kilogram
MW - monitoring well
NP - not published
NYCRR - New York Codes, Rules, and Regulations
NYSDEC - New York State Department of Environmental Conservation
PAL - project action level
RSL - Regional Screening Level
SCO - Soil Cleanup Objective
SB - soil boring
SVOC - semivolatile organic compound
TU014 - Former Underground Storage Tanks at Former Building 218
USEPA - U.S. Environmental Protection Agency
VOC - volatile organic compound

Table 3-3
Groundwater Sample Analytical Results, Site Inspection
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

Location	NYSDEC TOGS - Drinking Water	MCL	RSL - Tapwater	TU014	
Sample ID				TU14GW15	TU14GW20
Sample Date				9/23/2014	9/24/2014
Media				Groundwater	Groundwater
VOCs (µg/L)					
1,2,4-Trimethylbenzene	***5***	NS	15	0.5 U	**160**
1,2-Dichlorobenzene	***3***	600	300	0.2 U	0.45 J
1,3,5-Trimethylbenzene	***5***	NS	120	0.5 U	**41**
1,3-Dichlorobenzene	***3***	NS	NS	0.2 U	0.16 J
4-Isopropyltoluene	***5***	NS	NS	0.5 U	**5.4**
Carbon Disulfide	NS	NS	***810***	0.43 J	0.44 J
Ethylbenzene	***5***	700	1.5	0.2 U	**110**
Isopropylbenzene	***5***	NS	450	0.5 U	**24**
Naphthalene	***10***	NS	0.17	0.5 U	**63**
n-Propylbenzene	***5***	NS	660	0.5 U	**27**
sec-Butylbenzene	***5***	NS	2000	0.5 U	**5.5**
tert-Butylbenzene	***5***	NS	690	0.5 U	0.64 J
Toluene	***5***	1000	1100	0.37 J	0.51 J
Xylene, Meta + Para	NS	NS	NS	0.4 U	390
Xylene, Ortho	***5***	NS	190	0.5 U	3.9
SVOCs (µg/L)					
1,2-Dichlorobenzene	***3***	600	300	0.1 U	0.25 J
1,3-Dichlorobenzene	***3***	NS	NS	0.1 U	0.1 J
1,4-Dichlorobenzene	***3***	75	0.48	0.05 U	0.1 J
2,4-Dimethylphenol	***2***	NS	360	0.5 U	0.56 J
2-Methylnaphthalene	NS	NS	***36***	0.052 J	7.9
2-Methylphenol	NS	NS	***930***	0.2 U	0.28 J
3+4-Methylphenol	NS	NS	***930***	0.2 U	1.3 J
Acenaphthene	***20***	NS	530	0.1 U	0.13 J
Acenaphthylene	NS	NS	NS	0.05 U	0.062 J
Benzoic Acid	NS	NS	***75000***	2.7 J	2 U
Benzyl Alcohol	NS	NS	***2000***	0.1 U	0.2 J
Butyl Benzyl Phthalate	***50***	NS	16	0.094 J	0.16 J
Dibenzofuran	NS	NS	***7.9***	0.1 U	0.19 J
Diethyl Phthalate	***50***	NS	15000	0.21 J	0.26 J
Dimethyl Phthalate	***50***	NS	NS	0.062 J	0.1 U
Di-n-butyl Phthalate	***50***	NS	900	0.32 J	0.86 J
Fluorene	***50***	NS	290	0.1 U	0.21 J
Isophorone	***50***	NS	78	0.1 U	0.12 J
Naphthalene	***10***	NS	0.17	0.1 J	**21**
Phenanthrene	***50***	NS	NS	0.1 U	0.12 J
Phenol	***2***	NS	5800	0.073 J	0.1 U

Notes: Only compounds detected one or more times are presented in this table
Italicized and bolded value indicates screening criterion used
Highlighted cell indicates analyte was detected
Bold value indicates analyte detected above screening level
µg/L = micrograms per liter

Data Qualifiers: J = Estimated concentration
U = Not detected at or above concentration shown
NS = No screening criteria available

File directly from AECOM. 2015. Final Regional Compliance Restoration Program Preliminary Assessment/Site Inspection, Gabreski Air National Guard Base, Westhampton Beach, New York. July 2015.

Table 3-4
Groundwater Sample Analytical Results, Remedial Investigation
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

	CAS Number	2016 USEPA Tapwater RSL[a]	MCL[b]	6 NYCRR Part 703 Drinking Water[c]	PAL[d]	Location ID:	GB-TU014-MW001		GB-TU014-MW001		GB-TU014-MW002		GB-TU014-MW003	
						Field Sample ID:	GB-TU014-MW001-G-1		GB-TU014-MW001-G-1-D		GB-TU014-MW002-G-1		GB-TU014-MW003-G-1	
						Lab Sample ID:	280-82997-3		280-82997-4		280-82997-1		280-82997-2	
						Date:	5/6/2016		5/6/2016		5/6/2016		5/6/2016	
						Screened interval:	35-45 ft bgs		35-45 ft bgs		35-45 ft bgs		35-45 ft bgs	
VOCs by 8260C														
1,1,1-Trichloroethane	71-55-6	8000	200	5	5	µg/L	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	79-34-5	0.076	NP	5	5	µg/L	2	U	2	U	2	U	2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	55000	NP	5	5	µg/L	2	U	2	U	2	U	2	U
1,1,2-Trichloroethane	79-00-5	0.28	5	1	1	µg/L	1	U	1	U	1	U	1	U
1,1-Dichloroethane	75-34-3	2.8	NP	5	5	µg/L	1	U	1	U	1	U	1	U
1,1-Dichloroethene	75-35-4	280	7	5	5	µg/L	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	87-61-6	7	NP	5	5	µg/L	2	U	2	U	2	U	2	U
1,2,4-Trichlorobenzene	120-82-1	1.2	70	5	5	µg/L	2	U	2	U	2	U	2	U
1,2,4-Trimethylbenzene	95-63-6	15	NP	5	5	µg/L	**390**	J	**400**	J	**27**		**260**	J
1,2-Dibromo-3-chloropropane	96-12-8	0.00033	0.2	0.04	0.04	µg/L	2	U	2	U	2	U	2	U
1,2-Dibromoethane	106-93-4	0.0075	0.05	0.0006	0.0006	µg/L	2	U	2	U	2	U	2	U
1,2-Dichlorobenzene	95-50-1	300	600	3	3	µg/L	**0.86**	J	**0.78**	J	2	U	**0.55**	J
1,2-Dichloroethane	107-06-2	0.17	5	0.6	0.6	µg/L	1	U	1	U	1	U	1	U
1,2-Dichloroethene, Total	540-59-0	NP	NP	5	5	µg/L	2	U	2	U	2	U	2	U
1,2-Dichloropropane	78-87-5	0.44	5	1	1	µg/L	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	108-67-8	120	NP	5	5	µg/L	**120**		**120**		**8.7**		**96**	
1,3-Dichlorobenzene	541-73-1	NP	NP	3	3	µg/L	**0.44**	J	**0.35**	J	2	U	2	U
1,4-Dichlorobenzene	106-46-7	0.48	75	3	3	µg/L	**0.49**	J	**0.45**	J	2	U	2	U
2-Butanone (MEK)	78-93-3	5600	NP	50	50	µg/L	5	U	5	U	5	U	5	U
2-Hexanone	591-78-6	38	NP	50	50	µg/L	2	U	2	U	2	U	2	U
4-Methyl-2-pentanone (MIBK)	108-10-1	6300	NP	NP	6300	µg/L	2	U	2	U	2	U	2	U
Acetone	67-64-1	14000	NP	50	50	µg/L	10	U	10	U	10	U	10	U
Benzene	71-43-2	0.46	5	1	1	µg/L	1	U	1	U	1	U	1	U
Bromobenzene	108-86-1	62	NP	5	5	µg/L	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	0.13	80	50	50	µg/L	2	U	2	U	2	U	2	U
Bromoform	75-25-2	3.3	80	50	50	µg/L	1	U	1	U	1	U	1	U
Bromomethane	74-83-9	7.5	NP	5	5	µg/L	2	U	2	U	2	U	2	U
Carbon disulfide	75-15-0	810	NP	NP	810	µg/L	1	U	1	U	1	U	1	U
Carbon tetrachloride	56-23-5	0.46	5	5	5	µg/L	1	U	1	U	1	U	1	U
Chlorobenzene	108-90-7	78	100	5	5	µg/L	1	U	1	U	1	U	1	U
Chloroethane	75-00-3	21000	NP	5	5	µg/L	1	U	1	U	1	U	1	U
Chloroform	67-66-3	0.22	80	7	7	µg/L	1	U	1	U	1	U	1	U
Chloromethane	74-87-3	190	NP	5	5	µg/L	2	U	2	U	2	U	2	U
cis-1,2-Dichloroethene	156-59-2	36	70	5	5	µg/L	1	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	10061-01-5	0.47	NP	0.4	0.4	µg/L	1	U	1	U	1	U	1	U
Cyclohexane	110-82-7	13000	NP	NP	13000	µg/L	**21**	J	**22**	J	**1.2**	J	**12**	J
Dibromochloromethane	124-48-1	0.87	80	50	50	µg/L	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	75-71-8	200	NP	5	5	µg/L	2	U	2	U	2	U	2	U
Ethylbenzene	100-41-4	1.5	700	5	5	µg/L	**130**		**130**		**26**		**120**	

Table 3-4
Groundwater Sample Analytical Results, Remedial Investigation
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

	CAS Number	2016 USEPA Tapwater RSL[a]	MCL[b]	6 NYCRR Part 703 Drinking Water[c]	PAL[d]	Location ID:	GB-TU014-MW001		GB-TU014-MW001		GB-TU014-MW002		GB-TU014-MW003	
						Field Sample ID:	GB-TU014-MW001-G-1		GB-TU014-MW001-G-1-D		GB-TU014-MW002-G-1		GB-TU014-MW003-G-1	
						Lab Sample ID:	280-82997-3		280-82997-4		280-82997-1		280-82997-2	
						Date:	5/6/2016		5/6/2016		5/6/2016		5/6/2016	
						Screened interval:	35-45 ft bgs		35-45 ft bgs		35-45 ft bgs		35-45 ft bgs	
Isopropylbenzene (Cumene)	98-82-8	450	NP	5	5	µg/L	**41**		**41**		**6.2**		**37**	
m,p-Xylene	179601-23-1	190	10000	5	5	µg/L	**620**	J	**630**	J	**59**		**410**	J
Methyl acetate	79-20-9	20000	NP	NP	20000	µg/L	5	U	5	U	5	U	5	U
Methyl tert-butyl ether	1634-04-4	14	NP	NP	14	µg/L	2	U	2	U	2	U	2	U
Methylcyclohexane	108-87-2	NP	NP	NP	NP	µg/L	**74**		**74**		**3**	J	**64**	
Methylene chloride	75-09-2	11	5	5	5	µg/L	5	U	5	U	5	U	5	U
Naphthalene	91-20-3	0.17	NP	10	10	µg/L	**100**		**100**		**11**		**92**	
n-Butylbenzene	104-51-8	1000	NP	5	5	µg/L	**7.7**	J	**9**	J	2	U	**5.6**	J
n-Propylbenzene	103-65-1	660	NP	5	5	µg/L	**54**		**55**		**8.4**		**47**	
o-Xylene	95-47-6	190	10000	5	5	µg/L	**12**	J	**11**	J	**1.2**	J	**10**	J
sec-Butylbenzene	135-98-8	2000	NP	5	5	µg/L	**11**	J	**9.7**	J	**1.4**	J	**9.5**	J
Styrene	100-42-5	1200	100	5	5	µg/L	1	U	1	U	1	U	1	U
tert-Butylbenzene	98-06-6	690	NP	5	5	µg/L	**1.3**	J	**1.2**	J	2	U	**0.95**	J
Tetrachloroethene	127-18-4	11	5	5	5	µg/L	1	U	1	U	1	U	1	U
Toluene	108-88-3	1100	1000	5	5	µg/L	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	156-60-5	360	100	5	5	µg/L	1	U	1	U	1	U	1	U
trans-1,3-Dichloropropene	10061-02-6	0.47	NP	0.4	0.4	µg/L	1	U	1	U	1	U	1	U
Trichloroethene	79-01-6	0.49	5	5	5	µg/L	1	U	1	U	1	U	1	U
Trichlorofluoromethane	75-69-4	5200	NP	5	5	µg/L	2	U	2	U	2	U	2	U
Vinyl chloride	75-01-4	0.019	2	2	2	µg/L	1	U	1	U	1	U	1	U
Xylenes, Total	1330-20-7	190	10000	5	5	µg/L	**630**		**640**		**60**		**420**	
SVOCs by 8270D														
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
1,2,4-Trichlorobenzene	120-82-1	1.2	70	5	5	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
1,2-Dichlorobenzene	95-50-1	300	600	3	3	µg/L	**0.71**	J	**0.81**	J	**0.22**	J	**0.5**	J
1,2-Diphenylhydrazine	122-66-7	0.078	NP	ND	0.078	µg/L	0.48	U	0.48	U	0.48	U	0.49	U
1,3-Dichlorobenzene	541-73-1	NP	NP	3	3	µg/L	**0.39**	J	**0.37**	J	0.95	U	0.96	U
1,4-Dichlorobenzene	106-46-7	0.48	75	3	3	µg/L	**0.39**	J	**0.42**	J	0.95	U	0.96	U
2,2'-Oxybis(1-chloro)propane	108-60-1	710	NP	5	5	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
2,4,5-Trichlorophenol	95-95-4	1200	NP	NP	1200	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
2,4,6-Trichlorophenol	88-06-2	4.1	NP	NP	4.1	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
2,4-Dichlorophenol	120-83-2	46	NP	NP	46	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
2,4-Dimethylphenol	105-67-9	360	NP	50	50	µg/L	**1.3**	J	**1.4**	J	1.9	U	1.9	U
2,4-Dinitrophenol	51-28-5	39	NP	10	10	µg/L	29	U	29	U	29	U	29	U
2,4-Dinitrotoluene	121-14-2	0.24	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
2,6-Dichlorophenol	87-65-0	NP	NP	NP	NP	µg/L	3.8	U	3.8	U	3.8	U	3.8	U
2,6-Dinitrotoluene	606-20-2	0.048	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
2-Chloronaphthalene	91-58-7	750	NP	10	10	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
2-Chlorophenol	95-57-8	91	NP	NP	91	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
2-Methylnaphthalene	91-57-6	36	NP	NP	36	µg/L	**41**		**48**		0.95	U	**45**	
2-Methylphenol	95-48-7	930	NP	NP	930	µg/L	1.9	U	1.9	U	1.9	U	1.9	U

Table 3-4
Groundwater Sample Analytical Results, Remedial Investigation
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

	CAS Number	2016 USEPA Tapwater RSL[a]	MCL[b]	6 NYCRR Part 703 Drinking Water[c]	PAL[d]	Location ID:	GB-TU014-MW001		GB-TU014-MW001		GB-TU014-MW002		GB-TU014-MW003	
						Field Sample ID:	GB-TU014-MW001-G-1		GB-TU014-MW001-G-1-D		GB-TU014-MW002-G-1		GB-TU014-MW003-G-1	
						Lab Sample ID:	280-82997-3		280-82997-4		280-82997-1		280-82997-2	
						Date:	5/6/2016		5/6/2016		5/6/2016		5/6/2016	
						Screened interval:	35-45 ft bgs		35-45 ft bgs		35-45 ft bgs		35-45 ft bgs	
3 & 4 Methylphenol	782-60-0	NP	NP	NP	NP	µg/L	0.48	U	0.48	U	0.48	U	**0.36**	J
3,3'-Dichlorobenzidine	91-94-1	0.13	NP	5	5	µg/L	4.2	U	4.2	U	4.2	UJ	4.2	U
3-Nitroaniline	99-09-2	NP	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
4,6-Dinitro-2-methylphenol	534-52-1	1.5	NP	NP	1.5	µg/L	8.4	U	8.4	U	8.4	U	8.5	U
4-Chloroaniline	106-47-8	0.37	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
4-Chlorophenyl-phenylether	7005-72-3	NP	NP	NP	NP	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
4-Nitroaniline	100-01-6	3.8	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
4-Nitrophenol	100-02-7	NP	NP	NP	NP	µg/L	3.8	U	3.8	U	3.8	UJ	3.8	U
Acenaphthene	83-32-9	530	NP	20	20	µg/L	**0.59**	J	**0.58**	J	0.95	U	**0.47**	J
Acenaphthylene	208-96-8	NP	NP	NP	NP	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Anthracene	120-12-7	1800	NP	50	50	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Benzidine	92-87-5	0.00011	NP	5	5	µg/L	95	UJ	95	UJ	95	R	96	UJ
Benzo(a)anthracene	56-55-3	0.012	NP	0.002	0.002	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Benzo(a)pyrene	50-32-8	0.0034	0.2	ND	0.2	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Benzo(b)fluoranthene	205-99-2	0.034	NP	0.002	0.002	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
Benzo(g,h,i)perylene	191-24-2	NP	NP	NP	NP	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Benzo(k)fluoranthene	207-08-9	0.34	NP	0.002	0.002	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Benzoic acid	65-85-0	75000	NP	NP	75000	µg/L	29	U	29	U	29	U	29	U
Benzyl alcohol	100-51-6	2000	NP	NP	2000	µg/L	0.48	U	0.48	U	0.48	U	0.48	U
Bis(2-chloroethoxy)methane	111-91-1	59	NP	5	5	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
Bis(2-chloroethyl)ether	111-44-4	0.014	NP	1	1	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Bis(2-ethylhexyl)phthalate	117-81-7	5.6	6	5	5	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
Butylbenzylphthalate	85-68-7	16	NP	50	50	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
Carbazole	86-74-8	NP	NP	NP	NP	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Chrysene	218-01-9	3.4	NP	0.002	0.002	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
Dibenz(a,h)anthracene	53-70-3	0.0034	NP	NP	0.0034	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
Dibenzofuran	132-64-9	7.9	NP	NP	7.9	µg/L	**0.62**	J	**0.7**	J	0.95	U	**0.7**	J
Diethylphthalate	84-66-2	15000	NP	50	50	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Dimethylphthalate	131-11-3	NP	NP	50	50	µg/L	0.48	U	0.48	U	0.48	U	0.48	U
Di-n-butylphthalate	84-74-2	900	NP	50	50	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
Di-n-octylphthalate	117-84-0	200	NP	50	50	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
Fluoranthene	206-44-0	800	NP	50	50	µg/L	0.48	U	0.48	U	0.48	U	0.48	U
Fluorene	86-73-7	290	NP	50	50	µg/L	**0.61**	J	**0.68**	J	0.95	U	**0.45**	J
Hexachlorobenzene	118-74-1	0.0098	1	0.04	0.04	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
Hexachlorobutadiene	87-68-3	0.14	NP	0.5	0.5	µg/L	9.5	U	9.5	U	9.5	U	9.6	U
Hexachlorocyclopentadiene	77-47-4	0.41	50	5	5	µg/L	29	U	29	U	29	UJ	29	U
Hexachloroethane	67-72-1	0.33	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.034	NP	0.002	0.002	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
Isophorone	78-59-1	78	NP	50	50	µg/L	0.48	U	0.48	U	0.48	U	0.48	U

Table 3-4
Groundwater Sample Analytical Results, Remedial Investigation
Site TU014 - Former USTs at Former Building 218
Gabreski Air National Guard Base
Westhampton Beach, New York

	CAS Number	2016 USEPA Tapwater RSL[a]	MCL[b]	6 NYCRR Part 703 Drinking Water[c]	PAL[d]	Location ID:	GB-TU014-MW001		GB-TU014-MW001		GB-TU014-MW002		GB-TU014-MW003	
						Field Sample ID:	GB-TU014-MW001-G-1		GB-TU014-MW001-G-1-D		GB-TU014-MW002-G-1		GB-TU014-MW003-G-1	
						Lab Sample ID:	280-82997-3		280-82997-4		280-82997-1		280-82997-2	
						Date:	5/6/2016		5/6/2016		5/6/2016		5/6/2016	
						Screened interval:	35-45 ft bgs		35-45 ft bgs		35-45 ft bgs		35-45 ft bgs	
Naphthalene	91-20-3	0.17	NP	10	10	µg/L	**70**		**79**		**0.86**	J	**69**	
Nitrobenzene	98-95-3	0.14	NP	0.4	0.4	µg/L	1.9	U	1.9	U	1.9	U	1.9	U
N-Nitrosodimethylamine	62-75-9	0.00011	NP	NP	0.00011	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
N-Nitroso-di-n-propylamine	621-64-7	0.011	NP	NP	0.011	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
N-Nitrosodiphenylamine	86-30-6	12	NP	50	50	µg/L	0.95	U	0.95	U	0.95	U	0.96	U
N-Nitrosopyrrolidine	930-55-2	0.037	NP	NP	0.037	µg/L	1.9	R	1.9	R	1.9	R	1.9	R
Pentachlorophenol	87-86-5	0.041	1	NP	1	µg/L	57	U	57	U	57	U	58	U
Phenanthrene	85-01-8	NP	NP	50	50	µg/L	0.95	U	**0.32**	J	0.95	U	**0.26**	J
Phenol	108-95-2	5800	NP	NP	5800	µg/L	4.2	U	4.2	U	4.2	U	4.2	U
Pyrene	129-00-0	120	NP	50	50	µg/L	0.95	U	0.95	U	0.95	U	0.96	U

Notes:

Bold indicates value above laboratory detection limit.

Shading indicates value above PAL.

PAL References:

[a] USEPA May 2016 Tapwater RSL (http://www2.epa.gov/risk/risk-based-screening-table-generic-tables)

[b] USEPA National Primary Drinking Water Regulations (http://water.epa.gov/drink/contaminants/)

[c] 6 NYCRR Part 703 Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (http://www.dec.ny.gov/chemical/23853.html)

[d] Groundwater PALs were selected as the minimum value between the NYSDEC Class GA (source of drinking water, groundwater) Water Quality Standards as specified in 6 NYCRR Part 703 and USEPA MCLs. USEPA May 2016 tap water RSLs based on target hazard quotient of 1 and target risk of 1E-06 were used as the PAL for analytes that do not have a published NYSDEC Water Quality Standard or MCL.

Data Flags:

J – Result is estimated.
R - Rejected.
U – Analyte is not detected at or above the Limit of Detection.
UJ – Analyte is not detected, but there is uncertainty concerning the reported value.

µg/L – microgram per liter
CAS - Chemical Abstracts Service
D - duplicate sample
ft bgs - feet below ground surface
GB- Gabreski Air National Guard Base
MCL - Maximum contaminant level
MW – monitoring well
NP - Not published
NYCRR - New York Codes, Rules, and Regulations
PAL – project action level
RSL - Regional Screening Level
SVOC - semivolatile organic compound
TU014 – Former Underground Storage Tanks at Former Building 218
USEPA - U.S. Environmental Protection Agency
VOC – volatile organic compound

Table 3-5
Soil Sample Analytical Results, Site Inspection
Site TU017 - Former UST at Former Building 374
Gabreski Air National Guard Base
Westhampton Beach, New York

Location	NYSDEC CP-51 Unrestricted Use	NYSDEC ECL 375-6 Soil Cleanup Objectives	RSL - Residential Soil	TU017 SB34			TU017 SB35	TU017 SB36	TU017 SB38	
Sample ID				TU17SB34	TU17SB34	TU17SB34 DUP	TU17SB35	TU17SB36	TU17SB38	TU17SB38 DUP
Sample Date				10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/1/2014
Depth Interval (ft. bgs)				10 - 15	35 - 37	35 - 37	10 - 15	15 - 20	10 - 15	10 - 15
Media				Soil	Soil	Soil	Soil	Soil	Soil	Soil
VOCs (µg/kg)										
1,2,4-Trimethylbenzene	***3600***	3600	58000	0.41 J	0.52 U	0.56 U	0.62 U	0.68 U	0.61 U	0.64 U
1,4-Dichlorobenzene	***1800***	1800	2600	0.4 J	0.21 U	0.22 U	0.25 U	0.27 U	0.24 U	0.26 U
2-Butanone (MEK)	***120***	120	27000000	4.4 UJ	2.6 UJ	2.8 UJ	2.1 J	6.8 U	1.9 UJ	6.4 U
Carbon Disulfide	NS	NS	***770000***	0.28 J	0.3 J	0.45 J	0.62 U	0.68 U	0.61 U	0.64 U
Ethylbenzene	***1000***	1000	5800	0.81 J	0.52 U	0.56 U	0.62 U	0.68 U	0.61 U	0.64 U
Naphthalene	***12000***	12000	3800	12	2.4 J	3 J	0.62 U	0.68 U	0.61 U	0.64 U
Toluene	***700***	700	4900000	0.82 J	0.16 J	0.2 J	0.16 J	0.27 J	0.18 J	0.13 J
Trichloroethene	***470***	470	940	0.53 J	0.52 U	0.56 U	0.62 U	0.68 U	0.61 U	0.64 U
Xylene, Meta + Para	NS	NS	NS	0.97 J	0.53 J	0.64 J	0.47 J	0.75 J	0.48 J	0.41 J
SVOCs (µg/kg)										
2-Methylnaphthalene	NS	NS	***230000***	200	17 U	17 U	35 U	35 U	34 U	17 U
2-Methylphenol	NS	NS	***3100000***	7.3 J	8.7 U	8.6 U	17 U	17 U	17 U	8.5 U
3+4-Methylphenol	NS	NS	***3100000***	22	8.7 U	8.6 U	17 U	17 U	17 U	8.5 U
Acenaphthene	***20000***	98000	3500000	1400	17 U	17 U	35 U	35 U	34 U	17 U
Anthracene	***100000***	1000000	17000000	1400	5.5 J	5.3 J	35 U	35 U	34 U	17 U
Benzo(a)anthracene	***1000***	1000	150	**2700**	15 J	12 J	17 U	17 U	17 U	8.5 U
Benzo(a)pyrene	***1000***	22000	15	**2100**	13 J	9.8 J	17 U	17 U	17 U	8.5 U
Benzo(b)fluoranthene	***1000***	1700	150	**2800**	22	16 J	17 U	17 U	17 U	8.5 U
Benzo(g,h,i)perylene	***100000***	1000000	NS	490	5.5 J	3.5 J	17 U	17 U	17 U	8.5 U
Benzo(k)fluoranthene	***800***	1700	1500	**1200**	11 J	7.7 J	17 U	17 U	17 U	8.5 U
Benzoic Acid	NS	NS	***250000000***	170 U	87 J	170 U	180 J	180 J	340 U	92 J
Benzyl Alcohol	NS	NS	***6200000***	4.9 J	17 U	17 U	35 U	35 U	34 U	17 U
Bis(2-ethylhexyl) Phthalate	NS	NS	***38000***	120	920	460	41 J	94	49 J	58
Carbazole	NS	NS	NS	670	17 U	17 U	35 U	35 U	34 U	17 U
Chrysene	***1000***	1000	15000	**2600**	14 J	11 J	35 U	35 U	34 U	17 U
Dibenz(a,h)anthracene	***330***	1000000	15	130	2.4 J	8.6 U	17 U	17 U	17 U	8.5 U
Dibenzofuran	NS	NS	***72000***	430	17 U	17 U	35 U	35 U	34 U	17 U
Diethyl Phthalate	NS	NS	***49000000***	9.1 J	10 J	5.3 J	35 U	35 U	34 U	8.3 J
Fluoranthene	***100000***	1000000	2300000	5400	30	26	35 U	35 U	34 U	17 U
Fluorene	***30000***	386000	2300000	690	17 U	17 U	35 U	35 U	34 U	17 U
Indeno(1,2,3-cd)pyrene	***500***	8200	150	**510**	5.5 J	4.2 J	17 U	17 U	17 U	8.5 U
Naphthalene	***12000***	12000	3800	600	17 U	17 U	35 U	35 U	34 U	17 U
Phenanthrene	***100000***	1000000	NS	5000	24	22	35 U	35 U	34 U	17 U
Phenol	***330***	330	18000000	13 J	17 U	17 U	35 U	35 U	34 U	17 U
Pyrene	***100000***	1000000	1700000	4300	25	22	35 U	35 U	34 U	17 U

Notes: Only compounds detected one or more times are presented in this table
Italicized and bolded value indicates screening criterion used
Highlighted cell indicates analyte was detected
Bold value indicates analyte detected above screening level
µg/kg = micrograms per kilogram

Data Qualifiers: J = Estimated concentration
U = Not detected at or above concentration shown
UJ = Not detected at or above estimated concentration shown
DUP = Duplicate Sample
NS = No screening criteria available

File directly from AECOM. 2015. Final Regional Compliance Restoration Program Preliminary Assessment/Site Inspection, Gabreski Air National Guard Base, Westhampton Beach, New York. July 2015.

Table 3-6
Soil Sample Analytical Results, Remedial Investigation
Site TU017 - Former UST at Former Building 374
Gabreski Air National Guard Base
Westhampton Beach, New York

Analyte	CAS Number	2016 USEPA Res RSL[a]	6 NYCRR Part 375 Unrestricted Use SCO[b]	NYSDEC CP-51 Residential Supplemental SCO[c]	PAL[d]	Location ID:	GB-TU017-MW001	GB-TU017-MW001	GB-TU017-MW001	GB-TU017-MW002	GB-TU017-MW002	GB-TU017-SB001	GB-TU017-SB001	GB-TU017-SB002	GB-TU017-SB002
						Field Sample ID:	GB-TU017-MW001-S0608	GB-TU017-MW001-S0608-D	GB-TU017-MW001-S1618	GB-TU017-MW002-S0608	GB-TU017-MW002-S1315	GB-TU017-SB001-S0608	GB-TU017-SB001-S1618	GB-TU017-SB002-S0608	GB-TU017-SB002-S1113
						Date:	5/2/2016	5/2/2016	5/2/2016	5/3/2016	5/3/2016	5/3/2016	5/3/2016	5/3/2016	5/3/2016
						Lab Sample ID:	280-82817-1	280-82817-2	280-82817-3	280-82817-4	280-82817-5	280-82817-8	280-82817-9	280-82817-6	280-82817-7
						Depth (ft bgs):	6 - 8	6 - 8	16 - 18	6 - 8	13 - 15	6 - 8	16 - 18	6 - 8	11 - 13
VOCs by 8260C															
1,1,1-Trichloroethane	71-55-6	8100	0.68	NP	0.68	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,1,2,2-Tetrachloroethane	79-34-5	0.6	NP	35	35	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	40000	NP	100	100	mg/kg	0.0078	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
1,1,2-Trichloroethane	79-00-5	1.1	NP	NP	1.1	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,1-Dichloroethane	75-34-3	3.6	0.27	NP	0.27	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,1-Dichloroethene	75-35-4	230	0.33	NP	0.33	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
1,2,3-Trichlorobenzene	87-61-6	63	NP	80	80	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,2,4-Trichlorobenzene	120-82-1	24	NP	NP	24	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,2,4-Trimethylbenzene	95-63-6	58	3.6	NP	3.6	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,2-Dibromo-3-chloropropane	96-12-8	0.0053	NP	NP	0.0053	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
1,2-Dibromoethane	106-93-4	0.036	NP	NP	0.036	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,2-Dichlorobenzene	95-50-1	1800	1.1	NP	1.1	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,2-Dichloroethane	107-06-2	0.46	0.02	NP	0.02	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,2-Dichloroethene, Total	540-59-0	NP	NP	NP	NP	mg/kg	0.0031 U	0.002 U	0.002 U	0.0038 U	0.0036 U	0.0018 U	0.002 U	0.0021 UJ	0.0028 U
1,2-Dichloropropane	78-87-5	1	NP	NP	1	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,3,5-Trimethylbenzene	108-67-8	780	8.4	NP	8.4	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,3-Dichlorobenzene	541-73-1	NP	2.4	NP	2.4	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
1,4-Dichlorobenzene	106-46-7	2.6	1.8	NP	1.8	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
2-Butanone (MEK)	78-93-3	27000	0.12	100	0.12	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
2-Hexanone	591-78-6	200	NP	NP	200	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
4-Methyl-2-pentanone (MIBK)	108-10-1	33000	NP	NP	33000	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
Acetone	67-64-1	61000	0.05	NP	0.05	mg/kg	0.016 U	**0.017** J	**0.017** J	0.019 U	0.018 U	**0.02**	0.0098 U	0.011 UJ	0.014 U
Benzene	71-43-2	1.2	0.06	NP	0.06	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Bromobenzene	108-86-1	290	NP	NP	290	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Bromodichloromethane	75-27-4	0.29	NP	NP	0.29	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Bromoform	75-25-2	19	NP	NP	19	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Bromomethane	74-83-9	6.8	NP	NP	6.8	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
Carbon disulfide	75-15-0	770	NP	100	100	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Carbon tetrachloride	56-23-5	0.65	0.76	NP	0.76	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Chlorobenzene	108-90-7	280	1.1	NP	1.1	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Chloroethane	75-00-3	14000	NP	NP	14000	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Chloroform	67-66-3	0.32	0.37	NP	0.37	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Chloromethane	74-87-3	110	NP	NP	110	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
cis-1,2-Dichloroethene	156-59-2	160	0.25	NP	0.25	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
cis-1,3-Dichloropropene	10061-01-5	1.8	NP	NP	1.8	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Cyclohexane	110-82-7	6500	NP	NP	6500	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Dibromochloromethane	124-48-1	8.3	NP	NP	8.3	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Dichlorodifluoromethane	75-71-8	87	NP	NP	87	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
Ethylbenzene	100-41-4	5.8	1	NP	1	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Isopropylbenzene (Cumene)	98-82-8	1900	NP	100	100	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
m,p-Xylene	179601-23-1	550	0.26	NP	0.26	mg/kg	0.0031 U	0.002 U	0.002 U	0.0038 U	0.0036 U	0.0018 U	0.002 U	0.0021 UJ	0.0028 U
Methyl acetate	79-20-9	78000	NP	NP	78000	mg/kg	0.0078 U	0.005 U	0.0051 U	**0.016** J	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
Methyl tert-butyl ether	1634-04-4	47	0.93	NP	0.93	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Methylcyclohexane	108-87-2	NP	NP	NP	NP	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Methylene chloride	75-09-2	57	0.05	NP	0.05	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U
Naphthalene	91-20-3	3.8	12	NP	12	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
n-Butylbenzene	104-51-8	3900	12	NP	12	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
n-Propylbenzene	103-65-1	3800	3.9	NP	3.9	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
o-Xylene	95-47-6	650	0.26	NP	0.26	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
sec-Butylbenzene	135-98-8	7800	11	NP	11	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Styrene	100-42-5	6000	NP	NP	6000	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
tert-Butylbenzene	98-06-6	7800	5.9	NP	5.9	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Tetrachloroethene	127-18-4	24	1.3	NP	1.3	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Toluene	108-88-3	4900	0.7	NP	0.7	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
trans-1,2-Dichloroethene	156-60-5	1600	0.19	NP	0.19	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
trans-1,3-Dichloropropene	10061-02-6	1.8	NP	NP	1.8	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Trichloroethene	79-01-6	0.94	0.47	NP	0.47	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Trichlorofluoromethane	75-69-4	23000	NP	NP	23000	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Vinyl chloride	75-01-4	0.059	0.02	NP	0.02	mg/kg	0.0016 U	0.001 U	0.001 U	0.0019 U	0.0018 U	0.00092 U	0.00098 U	0.0011 UJ	0.0014 U
Xylenes, Total	1330-20-7	580	0.26	NP	0.26	mg/kg	0.0078 U	0.005 U	0.0051 U	0.0096 U	0.009 U	0.0046 U	0.0049 U	0.0053 UJ	0.007 U

Table 3-6
Soil Sample Analytical Results, Remedial Investigation
Site TU017 - Former UST at Former Building 374
Gabreski Air National Guard Base
Westhampton Beach, New York

Analyte	CAS Number	2016 USEPA Res RSL[a]	6 NYCRR Part 375 Unrestricted Use SCO[b]	NYSDEC CP-51 Residential Supplemental SCO[c]	PAL[d]	Location ID:	GB-TU017-MW001		GB-TU017-MW001		GB-TU017-MW001		GB-TU017-MW002		GB-TU017-MW002		GB-TU017-SB001		GB-TU017-SB001		GB-TU017-SB002		GB-TU017-SB002	
						Field Sample ID:	GB-TU017-MW001-S0608		GB-TU017-MW001-S0608-D		GB-TU017-MW001-S1618		GB-TU017-MW002-S0608		GB-TU017-MW002-S1315		GB-TU017-SB001-S0608		GB-TU017-SB001-S1618		GB-TU017-SB002-S0608		GB-TU017-SB002-S1113	
						Date:	5/2/2016		5/2/2016		5/2/2016		5/3/2016		5/3/2016		5/3/2016		5/3/2016		5/3/2016		5/3/2016	
						Lab Sample ID:	280-82817-1		280-82817-2		280-82817-3		280-82817-4		280-82817-5		280-82817-8		280-82817-9		280-82817-6		280-82817-7	
						Depth (ft bgs):	6 - 8		6 - 8		16 - 18		6 - 8		13 - 15		6 - 8		16 - 18		6 - 8		11 - 13	
SVOCs by 8270D																								
1,2,4,5-Tetrachlorobenzene	95-94-3	23	NP	NP	23	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
1,2,4-Trichlorobenzene	120-82-1	24	NP	NP	24	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
1,2-Dichlorobenzene	95-50-1	1,800	1.1	NP	1.1	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
1,2-Diphenylhydrazine	122-66-7	0.68	NP	NP	0.68	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
1,3-Dichlorobenzene	541-73-1	NP	2.4	NP	2.4	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
1,4-Dichlorobenzene	106-46-7	2.6	1.8	NP	1.8	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
2,2'-Oxybis(1-chloropropane)	108-60-1	3100	NP	NP	3100	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
2,4,5-Trichlorophenol	95-95-4	6,300	NP	100	100	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
2,4,6-Trichlorophenol	88-06-2	49	NP	NP	49	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
2,4-Dichlorophenol	120-83-2	190	NP	100	100	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
2,4-Dimethylphenol	105-67-9	1,300	NP	NP	1300	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
2,4-Dinitrophenol	51-28-5	130	NP	100	100	mg/kg	1	U	0.98	U	1	U	0.97	U	1	U	0.97	U	1	U	1	U	1	U
2,4-Dinitrotoluene	121-14-2	1.7	NP	NP	1.7	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
2,6-Dichlorophenol	87-65-0	NP	NP	NP	NP	mg/kg	0.17	U	0.16	U	0.17	U	0.16	U	0.18	U	0.16	U	0.17	U	0.17	U	0.17	U
2,6-Dinitrotoluene	606-20-2	0.36	NP	1.03	1.03	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
2-Chloronaphthalene	91-58-7	4,800	NP	NP	4800	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
2-Chlorophenol	95-57-8	390	100	NP	100	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
2-Methylnaphthalene	91-57-6	240	NP	0.41	0.41	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
2-Methylphenol	95-48-7	3,200	0.33	NP	0.33	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
3 & 4 Methylphenol	782-60-0	NP	0.33	NP	0.33	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
3,3'-Dichlorobenzidine	91-94-1	1.2	NP	NP	1.2	mg/kg	0.27	U	0.26	U	0.27	U	0.26	U	0.28	U	0.26	U	0.28	U	0.27	U	0.28	U
3-Nitroaniline	99-09-2	NP	NP	NP	NP	mg/kg	0.27	U	0.26	U	0.27	U	0.26	U	0.28	U	0.26	U	0.28	U	0.27	U	0.28	U
4,6-Dinitro-2-methylphenol	534-52-1	5.1	NP	NP	5.1	mg/kg	1	U	0.98	U	1	U	0.97	U	1	U	0.97	U	1	U	1	U	1	U
4-Chloroaniline	106-47-8	2.7	NP	100	100	mg/kg	0.27	U	0.26	U	0.27	U	0.26	U	0.28	U	0.26	U	0.28	U	0.27	U	0.28	U
4-Chlorophenyl-phenylether	7005-72-3	NP	NP	NP	NP	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
4-Nitroaniline	100-01-6	27	NP	NP	27	mg/kg	0.27	U	0.26	U	0.27	U	0.26	U	0.28	U	0.26	U	0.28	U	0.27	U	0.28	U
4-Nitrophenol	100-02-7	NP	NP	NP	NP	mg/kg	0.27	U	0.26	U	0.27	U	0.26	U	0.28	U	0.26	U	0.28	U	0.27	U	0.28	U
Acenaphthene	83-32-9	3,600	20	NP	20	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
Acenaphthylene	208-96-8	NP	100	NP	100	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Anthracene	120-12-7	18,000	100	NP	100	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Benzidine	92-87-5	0.00053	NP	NP	0.00053	mg/kg	2	U	2	U	2	U	1.9	R	2.1	U	1.9	U	2.1	U	2	U	2.1	U
Benzo(a)anthracene	56-55-3	0.16	1	NP	1	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Benzo(a)pyrene	50-32-8	0.016	1	NP	1	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Benzo(b)fluoranthene	205-99-2	0.16	1	NP	1	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Benzo(g,h,i)perylene	191-24-2	NP	100	NP	100	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
Benzo(k)fluoranthene	207-08-9	1.6	0.8	NP	0.8	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
Benzoic acid	65-85-0	250,000	NP	100	100	mg/kg	1	U	0.98	U	1	U	0.97	U	1	U	0.97	U	1	U	1	U	1	U
Benzyl alcohol	100-51-6	6,300	NP	NP	6300	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
Bis(2-chloroethoxy)methane	111-91-1	190	NP	NP	190	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Bis(2-chloroethyl)ether	111-44-4	0.23	NP	NP	0.23	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
Bis(2-ethylhexyl)phthalate	117-81-7	39	NP	50	50	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
Butylbenzylphthalate	85-68-7	290	NP	100	100	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
Carbazole	86-74-8	NP	NP	NP	NP	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
Chrysene	218-01-9	16	1	NP	1	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Dibenz(a,h)anthracene	53-70-3	0.016	0.33	NP	0.33	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Dibenzofuran	132-64-9	73	NP	NP	73	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Diethylphthalate	84-66-2	51,000	NP	100	100	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Dimethylphthalate	131-11-3	NP	NP	100	100	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Di-n-butylphthalate	84-74-2	6,300	NP	100	100	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Di-n-octylphthalate	117-84-0	630	NP	100	100	mg/kg	0.066	U	0.065	U	0.067	U	0.064	U	0.069	U	0.064	U	0.069	U	0.067	U	0.069	U
Fluoranthene	206-44-0	2,400	100	NP	100	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
Fluorene	86-73-7	2,400	30	NP	30	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Hexachlorobenzene	118-74-1	0.21	0.33	0.41	0.33	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Hexachlorobutadiene	87-68-3	1.2	NP	NP	1.2	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U
Hexachlorocyclopentadiene	77-47-4	1.8	NP	NP	1.8	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
Hexachloroethane	67-72-1	1.8	NP	NP	1.8	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	0.5	NP	0.5	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Isophorone	78-59-1	570	NP	100	100	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Naphthalene	91-20-3	3.8	12	NP	12	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Nitrobenzene	98-95-3	5.1	NP	3.7	3.7	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
N-Nitrosodimethylamine	62-75-9	0.002	NP	NP	0.002	mg/kg	0.13	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U	0.13	U	0.14	U
N-Nitroso-di-n-propylamine	621-64-7	0.078	NP	NP	0.078	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
N-Nitrosodiphenylamine	86-30-6	110	NP	NP	110	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
N-Nitrosopyrrolidine	930-55-2	0.26	NP	NP	0.26	mg/kg	0.17	R	0.16	R	0.17	R	0.16	R	0.18	R	0.16	R	0.17	R	0.17	R	0.17	R
Pentachlorophenol	87-86-5	1	0.8	NP	0.8	mg/kg	1	U	0.98	U	1	U	0.97	U	1	U	0.97	U	1	U	1	U	1	U
Phenanthrene	85-01-8	NP	100	NP	100	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Phenol	108-95-2	19000	0.33	NP	0.33	mg/kg	0.067	U	0.066	U	0.068	U	0.065	U	0.07	U	0.065	U	0.07	U	0.068	U	0.07	U
Pyrene	129-00-0	1800	100	NP	100	mg/kg	0.033	U	0.032	U	0.034	U	0.032	U	0.035	U	0.032	U	0.034	U	0.033	U	0.034	U

Table 3-6
Soil Sample Analytical Results, Remedial Investigation
Site TU017 - Former UST at Former Building 374
Gabreski Air National Guard Base
Westhampton Beach, New York

Notes:

Bold indicates value above laboratory detection limit.

PAL References:

[a] USEPA May 2016 Residential RSL (THQ=1, TR = 1E-06) (http://www2.epa.gov/risk/risk-based-screening-table-generic-tables)

[b] 6 NYCRR Part 375, December 2006 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/part375.pdf)

[c] NYSDEC CP-51 Soil Cleanup Guidance, October 2010 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/cpsoil.pdf)

[d] Soil PALs were selected as the minimum value of the 6 NYCRR Part 375 Unrestricted Use SCOs and the NYSDEC CP-51 Residential Supplemental SCOs. USEPA May 2016 RSLs based on target hazard quotient of 1 and target risk of 1E-06 were used as the PAL for analytes that do not have a published SCO.

Data Flags:

J – Result is estimated.
R - Rejected.
U – Analyte is not detected at or above the Limit of Detection.
UJ – Analyte is not detected, but there is uncertainty concerning the reported value.

CAS - Chemical Abstracts Service
CP - Commissioner Policy
D - duplicate sample
ft bgs - feet below ground surface
GB – Gabreski Air National Guard Base
mg/kg - milligram per kilogram
MW - monitoring well
NP - not published
NYCRR - New York Codes, Rules, and Regulations
NYSDEC - New York State Department of Environmental Conservation
PAL – project action level
RSL - Regional Screening Level
SB - soil boring
SCO - Soil Cleanup Objective
SVOC - semivolatile organic compound
TU017 - Former Underground Storage Tank at Former Building 374
USEPA - U.S. Environmental Protection Agency
VOC – volatile organic compound

Table 3-7
Groundwater Sample Analytical Results, Site Inspection
Site TU017 - Former UST at Former Building 374
Gabreski Air National Guard Base
Westhampton Beach, New York

Location	**NYSDEC TOGS - Drinking Water**	**MCL**	**RSL - Tapwater**	TU017
Sample ID				TU17GW34
Sample Date				10/1/2014
Media				Groundwater
VOCs (µg/L)				
Acetone	***50***	NS	14000	2 J
Trichloroethene	***5***	5	0.49	0.44 J
SVOCs (µg/L)				
Bis(2-ethylhexyl) Phthalate	***5***	6	5.6	**15**
Butyl Benzyl Phthalate	***50***	NS	16	0.061 J
Dimethyl Phthalate	***50***	NS	NS	0.051 J
Di-n-butyl Phthalate	***50***	NS	900	0.2 J
Naphthalene	***10***	NS	0.17	0.031 J

Notes:
- Only compounds detected one or more times are presented in this table
- Italicized and bolded value indicates screening criterion used
- Highlighted cell indicates analyte was detected
- Bold value indicates analyte detected above screening level
- µg/L = micrograms per liter

Data Qualifiers:
- J = Estimated concentration
- NS = No screening criteria available

File directly from AECOM. 2015. Final Regional Compliance Restoration Program Preliminary Assessment/Site Inspection, Gabreski Air National Guard Base, Westhampton Beach, New York. July 2015.

Table 3-8
Groundwater Sample Analytical Results, Remedial Investigation
Site TU017 - Former UST at Former Building 374
Gabreski Air National Guard Base
Westhampton Beach, New York

	CAS Number	2016 USEPA Tapwater RSL[a]	MCL[b]	6 NYCRR Part 703 Drinking Water[c]	PAL[d]	Location ID:	GB-TU017-MW001		GB-TU017-MW001		GB-TU017-MW002	
						Field Sample ID:	GB-TU017-MW001-G-1		GB-TU017-MW001-G-1-D		GB-TU017-MW002-G-1	
						Lab Sample ID:	280-82995-2		280-82995-3		280-82995-1	
						Date:	5/6/2016		5/6/2016		5/6/2016	
						Screened interval:	35-45 ft bgs		35-45 ft bgs		35-45 ft bgs	
VOCs by 8260C												
1,1,1-Trichloroethane	71-55-6	8000	200	5	5	µg/L	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	79-34-5	0.076	NP	5	5	µg/L	2	U	2	U	2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	55000	NP	5	5	µg/L	2	U	2	U	2	U
1,1,2-Trichloroethane	79-00-5	0.28	5	1	1	µg/L	1	U	1	U	1	U
1,1-Dichloroethane	75-34-3	2.8	NP	5	5	µg/L	1	U	1	U	1	U
1,1-Dichloroethene	75-35-4	280	7	5	5	µg/L	1	U	1	U	1	U
1,2,3-Trichlorobenzene	87-61-6	7	NP	5	5	µg/L	2	U	2	U	2	U
1,2,4-Trichlorobenzene	120-82-1	1.2	70	5	5	µg/L	2	U	2	U	2	U
1,2,4-Trimethylbenzene	95-63-6	15	NP	5	5	µg/L	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.00033	0.2	0.04	0.04	µg/L	2	U	2	U	2	U
1,2-Dibromoethane	106-93-4	0.0075	0.05	0.0006	0.0006	µg/L	2	U	2	U	2	U
1,2-Dichlorobenzene	95-50-1	300	600	3	3	µg/L	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.17	5	0.6	0.6	µg/L	1	U	1	U	1	U
1,2-Dichloroethene, Total	540-59-0	NP	NP	5	5	µg/L	2	U	2	U	2	U
1,2-Dichloropropane	78-87-5	0.44	5	1	1	µg/L	1	U	1	U	1	U
1,3,5-Trimethylbenzene	108-67-8	120	NP	5	5	µg/L	2	U	2	U	2	U
1,3-Dichlorobenzene	541-73-1	NP	NP	3	3	µg/L	2	U	2	U	2	U
1,4-Dichlorobenzene	106-46-7	0.48	75	3	3	µg/L	2	U	2	U	2	U
2-Butanone (MEK)	78-93-3	5600	NP	50	50	µg/L	5	U	5	U	5	U
2-Hexanone	591-78-6	38	NP	50	50	µg/L	2	U	2	U	2	U
4-Methyl-2-pentanone (MIBK)	108-10-1	6300	NP	NP	6300	µg/L	2	U	2	U	2	U
Acetone	67-64-1	14000	NP	50	50	µg/L	10	U	10	U	10	U
Benzene	71-43-2	0.46	5	1	1	µg/L	1	U	1	U	1	U
Bromobenzene	108-86-1	62	NP	5	5	µg/L	2	U	2	U	2	U
Bromodichloromethane	75-27-4	0.13	80	50	50	µg/L	2	U	2	U	2	U
Bromoform	75-25-2	3.3	80	50	50	µg/L	1	U	1	U	1	U
Bromomethane	74-83-9	7.5	NP	5	5	µg/L	2	U	2	U	2	U
Carbon disulfide	75-15-0	810	NP	NP	810	µg/L	1	U	1	U	1	U
Carbon tetrachloride	56-23-5	0.46	5	5	5	µg/L	1	U	1	U	1	U
Chlorobenzene	108-90-7	78	100	5	5	µg/L	1	U	1	U	1	U
Chloroethane	75-00-3	21000	NP	5	5	µg/L	1	U	1	U	1	U
Chloroform	67-66-3	0.22	80	7	7	µg/L	1	U	1	U	1	U
Chloromethane	74-87-3	190	NP	5	5	µg/L	2	U	2	U	2	U
cis-1,2-Dichloroethene	156-59-2	36	70	5	5	µg/L	1	U	1	U	1	U
cis-1,3-Dichloropropene	10061-01-5	0.47	NP	0.4	0.4	µg/L	1	U	1	U	1	U
Cyclohexane	110-82-7	13000	NP	NP	13000	µg/L	2	U	2	U	2	U
Dibromochloromethane	124-48-1	0.87	80	50	50	µg/L	1	U	1	U	1	U
Dichlorodifluoromethane	75-71-8	200	NP	5	5	µg/L	2	U	2	U	2	U
Ethylbenzene	100-41-4	1.5	700	5	5	µg/L	1	U	1	U	1	U
Isopropylbenzene (Cumene)	98-82-8	450	NP	5	5	µg/L	2	U	2	U	2	U
m,p-Xylene	179601-23-1	190	10000	5	5	µg/L	1	U	1	U	**0.6**	J
Methyl acetate	79-20-9	20000	NP	NP	20000	µg/L	5	U	5	U	5	U
Methyl tert-butyl ether	1634-04-4	14	NP	NP	14	µg/L	2	U	2	U	2	U
Methylcyclohexane	108-87-2	NP	NP	NP	NP	µg/L	2	U	2	U	2	U
Methylene chloride	75-09-2	11	5	5	5	µg/L	5	U	5	U	5	U
Naphthalene	91-20-3	0.17	NP	10	10	µg/L	2	U	2	U	2	U
n-Butylbenzene	104-51-8	1000	NP	5	5	µg/L	2	U	2	U	2	U
n-Propylbenzene	103-65-1	660	NP	5	5	µg/L	2	U	2	U	2	U
o-Xylene	95-47-6	190	10000	5	5	µg/L	1	U	1	U	1	U
sec-Butylbenzene	135-98-8	2000	NP	5	5	µg/L	2	U	2	U	2	U
Styrene	100-42-5	1200	100	5	5	µg/L	1	U	1	U	1	U
tert-Butylbenzene	98-06-6	690	NP	5	5	µg/L	2	U	2	U	2	U
Tetrachloroethene	127-18-4	11	5	5	5	µg/L	1	U	1	U	1	U
Toluene	108-88-3	1100	1000	5	5	µg/L	1	U	1	U	1	U
trans-1,2-Dichloroethene	156-60-5	360	100	5	5	µg/L	1	U	1	U	1	U
trans-1,3-Dichloropropene	10061-02-6	0.47	NP	0.4	0.4	µg/L	1	U	1	U	1	U
Trichloroethene	79-01-6	0.49	5	5	5	µg/L	1	U	1	U	1	U
Trichlorofluoromethane	75-69-4	5200	NP	5	5	µg/L	2	U	2	U	2	U
Vinyl chloride	75-01-4	0.019	2	2	2	µg/L	1	U	1	U	1	U
Xylenes, Total	1330-20-7	190	10000	5	5	µg/L	5	U	5	U	5	U

Table 3-8
Groundwater Sample Analytical Results, Remedial Investigation
Site TU017 - Former UST at Former Building 374
Gabreski Air National Guard Base
Westhampton Beach, New York

	CAS Number	2016 USEPA Tapwater RSL[a]	MCL[b]	6 NYCRR Part 703 Drinking Water[c]	PAL[d]	Location ID:	GB-TU017-MW001		GB-TU017-MW001		GB-TU017-MW002	
						Field Sample ID:	GB-TU017-MW001-G-1		GB-TU017-MW001-G-1-D		GB-TU017-MW002-G-1	
						Lab Sample ID:	280-82995-2		280-82995-3		280-82995-1	
						Date:	5/6/2016		5/6/2016		5/6/2016	
						Screened interval:	35-45 ft bgs		35-45 ft bgs		35-45 ft bgs	
SVOCs by 8270D												
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U
1,2,4-Trichlorobenzene	120-82-1	1.2	70	5	5	µg/L	0.95	U	0.96	U	0.95	U
1,2-Dichlorobenzene	95-50-1	300	600	3	3	µg/L	0.47	U	0.48	U	0.48	U
1,2-Diphenylhydrazine	122-66-7	0.078	NP	ND	0.078	µg/L	0.48	U	0.48	U	0.48	U
1,3-Dichlorobenzene	541-73-1	NP	NP	3	3	µg/L	0.95	U	0.96	U	0.95	U
1,4-Dichlorobenzene	106-46-7	0.48	75	3	3	µg/L	0.95	U	0.96	U	0.95	U
2,2'-Oxybis(1-chloro)propane	108-60-1	710	NP	5	5	µg/L	0.95	U	0.96	U	0.95	U
2,4,5-Trichlorophenol	95-95-4	1200	NP	NP	1200	µg/L	0.95	U	0.96	U	0.95	U
2,4,6-Trichlorophenol	88-06-2	4.1	NP	NP	4.1	µg/L	0.95	U	0.96	U	0.95	U
2,4-Dichlorophenol	120-83-2	46	NP	NP	46	µg/L	1.9	U	1.9	U	1.9	U
2,4-Dimethylphenol	105-67-9	360	NP	50	50	µg/L	1.9	U	1.9	U	1.9	U
2,4-Dinitrophenol	51-28-5	39	NP	10	10	µg/L	28	U	29	U	29	U
2,4-Dinitrotoluene	121-14-2	0.24	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U
2,6-Dichlorophenol	87-65-0	NP	NP	NP	NP	µg/L	3.8	U	3.8	U	3.8	U
2,6-Dinitrotoluene	606-20-2	0.048	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U
2-Chloronaphthalene	91-58-7	750	NP	10	10	µg/L	0.95	U	0.96	U	0.95	U
2-Chlorophenol	95-57-8	91	NP	NP	91	µg/L	4.2	U	4.2	U	4.2	U
2-Methylnaphthalene	91-57-6	36	NP	NP	36	µg/L	0.95	U	0.96	U	0.95	U
2-Methylphenol	95-48-7	930	NP	NP	930	µg/L	1.9	U	1.9	U	1.9	U
3 & 4 Methylphenol	782-60-0	NP	NP	NP	NP	µg/L	0.47	U	0.48	U	0.48	U
3,3'-Dichlorobenzidine	91-94-1	0.13	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U
3-Nitroaniline	99-09-2	NP	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U
4,6-Dinitro-2-methylphenol	534-52-1	1.5	NP	NP	1.5	µg/L	8.3	U	8.4	U	8.4	U
4-Chloroaniline	106-47-8	0.37	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U
4-Chlorophenyl-phenylether	7005-72-3	NP	NP	NP	NP	µg/L	4.2	U	4.2	U	4.2	U
4-Nitroaniline	100-01-6	3.8	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U
4-Nitrophenol	100-02-7	NP	NP	NP	NP	µg/L	3.8	U	3.8	U	3.8	U
Acenaphthene	83-32-9	530	NP	20	20	µg/L	0.95	U	0.96	U	0.95	U
Acenaphthylene	208-96-8	NP	NP	NP	NP	µg/L	0.95	U	0.96	U	0.95	U
Anthracene	120-12-7	1800	NP	50	50	µg/L	0.95	U	0.96	U	0.95	U
Benzidine	92-87-5	0.00011	NP	5	5	µg/L	95	UJ	96	UJ	95	R
Benzo(a)anthracene	56-55-3	0.012	NP	0.002	0.002	µg/L	0.95	U	0.96	U	0.95	U
Benzo(a)pyrene	50-32-8	0.0034	0.2	ND	0.2	µg/L	0.95	U	0.96	U	0.95	U
Benzo(b)fluoranthene	205-99-2	0.034	NP	0.002	0.002	µg/L	1.9	U	1.9	U	1.9	U
Benzo(g,h,i)perylene	191-24-2	NP	NP	NP	NP	µg/L	0.95	U	0.96	U	0.95	U
Benzo(k)fluoranthene	207-08-9	0.34	NP	0.002	0.002	µg/L	0.95	U	0.96	U	0.95	U
Benzoic acid	65-85-0	75000	NP	NP	75000	µg/L	28	U	29	U	29	U
Benzyl alcohol	100-51-6	2000	NP	NP	2000	µg/L	0.47	U	0.48	U	0.48	U
Bis(2-chloroethoxy)methane	111-91-1	59	NP	5	5	µg/L	1.9	U	1.9	U	1.9	U
Bis(2-chloroethyl)ether	111-44-4	0.014	NP	1	1	µg/L	0.95	U	0.96	U	0.95	U
Bis(2-ethylhexyl)phthalate	117-81-7	5.6	6	5	5	µg/L	1.9	U	1.9	U	**4.5**	J
Butylbenzylphthalate	85-68-7	16	NP	50	50	µg/L	1.9	U	1.9	U	1.9	U
Carbazole	86-74-8	NP	NP	NP	NP	µg/L	0.95	U	0.96	U	0.95	U
Chrysene	218-01-9	3.4	NP	0.002	0.002	µg/L	1.9	U	1.9	U	1.9	U
Dibenz(a,h)anthracene	53-70-3	0.0034	NP	NP	0.0034	µg/L	1.9	U	1.9	U	1.9	U
Dibenzofuran	132-64-9	7.9	NP	NP	7.9	µg/L	0.95	U	0.96	U	0.95	U
Diethylphthalate	84-66-2	15000	NP	50	50	µg/L	0.95	U	0.96	U	0.95	U
Dimethylphthalate	131-11-3	NP	NP	50	50	µg/L	0.47	U	0.48	U	0.48	U
Di-n-butylphthalate	84-74-2	900	NP	50	50	µg/L	4.2	U	4.2	U	4.2	U
Di-n-octylphthalate	117-84-0	200	NP	50	50	µg/L	0.95	U	0.96	U	0.95	U
Fluoranthene	206-44-0	800	NP	50	50	µg/L	0.47	U	0.48	U	0.48	U
Fluorene	86-73-7	290	NP	50	50	µg/L	0.95	U	0.96	U	0.95	U
Hexachlorobenzene	118-74-1	0.0098	1	0.04	0.04	µg/L	1.9	U	1.9	U	1.9	U
Hexachlorobutadiene	87-68-3	0.14	NP	0.5	0.5	µg/L	9.5	U	9.6	U	9.5	U
Hexachlorocyclopentadiene	77-47-4	0.41	50	5	5	µg/L	28	U	29	U	29	U
Hexachloroethane	67-72-1	0.33	NP	5	5	µg/L	4.2	U	4.2	U	4.2	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.034	NP	0.002	0.002	µg/L	1.9	U	1.9	U	1.9	U
Isophorone	78-59-1	78	NP	50	50	µg/L	0.47	U	0.48	U	0.48	U
Naphthalene	91-20-3	0.17	NP	10	10	µg/L	0.95	U	0.96	U	0.95	U
Nitrobenzene	98-95-3	0.14	NP	0.4	0.4	µg/L	1.9	U	1.9	U	1.9	U
N-Nitrosodimethylamine	62-75-9	0.00011	NP	NP	0.00011	µg/L	0.95	U	0.96	U	0.95	U
N-Nitroso-di-n-propylamine	621-64-7	0.011	NP	NP	0.011	µg/L	0.95	U	0.96	U	0.95	U
N-Nitrosodiphenylamine	86-30-6	12	NP	50	50	µg/L	0.95	U	0.96	U	0.95	UJ
N-Nitrosopyrrolidine	930-55-2	0.037	NP	NP	0.037	µg/L	1.9	R	1.9	R	1.9	R

Table 3-8
Groundwater Sample Analytical Results, Remedial Investigation
Site TU017 - Former UST at Former Building 374
Gabreski Air National Guard Base
Westhampton Beach, New York

	CAS Number	2016 USEPA Tapwater RSL[a]	MCL[b]	6 NYCRR Part 703 Drinking Water[c]	PAL[d]	Location ID:	GB-TU017-MW001		GB-TU017-MW001		GB-TU017-MW002	
						Field Sample ID:	GB-TU017-MW001-G-1		GB-TU017-MW001-G-1-D		GB-TU017-MW002-G-1	
						Lab Sample ID:	280-82995-2		280-82995-3		280-82995-1	
						Date:	5/6/2016		5/6/2016		5/6/2016	
						Screened interval:	35-45 ft bgs		35-45 ft bgs		35-45 ft bgs	
Pentachlorophenol	87-86-5	0.041	1	NP	1	µg/L	57	U	57	U	57	U
Phenanthrene	85-01-8	NP	NP	50	50	µg/L	0.95	U	0.96	U	0.95	U
Phenol	108-95-2	5800	NP	NP	5800	µg/L	4.2	U	4.2	U	4.2	U
Pyrene	129-00-0	120	NP	50	50	µg/L	0.95	U	0.96	U	0.95	U

Notes:

Bold indicates value above laboratory detection limit.

PAL References:

[a] USEPA May 2016 Tapwater RSL (http://www2.epa.gov/risk/risk-based-screening-table-generic-tables)

[b] USEPA National Primary Drinking Water Regulations (http://water.epa.gov/drink/contaminants/)

[c] 6 NYCRR Part 703 Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (http://www.dec.ny.gov/chemical/23853.html)

[d] Groundwater PALs were selected as the minimum value between the NYSDEC Class GA (source of drinking water, groundwater) Water Quality Standards as specified in 6 NYCRR Part 703 and USEPA MCLs. USEPA May 2016 tap water RSLs based on target hazard quotient of 1 and target risk of 1E-06 were used as the PAL for analytes that do not have a published NYSDEC Water Quality Standard or MCL.

Data Flags:

J – Result is estimated.
R - Rejected.
U – Analyte is not detected at or above the Limit of Detection.
UJ – Analyte is not detected, but there is uncertainty concerning the reported value.

µg/L – microgram per liter
CAS - Chemical Abstracts Service
D - duplicate sample
ft bgs - feet below ground surface
GB- Gabreski Air National Guard Base
MCL - Maximum contaminant level
MW – monitoring well
NP - Not published
NYCRR - New York Codes, Rules, and Regulations
PAL – project action level
RSL - Regional Screening Level
SVOC - semivolatile organic compound
TU017 - Former Underground Storage Tank at Former Building 374
USEPA - U.S. Environmental Protection Agency
VOC – volatile organic compound

ATTACHMENT A
PUBLIC NOTICE

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State of New York
County of Suffolk

Shannon Steimel
being duly sworn, says s/he is the

ADMINISTRATIVE ASSISTANT
of the SOUTHAMPTON PRESS, WESTERN EDITION, a newspaper published weekly in the Village of Westhampton Beach, Town of Southampton, county and state aforesaid, and that a notice, of which the annexed printed slip is a copy, was published in said newspaper once a week

for **1** consecutive week(s),

commencing on the **14th** day of

December 2017

Sworn to before me this **14th** day of

December 2017

Notary Public

NEIL M. SALVAGGIO
Notary Public, State of New York
No. 01SA6082874, Suffolk County
Commission Expires November 4, 2018

PUBLIC COMMENT PERIOD
No Further Response Action Planned Decision Document for SitesTU014 and TU017 - Gabreski Air National Guard Base, Westhampton Beach, NY

National Guard Bureau (NGB) has completed a No Further Response Action Planned Decision Document (NFRAP DD) for SitesTU014 (Former Underground Storage Tanks at Former Building 218) and TU017(Former Underground Storage Tank at Former Building 374) at Gabreski Air National Guard Base Guard Base (ANGB) located in Westhampton Beach, New York. NGB, in consultation with the New York State Department of Environmental Conservation (NYSDEC), recently completed a Remedial Investigation (RI) at the Sites and determined that Site-related contamination is not present and that no further action is needed to protect human health and the environment. The NFRAP DD identifies no further action as the proposed decision at Site TU017. At Site TU014, a groundwater use restriction noted in the Gabreski ANGB Master Plan is necessary to ensure protection of human health and the environment due to the presence of groundwater contamination resulting from an off-site release at the adjacent Airport Development District property owned by Suffolk County.

A printed copy of the NFRAP DD, including an electronic copy of the RI Report, is available for public review at the reference desk of the Westhampton Free Library, 7 Library Avenue, Westhampton Beach, NY. Internet access is also available at the Westhampton Free Library. The RI Report is also available online at Website http://afcec.publicadmin-record.us.af.mil/Search.aspx. To access reports on the Website, select "Air National Guard," then choose "F Gabreski APT (Westhampton),NY" from the Installation List, and click on the "Search" button; this pulls up a list of records to view.

The public is invited to comment on the proposed decision. Written comments should be directed to the contact below during the 30-day Public Comment Period, December 14, 2017 through January 12, 2018, postmarked no later than January 12, 2018if by mail.

Jody Murata
Program Manager, NGB/A4OR
Shepperd Hall
3501 Fetchet Avenue
Joint Base Andrews, MD
20762-5157
jody.a.murata.civ@mail.mil

NGB has not scheduled a public information meeting for this DD. If a member of the public desires a public meeting, a request should be directed to Ms. Murata. The purpose of the public meeting, if requested, would be to provide an explanation of this DD and to solicit comments from the attendees.

W-9173421214

917342

ATTACHMENT B
NYSDEC REMEDIAL INVESTIGATION REPORT CONCURRENCE LETTER

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Office of the Director
625 Broadway, 12th Floor, Albany, New York 12233-7011
P: (518) 402-9706 I F: (518) 402-9020
www.dec.ny.gov

December 12, 2017

Ms. Jody Ann Murata, Program Manager
NGB/CEVR
Shepperd Hall
3501 Fetchet Avenue
Andrews AFB, MD 20762-5157

Re: Remedial Investigation Report
Former Underground Storage Tanks at
Former Building 218 (TU014) and Former
Underground Storage Tank at Former
Building 374 (TU017)
Gabreski Air National Guard Base
Site # 152148
Westhampton Beach, Suffolk County

Dear Ms. Murata:

The New York State Department of Health and the New York State Department of Environmental Conservation have reviewed the Remedial Investigation Report at Former Building 218 (TU014) and Former Underground Storage Tank at Former Building 374 (TU017) Gabreski Air National Guard Base.

Based on our review of the document, the State concurs with the conclusions and recommendations of the above referenced document.

If you have any questions, please contact me at heather.bishop@dec.ny.gov or (518) 402-9620.

Sincerely,

Heather Bishop, Project Manager
Division of Environmental Remediation