Case 18-T-0604 - Application of Deepwater Wind South Fork, LLC
for a Certificate of Environmental Compatibility and Public Need for the Construction of Approximately 3.5 Miles of Submarine Export Cable from the New York State Territorial Waters Boundary to the South Shore of the Town of East Hampton in Suffolk County and Approximately 4.1 Miles of Terrestrial Export Cable from the South Shore of the Town of East Hampton to an Interconnection Facility with an Interconnection Cable Connecting to the Existing East Hampton Substation in the Town of East Hampton, Suffolk County.

Interrogatory/Document Request

Publically available information. Not to be restricted to settlement negotiations.

Request Number:	Si Kinsella #12
Request Title:	PFAS Contamination – Griffiths Carpet
Addressed To:	NYS Dept. of Environmental Conservation
From:	Simon Kinsella
Date of Request:	January 13, 2020

Background

New York State Department of Environmental Conservation (NYS DEC) failed to test contamination concentration levels at a probable source of significant PFAS contamination in its Site Characterization Report, East Hampton Airport, published November 30, 2018. The probable source of significant PFAS contamination is adjacent to and immediately north of the Beach Lane Route A Cable Corridor where Deepwater Wind South Fork, LLC (the Applicant) proposes to run its 138-kilovolt export cables (please see Appendix A and B).

Griffiths Carpets & Upholstery Cleaners ("Griffiths Carpet") specializes in cleaning carpets and upholstery. Prior to 2018/2019, Griffiths Carpet advertised and provided a Teflon-treatment service to make carpets and upholstery stain-resistant and water-repellent (please see Appendices A and C). Teflon is a known source of PFAS contamination.

Prior to 2018/2019, Griffiths Carpet was located at or near number 39 Industrial Road in Wainscott and adjacent to and immediately north of the Applicant's preferred Beach Lane Route A Cable Corridor (please see Appendices A, D, E and F at pages 2, 9 and 11).

The groundwater near the former Griffiths Carpet site generally flows from the northwest to the southeast (see Appendix G). Contamination from this site would flow generally from the former Griffiths Carpet facility in a south-easterly direction towards the Applicant's preferred Beach Lane Route A Cable Corridor.

List of Appendices

Please see the following documents (attached) –

Appendix A – Page 4 Info Graphic based on NYS DEC's Site Characterization Report on East Hampton Airport prepared by AECOM, published November 30, 2018 (see Fig 8) prepared by Si Kinsella (Jan 12, 2020).

Appendix B – Page 5 NYS DEC's Site Characterization Report, East Hampton Airport, published November 30, 2018 (pages 1-35, only).

To download the complete Site Characterization Report, please click on the following link –

DEC Site Characterization Report, East Hampton Airport (pages 1-268)

Appendix C – Page 34 Screenshot taken on March 3, 2018 of Griffiths Carpet's website that includes a service called "Teflon-Treatment" (please note that Griffiths Carpet's website since has been changed).

Appendix D – Page 35 Screenshot taken on March 3, 2018 from Google Maps using search term "Griffiths Carpets And Upholstery" that returned an address of "39 Industrial Rd #6, Wainscott, NY 11975".

Appendix E – Page 36 Screenshot taken on January 11, 2018 from MapQuest using search term "Griffiths Carpets And Upholstery" that returned an address of "39 Industrial Rd, Wainscott, NY 11975".

Appendix F – Page 39 EDR Radius Map for Stephen Hands Path Wells Nos. 1 & 2 – "39 Industrial Road" (please see at pages 2, 9 and 11).

Appendix G – Page 53 Wainscott Water Distribution System Improvement Engineering Report by Suffolk County Water Authority (please see Fig 10 at page 16)

Information Request

1) Has NYS DEC tested soil and/or groundwater for PFAS contamination or for any other contamination at the former Griffiths Carpet site on industrial Road in Wainscott? If NYS DEC tested soil and/or groundwater for contamination, please provide all laboratory test results and any report(s) based on said test results.

2) Has NYS DEC performed any analysis on soil and/or groundwater at the former Griffiths Carpet site on industrial Road in Wainscott? If NYS DEC performed any analysis on soil and/or groundwater for contamination, please provide the analysis and any report(s) based on said analysis.

3) Has NYS DEC endeavoured to "find and determine … the nature of the probable environmental impact"[1] from contamination at the former Griffiths Carpet site? If NYS DEC has endeavoured to find and determine the nature of such environmental impact, please provide documentary evidence supporting NYS DEC's findings and determinations.

4) Has NYS DEC considered any environmental impact at the former Griffiths Carpet site? If NYS DEC has considered such environmental impact, please provide documentary evidence supporting NYS DEC's consideration(s).

Response:

[1] NY CLS Public Service Law § 126 (1)(b)

Appendix A

LEGEND

- MONITORING WELL / PIEZOMETER
- SOIL BORING
- CATCH BASIN
- TAP LOCATION
- AREA OF CONCERN (AOC)

Base map and well locations were taken from NYS DEC's Site Characterization Report, East Hampton Airport, *prepared by AECOM, published November 30, 2018* *(see Report, Figure 8)*

EPA *RCRA Hazardous Waste*

			HAZARDOUS WASTE TONS
1993 NYD013518477	SHAW AERO DEVICES INC	WAINSCOTT	12.527
1991 NYD013518477	SHAW AERO	WAINSCOTT	29.501

Shaw Aero Devices/Development manufactured lift and turn technology fuel caps for commercial, military, construction and mining vehicles, including vehicle fast-fueling systems to minimized burst fuel tanks and/or over-filling the tanks causing wasteful ground-fuel spillage. In two years (1991 and 1993), Shaw Aero generated over 42 tons of hazardous waste (according to EPA National Biennial RCRA, Hazardous Waste Reports).

Griffiths Carpets used a Teflon-treatment process, a known source of PFAS contamination, to make carpets stain-resistant and water-repellant. Up until 2018/2019, Griffiths Carpets was located at 39 Industrial Road, but since has moved to another location on Montauk Highway.

The site located at 39 Industrial Road (below) was not tested for PFAS contamination by NYS DEC in its Site Characterization Report prepared by AECOM (Nov 30, 2018). A former tenant since 1954, Shaw Aero Devices/Development, manufactured aircraft parts and another tenant, Griffiths Carpet, commercially treated carpets with Teflon. Both companies would have used PFAS's, extensively. This site is owned by the Town of East Hampton and is adjacent to and north of Deepwater Wind's proposed route for its 138 kV export cable.

Key: Groundwater Flow Direction Overlay

Source: Suffolk County Water Authority - Wainscott Water Distribution System Improvement Engineering Report (May 2018), Fig 10 at page 16

Prepared by Si Kinsella, January 13, 2020

EH-E1, EH-E, EH-B, EH-B1, AOC-1, EH-SAS, SAS-1, SAS-2, SAS-3, HH-11, HH-18, HH-7/8, HH-20/21, EH-161, EH-162, EH-C, A', AOC-2, EH-A1, EH-A2, EH-A3, EH-A, CATCH BASIN, EH-P3, EH-P2, EH-P1, EH-18, EH-1, EH-18, EH-19A1, AOC-3, EH-19A, EH-19B, EH-19A2, AOC-4, EH-19B1, EH-1, EH-10, Proposed Splicing Vaults (L=26⅔ ft, W=9⅓ ft, D=11⅓ ft), Deepwater Wind's Proposed Export Cable, MW-10 (SUFFOLK COUNTY WELL), Proposed Splicing Vaults (L=26⅔ ft, W=9⅓ ft, D=11⅓ ft), Appendix A

AECOM Imagine it. Delivered.

Appendix B

Site Characterization Report

East Hampton Airport
Wainscott, Suffolk County, New York

New York State Department of Environmental Conservation
Division of Environmental Remediation

November 30, 2018

Quality information

Prepared by	Checked by	Verified by	Approved by
Alexandra Golden and Caroline Bardwell, CPG, CHMM	Lindsay Mitchell, P.E. Project Manager	Daniel Servetas, P.E. Certifying Engineer	Lindsay Mitchell, P.E. Project Manager

Revision History

Revision	Revision date	Details	Authorized	Name	Position
1	12/11/2018	Appendix C – Soil Boring Logs only	12/11/2018	Lindsay Mitchell	AECOM Project Manager

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List of Acronyms and Abbreviations

AFFF	aqueous film-forming foam
AOC	Area of Concern
ARFF	Aircraft Rescue and Firefighting
bgs	below ground surface
COC	chain of custody
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
ft.	foot/feet
GPR	ground penetrating radar
HAL	US EPA Health Advisory Level
I.D.	inside diameter
IDW	investigation-derived waste
MS/MSD	matrix spike/matrix spike duplicate
MW	monitoring well
ng/g	nanograms per gram
ng/L	nanograms per liter (parts per trillion)
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PFAS	per- and polyfluoroalkyl substances
PFC	perfluorinated compound
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
SC	site characterization
SCDHS	Suffolk County Department of Health Services
SCR	Site Characterization Report
SOW	scope of work
US EPA	United States Environmental Protection Agency
VOC	volatile organic compound

Site Characterization Report Certification

I, Daniel Servetas, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Site Characterization Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Respectfully submitted,
AECOM Technical Services Northeast, Inc.

November 30, 2018

Daniel Servetas
Registered Professional Engineer
New York License No. 079068

Date

WARNING: It is in violation of New York State Education Law, Article 145, Section 7209, Special Provision 2, for any person unless he is acting under the direction of a Licensed Professional Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Engineer or Land Surveyor is altered, the altering Engineer or Land Surveyor shall affix to the item his/her seal and notation "Altered By" followed by his/her signature and date of such alteration, and a specific description of the alteration.

1. Introduction

This Site Characterization Report (SCR) documents the findings of the 2018 site characterization (SC) completed by AECOM USA, Inc. at the East Hampton Airport in Long Island, New York on behalf of the New York State Department of Environmental Conservation (NYSDEC). The purpose of the SC was to identify the presence or absence of per- and polyfluoroalkyl substances (PFAS) contamination so that a determination could be made as to whether the site poses a significant threat to public health and/or the environment that warrants further investigation or remedial action. As a group, PFAS are chemicals with broad application, primarily in the manufacture of commercial products that resist heat or chemical reactions and repel oil, stains, grease and water. Perfluorooctanoic acid (PFOA) is a specific PFAS compound found in various industrial products (aerospace, automotive, building, and electronics industries) that is commonly used in nonstick cookware, stain-resistant carpeting and fabrics, and paper and cardboard. PFOA was also used in some formulations of aqueous film-forming foam (AFFF), a common and effective firefighting agent. Perfluorooctane sulfonic acid (PFOS) is the primary PFAS compound used in firefighting foam. This SC was undertaken due to the documented presence of AFFF at the East Hampton Airport for firefighting and fire training activities, either currently or historically, and the associated potential for chemical discharge at concentrations that could present a risk for public health or the environment. Site characterization activities were performed between April and September 2018. The remainder of this section outlines the Site Description, Site Background, SC Objectives, Scope of Work, Report Organization and Regulatory Framework.

1.1 Site Location

The approximately 610-acre Site (Draft Master Plan Report, Savik & Murray, LLP, April 2007) is located at 200 Daniels Hole Road in the hamlet of Wainscott in Suffolk County, New York (**Figure 1**), approximately 3.4 miles west of the Village of East Hampton on the South Fork of Long Island. The Site, owned by the Town of East Hampton, includes the airport and the East Hampton Industrial Park at the southern end of the airport along Industrial Road. Various commercial/industrial businesses lease the buildings from the owner. Coordinates for the approximate center of the Site are 40°57'37.2" N, 72°15'03.7" W. The nearest residential properties are located south of the Site beyond the railroad tracks and there are additional residential parcels to the west on Town Line Road. At the time of the SC field activities, a majority of the nearby residences obtained their potable water from private groundwater wells. The public water supply network is currently being expanded to service these homes.

The Atlantic Ocean lies to the south of Wainscott; the Village of Sagaponack is located to the west; and the Village of East Hampton is to the east. Other communities that border Wainscott are East Hampton and Northwest Harbor to the northeast, the village of Sag Harbor to the north, and Noyack and Bridgehampton to the west (north of Sagaponack).

The airport property is zoned Commercial/Industrial according to the Town zoning map. Surrounding properties are used for residential and commercial purposes with areas of open, unoccupied land.

1.2 Site Background

Originally built in the late 1930s, the airport is capable of handling small general aviation aircraft. The site property consists of a public use airport with a parking lot, airport terminal and various support buildings. Additionally, several parcels to the south of the airfield are leased for commercial/industrial and public service tenants. The public service tenants include the East Hampton Fire District Training Facility, the Aircraft Rescue and Firefighting (ARFF) facility, and the East Hampton Police.

In the fall of 2017, the Suffolk County Water Authority initiated a drinking water investigation for PFAS, which included sampling private water supply wells and the installation of monitoring wells. Several residences in East Hampton had detectable levels of PFAS contaminants in their well water, with the highest concentrations exhibited at houses situated in close proximity (south/southwest) to the airport property. The Site has not previously been investigated for the presence of PFAS.

1.3 Site Characterization Objectives

The objective of the SC was to determine if the Site has the potential to be a significant threat to public health and/or the environment. The findings of this investigation are necessary to evaluate the need for further action or investigation.

1.4 Scope of Work

In general, the final scope of work (SOW) for SC included the following tasks:

- Site Review: Identify potential historical events with AFFF use, such as training events, plane/car crashes on airport property where AFFF was applied, as well as current/former AFFF storage areas. Select proposed sample locations with final placement to be established during site visits
- Preliminary Activities: Attend on-site meeting with NYSDEC personnel to discuss proposed sampling locations based on research findings. Solicit subcontractor bids, formalize budget, and prepare health and safety plan
- Mobilization/Utility Clearance: Mark proposed temporary monitoring well (MW) locations on-site; conduct public and private utility markout of proposed locations and adjust as necessary
- Drinking Water Screening: Collect tap water samples at hangar spaces leased by the airport to private tenants and submit for PFAS laboratory analysis
- Drilling Program (two phases): Advancement and continuous sampling of soil borings, collection and analysis of soil samples near ground surface and above the water table, placement of polyvinyl chloride (PVC) well screen in temporary MWs for future sampling
- Groundwater Monitoring Program (two phases): Gauge water level at all temporary MWs and piezometers to calculate groundwater elevation, collect groundwater samples for PFAS laboratory analysis at temporary wells and Suffolk County Water Authority well MW-10
- Surface water/Sediment Sampling: Collect surface water sample at a catch basin near EH-A and corresponding sediment sample, if possible
- Survey: Oversee land survey activities

1.5 Report Organization

This SCR is organized into the following Sections, followed by Figures, Tables, and Appendices:

- Section 1: includes background information and a synopsis of Site characteristics and the SOW.
- Section 2: includes a description of activities that occurred during each phase of the SC fieldwork.
- Section 3: includes a description of the subsurface conditions at the Site.
- Section 4: includes a description and summary of the analytical results for samples collected during SC activities.
- Section 5: describes the SC findings, presents conclusions, and summarizes recommendations for further action, if proposed.

1.6 Regulatory Framework

PFAS are not currently regulated at the federal level and are not regulated in soil and groundwater in New York. Effective March 3, 2017, the NYSDEC added PFOA and PFOS to New York State's 6 New York Codes, Rules and Regulations (NYCRR) Part 597 List of Hazardous Substances. While the Final Rule lists PFOS and PFOA as hazardous substances, no screening or clean-up criteria are provided.

The United States Environmental Protection Agency (US EPA) has established a lifetime Health Advisory Level (HAL) of 70 nanograms per liter (ng/L) for PFOS and PFOA, individually or combined, to protect against potential risk from

exposure to drinking water contaminated by these compounds. There are no regulatory criteria for the other 19 PFAS compounds analyzed for in this SC; therefore, report discussion focuses primarily on PFOA and PFOS.

2. Field Activities

Field activities for the SC were performed between February 19, 2018 and August 10, 2018, during multiple site mobilizations. This Section provides detail on the investigation tasks completed during that timeframe. The following subcontractors provided services during the SC:

- Drilling - Cascade Drilling Company (Cascade), AECOM Subcontractor
- Ground Penetrating Radar (GPR) - Advanced Geological Services (AGS), AECOM Subcontractor
- Surveying - C.T. Male Associates (CT Male), AECOM Subcontractor
- Chemical Laboratory Analyses - ALS Environmental, Inc. (ALS), NYSDEC call-out contractor

All field activities were performed or supervised by an AECOM geologist. Photographs of field activities are included in **Appendix A** and daily reports are provided in **Appendix B**.

2.1 Site Review

Based on information gathered by the NYSDEC, Town of East Hampton officials, and AECOM regarding recorded and other potential uses of AFFF on Site property, temporary MW locations were selected for the purpose of site characterization. Potential well locations were sited based on historical information provided by site contacts and municipal officials, including, for example, historical photographs of crash sites (**Appendix A**). Existing geological and hydrogeological information (e.g., groundwater flow direction, depth to groundwater), including data collected from the Suffolk County Water Authority, was utilized to guide the development of the SC SOW.

Temporary MW locations were finalized and marked in the field by an AECOM geologist on-site on August 6, 2018. All prospective MW locations were evaluated for the presence of subsurface utilities by Advanced Geological Services. Any conflicts and MW locations were adjusted accordingly. These activities were overseen by an AECOM geologist.

Using information provided by local, county, and state contacts along with available topographic and geologic mapping, AECOM staff identified several target areas that warranted subsurface investigation, including known areas of AFFF discharge. Additional locations were selected for a second phase of investigation after initial results were reviewed. The following table presents the justification behind each soil boring, piezometer, temporary well location, and water supply well sample.

Target Area	Location ID	Justification	Drilling Phase
North Field (Area E and Area B)	EH-E	Location of a plane that crash landed	Initial Phase
	EH-B	Fire Department mass casualty exercise using AFFF and small bus	Initial Phase
	EH-E1	Upgradient of EH-E	Second Phase
	EH-B1	Downgradient of EH-B	Second Phase
Airport Parking Lot (Parcel 16)	EH-16	Fire Department training exercise location with AFFF and a large bus	Initial Phase
	EH-161	Upgradient of EH-16	Second Phase
	EH-162	Downgradient of EH-16	Second Phase
Northeast Woods (Area C)	EH-C	Historical vehicle incident where car left road and entered the woods, marked by a break in the fence. The Fire Department had been called as a precautionary measure	Initial Phase
Aircraft/Helicopter Taxiway (Area A)	EH-A	Previous car fire with documented AFFF discharge (Area A). The potential runoff of AFFF off of the tarmac into nearby grass warranted placement of 3 additional soil borings (SB-1, SB-2 and SB-3)	Initial Phase

Target Area	Location ID	Justification	Drilling Phase
ARFF (Parcel 19)	EH-19A	Located near the Fire Department garage where AFFF and fire trucks are stored	Initial Phase
	EH-19B	Located near the Fire Department garage where AFFF and fire trucks are stored	Initial Phase
	EH-19A1	Upgradient of EH-19A	Second Phase
	EH-19A2	Downgradient of EH-19A	Second Phase
	EH-19B1	Downgradient of Parcel 19 and upgradient of Parcel 1. On East Hampton Fire District Training Facility parcel	Second Phase
East Hampton Police Dept. (Parcel 1)	EH-1	Fire training structure where AFFF may have been discharged.	Initial Phase
Local Television Inc. (Parcel 10)	EH-10	This location was sampled to investigate potential impacts from AFFF runoff from the historical use at fire garage. The temporary well is located downgradient of the fire garage.	Initial Phase
East End Hangars (Parcel 18)	EH-18	Downgradient of hangar buildings	Initial Phase
Upgradient of Water Supply well	EH-SAS	Upgradient of drinking water supply well associated with tap sample SAS-1	Second Phase
Piezometers	EH-P1, EH-P2, EH-P3	Installed across the site to supplement groundwater elevation data collected during the SC	Initial Phase
Soil Borings	EH-A1, EH-A2, EH-A3	Evaluate runoff from Area A (Taxiway) where a historical car fire occurred	Initial Phase
Storm Drain Sample	Catch Basin	Evaluate runoff from Area A (Taxiway) where a historical car fire occurred	Initial Phase
Supply Well Tap Samples	HH-20/21, HH-18, SAS-1, SAS-2, SAS-3, EH-1	At least one sample was collected from each of six drinking water supply wells that service leased hangar spaces at Parcel 16 and Parcel 18. Taps located at Hangars 7, 8 and 18 (HH-7/8 and EH-18) were inaccessible during sampling activities.	Initial Phase/ Second Phase
Existing County Well	MW-10	To supplement SC water quality and elevation data with permanent off-site well location	Initial Phase

For the initial phase of investigation, prospective boring locations were flagged and marked by AECOM personnel while escorted by East Hampton Airport Staff. The following day all prospective locations were checked for subsurface utility interference by AGS. Any conflicts resulted in adjustment of the location to a more favorable position. These activities were overseen by an AECOM geologist. The final temporary well locations are depicted on **Figure 2**.

2.2 Mobilization/Utility Clearance

During the investigation, extensive precautions were used to eliminate the potential for cross-contamination from PFAS-containing materials. This preparation included ensuring field staff used perfluorinated compound (PFC)-free clothing, equipment, and supplies during SC activities and using certified PFC-free water during drilling and sampling (supplied by Cascade).

Prior to commencing any intrusive activities, AECOM arranged for utility mark-outs through Dig Safely New York, Inc. and a subcontractor, Advanced Geological Services. The locations for some of the temporary MW locations were adjusted after GPR results indicated they may be situated too close to an underground utility.

2.3 Drinking Water Tap Sampling

Several hangars on the airport property are leased to private tenants and some of them have installed potable water supply wells. As an initial screening measure, AECOM collected samples from tap locations at six spaces, to avoid any unnecessary disruption of tenant operations.

On April 25, 2018, the tap water samples were collected by an AECOM Geologist from Sound Aircraft Services (SAS-1, SAS-2, SAS-3), Hampton Hangars (HH-20/21 and HH-18), and East Hampton Hangars (EH-1). Sample locations are shown on **Figure 2**. An East Hampton Airport employee escorted AECOM personnel throughout the process. The tap was purged for a brief period to ensure sampled water was coming from the well and not the piping. The samples were preserved on ice, packaged, and submitted under standard chain of custody (COC) to ALS Environmental for PFAS analyses. On August 7, 2018, tap location SAS-1 was resampled by AECOM based on the initial analytical results, which showed higher concentrations than other samples.

2.4 Drilling Program

2.4.1 Soil Sampling

Between April 30, 2018 and May 4, 2018, soil borings were advanced to depths ranging from 25 to 45 feet below ground surface (bgs) by Cascade using a track-mounted Geoprobe® unit equipped with a macrocore sampler. Continuous soil samples were collected in acetate liners in 5-foot intervals during the drilling of temporary MWs and piezometers for the initial phase. Two soil samples were collected for each of the initial ten borings, with an additional sample collected at EH-B. An AECOM field geologist logged soil descriptions and screened soil for the presence of volatile organic compounds (VOC) using a Photoionization Detector. Soil samples were collected in laboratory-supplied bottleware, placed on ice, and submitted to ALS for laboratory analysis under standard COC protocols. Investigation-derived waste (IDW) was placed in a labeled drum for later characterization and off-site disposal. Soil boring logs are presented in **Appendix C** and well locations are provided on **Figure 2**.

After reviewing analytical results from the initial phase of drilling, AECOM coordinated with the NYSDEC to identify target areas where elevated concentrations of PFAS were reported. At each of these areas, one upgradient and one downgradient temporary well were installed during a second phase of investigation on August 8 and 9, 2018. This exercise resulted in advancement of eight additional temporary MWs. Soil sampling was not completed at these additional borings, with the exception of EH-19B1. Additionally, EH-SAS was installed upgradient of the water supply well for tap sample SAS-1; however, no downgradient well was installed.

2.4.2 Temporary MW Installation

After the depth to groundwater was confirmed at each of the 18 borings, a 1.75-inch inside diameter (I.D.) PVC well screen was placed in the borehole to act as a temporary MW to keep the borehole open and facilitate groundwater sampling. Each MW was constructed with 10-ft. length sections of 0.010-inch slot well screen and capped with a 4-inch steel protective casing, with locking cap secured in place. Field observations, measurements, and well construction timetables were recorded in the Daily Notes in **Appendix B**.

Once the depth to groundwater was determined for each soil boring, Cascade set a 10 ft. PVC screen, the depth of which was recorded by an AECOM geologist. Each monitoring well was constructed with 10-ft. length sections of 0.010-inch slot, Schedule 40 well screen with the exception of EH-19B1, which had a 15-ft. screen. Each well was capped with a 4-inch steel protective casing with a locking cap secured in place.

The three piezometers for groundwater monitoring (EH-P1, EH-P2 and EH-P3) were placed so that they transect the site perpendicular to the flow of groundwater. **Figure 3** displays a cross-section of the groundwater present between the piezometers.

2.5 Groundwater Monitoring Program

Groundwater elevation measurements were collected and recorded prior to groundwater sampling activities in May and August 2018, which are presented in **Table 1**. Water levels were determined using an electronic water level meter, which was decontaminated before proceeding to the next well location. Measurements were referenced to the top of each PVC well riser.

FIGURES

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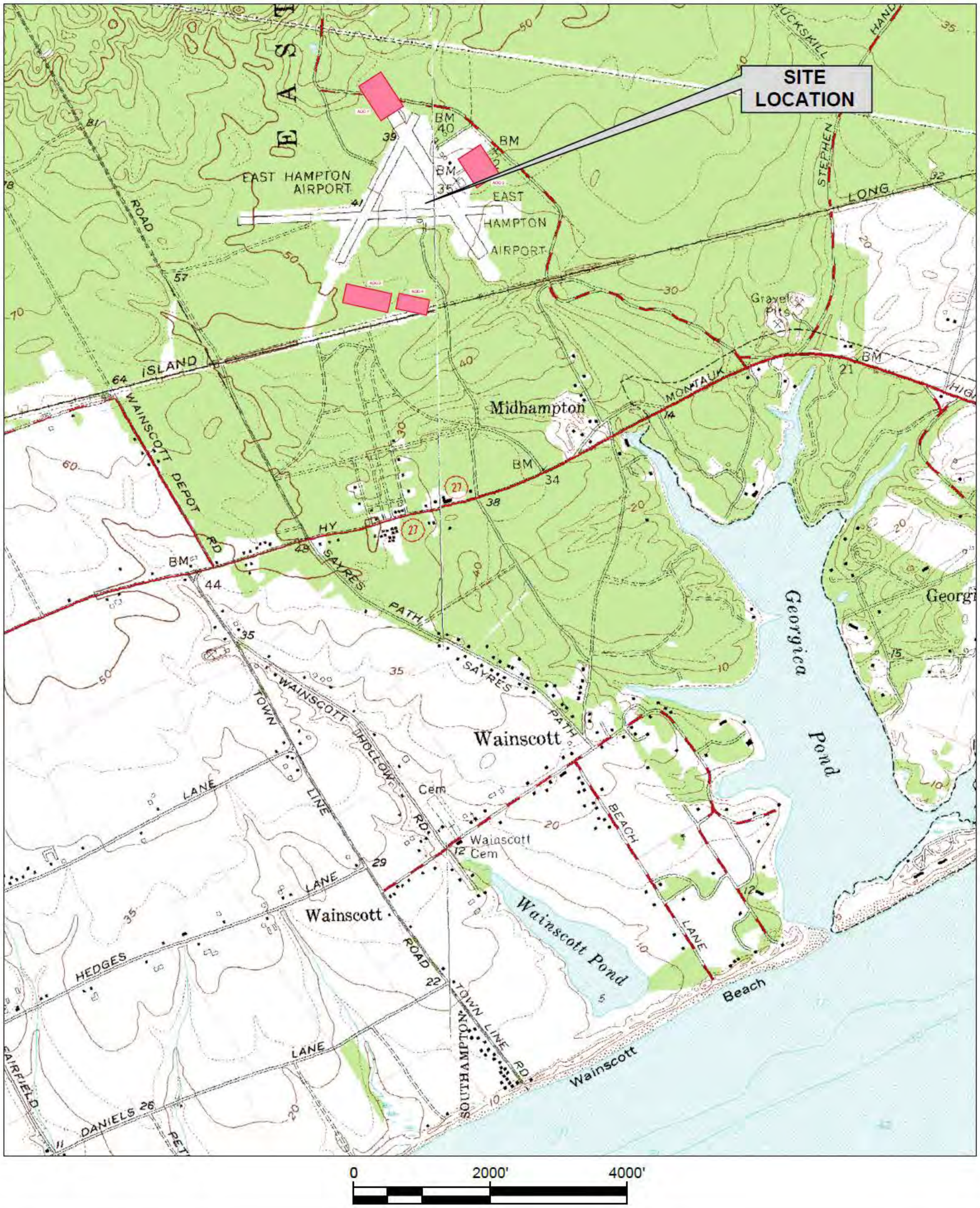


EAST HAMPTON AIRPORT
SITE CHARACTERIZATION REPORT
New York State Department of Environmental Conservation
Wainscott, Suffolk County, New York
Project No.: 60566160 Date: September 2018

SITE LOCATION PLAN

AECOM

Figure: 1

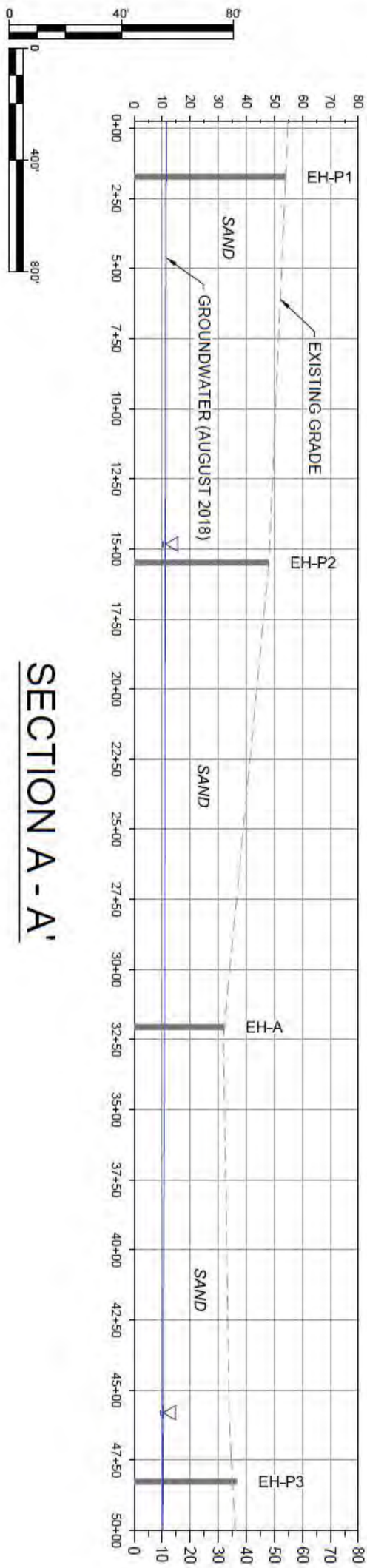
PLAN

AECOM

Figure: 2

EXISTING SITE FEATURES

EAST HAMPTON AIRPORT
SITE CHARACTERIZATION REPORT
New York State Department of Environmental Conservation
Wainscott, Suffolk County, New York
Project No.: 60566160 Date: September 2018



SECTION A - A'

EAST HAMPTON AIRPORT
SITE CHARACTERIZATION REPORT
New York State Department of Environmental Conservation
Wainscott, Suffolk County, New York
Project No.: 60566160 Date: September 2018

SECTION A - A'

AECOM

Figure: 3

PLAN

AECOM

Figure: 4

GROUNDWATER CONTOUR MAP
AUGUST 2018

EAST HAMPTON AIRPORT
SITE CHARACTERIZATION REPORT
New York State Department of Environmental Conservation
Wainscott, Suffolk County, New York
Project No.: 60566160 Date: September 2018

LEGEND

- MONITORING WELL / PIEZOMETER
- SOIL BORING
- CATCH BASIN
- TAP LOCATION

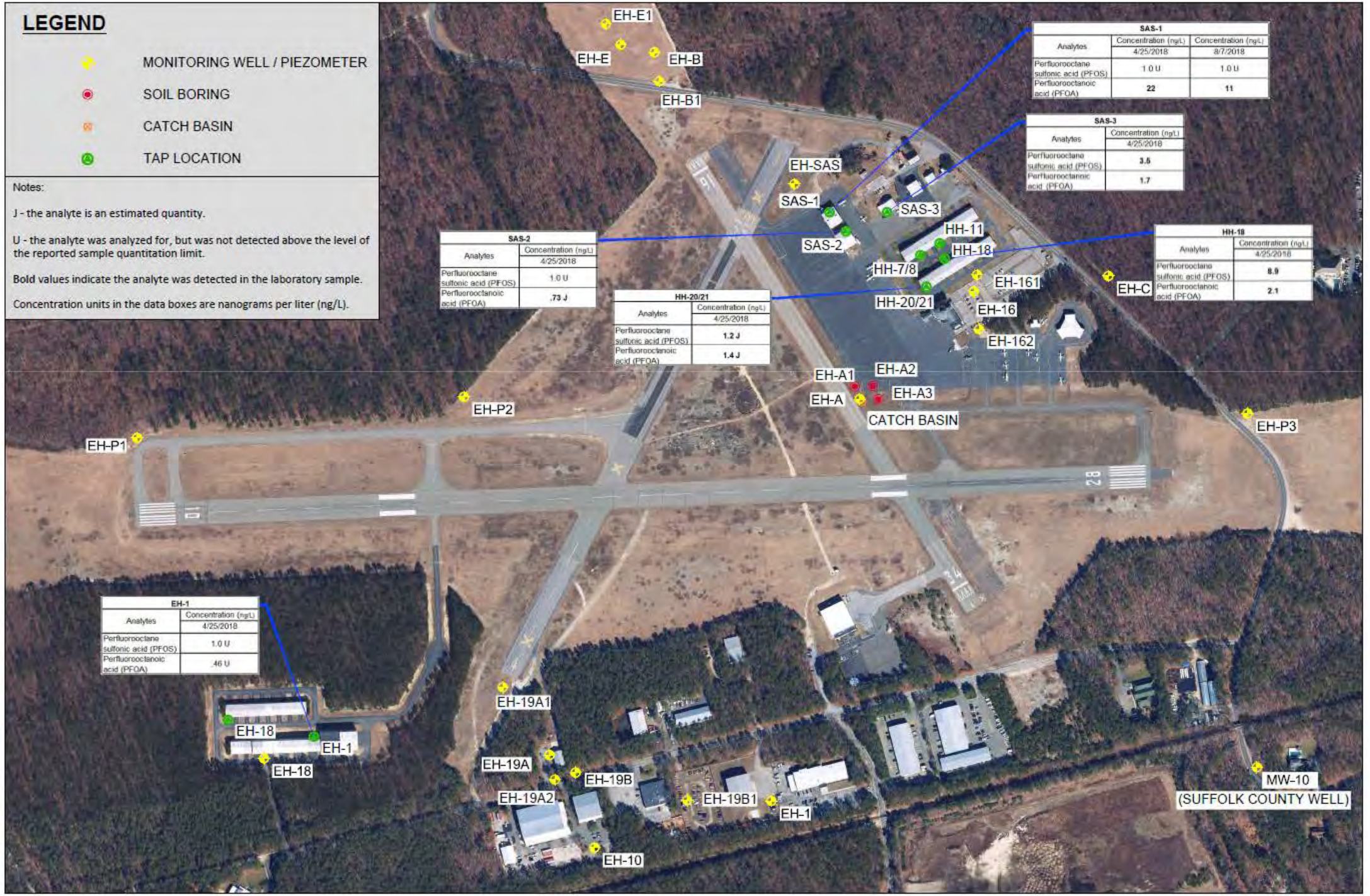
Notes:

J - the analyte is an estimated quantity.

U - the analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

Bold values indicate the analyte was detected in the laboratory sample.

Concentration units in the data boxes are nanograms per liter (ng/L).



SAS-1

Analytes	Concentration (ng/L) 4/25/2018	Concentration (ng/L) 8/7/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 U	1.0 U
Perfluorooctanoic acid (PFOA)	22	11

SAS-3

Analytes	Concentration (ng/L) 4/25/2018
Perfluorooctane sulfonic acid (PFOS)	3.6
Perfluorooctanoic acid (PFOA)	1.7

SAS-2

Analytes	Concentration (ng/L) 4/25/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 U
Perfluorooctanoic acid (PFOA)	.73 J

HH-18

Analytes	Concentration (ng/L) 4/25/2018
Perfluorooctane sulfonic acid (PFOS)	8.9
Perfluorooctanoic acid (PFOA)	2.1

HH-20/21

Analytes	Concentration (ng/L) 4/25/2018
Perfluorooctane sulfonic acid (PFOS)	1.2 J
Perfluorooctanoic acid (PFOA)	1.4 J

EH-1

Analytes	Concentration (ng/L) 4/25/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 U
Perfluorooctanoic acid (PFOA)	.46 U

PLAN

TAP WATER ANALYTICAL RESULTS

EAST HAMPTON AIRPORT
SITE CHARACTERIZATION REPORT
New York State Department of Environmental Conservation
Wainscott, Suffolk County, New York
Project No.: 60566160 Date: September 2018

AECOM
Figure: 5

LEGEND

- MONITORING WELL / PIEZOMETER
- SOIL BORING
- CATCH BASIN
- TAP LOCATION

Notes:

J - the analyte is an estimated quantity.

U - the analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

Bold values indicate the analyte was detected in the laboratory sample.

Concentration units in the data boxes are nanograms per gram (ng/g).

EH-E1 EH-E EH-B EH-B1 EH-SAS SAS-1 SAS-2 SAS-3 HH-11 HH-18 HH-7/8 HH-20/21 EH-161 EH-16 EH-162 EH-C EH-A1 EH-A2 EH-A3 EH-A CATCH BASIN EH-P1 EH-P2 EH-P3 EH-19A1 EH-19A EH-19A2 EH-19B EH-19B1 EH-18 EH-1 EH-10 MW-10 (SUFFOLK COUNTY WELL)

EH-E

Analytes	Concentration (ng/g) 4/30/2018 0-1'	23-24'
Perfluorooctane sulfonic acid (PFOS)	**3.6**	17 U
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-B

Analytes	Concentration (ng/g) 4/30/2018 0-1'	19-20'	26-27'
Perfluorooctane sulfonic acid (PFOS)	**4.0**	18 U	18 U
Perfluorooctanoic acid (PFOA)	18 U	19 U	19 U

EH-E1

Analytes	Concentration (ng/g) 8/8/2018 0-1'	26-27'
Perfluorooctane sulfonic acid (PFOS)	17 U	20 U
Perfluorooctanoic acid (PFOA)	**.33 J**	21 U

EH-B1

Analytes	Concentration (ng/g) 8/8/2018 0-1'	26-27'
Perfluorooctane sulfonic acid (PFOS)	**1.9**	**.75 J**
Perfluorooctanoic acid (PFOA)	**.35 J**	18 U

EH-161

Analytes	Concentration (ng/g) 8/8/2018 0-1'	28-29'
Perfluorooctane sulfonic acid (PFOS)	**.33 J**	17 U
Perfluorooctanoic acid (PFOA)	**.26 J**	18 U

EH-16

Analytes	Concentration (ng/g) 4/30/2018 0-1'	23-24'
Perfluorooctane sulfonic acid (PFOS)	**.72 J**	**.29 J**
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-SAS

Analytes	Concentration (ng/g) 8/8/2018 0-1'	24-25'
Perfluorooctane sulfonic acid (PFOS)	17 U	17 U
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-A2

Analytes	Concentration (ng/g) 5/2/2018 0-1'	23-24'
Perfluorooctane sulfonic acid (PFOS)	17 U	17 U
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-C

Analytes	Concentration (ng/g) 5/1/2018 0-1'	29-30'
Perfluorooctane sulfonic acid (PFOS)	18 U	18 U
Perfluorooctanoic acid (PFOA)	**.23 J**	19 U

EH-A1

Analytes	Concentration (ng/g) 5/2/2018 0-1'	23-24'
Perfluorooctane sulfonic acid (PFOS)	**.34 J**	17 U
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-162

Analytes	Concentration (ng/g) 8/9/2018 0-1'	24-25'
Perfluorooctane sulfonic acid (PFOS)	**.20 J**	17 U
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-A3

Analytes	Concentration (ng/g) 5/2/2018 0-1'	22-23'
Perfluorooctane sulfonic acid (PFOS)	17 U	17 U
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-A

Analytes	Concentration (ng/g) 5/2/2018 0-1'	22-23'
Perfluorooctane sulfonic acid (PFOS)	17 U	17 U
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-19A1

Analytes	Concentration (ng/g) 8/9/2018 0-1'	34-35'
Perfluorooctane sulfonic acid (PFOS)	18 U	18 U
Perfluorooctanoic acid (PFOA)	19 U	19 U

EH-19A

Analytes	Concentration (ng/g) 5/4/2018 0-1'	31-32'
Perfluorooctane sulfonic acid (PFOS)	**3.9**	18 U
Perfluorooctanoic acid (PFOA)	18 U	19 U

EH-19B

Analytes	Concentration (ng/g) 5/3/2018 0-1'	36-37'
Perfluorooctane sulfonic acid (PFOS)	**.22 J**	17 U
Perfluorooctanoic acid (PFOA)	**.42 J**	18 U

EH-18

Analytes	Concentration (ng/g) 5/3/2018 0-1'	41-42'
Perfluorooctane sulfonic acid (PFOS)	**.54 J**	17 U
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-19A2

Analytes	Concentration (ng/g) 8/9/2018 0-1'	34-35'
Perfluorooctane sulfonic acid (PFOS)	17 U	17 U
Perfluorooctanoic acid (PFOA)	**.20 J**	18 U

EH-1

Analytes	Concentration (ng/g) 5/1/2018 0-1'	32-33'
Perfluorooctane sulfonic acid (PFOS)	**10**	**.19 J**
Perfluorooctanoic acid (PFOA)	18 U	18 U

EH-10

Analytes	Concentration (ng/g) 5/1/2018 0-1'	33-34'
Perfluorooctane sulfonic acid (PFOS)	**.64 J**	17 U
Perfluorooctanoic acid (PFOA)	.19 U	18 U

EH-19B1

Analytes	Concentration (ng/g) 8/9/2018 0-1'
Perfluorooctane sulfonic acid (PFOS)	**12**
Perfluorooctanoic acid (PFOA)	**3.8**

PLAN

0 400' 800'

SOIL ANALYTICAL RESULTS

AECOM

Figure: 6

EAST HAMPTON AIRPORT
SITE CHARACTERIZATION REPORT
New York State Department of Environmental Conservation
Wainscott, Suffolk County, New York
Project No.: 60566160 Date: September 2018

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Project Management Initials: Designer: KAM Checked: Approved: ANSI B 11" x 17"

LEGEND

- MONITORING WELL / PIEZOMETER
- SOIL BORING
- CATCH BASIN
- TAP LOCATION

Notes:

J - the analyte is an estimated quantity.

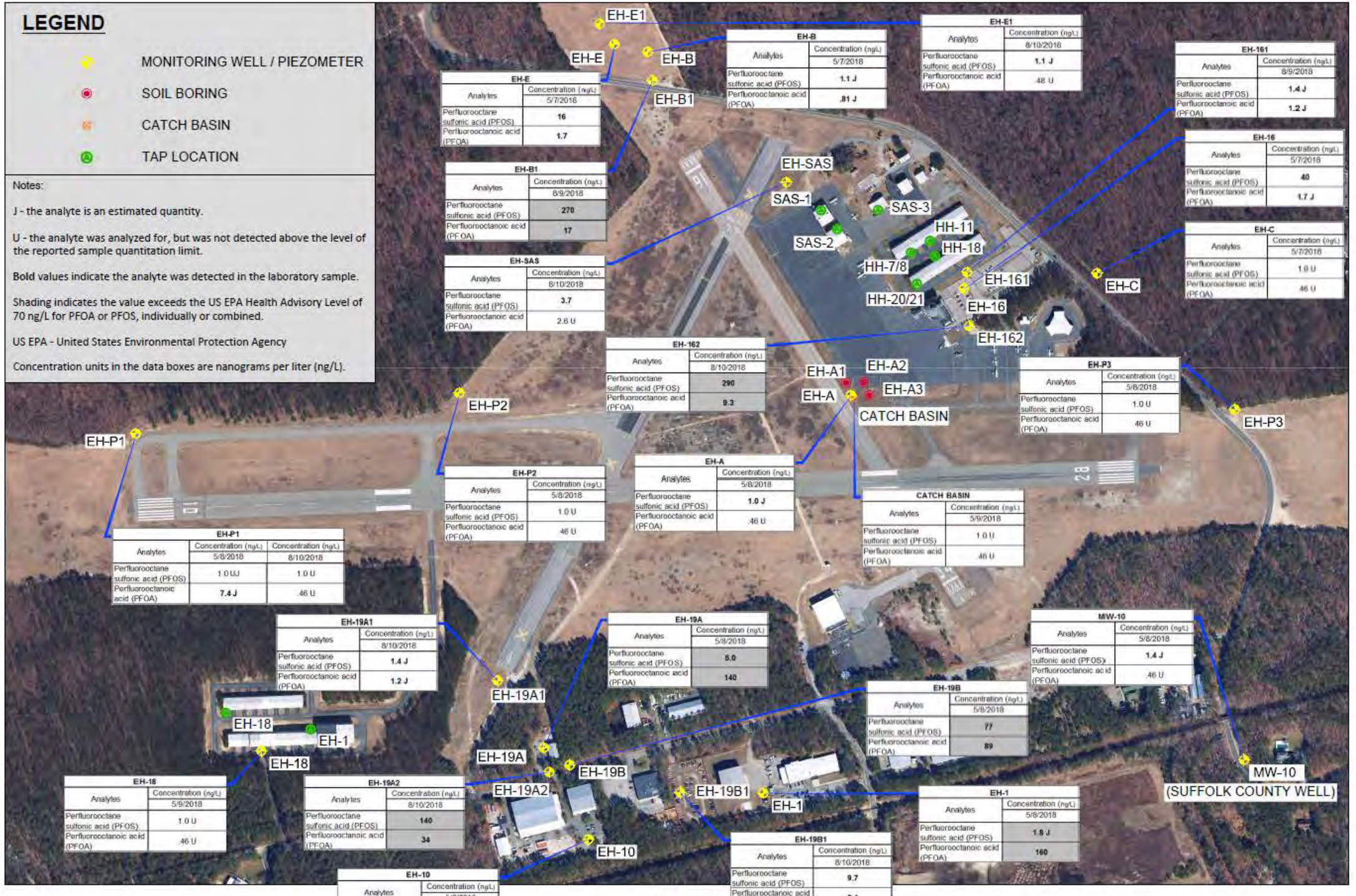
U - the analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

Bold values indicate the analyte was detected in the laboratory sample.

Shading indicates the value exceeds the US EPA Health Advisory Level of 70 ng/L for PFOA or PFOS, individually or combined.

US EPA - United States Environmental Protection Agency

Concentration units in the data boxes are nanograms per liter (ng/L).



EH-E

Analytes	Concentration (ng/L) 5/7/2018
Perfluorooctane sulfonic acid (PFOS)	16
Perfluorooctanoic acid (PFOA)	1.7

EH-B

Analytes	Concentration (ng/L) 5/7/2018
Perfluorooctane sulfonic acid (PFOS)	1.1 J
Perfluorooctanoic acid (PFOA)	.81 J

EH-E1

Analytes	Concentration (ng/L) 8/10/2018
Perfluorooctane sulfonic acid (PFOS)	1.1 J
Perfluorooctanoic acid (PFOA)	.48 U

EH-161

Analytes	Concentration (ng/L) 8/9/2018
Perfluorooctane sulfonic acid (PFOS)	1.4 J
Perfluorooctanoic acid (PFOA)	1.2 J

EH-16

Analytes	Concentration (ng/L) 5/7/2018
Perfluorooctane sulfonic acid (PFOS)	40
Perfluorooctanoic acid (PFOA)	1.7 J

EH-C

Analytes	Concentration (ng/L) 5/7/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 U
Perfluorooctanoic acid (PFOA)	.46 U

EH-B1

Analytes	Concentration (ng/L) 8/9/2018
Perfluorooctane sulfonic acid (PFOS)	270
Perfluorooctanoic acid (PFOA)	17

EH-SAS

Analytes	Concentration (ng/L) 8/10/2018
Perfluorooctane sulfonic acid (PFOS)	3.7
Perfluorooctanoic acid (PFOA)	2.6 U

EH-162

Analytes	Concentration (ng/L) 8/10/2018
Perfluorooctane sulfonic acid (PFOS)	290
Perfluorooctanoic acid (PFOA)	9.3

EH-P3

Analytes	Concentration (ng/L) 5/8/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 U
Perfluorooctanoic acid (PFOA)	.46 U

EH-A

Analytes	Concentration (ng/L) 5/8/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 J
Perfluorooctanoic acid (PFOA)	.46 U

CATCH BASIN

Analytes	Concentration (ng/L) 5/9/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 U
Perfluorooctanoic acid (PFOA)	.46 U

EH-P2

Analytes	Concentration (ng/L) 5/8/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 U
Perfluorooctanoic acid (PFOA)	.46 U

EH-P1

Analytes	Concentration (ng/L) 5/8/2018	Concentration (ng/L) 8/10/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 UJ	1.0 U
Perfluorooctanoic acid (PFOA)	7.4 J	.46 U

EH-19A1

Analytes	Concentration (ng/L) 8/10/2018
Perfluorooctane sulfonic acid (PFOS)	1.4 J
Perfluorooctanoic acid (PFOA)	1.2 J

EH-19A

Analytes	Concentration (ng/L) 5/8/2018
Perfluorooctane sulfonic acid (PFOS)	5.0
Perfluorooctanoic acid (PFOA)	140

MW-10

Analytes	Concentration (ng/L) 5/8/2018
Perfluorooctane sulfonic acid (PFOS)	1.4 J
Perfluorooctanoic acid (PFOA)	.46 U

EH-19B

Analytes	Concentration (ng/L) 5/8/2018
Perfluorooctane sulfonic acid (PFOS)	77
Perfluorooctanoic acid (PFOA)	89

EH-18

Analytes	Concentration (ng/L) 5/9/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 U
Perfluorooctanoic acid (PFOA)	.46 U

EH-19A2

Analytes	Concentration (ng/L) 8/10/2018
Perfluorooctane sulfonic acid (PFOS)	140
Perfluorooctanoic acid (PFOA)	34

EH-1

Analytes	Concentration (ng/L) 5/8/2018
Perfluorooctane sulfonic acid (PFOS)	1.8 J
Perfluorooctanoic acid (PFOA)	160

EH-19B1

Analytes	Concentration (ng/L) 8/10/2018
Perfluorooctane sulfonic acid (PFOS)	9.7
Perfluorooctanoic acid (PFOA)	2.1

EH-10

Analytes	Concentration (ng/L) 5/8/2018
Perfluorooctane sulfonic acid (PFOS)	1.0 U
Perfluorooctanoic acid (PFOA)	.46 U

PLAN

800' 400' 0

GROUNDWATER ANALYTICAL RESULTS

EAST HAMPTON AIRPORT
SITE CHARACTERIZATION REPORT
New York State Department of Environmental Conservation
Wainscott, Suffolk County, New York
Project No.: 60566160 Date: September 2018

AECOM
Figure: 7

Project Management Initials: Designer KAM Checked: Approved: ANSI B 11" x 17"

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PLAN

AECOM

Figure: 8

IDENTIFIED AREAS OF CONCERN

EAST HAMPTON AIRPORT
SITE CHARACTERIZATION REPORT
New York State Department of Environmental Conservation
Wainscott, Suffolk County, New York
Project No.: 60566160 Date: September 2018

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Project Management Initials: Designer: KAM Checked: Approved: ANSI B 11" x 17"

TABLES

Analytes	Health Advisory Water Quality Standards[1]	Groundwater Sample Data												
		Area	North Field				Sound Aircraft Services	Airport Parking Lot			Northwest Woods	Daniels Hole Road	East Hampton PD	ARFF	
		MW ID	EH-B	EH-B1	EH-E	EH-E1	EH-SAS	EH-16	EH-161	EH-162	EH-C	MW-10*	EH- 1	EH-19A	EH-19A1
		Date	5/7/2018	8/9/2018	5/7/2018	8/10/2018	8/10/2018	5/7/2018	8/9/2018	8/10/2018	5/7/2018	5/8/2018	5/8/2018	5/8/2018	8/10/2018
Perfluoroalkane Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	NS		**42**	**2.4 J**	**4.9**	**9.4**	.90 U	.90 U	.90 U	**4.2 J**	.90 U	.90 U	**8.3**	**360**	**12**
Perfluorohexane sulfonic acid (PFHxS)	NS		**130**	**34**	**52**	**24**	**1.8 J**	**2.1 J**	**1.3 J**	**68**	.94 U	.94 U	**730**	**240**	**1.5 J**
Perfluoroheptane sulfonic acid (PFHpS)	NS		.88 U	**2.8 J**	.88 U	.88 U	.88 U	.88 U	.88 U	**4.4**	.88 U	.88 U	**36**	.88 U	.88 U
Perfluorooctane sulfonic acid (PFOS)	70		**1.1 J**	**270**	**16**	**1.1 J**	**3.7**	**40**	**1.4 J**	**290**	1.0 U	**1.4 J**	**1.8 J**	**5.0**	**1.4 J**
Perfluorodecane sulfonic acid (PFDS)	NS		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroalkane Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	NS		**37**	**6.5 J**	**5.6 J**	2.7 U	2.7 U	**5.4 J**	2.7 U	**4.2 J**	2.7 U	2.7 U	**37**	**710**	**3.9 J**
Perfluoropentanoic acid (PFPeA)	NS		**120**	**5.9**	**17**	**8.1**	1.1 U	1.1 U	1.1 U	**3.0 J**	1.1 U	1.1 U	**76**	**2600**	1.1 U
Perfluorohexanoic acid (PFHxA)	NS		**150**	**13**	**17**	**11**	.92 U	**2.0 J**	.92 U	**8.9**	.92 U	.92 U	**65**	**2800**	**1.9 J**
Perfluoroheptanoic acid (PFHpA)	NS		**8.9**	**2.7 J**	**2.2 J**	1.2 U	1.2 U	**2.1 J**	1.2 U	**3.3 J**	**1.3 J**	1.2 U	**40**	**1500**	1.2 U
Perfluorooctanoic acid (PFOA)	70		**.81 J**	**17**	**1.7**	.48 U	2.6 U	**1.7 J**	**1.2 J**	**9.3**	.46 U	.46 U	**160**	**140**	**1.2 J**
Perfluorononanoic acid (PFNA)	NS		.94 U	**1.0 J**	1.7 U	.94 U	**1.5 J**	1.5 U	.94 U	.94 U	.99 U	.94 U	1.2 U	7.0 U	.94 U
Perfluorodecanoic acid (PFDA)	NS		.92 U	.52 U	1.6 U	.52 U	.60 U	1.0 U	**.70 J**	.52 U	1.1 U	.67 U	.82 U	1.8 U	.52 U
Perfluoroundecanoic acid (PFUnDA)	NS		1.6 U	.31 U	1.1 U	.31 U	.31 U	1.8 U	**1.6 J**	.31 U	1.1 U	1.0 U	1.4 U	2.6 U	.31 U
Perfluorododecanoic acid (PFDoDA)	NS		.76 U	.46 U	.87 U	.46 U	.46 U	1.4 U	.46 U	.46 U	.78 U	.89 U	1.2 U	1.1 U	.46 U
Perfluorotridecanoic acid (PFTrDA)	NS		.83 U	.75 U	**.82 J**	.75 U	.75 U	**.94 J**	.75 U	.75 U	**1.2 J**	.75 U	.90 U	1.7 U	.75 U
Perfluorotetradecanoic acid (PFTeDA)	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Perfluoroalkyl Sulfonamides															
Perfluorooctane sulfonamide (FOSA)	NS		.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 UJ	4.2 UJ	4.2 UJ	4.2 U	4.2 U	4.2 UJ	4.2 UJ	4.2 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	8.3 U	.83 U	.83 U	.83 U	.83 U
(n:2) Fluorotelomer Sulfonic Acids															
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		1.2 U	1.2 U	1.2 U	1.2 U	**1.6 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**7.0**	**7.0**	**1.6 J**
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	**2.8 J**	.65 U

Notes:

NS - No standard exists

Detected concentrations are in bold font.

Detections exceeding the US EPA HAL of 70 ng/L for either PFOA, PFOS or a combination of both are highlighted in gray.

J - The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Units are in ng/L (nanograms/liter)

* - MW-10 is a Suffolk County well installed during a previous investigation (not installed by AECOM)

1 - United States Environmental Protection Agency (US EPA)-established Drinking Water Health Advisory Level (HAL)

Table 1
Groundwater Sample Data

East Hampton Airport
200 Daniels Hole Road
Wainscott, New York

Analytes	Health Advisory Water Quality Standards[1]	Groundwater Sample Data										
		Area	ARFF			Aircraft/Helicopter Taxiway		West End of Main Runway		Middle of Main Runway	East Field	Local Television Inc.	East End Hangars
		MW ID	EH-19A2	EH-19B	EH-19B1	EH-A	CATCH BASIN	EH-P1		EH-P2	EH-P3	EH-10	EH-18
		Date	8/10/2018	5/8/2018	8/10/2018	5/8/2018	5/9/2018	5/8/2018	8/10/2018	5/8/2018	5/8/2018	5/8/2018	5/9/2018
Perfluoroalkane Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	NS		**8.5**	**29**	**8.5**	.90 U	.90 U	**1.0 J**	.90 U	.90 U	.90 U	.90 U	.90 U
Perfluorohexane sulfonic acid (PFHxS)	NS		**85**	**750**	**3.7 J**	.94 U	.94 U	**3.0 J**	**1.0 J**	.94 U	**1.0 J**	.94 U	.94 U
Perfluoroheptane sulfonic acid (PFHpS)	NS		**2.1 J**	**12**	.88 U	.88 U	.88 U	0.88 UJ	.88 U	.88 U	.88 U	.88 U	.88 U
Perfluorooctane sulfonic acid (PFOS)	70		**140**	**77**	**9.7**	**1.0 J**	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Perfluorodecane sulfonic acid (PFDS)	NS		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroalkane Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	NS		**82**	**61**	**8.8**	2.7 U	2.7 U	**3.7 J**	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Perfluoropentanoic acid (PFPeA)	NS		**140**	**170**	**6.5**	1.1 U	1.1 U	**6.8 J**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Perfluorohexanoic acid (PFHxA)	NS		**150**	**200**	**7.7**	.92 U	.92 U	**9.9 J**	.92 U	.92 U	.92 U	.92 U	.92 U
Perfluoroheptanoic acid (PFHpA)	NS		**99**	**180**	1.2 U	1.6 U	2.6 U	8.0 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Perfluorooctanoic acid (PFOA)	70		**34**	**89**	**2.1**	.46 U	.46 U	**7.4 J**	.46 U	.46 U	.46 U	.46 U	.46 U
Perfluorononanoic acid (PFNA)	NS		**17**	**14**	.94 U	1.5 U	2.1 U	8.9 UJ	.94 U	1.0 U	**1.1 J**	.94 U	.94 U
Perfluorodecanoic acid (PFDA)	NS		**4.1 J**	2.3 U	.52 U	2.3 U	1.5 U	9.5 UJ	.52 U	1.0 U	.93 U	1.0 U	.71 U
Perfluoroundecanoic acid (PFUnDA)	NS		**2.2 J**	2.2 U	**1.1 J**	1.5 U	1.6 U	**12 J**	**.43 J**	1.3 U	1.1 U	1.4 U	1.2 U
Perfluorododecanoic acid (PFDoDA)	NS		.46 U	.63 U	.46 U	.67 U	1.7 U	**21 J**	.46 U	1.1 U	.87 U	.96 U	.86 U
Perfluorotridecanoic acid (PFTrDA)	NS		.75 U	1.2 U	.75 U	1.1 U	1.5 U	**20 J**	.75 U	1.2 U	**1.3 J**	1.1 U	1.3 U
Perfluorotetradecanoic acid (PFTeDA)	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**19 J**	**1.3 J**	1.2 U	1.2 U	1.2 U	1.2 U
Perfluoroalkyl Sulfonamides													
Perfluorooctane sulfonamide (FOSA)	NS		.35 U	.35 U	.35 U	.35 U	.35 U	.35 UJ	.35 U	.35 U	.35 U	.35 U	.35 U
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		.83 U	.83 U	.83 U	.83 U	.83 U	.83 UJ	.83 U	.83 U	.83 U	.83 U	.83 U
(n:2) Fluorotelomer Sulfonic Acids													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		**3.9 J**	**120**	1.2 U	1.2 U	1.2 U	**1.4 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		**50**	**14**	**5.0**	.65 U	.65 U	.65 UJ	.65 U	.65 U	.65 U	.65 U	.65 U

Notes:
NS - No standard exists
Detected concentrations are in bold font.
Detections exceeding the US EPA HAL of 70 ng/L for either PFOA, PFOS or a combination of both are highlighted in gray.
J - The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
Units are in ng/L (nanograms/liter)
* - MW-10 is a Suffolk County well installed during a previous investigation (not installed by AECOM)
1 - United States Environmental Protection Agency (US EPA)-established Drinking Water Health Advisory Level (HAL)

Analytes	Health Advisory Water Quality Standards[1]	Area	QA/QC Samples												
		MW ID	DUP		EQUIPMENT BLANK				FIELD BLANK			MS/MSD			
		Date	5/8/2018	8/10/2018	5/7/2018	5/8/2018	5/9/2018	8/10/2018	5/7/2018	5/8/2018	8/10/2018	5/8/2018	5/8/2018	8/10/2018	8/10/2018
Perfluoroalkane Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	NS		.90 U	**9.1**	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U
Perfluorohexane sulfonic acid (PFHxS)	NS		.94 U	**57**	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U
Perfluoroheptane sulfonic acid (PFHpS)	NS		.88 U	**1.6 J**	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U
Perfluorooctane sulfonic acid (PFOS)	70		**1.3 J**	**100**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Perfluorodecane sulfonic acid (PFDS)	NS		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroalkane Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	NS		2.7 U	**73**	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Perfluoropentanoic acid (PFPeA)	NS		1.1 U	**160**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Perfluorohexanoic acid (PFHxA)	NS		.92 U	**130**	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U
Perfluoroheptanoic acid (PFHpA)	NS		1.2 U	**100**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**1.4 J**	1.2 U	1.2 U
Perfluorooctanoic acid (PFOA)	70		.46 U	**28**	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	**.55 J**
Perfluorononanoic acid (PFNA)	NS		.94 U	**13**	.94 U	.94 U	.94 U	.94 U	**1.0 J**	.94 U	.94 U	.94 U	**1.1 J**	.94 U	.94 U
Perfluorodecanoic acid (PFDA)	NS		.82 U	**3.4 U**	.52 U	.73 U	.68 U	.52 U	.71 U	.52 U	.52 U	**.87 J**	**.84 J**	.52 U	**.60 J**
Perfluoroundecanoic acid (PFUnDA)	NS		1.0 U	**1.3 J**	.85 U	.90 U	.73 U	.31 U	.94 U	.87 U	.31 U	**1.1 J**	**1.0 J**	.31 U	.31 U
Perfluorododecanoic acid (PFDoDA)	NS		.58 U	.46 U	.55 U	.80 U	.73 U	.46 U	.75 U	.46 U	.46 U	**.81 J**	**.95 J**	.46 U	.46 U
Perfluorotridecanoic acid (PFTrDA)	NS		.78 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	**.79 J**	.75 U	.75 U
Perfluorotetradecanoic acid (PFTeDA)	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Perfluoroalkyl Sulfonamides															
Perfluorooctane sulfonamide (FOSA)	NS		.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 UJ	4.2 U	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.2 U	4.2 U	4.2 U	4.2 U
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U
(n:2) Fluorotelomer Sulfonic Acids															
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		1.2 U	**5.1**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		.65 U	**46**	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U

Notes:

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Units are in ng/L (nanograms/liter)

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1 - United States Environmental Protection Agency (US EPA)-established Drinking Water Health Advisory Level (HAL)

Table 2
Tap Water Sample Data

Analytes	Health Advisory Water Quality Standards[1]	Tap Water Sample Data									
		Area	Hampton Hangars		Sound Aircraft Services				East Hampton Hangars	QA/QC SAMPLES		
		Sample ID	HH-20/21	HH-18	SAS-1		SAS-2	SAS-3	EH-1	DUP	FIELD BLANK	MS/MSD
		Date	4/25/2018	4/25/2018	4/25/2018	8/7/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018
Perfluoralkane Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	NS		.90 U	.90 U	**29**	**8.7**	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U
Perfluorohexane sulfonic acid (PFHxS)	NS		**5.8**	**6.6**	**160**	**78**	**1.6 J**	**3.8 J**	**1.0 J**	**1.3 J**	.94 U	.94 U
Perfluoroheptane sulfonic acid (PFHpS)	NS		.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U
Perfluorooctane sulfonic acid (PFOS)	70		**1.2 J**	**8.9**	1.0 U	1.0 U	1.0 U	**3.5**	1.0 U	1.0 U	1.0 U	1.0 U
Perfluorodecane sulfonic acid (PFDS)	NS		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluroralkane Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	NS		2.7 U	2.7 U	**3.4 J**	**2.8 J**	**4.1 J**	2.7 U	2.7 U	**3.3 J**	2.7 U	2.7 U
Perfluoropentanoic acid (PFPeA)	NS		1.1 U	1.1 U	**8.9**	**3.1 J**	**4.2 J**	1.1 U	1.1 U	**3.8 J**	1.1 U	1.1 U
Perfluorohexanoic acid (PFHxA)	NS		**1.2 J**	.92 U	**22**	**12**	**4.1 J**	.92 U	.92 U	**3.9 J**	.92 U	.92 U
Perfluoroheptanoic acid (PFHpA)	NS		**1.6 J**	**2.0 J**	**7.3**	**2.5 J**	**1.7 J**	**1.7 J**	1.2 U	**1.7 J**	1.2 U	1.2 U
Perfluorooctanoic acid (PFOA)	70		**1.4 J**	**2.1**	**22**	**11**	**.73 J**	**1.7**	.46 U	**.71 J**	.46 U	.46 U
Perfluorononanoic acid (PFNA)	NS		.94 U	**1.2 J**	**1.0 J**	.94 U	.94 U	**1.0 J**	.94 U	**.99 J**	.94 U	.94 U
Perfluorodecanoic acid (PFDA)	NS		1.0 U	.99 U	.86 U	.52 U	.87 U	.82 U	.81 U	.58 U	.84 U	**.92 J**
Perfluoroundecanoic acid (PFUnDA)	NS		.90 U	1.0 U	1.1 U	.31 U	.79 U	1.1 U	1.2 U	.88 U	.96 U	**1.1 J**
Perfluorododecanoic acid (PFDoDA)	NS		.58 U	.52 U	.83 U	.46 U	.70 U	.46 U	.68 U	.46 U	.76 U	**.74 J**
Perfluorotridecanoic acid (PFTrDA)	NS		.75 U	.75 U	.75 U	.75 U	.92 U	.75 U	.75 U	.75 U	.75 U	**.92 J**
Perfluorotetradecanoic acid (PFTeDA)	NS		1.2 U	1.2 U	**1.4 J**	1.2 U	**1.6 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Perfluoroalkyl Sulfonamides												
Perfluorooctane sulfonamide (FOSA)	NS		**.37 J**	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U
N-Methyl perfluorooctane sulfonamidoacetic acid	NS		4.2 U	4.2 U	4.2 U	4.2 UJ	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
N-Ethyl perfluorooctane sulfonamidoacetic acid	NS		0.83 UJ	0.83 UJ	0.83 UJ	.83 U	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	.83 U
(n:2) Fluorotelomer Sulfonic Acids												
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NS		.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U

Notes:
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Units are in ng/L (nanograms/liter)
1 - United States Environmental Protection Agency-established Drinking Water Health Advisory Level

Analytes	Soil Sample Data																				
Area	North Field									Sound Aircraft Services		Airport Parking Lot						Northwest Woods		East Hampton PD	
Boring ID	EH-B			EH-B1		EH-E		EH-E1		EH-SAS		EH-16		EH-161		EH-162		EH-C		EH-1	
Date	4/30/2018			8/8/2018		4/30/2018		8/8/2018		8/8/2018		4/30/2018		8/8/2018		8/9/2018		5/1/2018		5/1/2018	
Boring Interval (fbg)	0-1'	19-20'	26-27'	0-1'	26-27'	0-1'	23-24'	0-1'	26-27'	0-1'	24-25'	0-1'	23-24'	0-1'	28-29'	0-1'	24-25'	0-1'	29-30'	0-1'	32-33'
Perfluoroalkane Sulfonic Acids																					
Perfluorobutance sulfonic acid (PFBS)	.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.17 U	.17 U	.20 U	.17 U	.17 U	.17 U	.17 U	.18 U	.17 U	.17 U	.17 U	.18 U	.18 U	.17 U	.17 U
Perluorohexane sulfonic acid (PFHxS)	**.53 J**	**.22 J**	**.29 J**	.27 U	.21 U	**.25 J**	**.20 J**	.27 U	.28 U	.18 U	.17 U	.17 U	.17 U	.20 U	.17 U	.17 U	.17 U	.18 U	**.19 J**	.17 U	**.20 J**
Perfluoroheptane sulfonic acid (PFHpS)	.14 U	.15 U	.15 U	.15 U	.14 U	.14 U	.14 U	.14 U	.16 U	.14 U	.14 U	.14 U	.14 U	.15 U	.14 U	.14 U	.14 U	.15 U	.15 U	.14 U	.14 U
Perfluorooctane sulfonic acid (PFOS)	**4.0**	.18 U	.18 U	**1.9**	**.75 J**	**3.6**	.17 U	.17 U	.20 U	.17 U	.17 U	**.72 J**	**.29 J**	**.33 J**	.17 U	**.20 J**	.17 U	.18 U	.18 U	**10**	**.19 J**
Perfluorodecane sulfonic acid (PFDS)	.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.17 U	.17 U	.20 U	.17 U	.17 U	.17 U	.17 U	.18 U	.17 U	.17 U	.17 U	.18 U	.18 U	.17 U	.17 U
Perfluoroalkane Carboxylic Acids																					
Perfluorobutanoic acid (PFBA)	.18 U	.19 U	.19 U	.19 U	.18 U	.18 U	.18 U	.18 U	.21 U	.18 U	.18 U	.18 U	.18 U	.19 U	.18 U	.18 U	.18 U	.19 U	.19 U	.18 U	.18 U
Perfluoropentanoic acid (PFPeA)	.19 U	.20 U	.20 U	.20 U	.19 U	.19 U	.19 U	**.20 J**	.22 U	.19 U	.19 U	.19 U	.19 U	.21 U	.19 U	.19 U	.19 U	**.48 J**	.20 U	.19 U	.19 U
Perfluorohexanoic acid (PFHxA)	.21 U	.22 U	.22 U	.22 U	.21 U	.21 U	.21 U	**.34 J**	.24 U	.21 U	.21 U	.21 U	.21 U	.23 U	.21 U	.21 U	.21 U	**.51 J**	.22 U	.21 U	.21 U
Perfluoroheptanoic acid (PFHpA)	**.28 J**	**.26 J**	**.32 J**	.23 U	.22 U	**.27 J**	**.22 J**	.22 U	.26 U	.22 U	.22 U	**.23 J**	.22 U	.24 U	.22 U	.22 U	.22 U	**.51 J**	**.24 J**	**.24 J**	.22 U
Perfluorooctanoic acid (PFOA)	.18 U	.19 U	.19 U	**.35 J**	.18 U	.18 U	.18 U	**.33 J**	.21 U	.18 U	.18 U	.18 U	.18 U	**.26 J**	.18 U	.18 U	.18 U	**.23 J**	.19 U	.18 U	.18 U
Perfluorononanoic acid (PFNA)	.32 U	.25 U	.27 U	**.32 J**	.18 U	.48 U	.24 U	.18 U	.21 U	.18 U	.18 U	.24 U	.19 U	.19 U	.18 U	.18 U	.18 U	.32 U	.26 U	.55 U	.25 U
Perfluorodecanoic acid (PFDA)	.41 U	.25 U	.21 U	.21 U	.20 U	.29 U	.21 U	.20 U	.23 U	.20 U	.20 U	.20 U	.20 U	.22 U	.20 U	.20 U	.20 U	.25 U	.21 U	.27 U	.21 U
Perfluoroundecanoic acid (PFUnDA)	**.26 J**	.26 U	.26 U	.26 U	.25 U	.25 U	.25 U	.25 U	.29 U	.25 U	.25 U	.25 U	.25 U	.27 U	.25 U	.25 U	.25 U	.26 U	.26 U	.25 U	.25 U
Perfluorododecanoic acid (PFDoDA)	.26 U	.27 U	.27 U	.27 U	.26 U	.26 U	.26 U	.26 U	.30 U	.26 U	.26 U	.26 U	.26 U	.28 U	.26 U	.26 U	.26 U	.27 U	.27 U	.26 U	.26 U
Perfluorotridecanoic acid (PFTrDA)	**.24 J**	**.21 J**	.16 U	.16 U	.15 U	**.19 J**	.15 U	.15 U	.18 U	.15 U	.15 U	.15 U	**.15 J**	.16 U	.15 U	.15 U	.15 U	**.18 J**	.16 U	.15 U	.15 U
Perfluorotetradecanoic acid (PFTeDA)	.38 U	.39 U	.39 U	.39 U	.38 U	.38 U	.38 U	.38 U	.44 U	.38 U	.38 U	.38 U	.38 U	.41 U	.38 U	.38 U	.38 U	.40 U	.39 U	.38 U	.38 U
Perfluoroalkyl Sulfonamides																					
Perfluorooctane sulfonamide (FOSA)	.13 U	.14 U	.14 U	.14 U	.13 U	.13 U	.13 U	.13 U	.15 U	.13 U	.13 U	.13 U	.13 U	.14 U	.13 U	.13 U	.13 U	.14 U	.14 U	.13 U	.13 U
N-Methyl perfluorooctane sulfonamidoacetic acid	.085 U	.086 U	.088 U	**.24 J**	**.31 J**	.085 U	.085 U	.085 UJ	**.45 J**	.085 UJ	.085 UJ	.085 U	.085 U	.09 UJ	.085 UJ	**.41 J**	.085 UJ	.088 U	.087 U	.085 U	.085 U
N-Ethyl perfluorooctane sulfonamidoacetic acid	.11 U	.12 U	.12 U	.12 U	.11 U	.11 U	.11 U	.11 U	**1.3**	.11 U	.11 U	.11 U	.11 U	.12 U	.11 U	.11 U	.11 U	.12 U	.12 U	.11 U	.11 U
(n:2) Fluorotelomer Sulfonic Acids																					
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.17 U	.17 U	.20 U	.17 U	.17 U	.17 U	.17 U	.18 U	.17 U	.17 U	.17 U	.18 U	.18 U	.17 U	.17 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	.22 U	.23 U	.23 U	.23 U	.22 U	.22 U	.22 U	.22 U	.26 U	.22 U	.22 U	.22 U	.22 U	.24 U	.22 U	.22 U	.22 U	.23 U	.23 U	.22 U	.22 U

Notes:

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The depth interval of the soil sample indicates feet below grade (fbg).

U - The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

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Units for soil results are ng/g (nanograms/gram)

Units for field and equipment blanks are ng/L (nanograms/liter)

Analytes	Area	Soil Sample Data																					
		Local Television Inc.		Aircraft/ Helicopter Taxiway								East End Hangars		ARFF									
	Boring ID	EH-10		EH- A		EH- A1		EH-A2		EH-A3		EH-18		EH-19A		EH-19A1		EH-19A2		EH-19B		EH-19B1	
	Date	5/1/2018		5/2/2018		5/2/2018		5/2/2018		5/2/2018		5/3/2018		5/4/2018		8/9/2018		8/9/2018		5/3/2018		8/9/2018	
	Boring Interval (fbg)	0-1'	33-34'	0-1'	22-23'	0-1'	23-24'	0-1'	23-24'	0-1'	22-23'	0-1 '	41-42'	0-1'	31-32'	0-1'	34-35'	0-1'	34-35'	0-1'	36-37'	0-1'	
Perfluoroalkane Sulfonic Acids																							
Perfluorobutance sulfonic acid (PFBS)		.18 U	.17 U	.17 U	.17 U	.17 U	.17 UJ	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.18 U	.17 U	.18 U	
Perluorohexane sulfonic acid (PFHxS)		.18 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	**.19 J**	.17 U	.18 U	.59 U	.18 U	.17 U	.17 U	**.28 J**	**.17 J**	**3.8**	
Perfluoroheptane sulfonic acid (PFHpS)		.15 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.14 U	.15 U	.15 U	.15 U	.14 U	.14 U	.15 U	.14 U	**1.9**	
Perfluorooctane sulfonic acid (PFOS)		**.64 J**	.17 U	.17 U	.17 U	**.34 J**	.17 U	.17 U	.17 U	.17 U	.17 U	**.54 J**	.17 U	**3.9**	.18 U	.18 U	.18 U	.17 U	.17 U	**.22 J**	.17 U	**12**	
Perfluorodecane sulfonic acid (PFDS)		.18 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.18 U	.17 U	.18 U	
Perfluoroalkane Carboxylic Acids																							
Perfluorobutanoic acid (PFBA)		.19 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.19 U	.19 U	.19 U	.18 U	.18 U	.18 U	.18 U	.19 U	
Perfluoropentanoic acid (PFPeA)		.20 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.19 U	.20 U	.20 U	.20 U	.19 U	.19 U	.19 U	.19 U	**.48 J**	
Perfluorohexanoic acid (PFHxA)		.22 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.21 U	.22 U	**.23 J**	.22 U	.21 U	.21 U	.21 U	.21 U	**.75 J**	
Perfluoroheptanoic acid (PFHpA)		.23 U	.22 U	.22 U	.22 U	**.25 J**	.22 U	.22 U	.22 U	.22 U	.22 U	.26 U	.22 U	.22 U	.29 U	.23 U	.23 U	.22 U	.22 U	.30 U	.22 U	.24 U	
Perfluorooctanoic acid (PFOA)		.19 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.18 U	.19 U	.19 U	.19 U	**.20 J**	.18 U	**.42 J**	.18 U	**3.8**	
Perfluorononanoic acid (PFNA)		.24 U	.18 U	.29 U	.18 U	.24 U	.25 U	.18 U	.23 U	.21 U	.23 U	.29 U	.25 U	.49 U	.22 U	.19 U	.19 U	.18 U	.18 U	.25 U	.18 U	**.49 J**	
Perfluorodecanoic acid (PFDA)		.21 U	.21 U	.23 U	.20 U	.20 U	.20 U	.20 U	.21 U	.25 U	.25 U	.21 U	.22 U	.21 U	.21 U	.21 U	.21 U	.20 U	.20 U	.22 U	.20 U	.21 U	
Perfluoroundecanoic acid (PFUnDA)		.26 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.26 U	.26 U	.26 U	.25 U	.25 U	.26 U	.25 U	.27 U	
Perfluorododecanoic acid (PFDoDA)		.27 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.26 U	.27 U	.27 U	.27 U	.26 U	.26 U	.27 U	.26 U	.28 U	
Perfluorotridecanoic acid (PFTrDA)		.16 U	.15 U	**.19 J**	**.20 J**	**.16 J**	**.17 J**	.15 U	.15 U	.15 U	**.17 J**	**.16 J**	.15 U	.15 U	.16 U	.16 U	.16 U	.15 U	.15 U	**.16 J**	**.20 J**	.16 U	
Perfluorotetradecanoic acid (PFTeDA)		.39 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.38 U	.39 U	.39 U	.39 U	.38 U	.38 U	.39 U	.38 U	.40 U	
Perfluoroalkyl Sulfonamides																							
Perfluorooctane sulfonamide (FOSA)		.14 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.13 U	.14 U	.14 U	.14 U	.13 U	.13 U	.14 U	.13 U	.14 U	
N-Methyl perfluorooctane sulfonamidoacetic acid		.086 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.085 U	.087 U	.086 UJ	.086 UJ	.085 UJ	.085 UJ	.087 U	.085 U	0.09 UJ	
N-Ethyl perfluorooctane sulfonamidoacetic acid		.12 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.11 U	.12 U	.12 U	.12 U	.11 U	.11 U	.12 U	.11 U	.12 U	
(n:2) Fluorotelomer Sulfonic Acids																							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		.18 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.17 U	.18 U	.18 U	.18 U	.17 U	.17 U	.17 U	.17 U	.18 U	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		.23 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.22 U	.23 U	.23 U	.23 U	.22 U	.22 U	.22 U	.22 U	.24 U	

Notes:

Detected concentrations are in bold font.

J - The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

The depth interval of the soil sample indicates feet below grade (fbg).

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UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Units for soil results are ng/g (nanograms/gram)

Units for field and equipment blanks are ng/L (nanograms/liter)

Analytes	Area	QA/QC Samples														
	Boring ID	DUP-1	DUP-2	DUP	EQ-BLANK 1	EQ-BLANK 2	EQ-BLANK 3	EQ-BLANK 4	EQ-BLANK 5	EQ-BLANK	FIELD BLANK 1	FIELD BLANK 2	FIELD BLANK	MS/MSD 1	MS/MSD 2	MS/MSD
	Date	5/1/2018	5/1/2018	8/8/2018	4/30/2018	5/1/2018	5/2/2018	5/3/2018	5/4/2018	8/8/2018	5/1/2018	5/3/2018	8/8/2018	5/2/2018	5/2/2018	8/8/2018
	Boring Interval (fbg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroalkane Sulfonic Acids																
Perfluorobutance sulfonic acid (PFBS)		.17 U	.17 U	.19 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.90 U	.17 U	.17 U	.17 U
Perluorohexane sulfonic acid (PFHxS)		.17 U	**.37 J**	.30 U	.94 U	.94 U	.94 U	.94 U	**.96 J**	.94 U	.94 U	.94 U	.94 U	.17 U	.17 U	**.24 J**
Perfluoroheptane sulfonic acid (PFHpS)		.14 U	.14 U	.15 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.88 U	.14 U	.14 U	.14 U
Perfluorooctane sulfonic acid (PFOS)		**15**	**.35 J**	**.22 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	.17 U	.17 U	.17 U
Perfluorodecane sulfonic acid (PFDS)		.17 U	.17 U	.19 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	.17 U	.17 U	.17 U
Perfluoroalkane Carboxylic Acids																
Perfluorobutanoic acid (PFBA)		.18 U	.18 U	.20 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	.18 U	.18 U	.18 U
Perfluoropentanoic acid (PFPeA)		.19 U	.19 U	.21 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	.19 U	.19 U	.19 U
Perfluorohexanoic acid (PFHxA)		.21 U	.21 U	.23 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.92 U	.21 U	.21 U	.21 U
Perfluoroheptanoic acid (PFHpA)		**.25 J**	**.25 J**	.24 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	.22 U	**.22 J**	.22 U
Perfluorooctanoic acid (PFOA)		.18 U	.18 U	**.38 J**	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.18 U	.18 U	.18 U
Perfluorononanoic acid (PFNA)		.47 U	.24 U	.20 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	.94 U	**.22 J**	**.20 J**	.18 U
Perfluorodecanoic acid (PFDA)		.24 U	.21 U	.22 U	.74 U	.55 U	.54 U	.68 U	.55 U	.52 U	.69 U	.52 U	.52 U	**.22 J**	**.21 J**	.20 U
Perfluoroundecanoic acid (PFUnDA)		.25 U	.25 U	.27 U	.31 U	.31 U	.31 U	.31 U	.31 U	.31 U	.31 U	.31 U	.31 U	.27 U	.27 U	.25 U
Perfluorododecanoic acid (PFDoDA)		.26 U	.26 U	.28 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.46 U	.28 U	.28 U	.26 U
Perfluorotridecanoic acid (PFTrDA)		.15 U	.15 U	.16 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.75 U	.16 U	.16 U	.15 U
Perfluorotetradecanoic acid (PFTeDA)		.38 U	.38 U	.41 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	.41 U	.41 U	.38 U
Perfluoroalkyl Sulfonamides																
Perfluorooctane sulfonamide (FOSA)		.13 U	.13 U	.14 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.35 U	.13 U	.13 U	.13 U
N-Methyl perfluorooctane sulfonamidoacetic acid		.085 U	.085 U	**.33 J**	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 UJ	4.2 U	4.2 U	4.2 UJ	.085 U	.085 U	.085 U
N-Ethyl perfluorooctane sulfonamidoacetic acid		.11 U	.11 U	.12 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.83 U	.11 U	.11 U	.11 U
(n:2) Fluorotelomer Sulfonic Acids																
6:2 Fluorotelomer sulfonic acid (6:2 FTS)		.17 U	.17 U	.19 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	.17 U	.17 U	.17 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)		.22 U	.22 U	.24 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.65 U	.22 U	.22 U	.22 U

Notes:

Detected concentrations are in bold font.

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Units for soil results are ng/g (nanograms/gram)

Units for field and equipment blanks are ng/L (nanograms/liter)

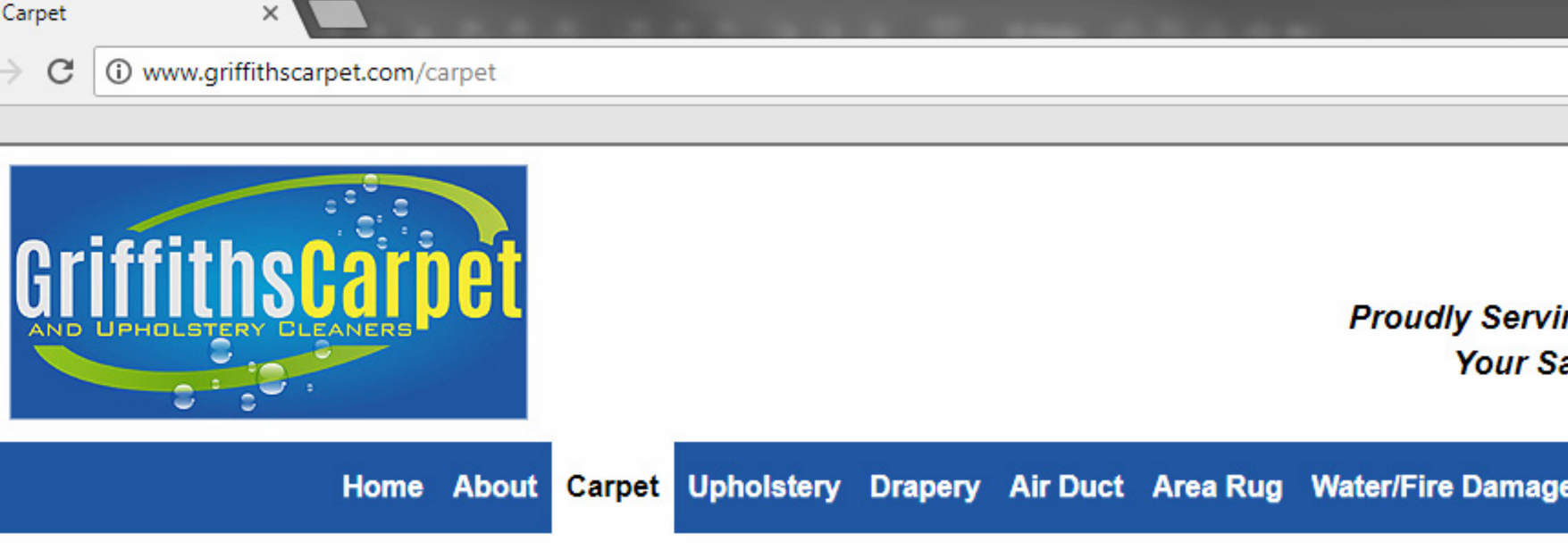
Appendix C

East Hampton 631.329.0733
Southampton 631.287.3344

Proudly Serving the Hamptons by Isaac Tilstra
Your Satisfaction Is Always Guaranteed!

Carpet

Cleaning For Your Every Need And Satisfaction Is Guaranteed



Whether you're in need of a simple spot removal or something a little more intensive, call Griffiths Carpet and Upholstery Cleaning for your every cleaning need. Trust the experts who specialize in the cleaning of fine fabrics to treat your home with the care you expect.

Come To Us With All Your Cleaning Needs

- Premium Carpet
- Area Rug
- Upholstery
- Dry Cleaning
- Drapery
- Red Wine Stains
- Pet Stains
- Pet Odors
- Water Stains
- Air Duct
- Umbrella
- Outdoor Pillow
- Stone And Tile
- Teflon Treatment

FREE Pickup And Delivery For Your Area Rug!

631.329.0733

Appendix C

Griffiths Carpet And Upholstery Cl

Griffiths Carpet And Upholstery Cleaning

Directions

5.0 ★★★★★ · 1 review

Upholstery Cleaning Service

SAVE NEARBY SEND TO YOUR PHONE SHARE

39 Industrial Rd #6, Wainscott, NY 11975

Copy address

griffithscarpet.com

(631) 329-0733

Add a label

SUGGEST AN EDIT

Add missing information

Add hours

Add a photo

Review summary

5 ★
4 ★
3 ★

5.0

Appendix D

Back | Print

Griffiths Carpet & Upholstery

39 Industrial Rd, Wainscott, NY 11975
(631) 604-2550 Claim this business

(631) 604-2550 | Favorite | More

Directions

Sponsored Topics

Wainscott Hotels | Wainscott Restaurants

About This Place

Opening Hours

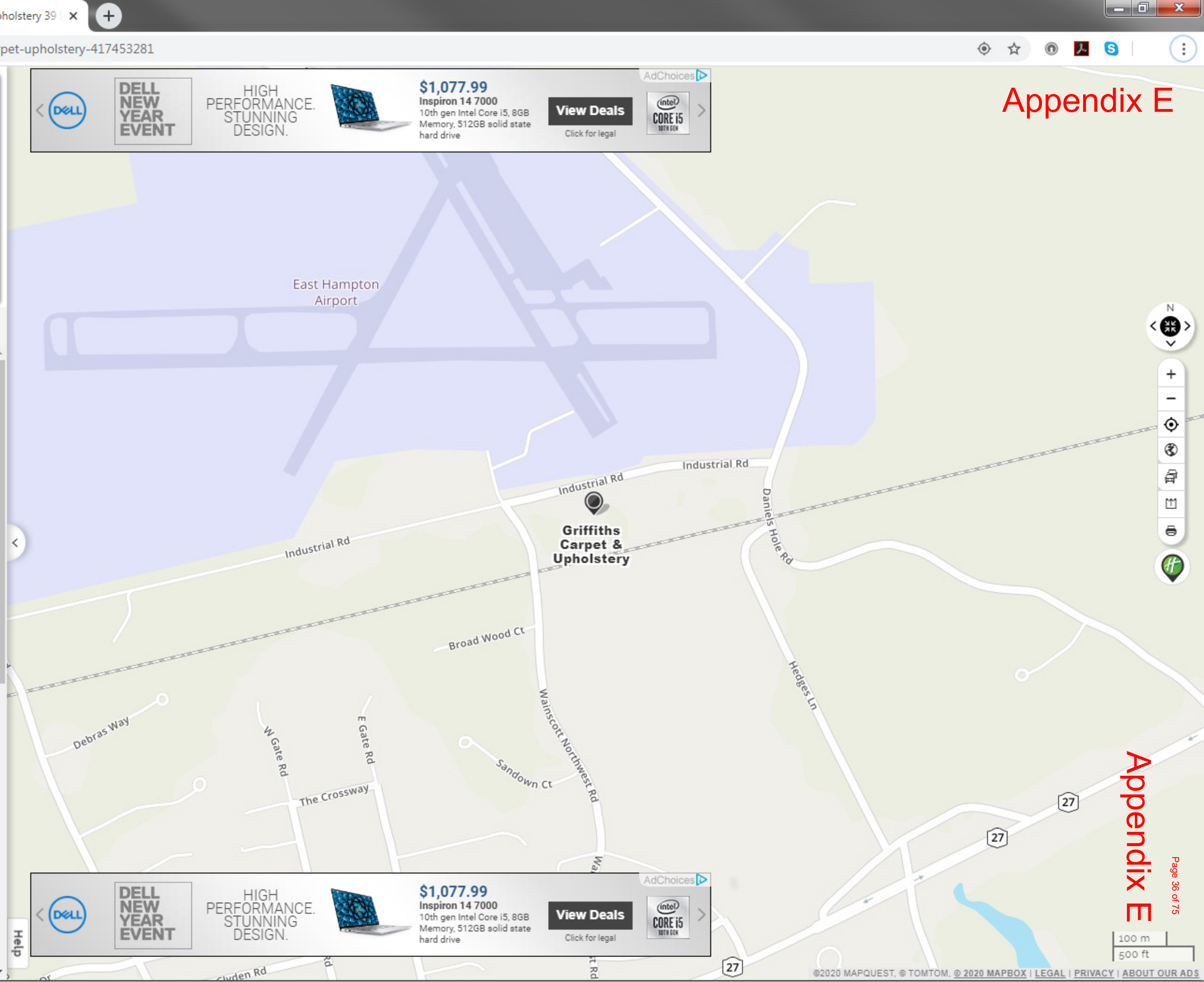
Mon: 9am-5pm
Tue: 9am-5pm
Wed: 9am-5pm
Thu: 9am-5pm
Fri: 9am-5pm
Sat: 8am-12pm

Find Related Places

Upholsterers
Verified: Claim This Business

Hotels Nearby

380 Inn



Appendix E

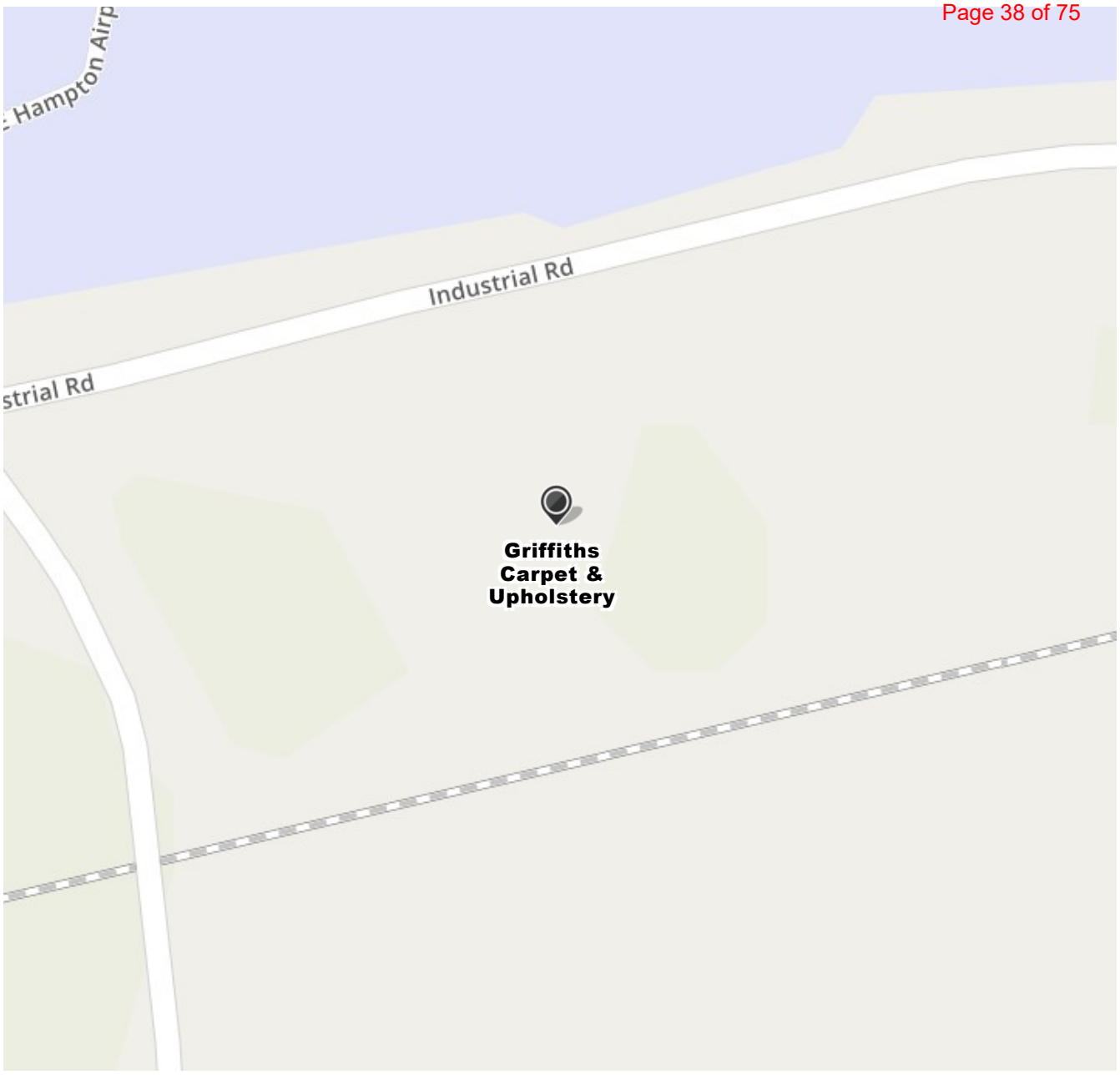
Griffiths Carpet & Upholstery

39 Industrial Rd, Wainscott, NY 11975
(631) 604-2550

About This Place

Opening Hours

Mon: 9am-5pm
Tue: 9am-5pm
Wed: 9am-5pm
Thu: 9am-5pm
Fri: 9am-5pm
Sat: 8am-12pm


Hampton Airp
Industrial Rd
strial Rd
Griffiths
Carpet &
Upholstery

Appendix F

Stephen Hands Path Wells Nos. 1 & 2
Stephen Hands Path
East Hampton, NY 11937

Inquiry Number: 5152136.2s
January 05, 2018

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

STEPHEN HANDS PATH
EAST HAMPTON, NY 11937

COORDINATES

Latitude (North):	40.9643310 - 40° 57' 51.59''
Longitude (West):	72.2335500 - 72° 14' 0.78''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	732807.2
UTM Y (Meters):	4538272.0
Elevation:	39 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5939183 EAST HAMPTON, NY
Version Date:	2013
Southwest Map:	5939187 SAG HARBOR, NY
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150507
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
STEPHEN HANDS PATH
EAST HAMPTON, NY 11937

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	KEENER'S EAST END LI	24 GOODFRIEND DR	RCRA-CESQG, FINDS, ECHO, NJ MANIFEST, NY MANIFEST	Higher	2707, 0.513, WNW
2	HAMPTON COUNTRY DAY	191 BUCKSKILL RD	FINDS	Lower	2732, 0.517, ESE
3	ROSS SCHOOL ATTN FAC	18 GOODFRIEND DR	NY UST	Higher	2758, 0.522, NW
A4	VETERINARY CLINIC OF	3 GOOD FRIEND DR	RCRA-CESQG, FINDS, ECHO, NJ MANIFEST, NY MANIFEST	Higher	2945, 0.558, NW
A5	VET CLINIC	3 GOODFRIEND DR	FINDS	Higher	2945, 0.558, NW
A6	THE ROSS SCHOOL	18 GOODFRIEND DRIVE	NY LTANKS	Higher	2966, 0.562, NW
A7	ROSS SCHOOL PROPERTY	18 GOODFRIEND DR	FINDS	Higher	2966, 0.562, NW
8	VETERINARY CLINIC OF	FOUR GOODFRIEND DR S	FINDS, ECHO	Higher	3011, 0.570, NW
9	4 GOODFRIEND PARK IN	4 GOODFRIEND DR	NY UST	Higher	3060, 0.580, NW
10	ANIMAL RESCUE FUND O	90 DANIELS HOLE RD S	FINDS	Lower	3455, 0.654, SSW
11	EAST HAMPTON INDOOR	175 DANIELS HOLE RD	FINDS	Lower	3526, 0.668, SW
12	ANIMAL RESCUE FUND O	90 DANIELS HOLE RD	NY UST	Lower	3829, 0.725, SW
13	WAINSCOTT FARMS	3 INDUSTRIAL ROAD	FINDS, ECHO	Lower	4063, 0.770, SW
14	POND ACQUISITION COR	253 MONTAUK HWY	FINDS	Lower	4169, 0.790, South
15	ST RTE 27 & RTE 113	SUNRISE HWY AND STEP	FINDS	Lower	4214, 0.798, SSE
16	POND ACQUISITION COR	249 MONTAUK HWY	FINDS	Lower	4222, 0.800, SSE
17	SOUTHAMPTON BRICK &	RTE 27A & DANIEL HOL	NY LTANKS	Lower	4289, 0.812, South
B18	SHAW AERO DEVICES IN	INDUSTRIAL ROAD	FINDS, ECHO	Lower	4419, 0.837, SW
19	POND ACQUISITION COR	291 MONTAUK HWY	FINDS	Lower	4471, 0.847, South
B20	EAST HAMPTON AIR	INDUSTRIAL RD	FINDS, ECHO	Lower	4512, 0.855, SW
21	TURNPIKE COMMERCIAL	ROUTE 114 & PLANK RO	FINDS	Higher	4563, 0.864, NW
22	39 INDUSTRIAL ROAD L	39 INDUSTRIAL RD	FINDS	Lower	4911, 0.930, SW
C23	EAST HAMPTON AIRPORT	INDUSTRIAL ROAD	NY LTANKS, NY Spills	Lower	5125, 0.971, WSW
24	HALPERN PROPERTY	48 GEORGICA CLOSE RD	FINDS	Lower	5126, 0.971, SSE
C25	EASTHAMPTON AIRPORT	DANIEL SHORE ROAD	NY LTANKS	Lower	5146, 0.975, WSW
26	SOUTH FORK ANIMAL HO	MONTAUK HWY	RCRA-CESQG, NY MANIFEST	Lower	5181, 0.981, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

NY SHWS ..... Inactive Hazardous Waste Disposal Sites in New York State

State and tribal landfill and/or solid waste disposal site lists

NY SWF/LF ..... Facility Register

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land
NY HIST LTANKS ..... Listing of Leaking Storage Tanks

State and tribal registered storage tank lists

FEMA UST ..... Underground Storage Tank Listing
NY CBS UST ..... Chemical Bulk Storage Database
NY MOSF UST ..... Major Oil Storage Facilities Database
NY CBS ..... Chemical Bulk Storage Site Listing
NY MOSF ..... Major Oil Storage Facility Site Listing
NY AST ..... Petroleum Bulk Storage
NY CBS AST ..... Chemical Bulk Storage Database
NY MOSF AST ..... Major Oil Storage Facilities Database
INDIAN UST ..... Underground Storage Tanks on Indian Land
NY TANKS ..... Storage Tank Faciliy Listing

State and tribal institutional control / engineering control registries

NY RES DECL ..... Restrictive Declarations Listing
NY ENG CONTROLS ..... Registry of Engineering Controls
NY INST CONTROL ..... Registry of Institutional Controls

State and tribal voluntary cleanup sites

NY VCP ..... Voluntary Cleanup Agreements
INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

NY BROWNFIELDS ..... Brownfields Site List
NY ERP ..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

NY SWTIRE ..... Registered Waste Tire Storage & Facility List

EXECUTIVE SUMMARY

NY SWRCY Registered Recycling Facility List
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
ODI Open Dump Inventory
IHS OPEN DUMPS Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL Delisted National Clandestine Laboratory Register
NY DEL SHWS Delisted Registry Sites
US CDL National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

NY HIST UST Historical Petroleum Bulk Storage Database
NY HIST AST Historical Petroleum Bulk Storage Database

Local Land Records

NY LIENS Spill Liens Information
LIENS 2 CERCLA Lien Information

Records of Emergency Release Reports

HMIRS Hazardous Materials Information Reporting System
NY Hist Spills SPILLS Database

Other Ascertainable Records

RCRA NonGen / NLR RCRA - Non Generators / No Longer Regulated
FUDS Formerly Used Defense Sites
DOD Department of Defense Sites
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR Financial Assurance Information
EPA WATCH LIST EPA WATCH LIST
2020 COR ACTION 2020 Corrective Action Program List
TSCA Toxic Substances Control Act
TRIS Toxic Chemical Release Inventory System
SSTS Section 7 Tracking Systems
ROD Records Of Decision
RMP Risk Management Plans
RAATS RCRA Administrative Action Tracking System
PRP Potentially Responsible Parties
PADS PCB Activity Database System
ICIS Integrated Compliance Information System
FTTS FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS Material Licensing Tracking System
COAL ASH DOE Steam-Electric Plant Operation Data
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER PCB Transformer Registration Database
RADINFO Radiation Information Database
HIST FTTS FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS Incident and Accident Data
CONSENT Superfund (CERCLA) Consent Decrees

EXECUTIVE SUMMARY

INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
UXO ---- Unexploded Ordnance Sites
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
NY AIRS ---- Air Emissions Data
NY COAL ASH ---- Coal Ash Disposal Site Listing
NY DRYCLEANERS ---- Registered Drycleaners
NY E DESIGNATION ---- E DESIGNATION SITE LISTING
NY Financial Assurance ---- Financial Assurance Information Listing
NY HSWDS ---- Hazardous Substance Waste Disposal Site Inventory
NY SPDES ---- State Pollutant Discharge Elimination System
NY VAPOR REOPENED ---- Vapor Intrusion Legacy Site List
NY UIC ---- Underground Injection Control Wells

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA HWS ---- Recovered Government Archive State Hazardous Waste Facilities List
NY RGA LF ---- Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 09/13/2017 has revealed that there are 3 RCRA-CESQG sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KEENER'S EAST END LI	***24 GOODFRIEND DR***	***WNW 1/2 - 1 (0.513 mi.)***	***1***	***8***
VETERINARY CLINIC OF	***3 GOOD FRIEND DR***	***NW 1/2 - 1 (0.558 mi.)***	***A4***	***19***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
SOUTH FORK ANIMAL HO	***MONTAUK HWY***	***SSE 1/2 - 1 (0.981 mi.)***	***26***	***52***

State and tribal leaking storage tank lists

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 10/31/2017 has revealed that there are 4 NY LTANKS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE ROSS SCHOOL	18 GOODFRIEND DRIVE	NW 1/2 - 1 (0.562 mi.)	A6	28
Date Closed: 2005-06-06				
Site ID: 136827				
Site ID: 136828				
Site ID: 136829				
Site ID: 136830				
Site ID: 136831				
**Additional key fields are available in the Map Findings section*				
Program Number: 0403767				
Program Number: 0405015				
Program Number: 0425201				
Program Number: 0425202				
Program Number: 0425203				
**Additional key fields are available in the Map Findings section*				
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
SOUTHAMPTON BRICK &	RTE 27A & DANIEL HOL	S 1/2 - 1 (0.812 mi.)	17	45

EXECUTIVE SUMMARY

Date Closed: 1987-02-05
Site ID: 130773
Program Number: 8605122

EAST HAMPTON AIRPORT	***INDUSTRIAL ROAD***	***WSW 1/2 - 1 (0.971 mi.)***	***C23***	***48***
Date Closed: 1997-08-14 Site ID: 302402 Program Number: 9500061				
EASTHAMPTON AIRPORT	DANIEL SHORE ROAD	WSW 1/2 - 1 (0.975 mi.)	C25	51
Date Closed: 1988-06-07 Site ID: 118587 Program Number: 8800547				

State and tribal registered storage tank lists

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, has revealed that there are 3 NY UST sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROSS SCHOOL ATTN FAC Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Site Ref#: 06618 Facility ID: 06618	18 GOODFRIEND DR	NW 1/2 - 1 (0.522 mi.)	3	13
4 GOODFRIEND PARK IN Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Site Ref#: 06619 Facility ID: 06619	4 GOODFRIEND DR	NW 1/2 - 1 (0.580 mi.)	9	37

Lower Elevation	Address	Direction / Distance	Map ID	Page
ANIMAL RESCUE FUND O Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Site Ref#: 15662 Facility ID: 15662	90 DANIELS HOLE RD	SW 1/2 - 1 (0.725 mi.)	12	42

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to

EXECUTIVE SUMMARY

manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 07/23/2017 has revealed that there are 18 FINDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KEENER'S EAST END LI	***24 GOODFRIEND DR***	***WNW 1/2 - 1 (0.513 mi.)***	***1***	***8***
VETERINARY CLINIC OF	***3 GOOD FRIEND DR***	***NW 1/2 - 1 (0.558 mi.)***	***A4***	***19***
VET CLINIC	3 GOODFRIEND DR	NW 1/2 - 1 (0.558 mi.)	A5	28
ROSS SCHOOL PROPERTY	18 GOODFRIEND DR	NW 1/2 - 1 (0.562 mi.)	A7	36
VETERINARY CLINIC OF	***FOUR GOODFRIEND DR S***	***NW 1/2 - 1 (0.570 mi.)***	***8***	***37***
TURNPIKE COMMERCIAL	ROUTE 114 & PLANK RO	NW 1/2 - 1 (0.864 mi.)	21	48

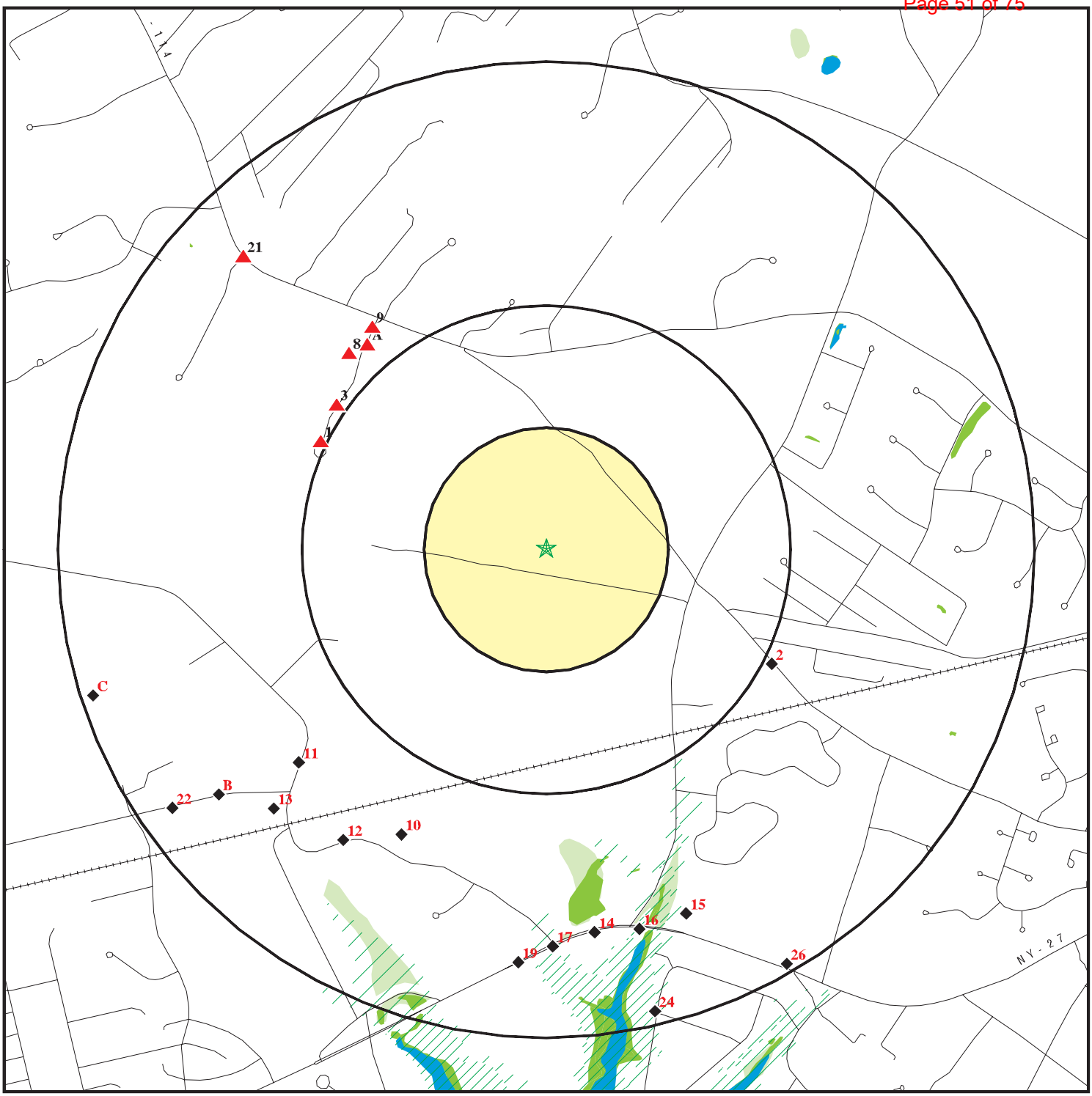
Lower Elevation	Address	Direction / Distance	Map ID	Page
HAMPTON COUNTRY DAY	191 BUCKSKILL RD	ESE 1/2 - 1 (0.517 mi.)	2	12
ANIMAL RESCUE FUND O	90 DANIELS HOLE RD S	SSW 1/2 - 1 (0.654 mi.)	10	41
EAST HAMPTON INDOOR	175 DANIELS HOLE RD	SW 1/2 - 1 (0.668 mi.)	11	41
WAINSCOTT FARMS	***3 INDUSTRIAL ROAD***	***SW 1/2 - 1 (0.770 mi.)***	***13***	***44***
POND ACQUISITION COR	253 MONTAUK HWY	S 1/2 - 1 (0.790 mi.)	14	44
ST RTE 27 & RTE 113	SUNRISE HWY AND STEP	SSE 1/2 - 1 (0.798 mi.)	15	45
POND ACQUISITION COR	249 MONTAUK HWY	SSE 1/2 - 1 (0.800 mi.)	16	45
SHAW AERO DEVICES IN	***INDUSTRIAL ROAD***	***SW 1/2 - 1 (0.837 mi.)***	***B18***	***46***
POND ACQUISITION COR	291 MONTAUK HWY	S 1/2 - 1 (0.847 mi.)	19	47
EAST HAMPTON AIR	***INDUSTRIAL RD***	***SW 1/2 - 1 (0.855 mi.)***	***B20***	***47***
39 INDUSTRIAL ROAD L	39 INDUSTRIAL RD	SW 1/2 - 1 (0.930 mi.)	22	48
HALPERN PROPERTY	48 GEORGICA CLOSE RD	SSE 1/2 - 1 (0.971 mi.)	24	50

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
BULL PATH LANDFILL	SEMS-ARCHIVE

OVERVIEW MAP - 5152136.2S

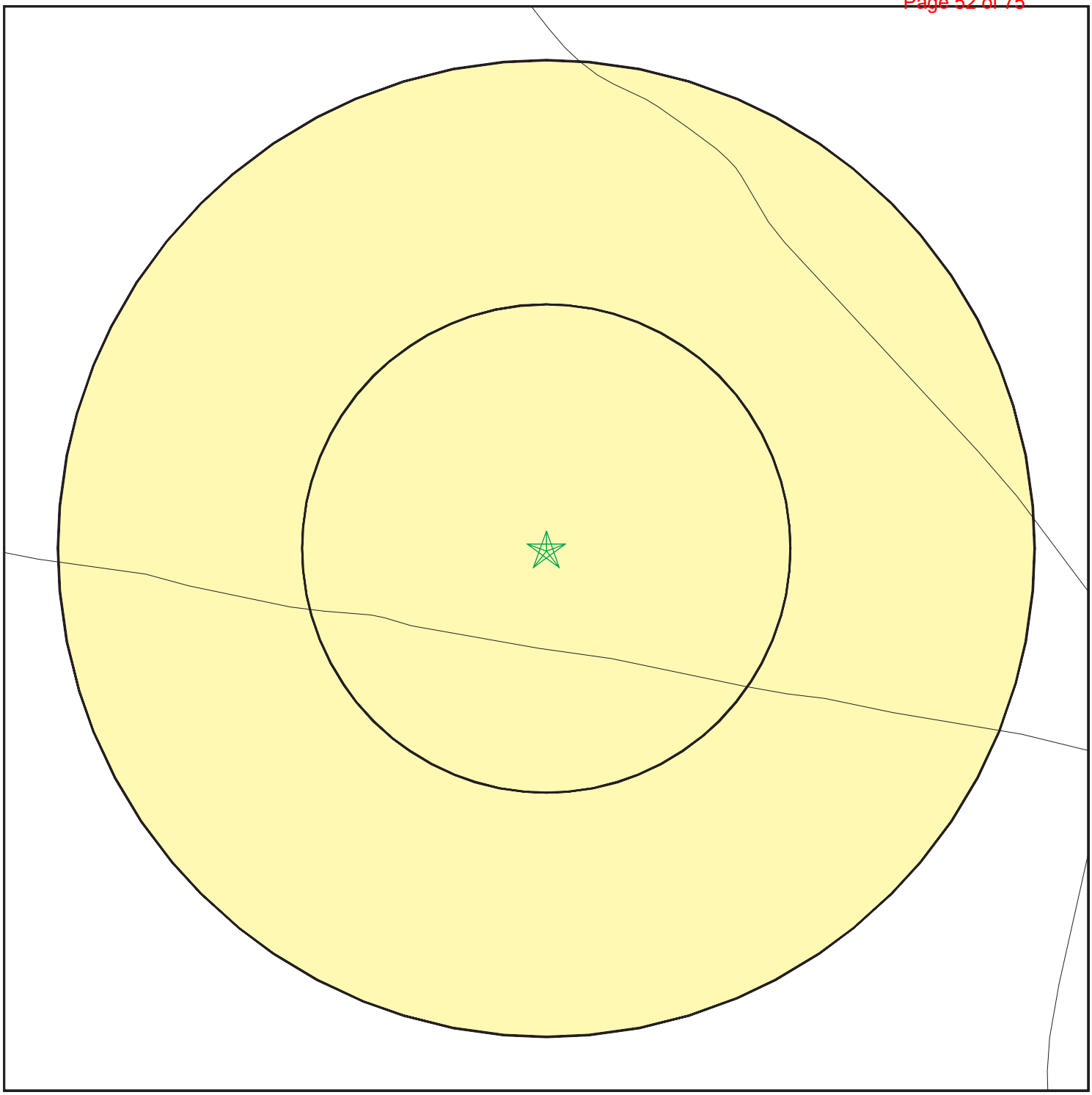


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Stephen Hands Path Wells Nos. 1 & 2	CLIENT: Suffolk County Water Authority
ADDRESS: Stephen Hands Path East Hampton NY 11937	CONTACT: Rich Bova
LAT/LONG: 40.964331 / 72.23355	INQUIRY #: 5152136.2s DATE: January 05, 2018 5:52 pm

DETAIL MAP - 5152136.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA

0 1/16 1/8 1/4 Miles

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Stephen Hands Path Wells Nos. 1 & 2	CLIENT: Suffolk County Water Authority
ADDRESS: Stephen Hands Path East Hampton NY 11937	CONTACT: Rich Bova
LAT/LONG: 40.964331 / 72.23355	INQUIRY #: 5152136.2s DATE: January 05, 2018 5:53 pm

Appendix G

ENGINEERING REPORT - DISTRIBUTION SYSTEM IMPROVEMENT

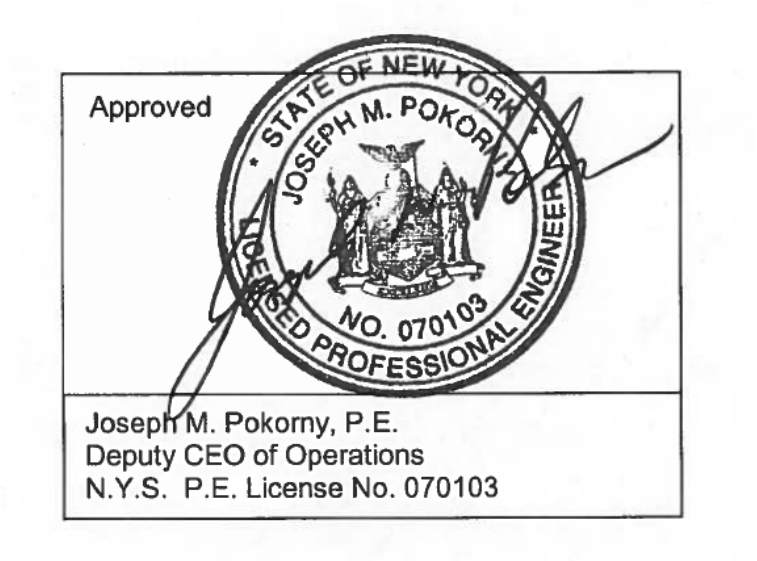
Proposal to install approximately 45,000 feet of 16", 12", 8" and 6" inch water mains and 1", 1 ½" and 2" water services on various streets and properties in Wainscott, Town of East Hampton.

Suffolk County, New York Implementation Agency:

Suffolk County Water Authority
Oakdale, New York 11769
Joseph M. Pokorny, P.E.
Deputy CEO of Operations

Prepared By:

Suffolk County Water Authority
Engineering Department
PO Box 38
Great River, New York



I. Executive Summary

The Suffolk County Water Authority (SCWA) proposes to install new water mains and services on various streets in Wainscott in the Town of East Hampton for purposes of supplying public water to existing homes and businesses with private wells. Approximately 520 private wells in this area are threatened by contamination from perfluorinated chemicals. These include the emerging contaminates PFOS and PFOA, which have been found in a number of private wells, in some cases at concentrations above health advisory levels. In order to serve the impacted homes and businesses it will be necessary to extend the existing public water supply system of water mains into these areas. It will also be necessary to install water service lines between the water main and the structure to be served. Existing private wells will be disconnected from the structure's internal plumbing system so as to prevent a potential cross contamination of the structure and the public water system. The proposed 16", 12", 8" and 6" water main will be ductile iron pipe along with directional drills that utilize 16" and 8" H.D.P.E (DR-9) and 24" steel casing. Within the project area, the 1", 1 ½" and 2" water services will connect both existing water mains and the new water mains, within the road right of way and on private properties into existing structures. Water services will be copper and HDPE. The plans for all work contemplated under this project shall be developed in accordance with applicable AWWA standards, NYS Department of Health standards and Ten States standards.

The water mains to be installed will supply properties in an area of Wainscott south of East Hampton Airport in the Town of East Hampton. The project area is delineated on the north by Industrial Road, on the west by Town Line Road and the East Hampton Town line and eastern boundary of the Incorporated Village of Sagaponack, south by the Atlantic Ocean and east by Georgica Pond and Daniels Hole Road. The estimated cost of the main installation and water services is estimated to be $24,344,878, which is proposed to be financed by the issuance of bonds of the Town.

The SCWA performed a State Environmental Quality Review Act review of the project by preparing and reviewing a Long Environmental Assessment Form Parts I, II and III. The SCWA coordinated its review with the Town and Environmental Facilities Corporation (EFC). On May 4, 2018 the SCWA declared itself Lead Agency and issued a Negative Declaration. The EFC directed SCWA to review this project as a Type I action under SEQRA. The EFC was included within the SEQRA review because it is anticipated that the Town and the SCWA will apply jointly for an EFC Intermunicipal Grant to pay for some or all of this project.

II. Project Background and History

A. Background

The Hamlet of Wainscott lies to the south of the Town of East Hampton Airport. The project area is delineated on the north by Industrial Road, on the west by Town Line Road and the East Hampton town line, south by the Atlantic Ocean and east by Georgica Pond, Montauk Highway and Daniels Hole Road. Within this area are approximately 520 residential and commercial properties that are served by private wells. Sampling of these wells by the Suffolk County Department of Health services has revealed the presence of the compounds PFOS and PFOA in these wells. The current EPA Health Advisory for a combination of these compounds is 70 parts per trillion (PPT). Several of the wells have tested above the EPA Health Advisory level.

In order to protect public health, the Town has determined it will be necessary to extend the public water system into the general area of where contamination has been found. Connecting residents to the public water system and disconnecting their private wells from the potable water plumbing system within the structure will ensure that residents are consuming water that is free of contamination.

The Town has worked together with the SCWA to identify those structures that will require connection to the public water system. The SCWA has developed the plans whereby new water mains will be installed along with the house service lines in order to provide for a complete system. There are several locations where water mains had been previously been installed but where all structures along its route had not been connected. This project addresses those structures by including the costs and fees associated with the installation of the service lines needed to connect those structures to the existing main. Figure 1 below is a distribution map in the vicinity of the project area and shows the locations of existing water mains and the location of the proposed water main installations.

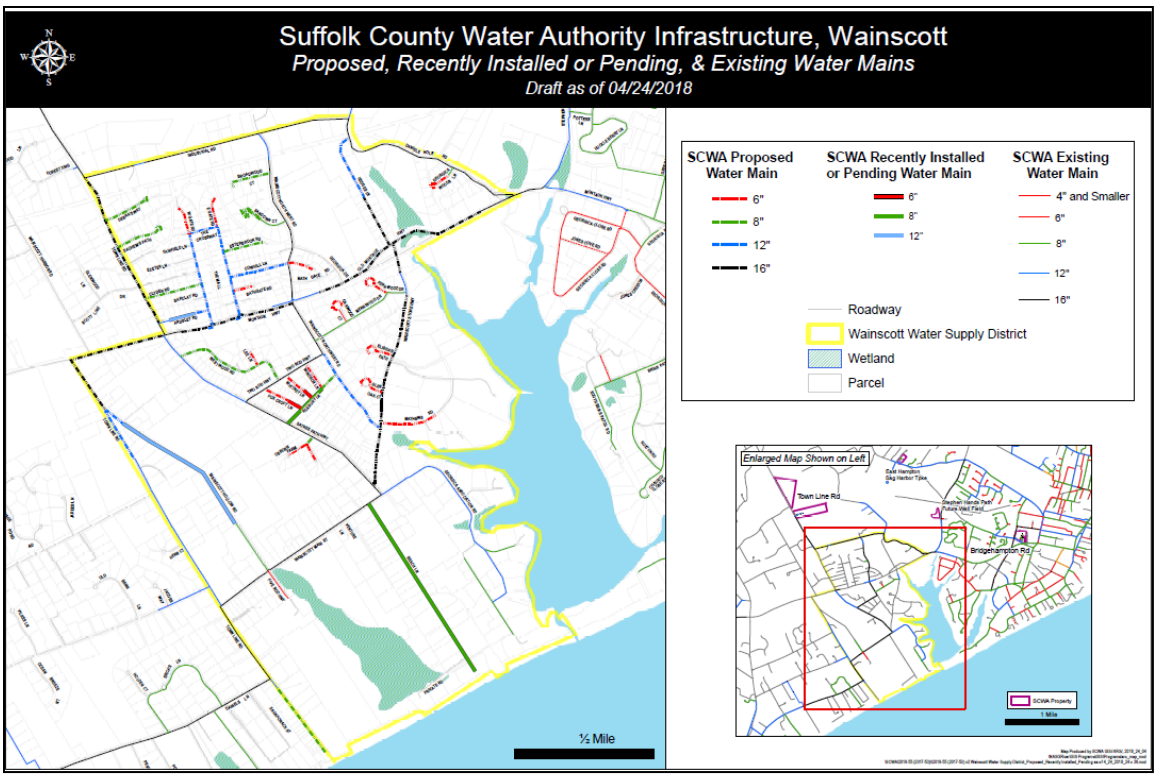


Figure 1 Distribution Map in the Vicinity of Exist Water Main and Proposed Main Improvement Project

B. Site Information

1. Location

The accompanying map entitled “Location of Water Main Installation - Suffolk County Regional Map” Figure 2 presents a generalized regional illustration of the location of the main installation in Wainscott. Figure 3 is a contour map of the Wainscott area made from the Light Detection and Ranging (LiDaR) Suffolk County Digital Elevation Model, and Figure 4 is an aerial of the immediate vicinity of the proposed main installation.

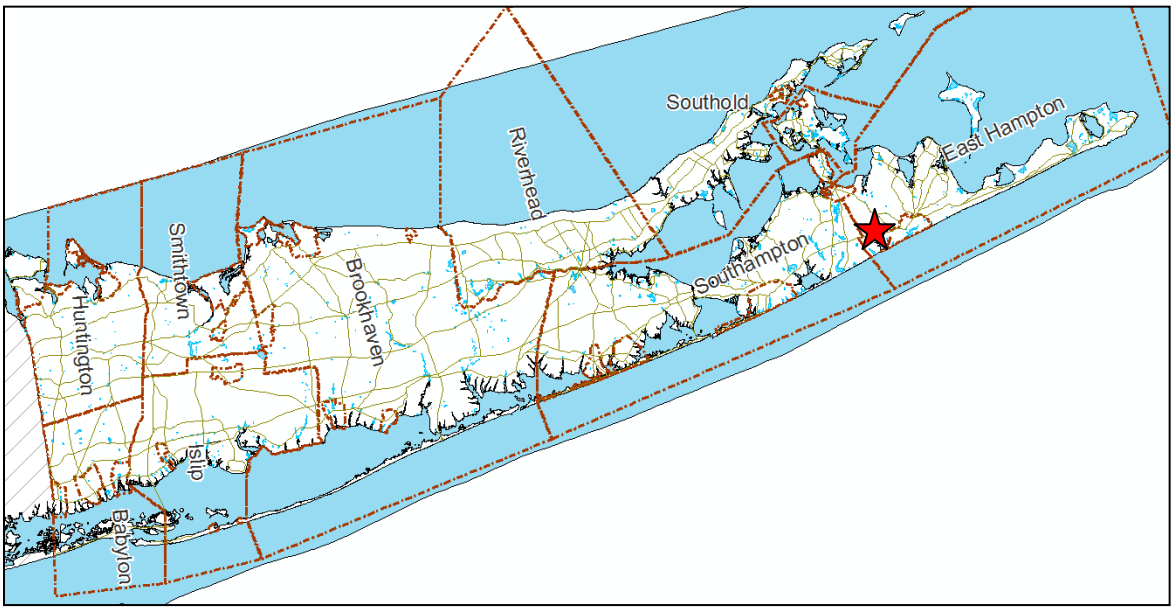


Figure 2 Location of Water Main Installation - Suffolk County Regional Map

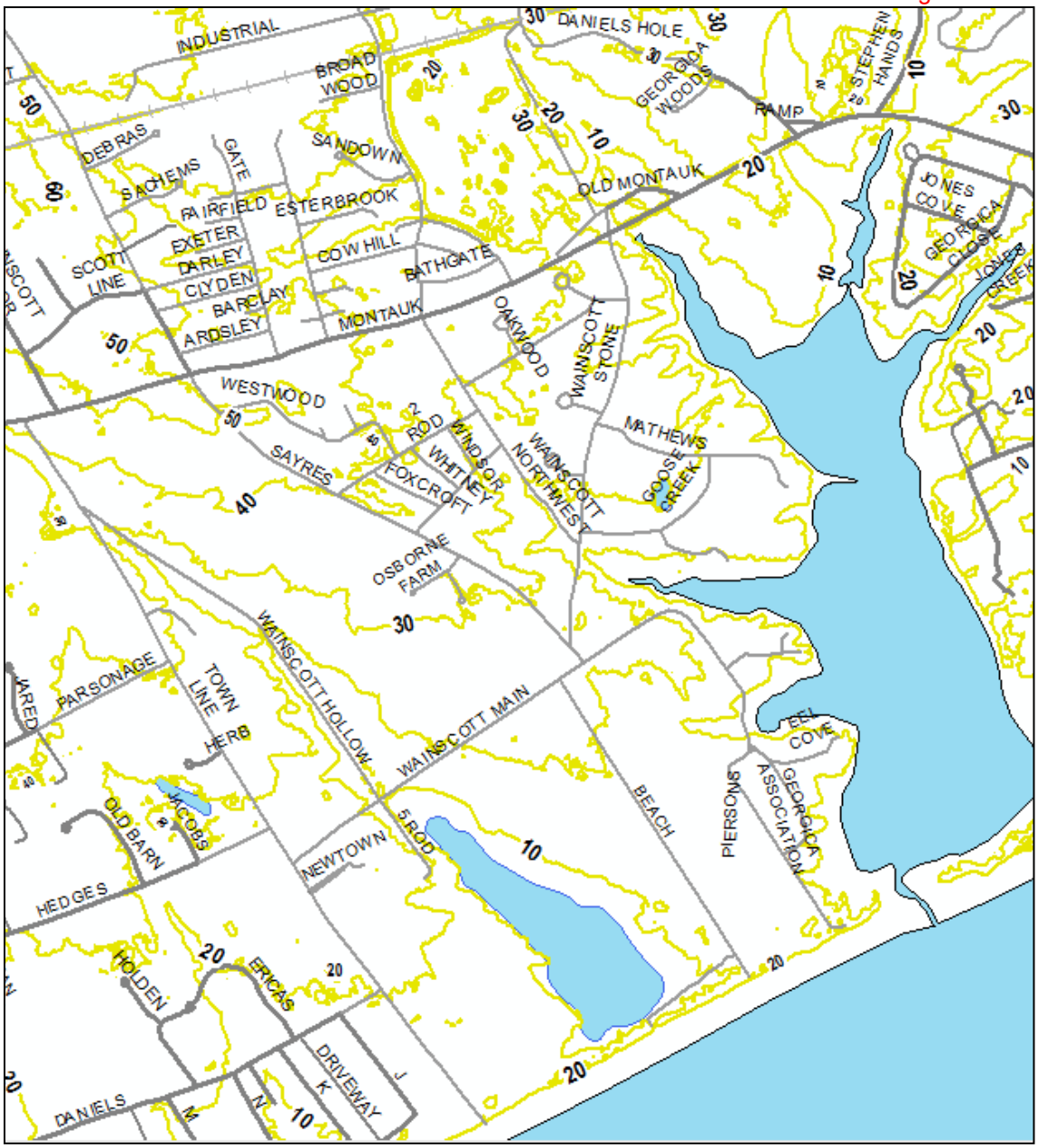


Figure 3 Light Detection and Ranging (LiDaR) Suffolk County Digital Elevation Model

Figure 4 Aerial of the Immediate Vicinity of the Proposed Main Installation

1. Natural Resources On or Near Project Site

The average depth to bedrock near the project area is approximately 1,350 feet below grade and the predominant soil types present are Carver and Plymouth Sands. Drainage status of the project site soils are well drained. The average depth to the water table in the area of the project site is between 11 and 50 feet below grade.

C. Ownership and SCWA Service Area

1. SCWA Service Area

The overall SCWA service area presently consists of over 40 individual pressure zones, most of which are interconnected. The South Fork Low water supply system serves most of the South Fork. Within the South Fork Low water supply system, there are several intermediate pressure zones that serve higher elevations as well and water from the South Fork Low is boosted to the Montauk Low water supply system during peak demand periods. During the calendar year 2017, the SCWA produced 68.7 billion gallons of water for 386,935 customer accounts providing water to approximately 1.5 million people in Suffolk County. Figure 5 shows SCWA existing facilities in the South Fork Low water supply system and Figure 6 shows SCWA existing facilities in the vicinity of the Wainscott Water Supply District.

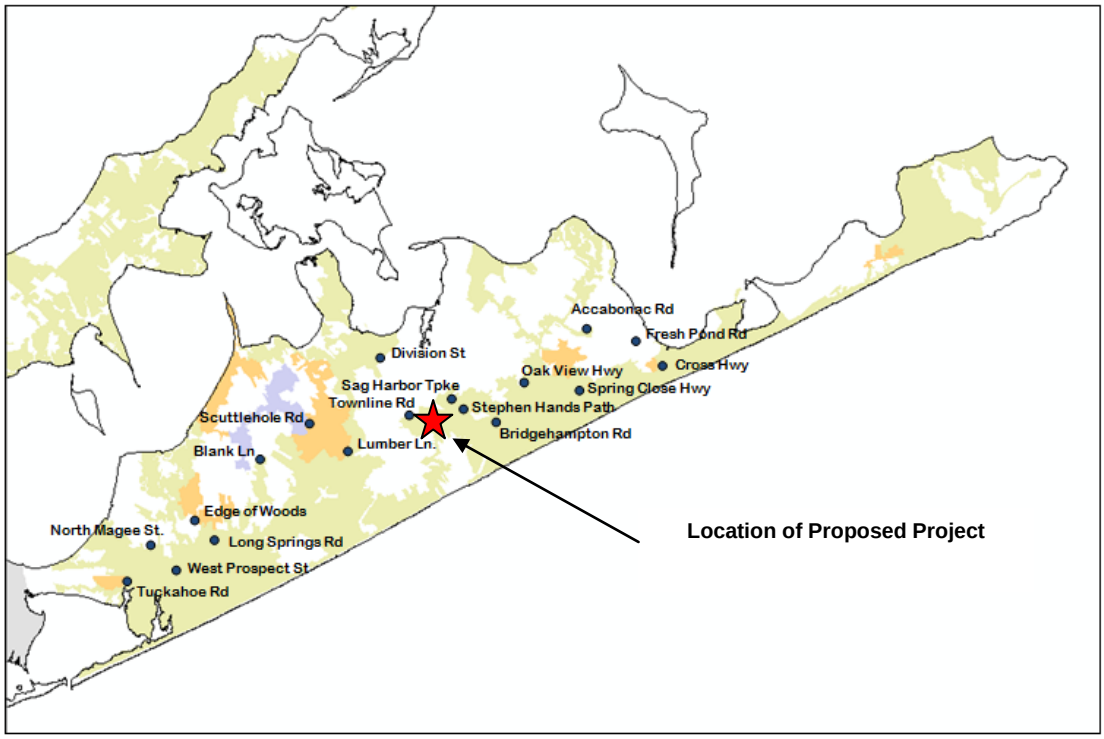


Figure 5 Suffolk County Water Authority
Existing Facilities in the South Fork Low Water Supply System

Figure 6 Suffolk County Water Authority Existing Facilities in the Vicinity of the Wainscott Water Supply District

2. Population Trends and Growth

The SCWA has been studying the population of its water supply systems since 1987, when the Suffolk County Department of Planning (SCDP) compiled its first report. Immediately after that study, the boundaries of some SCWA systems changed, and the population growth in Suffolk County as a whole leveled off. In January of 1996, the original study was updated using more recent data, and predictions were made to the year 2020, accounting for more recent population trends. The SCDP also estimates the seasonal population is 56,225 for this area. According to the Town of East Hampton Hamlet Report January 2018, the population of Wainscott is 719. The SCDP has made the following predictions as to the population within the South Fork Low water supply system service area through 2020:

YEAR	POPULATION
1995	26,470*
2000	30,016*
2010	37,137*
2015	39,181*
2020	40,485

* Figures do not include seasonal population

3. Proposed Town of East Hampton Wainscott Water Supply District

As part of the plan to fund the project the Town of East Hampton will create the Wainscott Water Supply District. Figure 7 shows the boundaries of the district, parcels (872 properties), as well as existing SCWA water main. The Wainscott Water Supply District is the hamlet of Wainscott, in the Town of East Hampton, south of East Hampton Airport. Such area is delineated on the north by Industrial Road, on the west by Town Line Road and the East Hampton Town line and eastern boundary of the Incorporated Village of Sagaponack, south by the Atlantic Ocean and east by Georgica Pond and Daniels Hole Road.

Figure 7 Town of East Hampton Wainscott Water District with existing Suffolk County Water Authority Water Main

4. Growth Inducing Impact and Zoning

The Wainscott Water Supply District is being created to insure a source of clean drinking water throughout an area where perfluorinated chemicals have been detected in numerous private wells (Testing is ongoing, but as of early May, PFCs at varying levels have been detected in 140 out of 268 wells sampled.)

At present, water mains serve only a part of the at-risk area; their extension is not to serve further development and growth outside the hamlet center but specifically to provide safe water to existing residents.

The district includes the Wainscott hamlet center and business district, which contains the largest developable parcel within the water supply district. This parcel is identified in an East Hampton Town planning study, the Wainscott Hamlet Study, as a potential mixed-use development site that could potentially accommodate a transit center, housing, business uses, and open space for recreation.

Outside the hamlet center, the potential for further development and sprawl is constrained by a combination of factors, including the zoning code (most of the large remaining lots are not subdividable, or could be subdivided into only a small number of lots), and various legal restrictions on development of the large parcels, which include farmland protection statutes, town purchases of development rights over agricultural lands and open space, and town land purchases through the Community Protection Fund, which prohibits development.

There is currently a moratorium on development in Wainscott. In addition, a goal of the East Hampton Town Comprehensive Plan is “protection of the existing character” of the town, which includes “prohibiting commercial sprawl between hamlet centers, protecting scenic approaches to hamlet centers, and limiting traffic-producing new development along main arterial roadways.” (East Hampton Town Comprehensive Plan, 2005, p. 110). Land acquisition, upzoning, and other tools and legislation, as mentioned above, have been employed to achieve these goals in Wainscott as in the rest of the town.

5. Land Use

Table 1

Wainscott Water District Parcel Breakdown

SCWA Category	
CUSTOMER	172
DEVELOPED, NON-CUSTOMER	520
PROTECTED	28
SERVICE NOT REQUIRED	71
VACANT	57
Total	848

EH_Category	
Improved	762
Protected	29
Vacant	57
Total	858

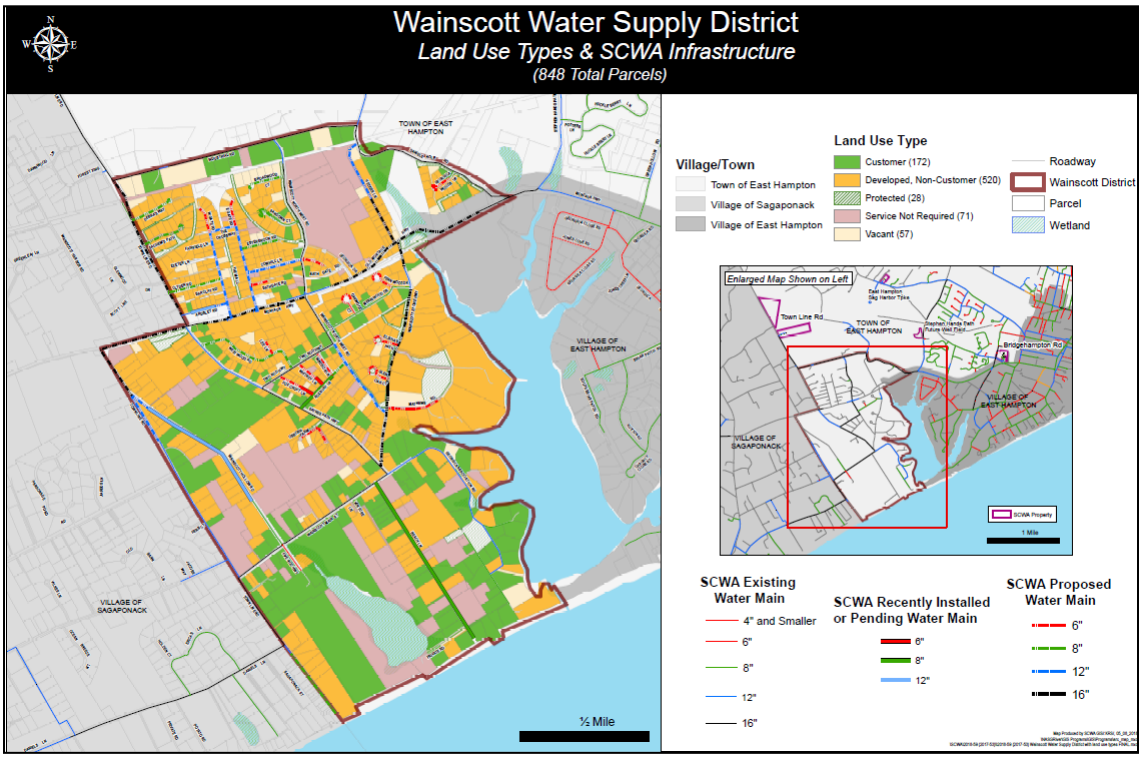


Figure 8 Town of East Hampton Wainscott Water District Land Use Types and Suffolk County Water Authority Infrastructure

6. Non-Community Water Supply Systems

According to available data there are eight non-community water supply systems within the area of the proposed project area. The installation of the proposed new water mains will give establishments served by non-community water supply systems the opportunity to connect to the SCWA's water supply system. In addition to improved water quality connecting to the public water supply system will also enhance fire protection and resiliency.

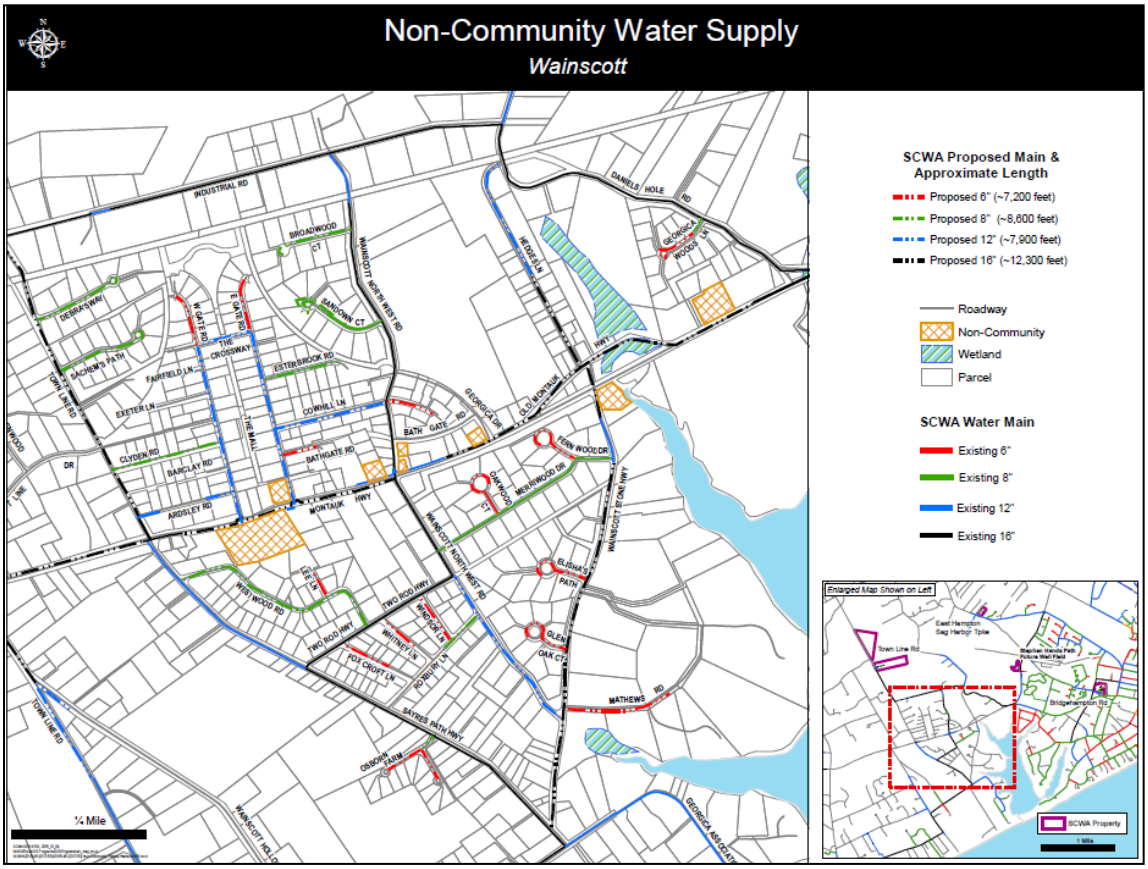


Figure 9 Non-Community Water Supply Systems

D. Existing Facilities and Present Conditions

1. South Fork Low Physical System

Within the South Fork Low water supply system there are seventeen well fields, fifty eight wells and four elevated tanks. In general the number of services in water supply system has remained constant over the past several years. The SCWA expects approximately 520 new customers when service is expanded in the Wainscott area. As shown on the Table 2 there is adequate capacity in the South Fork Low water supply system to serve the addition of 520 potential new customers however it is anticipated that the area will continue to experience growth in the future. In order to meet future peak demand it will be necessary for the SCWA to develop additional sources of supply through the construction of new wells and new well fields. The most recent analysis of customer growth is shown below:

	2013	2014	2015	2016	2017	2018
Number of Services	20,321	20,516	20,629	21,094	21,116	21,169

Table 2
Peak Demand Analysis

	2018	Addition of 520 Potential New Services
2018 SCWA Services	**21,169**	**21,689**
Peak Demand Rate per Service		
Highest GPM peak demand rate between 2012 and 2016 (39,862 GPM/20,629 Services in 2015)	**1.93**	**1.93**
Projected System Peak Demand Rate (GPM)	**40,856**	**41,860**
Total system capacity (GPM) from Table 3	**42,770**	**44,070****
Includes capacity from the future Stephen Hands Path well field **		
Less 5% capacity from wells that are Out of Service due to Maintenance	**(2139)**	**(2204)**
Difference (GPM)	**(225)**	**6**

Table 3

Suffolk County Water Authority Wells
South Fork Low Water Supply System

	S#	WSA#	Decision Date	Dia.	Depth	Aq.	Date In Service	Structure	Pump	Authorized Cap. (GPM)
Accabonac Rd 1	123717	10700	12/1/2004	20 x 14	163	G	3/22/06	Bldg.	DWT	1,000
Accabonac Rd 2	123718	10700	12/01/2004	20 x 14	153	G	3/22/06	Bldg	DWT	1,000
Blank Ln 1	128774	10935	8/15/2006	12 x 10	118	G	10/13/11	Bldg	SUB	350
Blank Ln 2	130299	10935	8/15/2006	12 x 10	118	G	8/10/11	Bldg	SUB	350
Blank Ln 3	134150	10935	8/15/2006	12 x 10	118	G	6/28/16	Bldg	SUB	350
Bridgehampton Rd 2A	83707	7557	1/23/1986	12	123	G	5/10/82	Vault	DWT	500
Bridgehampton Rd 3A	120485	10403	10/18/2002	20 x 14	120	G	10/3/03	Bldg.	DWT	1,020
Bridgehampton Rd 4	49422	6259	5/1/1973	16 x 12	148	G	7/2/74	Vault	DWT	700
Bridgehampton Rd 5A	131191	11553	1/10/2012	16 x 14	134	G	10/15/12	Bldg.	DWT	1,000
Cross Highway 1	30227	6532	5/1/1975	12	151	G	5/28/05	Bldg.	DWT	750
Cross Highway 2	30228	6748	5/5/1977	12	151	G	4/24/78	None	Sub	350
Division St. #1A	128139	11172	7/28/2008	20 x 14	163	G	5/27/09	Bldg.	DWT	500
Division St. #2A	132776	5722	2/24/2014	20 x 10	170	G	3/3/15	Bldg.	DWT	1,000
Division St. #3	62855	6733	4/18/1977	20 x 10	167	G	3/13/80	Vault	DWT	700
Division St. #4	96352	8253	8/1/1989	16 x 10	272	M	5/28/92	Vault	DWT	700
Edge of Woods Rd. #1	69511	7017	12/28/1979	20 x 10	268	M	5/10/82	Vault	DWT	1,000
Edge of Woods Rd. #2	71892	7156	8/17/1981	16 x 10	366	M	8/17/81	Vault	DWT	1,000
Edge of Woods Rd. #3	120091	10342	5/11/2004	20 x 14	258	M	8/12/02	Bldg.	DWT	1,000
Fresh Ponds #1	132094	11592	8/10/2012	20 x 10	123	G	6/16/14	Bldg.	SUB	300
Fresh Ponds #2	132095	11592	8/10/2012	20 x 10	283	M	6/16/14	Bldg.	SUB	300
Long Springs Rd. #1A	117831	10322	10/31/2002	20 x 14	100	G	3/18/02	Bldg.	DWT	800
Long Springs Rd. #3B	122603	10606	4/1/2004	20 x 14	99	G	2/18/05	Bldg	DWT	500
Long Springs Rd. #4B	122602	10605	4/1/2004	20 x 14	108	G	2/18/05	Bldg	DWT	500
Long Springs Rd. #5B	122601	10595	4/1/2004	20 x 14	99	G	2/18/05	Bldg	DWT	700
Long Springs Rd. #6	67819	6928	4/13/1979	16 x 10	284	M	6/26/80	Vault	DWT	700
Long Springs Rd. #7	112293	9584	11/20/1997	16	265	M	5/19/99	Bldg.	DWT	700
Lumber Lane #4A	131131	11549	10/14/2011	16 x 14	168	G	8/27/12	Bldg.	DWT	500
Lumber Lane #5	78612	8767	1985	12 x 8	250	M	5/15/92	Bldg.	DWT	1,000
Lumber Lane #6	123937	10712	3/17/2005	16	263	M	1/4/06	Bldg.	DWT	700
Lumber Lane #7	130044	11397	10/27/2010	16 x 14	263	M	7/13/11	Bldg.	DWT	1,000
N. Magee St. #1	74865	7318	8/22/1983	20 x 10	193	G	7/15/84	Vault	DWT	700
N. Magee St. #2	79293	7355	8/23/1983	16 x 12	158	G	7/18/86	Vault	DWT	1,000
N. Magee St. #3	115706	9967	4/5/2000	20 x 14	158	G	2000	Bldg.	DWT	1,000
N. Magee St #4	133926	11782	6/17/15	20 x14	209	G	6/16/16	Bldg	DWT	1,000
Oak View Highway 1A	99275	8621	4/16/1991	16 x 12	222	M	5/27/94	Bldg.	DWT	500
Oak View Highway 2A	119865	10327	5/01/2002	20 x 10	458	M	7/23/03	Bldg.	DWT	700
Oak View Highway 3	78310	7488	12/21/1984	16 x 12	303	M	8/27/86	Vault	DWT	500
Oak View Highway 4	133799	11779	6/2/2015	20 x 10	226	G	7/5/2016	Bldg.	DWT	500
Sag Harbor Turnpike 1	102721	8789	1/19/1993	20 x 10	383	M	11/20/96	Bldg.	DWT	1,300
Sag Harbor Turnpike 2	115545	9895	4/1/2000	20 x 10	293	M	1/26/01	Bldg.	DWT	1,300

Scuttlehole Rd. # 1A	128458	11219	1/30/2009	20 x 10	458	M	12/1/09	Bldg.	DWT	1,000
Scuttlehole Rd. #2	106977	9134	9/26/1994	20 x 10	480	M	5/1/97	Bldg.	DWT	1,300
Scuttlehole Rd. #3	115975	9961	5/12/2000	20 x 10	453	M	7/6/02	Bldg.	DWT	1,300
Spring Close Hwy 1A	118818	10213	8/1/2001	20 x 14	125	G	7/6/02	Bldg.	DWT	1,000
Spring Close Hwy 2	66733	6844	8/29/1978	16 x 12	245	M	8/5/81	Vault	DWT	1,000
Spring Close Hwy 3	121048	10439	1/13/2002	20 x 14	128	G	12/3/03	Bldg.	DWT	1,300
Spring Close Hwy 4	134571	12207	3/28/17	20 x 10	130	G	Future	Bldg	DWT	500
Town Line Rd 1	118737	10398	1/9/2002	20 x 14	435	M	2003	Bldg.	DWT	1,000
Town Line Rd 2	120019	10398	1/9/2002	20 x 14	175	G	2003	Bldg.	DWT	1,000
Town Line Rd 3	130940	11506	6/23/2011	20 x 14	173	G	6/15/12	Bldg.	DWT	1,000
Tuckahoe Rd 1	25449	10218	1/15/2002	10	125	G	11/8/00	Bldg.	DWT	500
Tuckahoe Rd 2	31471	10218	1/15/2002	10	125	G	7/10/01	Pitless	SUB	500
W. Prospect St. #1	55028	6470	10/3/1974	10	160	G	4/30/76	Pitless	SUB	350
W. Prospect St. #2A	99014	8622	3/8/1991	12	252	M	5/25/94	Bldg.	DWT	350
W. Prospect St. #3	125974	10921	7/18/2006	12 x 10	158	G	8/1/07	Pitless	SUB	300
W. Prospect St. #4	125975	10921	7/18/206	12 x 10	154	G	8/1/07	Pitless	SUB	300
W. Prospect St. #5	128475	11212	12/04/2008	12 x 10	153	G	8/12/09	Pitless	SUB	300
W. Prospect St. #6	131738	11596	7/20/2012	12 x 10	163	G	5/24/13	Pitless	SUB	300

CURRENT SYSTEM CAPACITY **42,770**

Future Well Supply

Stephen Hands Path wells nos. 1 and 2 each at 650 GPM 1,300

FUTURE SYSTEM CAPACITY **44070**

STORAGE FACILITIES	Type	Size (gal.)	Date In Service
Division St.	Standpipe	1,500,000	8/28/1972
Edge of Woods Rd.	Reservoir	2,000,000	4/15/1986
Spring Close Highway	Hydropillar	500,000	4/15/1986
W. Prospect St.	Elevated	1,000,000	7/19/1990

TOTAL STORAGE CAPACITY **5,000,000**

E. Definition of the Problem

1. Water Quality in the Wainscott Water Supply System

The Suffolk County Department of Health Services confirmed the presence of PFOS and PFOA in private wells located south of the East Hampton Airport. Some of the collected samples levels exceed the United States Environmental Protection Agency Health Advisory Levels of 70 parts per trillion.

The Suffolk County Groundwater Model (Suffolk County Water Authority, Suffolk County Department of Health Service, and Camp, Dresser, McKee) was used to illustrate the general direction of groundwater flow in the area surrounding the proposed project location (Figure 10).

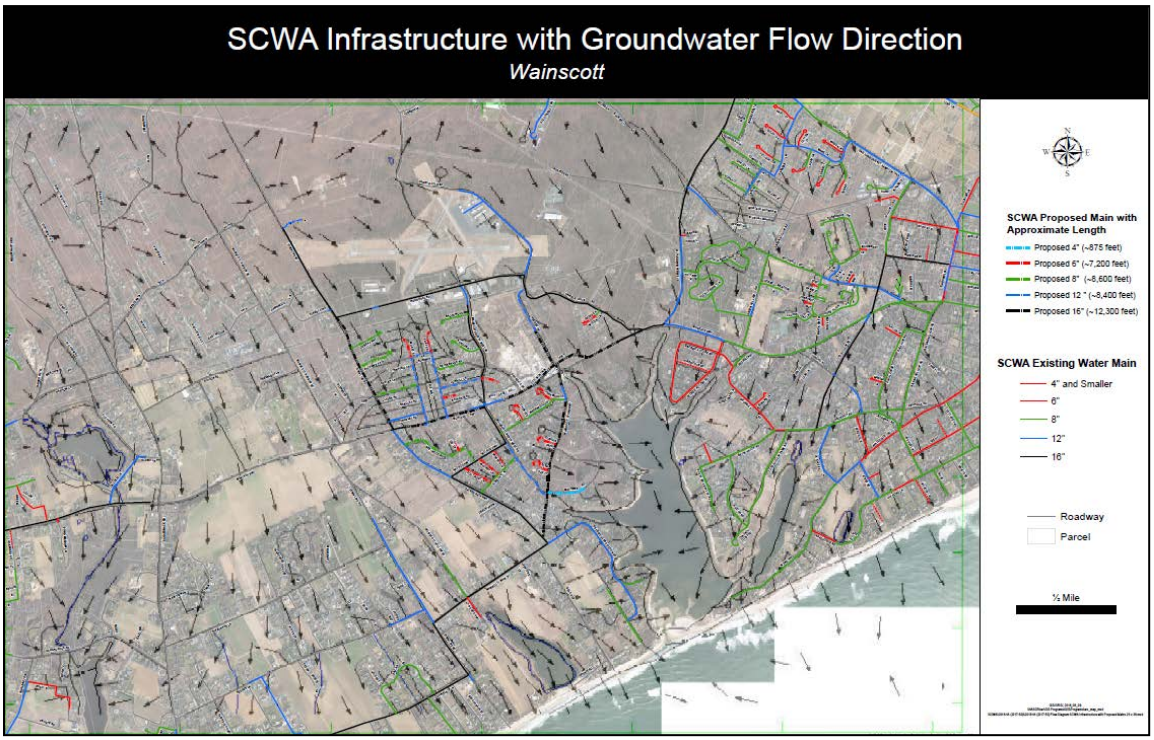


Figure 10 Suffolk County Water Authority Infrastructure with Groundwater Flow Direction

F. Secondary Project Benefits

1. Fire Flows

Prudent engineering practice would be to provide a minimum of 1,500 GPM available to fight fire at all times for residential customers and business requirements are typically higher. The project area does not have fire flow protection. The proposed water main installations would tie into the existing SCWA distribution system and bring new fire flow protection to the area.

2. Resilience and Redundancy

Expanding water main in Wainscott will greatly improve service redundancy by improving the distribution system in the immediate area especially along Town Line Road, Wainscott Stone Highway, and Montauk Highway. The improvement will allow the SCWA to more easily move water to areas in need especially during extended periods of power outages where only pump stations with auxiliary power provide the system with water and pressure.

Consideration of future physical climate risk due to sea-level rise, storm surge, and/or flooding was taken into consideration. A small portion of the proposed main installation at the southern end of Town Line Road is within a designated flood zone, however this is not a concern because the mains are pressurized and buried approximately 4 to 5 feet below grade and thus are unaffected by any overland flooding. If portions of the distribution system were damaged by flooding the SCWA has the capability to isolate broken water main and repair or retire accordingly.

Table 4

Stand-by Power in the South Fork Low Water Supply System

STATION	AVAILABLE PUMPS	# OF WELLS GENERATOR WILL OPERATE	# OF WELLS AVAILABLE ON GENERATOR
BRIDGEHAMPTON RD	ALL	4	4
DIVISION ST	ANY TWO	2	3
EDGE OF WOODS RD	ALL 3 BOOSTERS	BSTR	2
LONG SPRINGS RD	ANY 4	4	6
LUMBER LANE STATION	ALL	4 + 1 BSTR	4 + 1 BSTR
OAKVIEW HY	ANY TWO	2	3
SCUTTLEHOLE RD	ALL	3	3
SPRING CLOSE HY	ALL	3	3

G. Financial Status

1. Town of East Hampton Finance Plan

The project will be funded through the creation of a water supply district by the Town of East Hampton. At a meeting of the Town Board of the Town of East Hampton on May 8, 2018, the Town of East Hampton adopted a resolution that provides in relevant part the following description of its financial plan:

> WHEREAS, the maximum amount proposed to be expended for the construction of the Water Improvement is estimated to be $24,344,878, which is proposed to be financed by the issuance of bonds of the Town; and
>
> WHEREAS, the costs of the Water Improvement, including payment of principal of and interest on said bonds as the same may become payable, shall be borne partly by the area of the Town outside of any village and partly by the lands benefited thereby; and
>
> WHEREAS, such costs to be borne partly by the area of the Town outside of any village shall be paid by the assessment, levy and collection of assessments from the several lots and parcels of land in said area in annual installments in the same manner as other Town charges, and such costs to be borne partly by the lands benefited thereby shall be paid by assessment, levy and collection of assessments from the several lots and parcels of land within the Wainscott Water Supply Area which the Town Board shall determine to be especially benefited by the Water Improvement, so much upon and from each as shall be in just proportion to the amount of benefit which the Water Improvement shall confer upon the same, to pay the principal of and interest on said bonds as the same shall become due and payable; and
>
> WHEREAS, any funds received from the United States of America and/or the State of New York shall be applied towards such cost of construction or payment of the principal and/or the interest on the Town's obligations issued therefor, or will be budgeted as an offset to the taxes for the payment of the principal and interest on said obligations; and
>
> WHEREAS, the annual cost of operation and maintenance of said Water Improvement shall be paid by a charge upon the entire area of the Town outside of any villages and shall be levied and collected in the same manner and at the same time as other Town charges;

2. Suffolk County Water Authority Estimate for Water Service

Table 5

Suffolk County Water Authority 5/8/2018 **Wainscott - East Hampton Proposed Wainscott Water Supply District: Estimate for Water Service**	
Number of Properties:	520
Existing Water Mains Water Tap/Service Line Costs	
Surcharges for existing mains	$ 1,032,050
Tap fees	$ 413,050
Subtotal Taps & Surcharges	**$ 1,445,100**
Property Service line costs**	**$ 4,165,718**
Existing Water Main: Total Taps & Service Lines total	**$ 5,610,818**
New Water mains (no surcharge)	
Tap fees	**$ 904,450**
Property Service line costs**	**$ 8,386,370**
New water mains Taps and Service Lines total	**$ 9,290,820**
Subtotal for all Taps and Service Lines on New and Existing Mains	**$ 14,901,638**
Recent Main extensions Installation cost - Ardsley & Foxcroft/Roxbury	**$ 252,433**
Total Water Mains to be constructed: Proposed Wainscott Water Supply District	**$ 9,190,807**
Grand Total:	**$ 24,344,878**
**Estimate using contract bid prices not yet awarded,	

III. Alternatives Analysis

1. Point of Use and Point of Entry Water Treatment

Point of Use and Point of Entry water treatment devices are designed to treat domestic water use. The amount of water that can be treated varies however in general, a Point of Use device is installed on a single sink and a Point of Entry device is installed on the water line entering the house. The use of either device would require the homeowner to test regularly to ensure that standards for levels of contaminants are maintained. In addition, monitoring the efficiency of the device and replacement of the filtration medium would be an on-going task and expense at each of the approximate 520 new services.

Treating water at the well field to serve the community is considered a more viable option. The SCWA utilizes Granular Activate Carbon adsorption systems which are capable of treating hundreds of gallons of water per minute. Figure 11 shows four locations where Granular Activated Carbon adsorption systems are in service in the South Fork Low water supply system. In addition, the SCWA has adopted a policy to impose limits which are more restrictive than New York State standards for many contaminants.

Furthermore, Point of Use and Point of Entry water treatment devices do not improve fire protection to properties and do not contribute to system wide resiliency or redundancy.

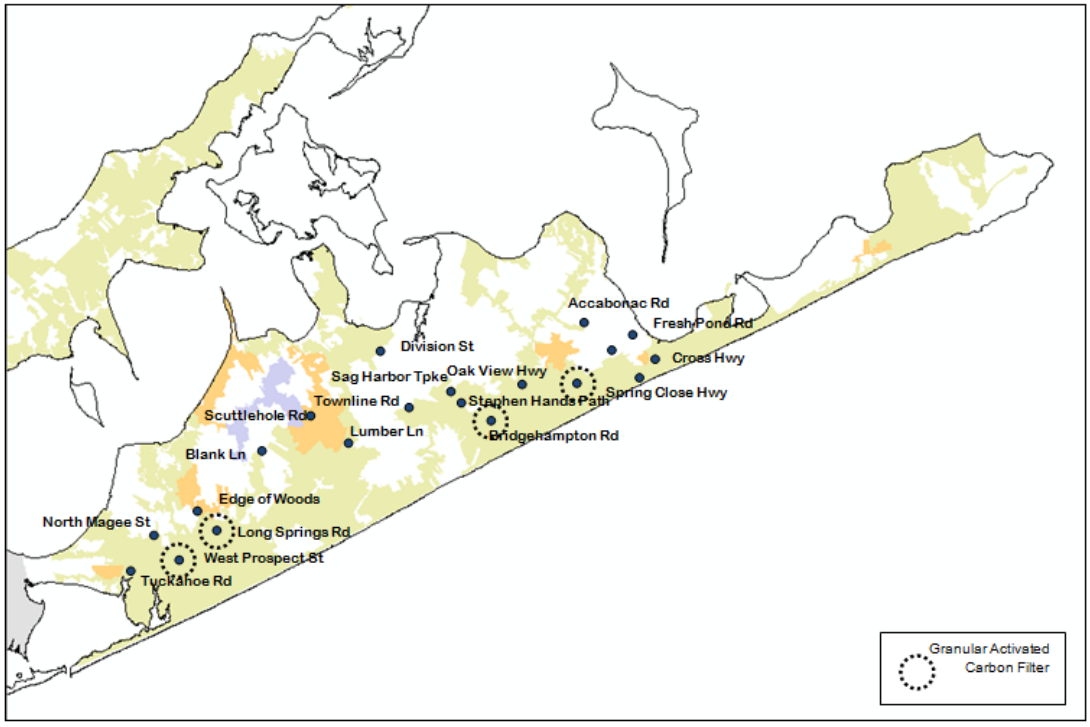


Figure 11 Map of Suffolk County Water Authority Well Fields with Usage of Remediation/Filtration Equipment in the South Fork Low Water Supply System

2. No Action

With no action taken the water supply to homes and businesses on private wells that are threatened by contamination from perfluorinated chemicals in the project area would remain the responsibility of the property owners. The installation of new water mains and water services will provide the option for these homes and businesses to connect to the public water supply system.