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REMEDIAL INVESTIGATION REPORT

FORMER SCOTT AVIATION FACILITY AREA 1
225 ERIE STREET
LANCASTER, NEW YORK

BROWNFIELD CLEANUP SITE NO. C915233

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List of Acronyms

AA	Alternatives Analysis
AAR	Alternatives Analysis Report
ALTA	American Land Title Association
ASTM	American Society for Testing Materials
AVOX	AVOX Systems Inc.
BCP	Brownfield Cleanup Program
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylene compounds
COC	Constituent of Concern
COPC	Constituent of Potential Concern
cm/sec	centimeters per second
DUSR	Data Usability Summary Report
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
ESI	Environmental Site Investigation
ft	feet
ft/ft	foot per foot
FWIA	Fish and Wildlife Impact Analysis.
HASP	Health and Safety Plan
HSA	Hollow Stem Auger
ICP	Inductively Coupled Plasma
ID	Inside Diameter
IDW	Investigation-Derived Waste
IRM	Interim Remedial Measure
IRM/SSI	Interim Remedial Measure/Supplemental Site Investigation
K	Hydraulic Conductivity
L/min	liters per minute
mg/Kg	milligram per kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
μg/L	microgram per liter
$\mu g/m^3$	microgram per cubic meter
NAD83	North American Datum of 1983
NYCRR	New York State Official Compilation of Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	polychlorinated biphenyl
PGA	Preliminary Groundwater Assessment
PID	photoionization detector
ppm	parts per million
PVC	polyvinyl chloride
RI	Remedial Investigation
RIR	Remedial Investigation Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
SCO	Soil Cleanup Objectives
SVI	Soil Vapor Intrusion
SVOC	Semi-Volatile Organic Compound
1,1,1-TCA	1,1,1-trichloroethane
TAGM	Technical and Administrative Guidance Memorandum
TAL	Target Analyte List

TCE	Trichloroethene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TOGS	Technical and Operational Guidance Standards
VOC	Volatile Organic Compound

1.0 Introduction

On behalf of Scott Technologies, Inc., AECOM Technical Services, Inc. (AECOM)[1] completed a Remedial Investigation (RI) in accordance with of the New York State Department of Environmental Conservation's (NYSDEC) Brownfield Cleanup Program (BCP) at the former Scott Aviation Facility Area 1 site (Site) located at 225 Erie Street, Village of Lancaster, Erie County, New York (**Figure 1**). Scott Technologies, Inc. submitted an application on September 11, 2008 to enter the NYSDEC BCP per Title 6 New York State Official Compilation of Codes, Rules, and Regulations (NYCRR) Part 375-3.4 for the Site. On September 1, 2004, the former Scott Aviation Facility was sold by Scott Technologies, Inc. to the current facility owner/operator, AVOX Systems Inc. (AVOX). Scott Technologies, Inc. has applied for entry into the NYSDEC BCP as a participant to investigate and remediate, as appropriate, potential areas of environmental concern associated with the Site.

Previous investigations at the Site include a Phase I Environmental Site Assessment (ESA) completed by Earth Tech in April 2004, a Phase II Environmental Site Investigation (ESI) completed by Earth Tech in June 2004, and a Preliminary Groundwater Assessment (PGA) completed by Earth Tech in 2007. The previous investigations identified the presence of volatile organic compounds (VOCs) in soil at concentrations exceeding 6 NYCRR part 375 Soil Cleanup Objectives (SCOs) for restricted use, and VOCs in groundwater samples at concentrations exceeding 6 NYCRR Part 703.5 Class GA Groundwater standards.

The scope of work for this RI is described in the NYSDEC-approved *Remedial Investigation/Alternatives Analysis (RI/AA) Work Plan* (AECOM, February 2010) and the *Addendum to RI/AA Work Plan* (AECOM, May 2010).

The fieldwork for the RI was performed using procedures described in the RI/AA Work Plan. Two companion documents were prepared to detail additional procedures and protocols for the RI, and were provided as attachments to the RI/AA Work Plan. A *Quality Assurance Project Plan (QAPP)* specified the field and laboratory quality assurance/quality control (QA/QC) procedures. A Health and Safety Plan (HASP) provided the health and safety procedures required to minimize potential risk to AECOM and contractor personnel involved with implementing the RI fieldwork.

AECOM, on behalf of Scott Technologies, Inc. has developed this RI Report (RIR) following the guidance requirements in NYSDEC *Technical Guidance for Site Investigation and Remediation* (DER-10), effective June 18, 2010.

1.1 Purpose

The objective of the RI was to acquire data of sufficient quality and quantity to characterize the nature and extent of on-site environmental contamination resulting from historical Site operations and activities so remedial alternatives could be evaluated.

[1] Earth Tech was acquired by AECOM during July 2008, and merged its name to AECOM as of January 1, 2009.

1.2 Report Organization

This report presents the findings of the RI activities and is organized as follows:

Section 1.0 – Introduction: The introduction presents an overview of the project to date.

Section 2.0 – Site Description and History: Presents descriptions of the Site location, physical condition, current and historic use and results of previous investigations.

Section 3.0 – Previous Environmental Investigations: Presents previous environmental investigations.

Section 4.0 –Remedial Investigation: Presents a description of the RI field investigation activities performed at the Site.

Section 5.0 – Geology and Hydrogeology: Presents the characterization of Site geology and hydrogeology.

Section 6.0 – Analytical Results: Presents a summary of the results of the laboratory analyses for environmental media sampled during the RI investigation.

Section 7.0 – Qualitative Human Health Exposure Assessment: Presents a qualitative assessment of the potential for exposure of humans at and in the vicinity of the Site to Site-related contaminants.

Section 8.0 – Fish and Wildlife Impact Analysis: Presents the results of a Fish and Wildlife Impact Analysis.

Section 9.0 - Conclusions: Presents a summary of the conclusions of the RI investigation.

Section 10.0 – References: Presents a list of reference materials utilized in the preparation of this RIR.

Tables, figures, and appendices are presented following the report text.

Appendices to the report include the following:

- **Appendix A** – Stratigraphic Borehole Logs and Well Construction Diagrams
- **Appendix B** – Well Development Records
- **Appendix C** – Purging and Sampling Records
- **Appendix D** – Site Survey and American Land Title Association (ALTA) Requirements
- **Appendix E** – New York State Department of Health (NYSDOH) Indoor Air Quality Soil Vapor Intrusion (SVI) Questionnaire
- **Appendix F**– Photograph Report
- **Appendix G** – Laboratory Analytical Data Packages (CD-ROM)

- **Appendix H** – Investigation-Derived Waste (IDW) Manifest and Disposal Certification
- **Appendix I** – Hydraulic Conductivity Testing Results
- **Appendix J** – Data Usability Summary Report (DUSR)
- **Appendix K** – Fish and Wildlife Impact Analysis

2.0 Site Description and History

2.1 Site Description and History

The AVOX facility is located in the Village and Town of Lancaster, Erie County, New York (**Figure 2**). The overall facility is currently used as a manufacturing, development, testing, and distribution facility for aircraft and military supplied-air systems.

The overall property includes manufacturing plants (Plants 1, 2, and 3), support buildings, and asphalt-paved driveways and parking areas. Buildings and pavement cover roughly 65 percent of the Plant 1, 2, and 3 manufacturing area. Grassy and undeveloped areas comprise the remainder of the overall property. A tributary to Plum Creek flows within a culvert beneath the area between Plants 2 and 3.

The 62,000 square foot Plant 1 (225 Erie Street) resides south of Erie Street on the central parcel of a 6.4-acre combination of three adjoining parcels. The three adjacent parcels include: a vacant 1.1-acre parcel zoned light industrial west of the central parcel; a 3.8-acre central parcel zoned light industrial on which Plant 1 is located; and a vacant 1.6-acre parcel zoned residential to the east of the central parcel. Support buildings located within the central parcel include: a small pre-fabricated storage shed for hazardous materials and wastes, a record retention building; a paint storage shed; a grounds keeping equipment shed; a 3,000-gallon steel aboveground storage tank on legs containing liquid oxygen; and a 100,000-gallon water tower for process use and fire protection.

The 42,000 square foot Plant 2 (25 Walter Winter Drive) and the 30,000 square foot Plant 3 (27 Walter Winter Drive) are located on an 8.4-acre parcel north of Plant 1, and north of Erie Street. The Plant 2 and Plant 3 Areas also contain a small metal building west of Plant 2 that houses a groundwater treatment system, and a storm water detention pond northwest of Plant 2.

An undeveloped 10.1-acre parcel north of the Plant 2 and Plant 3 Area is referred to as the Northern Area. The Northern area is separated from the Plant 2 / Plant 3 Area by a 100-foot wide parcel owned by New York State Electric & Gas containing a power line that traverses the area in an east-west orientation.

The proposed BCP boundary for Area 1 is located west/southwest of Plant 1 as shown on **Figure 2**.

2.2 Physical Setting

The Site lies within the Village of Lancaster on a relatively flat parcel of land. The Site is located in a multi-use neighborhood comprised of industrial, commercial, and residential properties. An active railroad bounds the property to the south.

2.3 Geology

Subsurface materials encountered in Area 1 are primarily comprised of laminated lacustrine silts and clays interbedded with thin sand lenses, underlain by a thin coarser-grained (silt, sand, and gravel) layer immediately above bedrock. Bedrock in the area of the Site consists of middle Devonian age

shale of the Hamilton Group. Black shale (Marcellus Formation) has been identified at the Site at approximately 21 feet (ft) below ground surface (bgs).

2.4 Topography and surface Water Drainage

The United States Geological Survey 7.5-minute topographic quadrangle map of Lancaster, New York indicates that the Site's ground surface is generally level with an average elevation of 689 feet above mean sea level. The general direction of on-site surface water drainage appears to be toward a series of storm water catch basins. The on-site storm sewer system is connected to the Town of Lancaster municipal separate storm sewer system located within the adjacent Erie Street right-of-way. The stormwater drainage is ultimately discharged to Cayuga Creek via the municipal separate storm sewer system. The Norfolk Southern Corporation railroad tracks situated immediately south of Plant 1 provide a surface water drainage barrier/divide.

The site is located in the immediate watershed of Plum Bottom Brook which ultimately discharges to Cayuga Creek approximately one mile southwest of the Site. The nearest natural body of water is an unnamed sub-tributary of Plum Bottom Brook located approximately 750 ft north of the northern Site boundary. This sub-tributary flows in a westerly direction approximately 0.25 miles to Plum Bottom Brook. This sub-tributary of Plum Bottom Brook is visible on the east side of Walter Winter Drive (approximately 850 ft from the northeast corner of the Site boundary) before it enters an underground culvert which extends to the northeast corner of Erie Street and Court Street where it becomes visible again (approximately 500 ft from the northwest corner of the Site boundary).

2.5 Regional Hydrogeology

The soil (lacustrine deposits and till) and the bedrock differ in the types of water-bearing openings they contain. The surficial deposits are composed of grains packed together with open spaces, between the grains (primary porosity). Water permeates the surficial deposits because it can fill the pore spaces between the grains.

The sediments composing the bedrock initially contained pore spaces. However, these pore spaces were closed when the sediments were compacted and cemented. Groundwater in bedrock is encountered mostly within joints and fractures (secondary porosity).

In Erie County, only small amounts of water are contained within the till (LaSala, 1968) due to the low permeability of the material. Large diameter wells obtain only small water supplies.

Lacustrine deposits consist of horizontally bedded sand, silt and clay. The permeability of the clay beds is, in general, so low as to yield no water to wells. The lacustrine deposits also contain thick sections of water bearing fine sands that can be utilized for water supply. In general, lacustrine deposits are not commonly used as a source of potable water.

Shale formations, (Marcellus Formations (Hamilton Group)) that underlie the Site, are cut by both vertical and bedding-plane joints along which are hairline openings. Openings along thin limestone interbedded with shale may be widened by solution. Also, a discontinuous zone of fracturing that follows the upper surface of the rock is common.

Locally, this zone consists of only shallow tension cracks as the result of the movement of glacial ice over the rock. In other places, the fracture zone is as thick as 10 ft and consists of crumpled and broken rock. According to LaSala (1968), some exposures show convoluted beds interfolded with glacial deposits.

Shale formations in the Erie-Niagara basin typically contain small volumes of water. However, large volumes of groundwater are present within the limestone interbeds which have been enlarged by solution openings.

3.0 Previous Environmental Investigations

A description of previous Site assessment and investigation activities is provided in the following subsections.

3.1 Phase I Environmental Site Assessment

In 2004, a Phase I ESA was conducted at a level of effort consistent with American Society for Testing Materials (ASTM) Standard Practice E1527-00 to evaluate the environmental status of the overall former Scott Aviation property. During the detailed study of historical aerial photographs (included in Appendix E of the Phase I ESA Report) an area of potentially disturbed soil on the west side of Plant 1, south of the existing visitor parking area, and just outside the Plant 1 western perimeter fence line on the adjacent vacant parcel was noted (Earth Tech, April 2004). To address environmental concerns described in the Phase I ESA Report, including the area of potentially disturbed soil on the west side of Plant 1, a Phase II ESI was completed in 2004 for the overall former Scott Aviation property, as described in the following section.

3.2 Phase II Environmental Site Investigation

The Phase II ESI was conducted at a level of effort consistent with ASTM Standard Practice E1903-97, Guide for Environmental Site Assessments. A complete summary of the Phase II ESI at Area 1 is presented in the Phase II ESI Summary Report (Earth Tech, June 2004).

Based on the environmental concerns described in the Phase I ESA, a visual inspection of the area west of Plant 1 was performed. During this inspection, Earth Tech personnel noted miscellaneous debris (empty steel compressed gas cylinder, fire brick, etc.) scattered across the ground surface and partially buried. On March 29, 2004, seven test pits were excavated on the west side of the Plant 1 perimeter fence to investigate the extent of the miscellaneous debris.

Residual paint sludge (yellow, amber, and green colors detected in the soil) of unknown origin was observed in two of the test pits. The paint sludge was located approximately 18 to 24 inches below ground surface (bgs), was less than one foot thick (typically six inches), and encompassed approximately 150 square feet in area (determined from a visual inspection of the test pits). Soil samples were collected from below the observed paint sludge and were submitted for VOCs, semi-volatile organic compounds (SVOCs), and Target Analyte List (TAL) metals plus cyanide analysis. Laboratory analyses indicated elevated concentrations of VOCs and SVOCs. To address the elevated VOC and SVOC concentrations, an Interim Remedial Measure /Supplemental Site Investigation (IRM/SSI) was completed in 2005, as described in the following section.

3.3 Interim Remedial Measure for Soil at Area 1

On June 28, 2005, in accordance with the IRM/SSI Work Plan, Earth Tech performed an initial excavation of the buried paint sludge material located to the west of Plant 1. Residual paint sludge material and a minimum 1-foot buffer of soil vertically and horizontally around the visible material were removed. The initial excavation footprint was approximately 14 ft by 18 ft, and the depth of the excavation ranged between 3.5 and 4 ft bgs.

Three sidewall and one floor confirmation soil samples were collected and submitted for VOCs and phenols analysis. All sidewall sample results were below New York State Technical and Administrative Guidance Memorandum (TAGM) 4046 soil criteria, which was the appropriate screening criterion for soil at the time the IRM was performed. In one of the excavation floor confirmation soil samples, ethylbenzene (14 parts per million [ppm]), toluene (15 ppm), trichloroethene (TCE; 1.2 ppm), xylenes (130 ppm), and phenol (54 parts per billion) were detected at levels above their respective TAGM 4046 soil criteria. As a result, an additional two feet of soil was excavated vertically within the existing excavation footprint on July 11, 2005, extending the total excavation depth to approximately 5.5 to 6 ft bgs.

One confirmation soil sample was collected at the bottom of the subsequent excavation for VOCs and phenols analysis. Analytical results from the sample indicated TAGM 4046 soil criteria exceedances for toluene (17 ppm), 1,1,1-trichloroethane (1,1,1-TCA; 51 ppm), TCE (43 ppm), and xylenes (41 ppm). The laboratory data package for the confirmation soil samples is included in Appendix A of the PGA Report (Earth Tech, January 2008). The scope of work for the IRM only addressed vadose zone soil; therefore, further excavation was not completed during the IRM because groundwater was encountered at approximately 6 ft bgs. In addition, no remaining visible paint sludge material was observed in the soil excavation footprint.

As a result of the elevated VOC and SVOC (phenol only) concentrations detected in soil in the excavation bottom at Area 1 during the 2005 IRM, a Preliminary Groundwater Assessment was performed in 2006 and 2007. Section 3.4 of this RI report describes the PGA conducted at Area 1.

3.4 Preliminary Groundwater Assessment

The purpose of the PGA was to assess the nature and extent of VOCs in groundwater in the vicinity of Area 1 and an additional area (Area 2[2]) located to the northeast of Plant 2. The PGA Report (Earth Tech, January 2008) was developed in accordance with the Draft DER-10 *Technical Guidance for Site Investigation and Remediation* (NYSDEC, December 2002). A summary of the PGA results for Area 1 is provided below.

The PGA at Area 1 was completed in three separate phases: Phase I – February / March 2006; Phase II - May 2006; and Phase III - May 2007. Based on lithologic characterization activities during the PGA , subsurface materials encountered in Area 1 were determined to be primarily comprised of silts and clays with sand lenses (identified as the shallow overburden unit), underlain by a thin, coarser-grained silt, sand, and gravel layer (identified as the deep overburden unit) located immediately above bedrock. Depth to bedrock (refusal) ranged from 18 to 23.5 ft bgs at Area 1.

Temporary piezometers were installed and screened across the water table (shallow overburden groundwater) at 18 boring locations. Groundwater samples from the deep overburden unit were collected using a Geoprobe® SP-15 sampling tool adjacent to the 18 shallow overburden unit locations.

[2] Area 2 is being addressed with NYSDEC under a separate line of investigations and reports.

Shallow overburden groundwater surface elevations were measured periodically at Area 1 during and following each phase of the PGA. The shallow overburden groundwater flow direction beneath Area 1 was primarily inward, towards the existing on-site storm water sewer system.

Groundwater samples were collected from each of the temporary piezometers installed at Area 1 and analyzed for VOCs. Additionally, a subset of the groundwater samples in Area 1 was also analyzed for SVOCs.

A total of 26 VOCs and four SVOCs were detected in groundwater at Area 1. Eighteen of the 26 VOCs were detected at concentrations exceeding their respective Title 6 NYCRR Part 703 Class GA Groundwater Standards in one or more wells. The VOC with the largest areal extent was TCE. The maximum detection in Area 1 for TCE in shallow overburden groundwater was 90,000 micrograms per liter (μg/L) and in deep overburden groundwater was 6,600 μg/L. Four SVOCs (2,4-dimethylphenol, 2-methylphenol, 4-methylphenol, and phenol) were detected at one location at concentrations exceeding their respective Title 6 NYCRR Part 703 Class GA Groundwater Standards (1 μg/L, respectively). Concentrations at this one location ranged from 45 μg/L to 280 μg/L. Based on the data collected during the three phases of the PGA, the lateral extent of VOCs and SVOCs was delineated in both overburden groundwater units and was limited in aerial extent to within the existing facility property boundary southwest of Plant 1.

4.0 Brownfield Cleanup Program Remedial Investigation

The scope of the RI was initially developed based on the findings of the of the 2004 Phase II ESI at Area 1 and successive investigations completed by AECOM in 2005, 2006 and 2007. The primary objective of this RI was to gather the data necessary to complete the characterization of chemical presence in on-site groundwater, and other potentially affected media in order to identify and evaluate necessary and appropriate remedial alternatives.

4.1 Applicable Regulatory Standards

The current regulatory standards applicable to evaluating and characterizing the soil and groundwater quality at the Site are:

i. 6 NYCRR Part 375 Environmental Remediation Programs Restricted Use Soil Cleanup Objectives for Protection of Public Health – Industrial Use for the evaluation of on-Site soils;
ii. 6 NYCRR Part 375 Environmental Remediation Programs Restricted Use Soil Cleanup Objectives for Protection of Public Health – Protection of Groundwater for evaluation of off-Site soils;
iii. Water Quality Standards for Toxic and Other Deleterious Substances, 6 NYCRR, Part 703.5 for the evaluation of overburden and bedrock groundwater;
iv. Technical and Operation Guidance Standards (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values dated October 22, 1993 (reissued June 1998).

The current criteria for evaluating soil vapor are the decision matrices in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006.

4.2 Scope of Work

The scope of work for the RI is described in the February 2010 RI/AA work plan and the associated May 2010 RI/AA addendum. Field activities were completed between May 2010 and September 2010. The following sections discuss the investigation activities completed under the work plan and associated addendum.

4.2.1 RI/AA Work Plan

Investigation activities completed under the February 2010 RI/AA work plan and the May 2010 RI/AA addendum include surface soil sampling, soil boring advancement, collection of subsurface soil samples, monitoring well installation, monitoring of groundwater levels, collection of groundwater samples, aquifer characterization testing, SVI sampling, and IDW management.

4.2.1.1 Surface Soil Sampling

Surface soil sampling was completed in accordance with the work plan and associated addendum to evaluate VOC, SVOC, metals, polychlorinated biphenyl (PCB), and pesticide concentrations in the on-site surface soils based on results from previous investigations.

During the RI, surface soil samples were collected from zero to two inches bgs at designated locations using a decontaminated steel trowel. Five surface soil samples were collected. The samples were

placed in laboratory-certified sample containers. Surface soil sample locations are presented on **Figure 3** and a summary of the surface soil sample locations and analysis is presented in **Table 1**.

The surface soil sample locations are as follows:

i. One surface soil sample was collected in the area of historic DPT-8;
ii. One surface soil sample was collected at MW-35S;
iii. One surface soil sample was collected at MW-38D;
iv. One surface soil sample was collected at MW-40D; and
v. One surface soil sample was collected at MW-41B.

Surface soil sampling results are discussed in Section 6.3. Refer to **Figure 3** for sample identifications.

4.2.1.2 Soil Boring Advancement and Subsurface Soil Sampling

Soil samples were collected continuously during soil boring and/or monitoring well installation. Each soil boring was advanced until refusal (soil borings in the area of historic DPT-8 were advanced until the water table was observed). Screening of the collected soil cores was completed utilizing a photo ionization detector (PID); the center of the core was exposed and screened with the PID. Visual observations and field screening results were recorded on field logs. The results of PID screening are provided on the stratigraphic borehole logs in **Appendix A**.

Borehole advancement for geologic logging and sampling of subsurface soils was performed using hollow stem auger (HSA) / split spoon technique. At locations where a monitoring well was to be installed, the borehole was advanced using four and one quarter inch inside diameter (ID) (eight and one quarter inch outside diameter) hollow-stem augers from ground surface to the desired depth of installation (monitoring well installation is further discussed in Section 4.3.1.2.1). Other borings (i.e., located in the area of historic DPT-8) were sampled by driving a one and one half inch inner diameter (two-inch outer diameter) split spoon (no augering was performed).

Subsurface soil sampling was completed in accordance with the work plan and associated addendum to evaluate VOC, SVOC, metals, pesticide, and PCB concentrations in the on-site subsurface soils. Samples were collected based on the results of the PID screening and other field observations (i.e., interval immediately above the water table elevation if there were no PID detections). Each soil sample was collected with a decontaminated split spoon sampler, characterized, and placed into a set of laboratory-certified sample containers using a decontaminated steel trowel. Samples were collected from eight locations for VOC analysis and from 10 locations for SVOC, metals, pesticide, and PCB analysis. Subsurface soil sample locations are presented on **Figure 3.** A summary of the subsurface soil sample locations and analyses is presented in **Table 1**. Stratigraphic borehole logs are presented in **Appendix A**.

The subsurface soil sample locations are as follows:

i. Six subsurface soil samples were collected in the area of historic DPT-8 (three samples from the zero to two-foot interval, and three samples from the deeper two-foot interval containing the highest PID reading);
ii. One subsurface soil sample was collected at MW-35S immediately above the water table;
iii. One subsurface soil sample was collected at MW-36D immediately above the water table;
iv. One subsurface soil sample was collected at MW-37D immediately above the water table; and

v. One subsurface soil sample was collected at MW-39D from the two-foot interval containing the highest PID reading.

Subsurface soil sampling results are discussed in **Section 6.4**. Refer to **Figure 3** for sample identifications.

4.2.1.3 Monitoring Well and Temporary Piezometer Installation

4.2.1.3.1 Shallow and deep overburden groundwater monitoring well installations

Three new shallow overburden groundwater monitoring wells (MW-35S, MW-36S, and MW-37S), six new deep overburden groundwater monitoring wells (MW-35D, MW-36D, MW-37D, MW-38D, MW-39D, and MW-40D), and one new bedrock monitoring well (MW-41B) were installed as part of the RI/AA work plan scope to evaluate on-Site groundwater conditions. Additionally, the casing was repaired on existing piezometer A1-GP01 and existing piezometer A1-GP12 was replaced due to observed damaged conditions.

Well installations and repairs were completed by Quality Inspection Services, Inc. (Buffalo, NY) under the direction of a qualified AECOM geologist. Refer to **Figure 4** for monitoring well locations. A summary of well installation details is presented in **Table 2**. Well diagrams and construction details are provided on the stratigraphic borehole logs presented in **Appendix A**.

Shallow and deep overburden wells were constructed of two-inch diameter Schedule 40 polyvinyl chloride (PVC) riser pipe fitted with a ten-foot long (shallow overburden wells) or five-foot long (deep overburden wells), 0.010-inch slot screen. The annular space between the screen and the borehole wall was backfilled with #00 sand to approximately one foot above the top of the well screen. The screen and sand pack were isolated by placing a minimum of two feet of bentonite pellets on top of the sand pack. A cement/bentonite grout was then placed above the bentonite seal to approximately one foot below grade. Monitoring wells MW-35S, MW-35D, and MW-40 were completed by installing flush-mount protective casings. For the flush-mount completions, the PVC well casing was cut-off below grade. A watertight, locking “road box” cover was placed over the well casing. Surface completion for all other monitoring wells was a standard above grade completion. A protective steel casing with a hasp was installed over the two-inch PVC casing. A concrete pad measuring approximately two-foot by two-foot by six-inch was placed around the exterior of the protective casing.

4.2.1.3.2 Bedrock monitoring well installation

One bedrock monitoring well (MW-41B) was installed. The RI/AA work plan stated that one new well would be installed in the weathered bedrock zone between competent rock and deep overburden, and one new well would be installed in the underlying competent rock provided there was a distinct weathered bedrock zone between competent rock and deep overburden that could be screened without groundwater communication to the deep overburden zone. A distinct weathered bedrock zone between competent rock and deep overburden was not observed; therefore, with NYSDEC concurrence, only the competent bedrock well was installed.

The bedrock monitoring well was installed by advancing a four and one quarter inch ID HSA auger to the top of competent bedrock. A tri-cone roller bit was used to install an overburden casing socket approximately three feet into the top of competent rock. A four-inch steel casing was cement-bentonite grouted in place to approximately two feet above ground surface. After allowing the grout to set a minimum of 24 hours, a nominal four-inch diameter bedrock core hole was

advanced using wireline coring methods. A wireline HQ-size core barrel was used to make up to a 10-foot core run to the desired well completion depth. The monitoring well was constructed using two-inch diameter Schedule 40 PVC well casing and well screen. A 0.010-inch slot size well screen was used. The annular space between the well screen and the borehole was backfilled with #00 sand to one foot above the top of screen. The filter pack was followed by a two-foot thick bentonite seal, and the balance of the annular space was backfilled with grout. Surface completion was a standard above grade completion. A lid with a hasp was secured over the four-inch steel overburden casing. A concrete pad measuring approximately two-foot by two-foot by six-inch was placed around the exterior of the protective casing.

4.2.1.3.3 Storm water sewer bedding temporary piezometer installations

Four temporary piezometers were installed at Area 1, as described in the RI/AA work plan. Two temporary piezometers (TP-1 and TP-2) were installed along the north-south orientated storm water sewer line and two temporary piezometers (TP-3 and TP-4) were installed along the east-west orientated storm water sewer line. Refer to **Figure 4** for the locations of the temporary piezometers. The temporary piezometers were installed using a hand auger so as to not damage the storm sewer pipe, and screened in the storm water sewer line gravel bedding. The purpose of the temporary piezometers was to confirm the effect or lack of effect of the storm sewer gravel bedding on the offsite migration of Area 1 groundwater plume configuration. Each temporary piezometer consists of one-inch diameter PVC riser pipe, a one-foot long 0.010-inch slotted PVC screen, and a PVC end cap. For each temporary piezometer completion, a sand pack extending one foot above the top of the screen and a bentonite seal was used.

4.2.1.4 Well Development

Each RI monitoring well and A1-GP12 was developed after installation and prior to sampling. Development was performed to remove fine-grained sediment from the well and the sand pack and to create maximum well efficiency. A surge block was used to actively surge and agitate the water column by forcing water back and forth through the well screen and sand pack. Following surging, the wells were pumped with a submersible pump. Well development was performed with the goal of producing groundwater samples with less than 5 nephelometric turbidity units. However, because of the fine-grained composition of the subsurface soils at Area 1, this target was not always achieved. Well development records are presented in **Appendix B**.

4.2.1.5 Groundwater Monitoring

Groundwater monitoring activities consisted of the collection of depth-to-water measurements to map groundwater flow direction and the collection of groundwater samples for laboratory analyses.

4.2.1.5.1 Depth-to-water measurements

Three rounds of water elevations and groundwater sampling were performed at new and existing wells. The first round was performed in June 2010, the second round was performed in August 2010, and the third round was performed in October 2010. The data obtained are summarized on **Table 3**. Included in the table are the depth to water measurements taken at each well and the calculated groundwater elevations, presented in feet above North American Datum of 1983 (NAD83).

4.2.1.5.2 Groundwater sampling

RI groundwater sampling was performed in June 2010 and August 2010 after the new monitoring wells were installed, developed, and allowed to stabilize for a period of approximately 2 weeks.

Groundwater samples were collected in accordance with Attachment 2 of the RI/AA QAPP: *Environmental Protection Agency (EPA) Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (EPA/540/S-95/504, April 1996). Purging and sample records are provided in **Appendix C**.

All shallow and deep groundwater monitoring wells were sampled for VOCs, while a select number of wells were also sampled for SVOC, metals, PCB, and pesticides. The results of the groundwater sampling completed under the RI confirmed the presence of VOCs in the Site overburden groundwater. The highest VOC concentrations were detected in monitoring wells A1-GP01, A1-GP02, and A1-GP04. Groundwater sampling results are discussed in detail in Section 6.4.

4.2.1.5.3 Storm water sewer bedding temporary piezometer sampling

In June 2010 and August 2010, after the storm water sewer bedding piezometers were installed, developed, and allowed to stabilize for a period of approximately 2 weeks, water sampling of the piezometers was performed.

During the June 2010 sampling event each temporary piezometer was sampled for VOCs. During the August 2010 sampling event, only temporary piezometer TP-2 was sampled for VOCS; the remaining three temporary piezometers (TP-1, TP-3, and TP-4) were dry and were unable to be sampled. Summary information for the water sampling, including piezometer designations and laboratory analyses, is provided in **Table 1**.

4.2.1.6 Survey

All surface soil samples, soil borings, monitoring wells, and piezometers were surveyed to obtain accurate horizontal location, vertical elevations of ground surface, and tops of inner well casings relative to mean sea level. Each location was surveyed to the nearest 0.01 foot relative to the Universal Transverse Mercator coordinates NAD83. Ground elevations were surveyed at each location to the nearest 0.01 foot relative to the North American Vertical Datum of 1988. Additionally, survey control points were established within the Facility Survey. All survey work was completed by Sate of New York licensed land surveyor TVGA Consultants of Elma, NY. Refer to **Appendix D** for the survey completed on September 29, 2010.

Per BCP requirements, a licensed State of New York land surveyor will perform an ALTA survey to establish the final BCP boundaries for Area 1. The ALTA survey will be performed following NYSDEC concurrence of the final BCP boundaries. Refer to **Appendix D** for a copy of the 2005 Minimum Standard Detail Requirements for ALTA Land Title Surveys.

4.2.1.7 Hydraulic Conductivity Testing

Single well response tests (i.e., slug testing) were conducted at four monitoring wells (two shallow overburden and two deep overburden monitoring wells). Both rising and falling head hydraulic conductivity tests were performed at each location. The hydraulic response data set from each well was used to calculate the hydraulic conductivity (K value) for that well. The site-wide average hydraulic conductivity for the shallow and deep overburden were calculated from the individual monitoring well K measurements. The slug tests were conducted as follows:

i. The water level in the monitoring well was measured.
ii. A pressure transducer was installed at the monitoring well and set at a logarithmic recording interval.

iii. The water level was allowed to equilibrate from the addition of the pressure transducer.
iv. A slug of a known volume was inserted into the water column of the well.
v. Manual water level measurements were periodically collected to monitor recharge back to equilibrium.
vi. After the well recovered to within 10 percent of the initial water level or 45 minutes had elapsed, the slug was removed from the water column.
vii. Manual water levels were periodically collected to monitor recharge back toward equilibrium.
viii. After water level recovery to within 10 percent of the initial water level or 45 minutes had elapsed, the test was deemed completed.
ix. The pressure transducer data was downloaded.

After the hydraulic conductivity fieldwork was completed, the well response data were analyzed to calculate K values.

The results of the hydraulic conductivity testing are presented and discussed in Section 5.3.

4.2.1.8 Geotechnical Soil Analysis

One shallow overburden soil sample and one deep overburden soil sample were collected from MW-41B to characterize the soil at Area 1. Geotechnical samples were analyzed for bulk density (ASTM Method D2937) specific gravity (ASTM Method D854), moisture content (ASTM Method E160.3), grain size (ASTM Method D422), and total organic carbon (Lloyd Kahn Method). Geotechnical data are presented in **Table 4**. Geotechnical samples were analyzed by TestAmerica Laboratories of Amherst, New York.

The geotechnical data collected will be considered in determining the remedial options as presented in the Alternatives Analysis Report (AAR).

4.2.1.9 Soil Vapor Intrusion Investigation

To investigate the potential for contaminants in the subsurface to volatilize from soil and groundwater to soil gas within the unsaturated overburden and then into adjacent building structures, an SVI investigation was completed in June 2010. The investigation was completed in accordance with NYSDOH's "Guidance for Evaluating Soil Vapor Intrusion in the State of New York," October 2006 (SVI Guidance).

The SVI included the collection of three sub-slab soil vapor samples, three indoor air samples, one outdoor air sample, and QA/QC samples. A summary of SVI investigation samples collected and analytical parameters is presented on **Table 1**. SVI investigation sample locations are presented on **Figure 5**. **Appendix E** contains the NYSDOH indoor air quality questionnaire including sketches of the approximate locations of the sample collection points, sample log sheets, and chemical inventories.

SVI field activities are summarized in the following sections.

4.2.1.9.1 Sub-slab probe installation

Three temporary sub-slab gas probes were installed at the three locations identified on **Figure 5**. One sub-slab sample and one indoor air sample were collected from each of these locations. Each sub-slab gas probe consisted of Teflon-lined polyethylene tubing installed no more than two inches

into the sub-slab material, in a central location within the room (to the extent practical) away from foundation footings.

The sub-slab probe was installed by drilling a 1/2-inch-diameter hole through the slab with a roto-hammer drill and concrete bit. After drilling though the slab, the slab thickness was measured and recorded. The sub-slab probe consisted of 3/8-inch diameter Teflon lined polyethylene tubing set no more than two inches into the sub-slab material. The annular space between the tubing and the slab was filled with non-shrink, non-VOC-containing, modeling clay.

Once the probe was constructed, helium was applied to the surface of the sampling point as a tracer gas to evaluate the seal integrity. An apparatus outfitted with barbed connections was placed over the sub-slab sampling point. A volume of helium was directed from a cylinder into the apparatus and the sub-slab vapor was screened for helium gas using a helium detector. No helium was detected at the three sub-slab sample locations.

Prior to sample collection, the soil gas probe was purged at a maximum flow rate of 0.1 liters per minute (L/min). A maximum of three soil gas probe "dead volumes" were purged to remove potentially stagnant air from the internal volume of the soil gas probe and ensure that soil gas representative of the conditions beneath the sub-slab was drawn into the Summa™ canister. The soil gas probe "dead volumes" were calculated based on field measurements of probe construction (i.e., tubing length and tubing inner diameter) and aboveground sampling equipment.

A typical setup for a SVI canister is depicted in the photograph report in **Appendix F**.

4.2.1.10 Sub-slab probe sampling

The sub-slab samples were collected using 6-liter capacity Summa™ canisters fitted with a laboratory calibrated critical orifice flow regulation device sized to allow the collection of the sub-slab vapor samples over a 24-hour period. Summa™ canisters that were laboratory batch certified clean at the 100 percent level were used so data could be evaluated for assessing potential human health risk. The 24-hour sample collection time for a 6-liter capacity Summa™ canister corresponds to a maximum flow rate of approximately 0.0042 liters per minute (L/min). This soil gas sample collection flow rate is well below the maximum flow rate of 0.2 L/min recommended by NYSDOH (2006). A maximum flow rate of 0.1 L/min is recommended to limit VOC stripping from soil, prevent the short-circuiting of ambient air from ground surface that would dilute the soil gas sample, and increase confidence regarding the location from which the soil gas sample is obtained.

4.2.1.10.1 Indoor air sampling

Indoor air samples were collected concurrently with the sub-slab soil vapor samples. Indoor air samples were collected using six-liter capacity Summa™ canisters fitted with a laboratory calibrated critical orifice flow regulation device sized to allow the collection of the soil gas samples over a 24-hour period. The samples were collected from the breathing zone between three and five feet above the ground/floor surface in the same area as the sub-slab sample.

4.2.1.10.2 Outdoor air sampling

An ambient outdoor air vapor sample was collected upwind of the buildings in which the sub-slab and indoor air samples were collected. One ambient outdoor air sample was collected concurrently with the sub-slab soil vapor and indoor air samples. The outdoor air sample was collected from the breathing zone between three feet and five feet above the ground surface over 24-hour duration.

4.2.1.11 Waste Handling, Storage and Disposal

Solid IDW (soil cuttings) were collected and placed directly into Department of Transportation-rated 55-gallon drums. The drums were properly labeled and stored inside the groundwater treatment building located to the west of Pant 2 pending receipt of disposal characterization analytical results. A composite soil sample was collected from the IDW drums for the following disposal characterization analyses:

- Toxicity Characteristic Leaching Procedure (TCLP) VOCs (U.S. EPA Method 8260B);
- TCLP SVOCs (U.S. EPA Method 8270C);
- TCLP Metals (U.S. EPA Methods 1311/6010B/7470A);
- Ignitability (U.S. EPA Method 1010); and,
- Corrosivity (U.S. EPA Method 9045).

Following receipt of analytical data, the IDW drums were transported and properly disposed off Site by Heritage Transportation, LLC (Albany, NY) as non-hazardous waste at a licensed disposal facility (Waste Recovery Solutions, Inc., Myerstown, PA) in accordance with applicable regulatory requirements. Refer to **Appendix G** for analytical data and **Appendix H** for waste disposal manifests and certificate of disposal.

Liquid IDW generated during drilling, decontamination, and well development and purge activities was placed in five-gallon pails and transferred to the groundwater treatment building located to the west of Plant 2. The liquids were decanted and sent through an on-site air stripper.

5.0 Geology and Hydrology

5.1 Geology

Based on previous investigations and the recent RI, no fill was encountered during the advancement of borings (previously identified fill was excavated during an IRM).

The native soils underlying the site generally consist of interbedded silts and clays with discontinuous sporadic fine sand lenses (shallow overburden). A thin coarse grained layer is located above the bedrock (deep overburden). Based on the deep overburden wells, the average thickness of the overburden is approximately 21 ft; ranging from 20 ft in the south to 26 ft in the north.

Bedrock cores were collected and logged from MW-41B. The core indicates black shale (Marcellus Formation). A distinct weathered bedrock zone at the base of the deep overburden was not identified. Split spoon refusal was at 21.5 ft bgs. A rock socket for the overburden casing was advanced into competent rock to 24.8 ft bgs using a tri-cone roller bit. Bedrock cores collected from 24.8 ft bgs to the bottom of the boring (34.8 ft bgs) indicated three potential fractures (two 1 to 1.5-inch fracture zones and one diagonal fracture). Multiple mechanical breaks were observed in the rock core as a result of the fissile nature of the shale. A description of the bedrock core and elevations of the fractures is presented on the stratigraphic borehole log for this well in **Appendix A**.

5.2 Bedrock Surface Contour

One bedrock well (MW-41B) was installed at the site during the RI. Bedrock at MW-41B was encountered at 21.5 ft bgs. Because only one bedrock well exists on site, a bedrock surface contour map was not generated.

5.3 Site Hydrogeology

Groundwater is first encountered at the Site in the shallow overburden. Depth to groundwater across the Site was measured during three comprehensive rounds of water level measurements. The table below presents the average depth to water for each zone for each round:

Zone	June 2010	August 2010	October 2010
Shallow overburden	3.03 ft bgs	5.03 ft bgs	5.85 ft bgs
Deep overburden	5.06 ft bgs	5.79 ft bgs	6.94 ft bgs
Bedrock	9.2 ft bgs	9.5 ft bgs	10.28 ft bgs

Table 3 summarizes the groundwater elevations collected in June, August, and October 2010.

As depicted on **Figures 6, 7, and 8,** groundwater elevations in the shallow overburden are generally flat with localized highs and lows as measured in June 2010, August 2010, and October 2010. A west-northwest flow direction in the shallow overburden can be inferred from the data as measured in the three comprehensive rounds of water level measurements. A northwest flow direction is most evident from the groundwater elevations collected in October 2010.

As depicted on **Figures 9, 10, and 11**, groundwater flow direction in the deep overburden is to the northwest at a gradient of 0.026 foot per foot (ft/ft) as measured in June 2010, 0.020 ft/ft as measured in August 2010, and 0.018 ft/ft as measured in October 2010.

Seasonal variations in groundwater elevations between June 2010 and October 2010 dropped an average of 2.82 ft bgs in the shallow overburden and 1.88 ft bgs in the deep overburden. From a seasonal perspective, it is anticipated that water levels would rise during the spring and winter season and fall during summer and fall seasons across the Site.

Water elevations were also collected from the temporary piezometers installed in the storm sewer bedding during the three monitoring events. The water elevations collected from the temporary piezometers were not included in the groundwater contour figures as they were screened in a different hydraulic unit (storm sewer bedding) than the shallow overburden wells. Groundwater elevation data from MW-30 was also not included on the groundwater contour figures as this well is located outside the current BCP boundary.

Results of the in-situ hydraulic conductivity tests performed in the monitoring wells at the Site are shown in **Appendix I**. As a result of the relatively fast and slow groundwater recharges observed during well development and groundwater sampling events, hydraulic conductivity tests were performed at two additional wells to illustrate the variability on the hydraulic conductivities in the shallow and deep overburden zones (only falling head tests were performed at the two additionally tested wells). The K values ranged as presented in the following table:

Monitoring Well	Rising Head	Falling Head	Geometric Mean
Shallow Overburden			
MW-35S	1.01E-03 cm/sec	2.19E-03 cm/sec	1.49E-03 cm/sec
MW-37S	NA	3.13E-05 cm/sec	3.13E-05 cm/sec
		Geometric mean	**2.16E-04** cm/sec
Deep Overburden			
MW-39D	4.96E-03 cm/sec	4.50E-03 cm/sec	4.72E-03 cm/sec
MW-38D	NA	8.96E-05 cm/sec	8.96E-05 cm/sec
		Geometric mean	**6.50E-04** cm/sec

6.0 Analytical Results

This section presents the results of the laboratory analyses performed for the RI samples. A discussion of the analytical results and comparison to applicable NYSDEC Standards, Criteria and Guidance values are grouped according to environmental media in the following subsections.

Surface soil, subsurface soil, groundwater, and air samples were analyzed during the RI. The following analytical methods were used for laboratory analyses of groundwater, surface soil, and subsurface soil.

- Target Compound List (TCL) VOCs by U.S. EPA SW-846 Method 8260B.
- TCL SVOCs by U.S. EPA SW-846 Method 8270C.
- TAL Metals (w/ Hg) by U.S. EPA Methods 6010B/7471A.
- Pesticides by U.S. EPA Method 8081A.
- PCBs by U.S. EPA Method 8082.

Air samples were analyzed using USEPA Method TO-15.

The samples were analyzed by TestAmerica Laboratories of Amherst, New York (soil and groundwater), and Burlington, Vermont (air).

6.1 Quality Assurance/Quality Control Analyses

Field and laboratory quality control samples for the investigation were collected and analyzed to document the accuracy and precision of the samples. The QA/QC samples included rinse blanks, field duplicates, and trip blanks. The data quality level for the investigation was Level IV and was consistent with procedures outlined in the NYSDEC Analytical Services Protocol July 2005 methodologies. A full data package has been prepared by the laboratory for all samples collected during the RI and is included in **Appendix G**. The results of the field QA/QC samples and the laboratory QA/QC samples are included in **Appendix G** and **Appendix J**.

6.2 Data Usability Summary Report Review

For quality control purposes, comprehensive CLP-like data packages were produced by TestAmerica for the soil, air, and groundwater samples for review by a qualified chemist. A DUSR was prepared for each soil, water, and air sample delivery group. The DUSR for this project is included in **Appendix J**.

As part of the data review process, analytical results and data qualifiers were corrected where necessary to reflect quality control issues. The data summary tables discussed in the following subsections have been modified to reflect the findings of the DUSR. Additionally, a Summary of Qualified Data table is presented as part of the DUSR (**Appendix J**).

Organic data quality was evaluated by reviewing the following parameters: holding times, Gas Chromatograph/Mass Spectrometer tuning and performance, internal standards, initial and continuing calibrations, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) samples, MS/MSD

relative percent differences, laboratory control standards, laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation. As a result of the review, all data were found to be useable with some qualifications.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial and continuing calibrations, contract required detection limit standard recoveries, laboratory control samples, Inductively Coupled Plasma (ICP) interference check sample results, ICP serial dilution results, laboratory and field duplicates, and laboratory blanks. All inorganic results were found to be useable with some qualification.

6.3 Surface Soil

As part of this RI, five on-site surface soil samples, and one blind duplicate were collected. VOC samples were collected at four of the five surface soil sample locations. SVOC, metals, pesticide, and PCBs samples were collected from all five locations. A list of the surface soil samples collected, and the analyses performed is included in **Table 1**. Analytical results are presented in **Tables 5, 6, 7,** and **8** (VOCs, SVOCs, metals, pesticides/PCBs, respectively). Sample locations are presented on **Figure 4**.

Surface soil sample results were compared to NYSDEC Subpart 375-6 Industrial Use and Protection of Groundwater SCOs (**Tables 5, 6, 7, and 8**). Where a result is greater than the respective Subpart 375-6-Protection of Groundwater SCO, the result is shown with a bold font. If a result is greater than the respective Subpart 375-6 Industrial Use SCO, the result has been shaded.

There were no exceedances of either the Industrial Use or Protection of Groundwater SCOs for any of the VOC, pesticide, or PCB results.

One SVOC (benzo(a)pyrene) exceeded the Industrial Use SCO of 1.1 milligram per kilogram (mg/Kg). This exceedance was observed at three locations (SS-MW-40D-0-0.2, SS-MW-41B2-0-0.2, and SS-DPT8-2C-(0-0.2)) with concentrations ranging from 1.8 to 3.7 J[3] mg/Kg. In addition, these same three samples had exceedances of the Protection of Groundwater SCO for three SVOCs: benzo(a)anthracene, benzo(b)fluoranthene, and chrysene.

For metal analytical results, the Protection of Groundwater SCO for cadmium of 7.5 mg/Kg was exceeded in surface soil samples SS-MW-41B2-0-0.2 (19.9 J mg/Kg) and SS-DTP8-2C-(0-0.2) (23.5 mg/Kg). Additionally, the metal analytical results from surface soil sample SS-DTP8-2C-(0-0.2) had exceedances of the Protection of Groundwater SCO for lead (SCO – 450 mg/Kg, result 768 mg/Kg) and nickel (SCO – 130 mg/Kg, result 621 mg/Kg). The Protection of Groundwater and Industrial Use SCOs were not exceeded for any other metal.

6.4 Subsurface Soil

As part of this RI, eight on-site subsurface soil samples were collected from and analyzed for VOCs; 10 samples were collected and analyzed for SVOCs; and, five samples were collected and analyzed for metals, pesticides, and PCBs. A list of the subsurface soil samples collected and the analyses performed is included in **Table 1**. The results of the subsurface soil samples are summarized in **Tables 9, 10, 11,** and **12** for VOCs, SVOCs, metals, pesticides/PCBs, respectively.

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[3] J – Analyte detected at levels less than the reporting limit and greater than or equal to the method detection limit. Concentrations within this range are estimated.

Subsurface soil VOC analytical results were compared to NYSDEC Subpart 375-6 Industrial Use and Protection of Groundwater SCOs; SVOCs, metals, pesticides, and PCBs analytical results were compared to the Industrial Use SCO only (see **Tables 9, 10, 11, and 12**). Where a result is greater than the respective Subpart 375-6-Protection of Groundwater SCO, the result is shown with a bold font. If a result is greater than the respective Subpart 375-6 Industrial Use SCO, the result has been shaded. Analytical results are discussed in the following subsections.

6.4.1 Volatile Organic Chemical Compounds

Subsurface soil samples were collected from eight on-site locations (plus one duplicate sample) and submitted for VOC analyses. The subsurface soil VOC results are summarized in **Table 9**. When compared to the Industrial Use SCO, there were no exceedances observed. When compared to the Protection of Groundwater SCO, an exceedance of the acetone SCO of 0.05 mg/Kg was observed in subsurface soil samples SS-DPT8-2A-(0-2) (3.8 mg/Kg) and at SS-DPT-2B-(2-4) (3 mg/Kg). An exceedance of the methylene chloride SCO of 0.05 mg/Kg was observed in subsurface soil sample SS-DPT8-2B-(2-4) (0.079 J mg/Kg).

6.4.2 Semi-Volatile Organic Chemical Compounds

Subsurface soil samples were collected from 10 on-site locations and submitted for SVOC analyses. The subsurface soil SVOC results are summarized in **Table 10**. When compared to the Industrial Use SCO, there were no exceedances observed.

6.4.3 Metals

Subsurface soil samples were collected from 10 on-site locations and submitted for metal analyses. The subsurface soil metal results are summarized in **Table 11**. When compared to the Industrial Use SCO, there were no exceedances observed.

6.4.4 Pesticides and Polychlorinated Biphenyls

Subsurface soil samples were collected from 10 on-site locations and submitted for pesticide and PCB analyses. The subsurface soil pesticides and PCB results are summarized in **Table 12**. When compared to the Industrial Use SCO, there were no exceedances observed.

6.5 Groundwater Analytical Results

A list of the groundwater samples collected, and the analyses performed is included in **Table 1**. The results of the shallow overburden, deep overburden, and bedrock groundwater samples collected during the two RI groundwater sampling events (June 2010 and August 2010) are summarized in **Table 13** (VOCs), **Table 14** (SVOCs), **Table 15** (Metals), and **Table 16** (pesticides and PCBs). The evaluation of the groundwater results in the following sections is based on a comparison to the guidance or standard values provided in NYSDEC – Division of Water –TOGS 1.1.1 (NYSDEC, 1998, with addendums). Where a result is greater than the reporting limits, the result is shown with a bold font; and, where a result is greater than the respective groundwater standard or guidance value concentration, the result is shaded.

6.5.1 Shallow Overburden Groundwater

Shallow overburden groundwater samples were collected for VOC, SVOC, metals, pesticides, and PCBs analysis during the two RI sampling events (June 2010 and August 2010), as follows:

- VOC samples were collected from 22 locations, including four shallow overburden monitoring wells (note that monitoring well MW-30 is screened over both the shallow and deep overburden units but is presented within this shallow overburden section) and, 18 shallow overburden ¾ inch PGA piezometers.
- SVOC samples were collected from one location.
- Metals samples were collected from two locations.
- Pesticides and PCBs samples were collected from one location.

The analytical results are discussed in the following subsections.

6.5.1.1 Volatile Organic Compound

The shallow overburden groundwater VOC results are summarized in **Table 13**. **Figure 12** and **Figure 13** depict the total VOC contaminant plume in shallow overburden groundwater and **Figure 14** and **Figure 15** depict the TCE contaminant plume in shallow overburden groundwater as determined from analytical data collected during the June 2010 and August 2010 groundwater sampling events, respectively.

During the June 2010 event, benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds were detected in eight of the 22 shallow overburden locations. BTEX concentrations exceeded groundwater standards at four shallow locations as follows:

- Benzene (standard 1 µg/L): A1-GP13-S (22 µg/L) and A1-GP14-S (1.3 J µg/L);
- Toluene (standard 5 µg/L): A1-GP01-S (1500 µg/L), A1-GP10-S (8 µg/L), and A1-GP13-S (43 µg/L);
- Ethylbenzene (standard 5 µg/L): A1-GP01-S (100 J µg/L), and A1-GP13-S (96 µg/L); and,
- Xylenes (standard 5 µg/L): A1-GP01-S (790 µg/L), A1-GP10-S (16 µg/L), and A1-GP13-S (1600 µg/L).

During the August 2010 event, BTEX compounds were detected in four of the 22 shallow overburden locations. BTEX concentrations exceeded groundwater standards at four shallow locations as follows:

- Benzene (standard 1 µg/L): A1-GP4-S (1.4 J µg/L), A1-GP13-S (34 J µg/L), and A1-GP14-S (5.5 J µg/L);
- Toluene (standard 5 µg/L): A1-GP01-S (340 J µg/L) and A1-GP13-S (63 µg/L);
- Ethylbenzene (standard 5 µg/L): A1-GP13-S(120 µg/L); and,
- Xylenes (standard 5 µg/L): A1-GP13-S (2000 µg/L).

During the June 2010 event, 16 of the 22 shallow overburden locations had concentrations of one or more VOCs above groundwater standards or guidance values as follows:

- 1,1,1-TCA (standard 5 µg/L): exceedances at 6 locations, concentrations ranged from 56 µg/L at A1-GP05-S to 55,000 µg/L at A1-GP10-S;
- 1,1,2-Trichloro-1,2,2-trifluoroethane (standard 5 µg/L): exceedances at 4 locations, concentrations ranged from 6.6 µg/L at A1-GP13-S to 4,400 µg/L at A1-GP01-S;
- 1,1,2-Trichloroethane (standard 1 µg/L): exceedances at 4 locations, concentrations ranged from 7 µg/L at A1-GP13-S to 210 J µg/L at A1-GP01-S;
- 1,1-Dichloroethane (standard 5 µg/L): exceedances at 9 locations, concentrations ranged from 6 µg/L at A1-GP12-S to 43,000 µg/L at A1-GP10-S;

- 1,1-Dichloroethene (standard 5 µg/L): exceedances at 8 locations, concentrations ranged from 5.2 µg/L at A1-GP12-S to 3,100 µg/L at A1-GP01-S and A1-GP03-S;
- 1,2-Dichloroethane (standard 0.6 µg/L): exceedances at 3 locations, concentrations ranged from 6.8 µg/L at A1-GP13-S to 77 µg/L at A1-GP10-S;
- 2-Butanone (guidance 50 µg/L): exceedances at 2 locations, concentrations ranged from 96 µg/L at A1-GP10-S to 160 J µg/L at A1-GP1-S;
- Acetone (guidance 50 µg/L): exceedance at 1 location, concentration was 200 J µg/L at A1-GP1-S;
- Chloroethane (guidance 50 µg/L): exceedance at 1 location, concentration was 160 µg/L at A1-GP13-S;
- cis-1,2-Dichloroethene (standard 5 µg/L): exceedances at 13 locations, concentrations ranged from 6.4 µg/L at MW-30 to 22,000 µg/L at A1-GP01-S;
- Methylene chloride (standard 5 µg/L): exceedances at 2 locations, concentrations ranged from 8.3 µg/L at A1-GP13-S to 17 µg/L at A1-GP10-S;
- trans-1,2-Dichloroethene (standard 5 µg/L): exceedances at 5 locations, concentrations ranged from 11 µg/L at A1-GP11-S to 94 J µg/L at A1-GP02-S;
- TCE (standard 5 µg/L): exceedances at 12 locations (plus the duplicate sample), concentrations ranged from 5.5 µg/L at MW-37S to 14,000 J µg/L at A1-GP04-S;
- Vinyl chloride (standard 2 µg/L): exceedances at 9 locations, concentrations ranged from 4.9 J µg/L at MW-30 to 770 µg/L at A1-GP13-S;

During the August 2010 event, 16 of the 22 shallow overburden locations had concentrations of one or more VOCs above groundwater standards or guidance values as follows:

- 1,1,1-TCA (standard 5 µg/L): exceedances at 7 locations, concentrations ranged from 14 µg/L at A1-GP04-S to 84,000 µg/L at A1-GP10-S;
- 1,1,2-Trichloro-1,2,2-trifluoroethane (standard 5 µg/L): exceedances at 6 locations, concentrations ranged from 6.3 J µg/L at MW-37S to 1,900 µg/L at A1-GP06-S (1,900 J µg/L at A1-GP10-S);
- 1,1,2-Trichloroethane (standard 1 µg/L): exceedances at 3 locations, concentrations ranged from 13 J µg/L at A1-GP13-S to 180 J µg/L at A1-GP01-S;
- 1,1-Dichloroethane (standard 5 µg/L): exceedances at 10 locations, concentrations ranged from 13 µg/L at A1-GP4-S to 48,000 µg/L at A1-GP10-S;
- 1,1-Dichloroethene (standard 5 µg/L): exceedances at 10 locations, concentrations ranged from 6.5 µg/L at A1-GP11-S to 5,600 µg/L at A1-GP03-S;
- 1,2-Dichloroethane (standard 0.6 µg/L): exceedance at 1 location, concentration was 14 J µg/L at A1-GP13-S;
- Chloroethane (guidance 5 µg/L): exceedance at 1 location, concentration was 180 µg/L at A1-GP13-S;
- cis-1,2-Dichloroethene (standard 5 µg/L): exceedances at 13 locations, concentrations ranged from 7.7 µg/L at MW-30 to 15,000 µg/L at A1-GP01-S;
- Dichlorodifluoromethane (standard 5 µg/L): exceedance at 1 location, concentration was 33 J µg/L at A1-GP06-S;
- trans-1,2-Dichloroethene (standard 5 µg/L): exceedances at 6 locations, concentrations ranged from 6.2 µg/L at A1-GP14-S to 190 J µg/L at A1-GP02-S;
- TCE (standard 5 µg/L): exceedances at 10 locations, concentrations ranged from 11 J µg/L at A1-GP13-S to 20,000 J µg/L at A1-GP02-S; and,
- Vinyl chloride (standard 2 µg/L): exceedances at 10 locations, concentrations ranged from 5 J µg/L at A1-GP16-S to 2,200 µg/L at A1-GP13-S.

The shallow overburden groundwater VOC results are summarized in **Table 13**.

6.5.1.2 Semi-Volatile Organic Compounds

Groundwater samples were collected from one shallow overburden well for SVOC analysis for each of the two groundwater sampling events. The shallow overburden groundwater SVOC results are summarized in **Table 14**. No SVOC detections exceeded groundwater standard or guidance values.

6.5.1.3 Metals

Groundwater samples were collected from two shallow overburden wells for metals analysis during each sampling event. The shallow overburden groundwater metal results are summarized in **Table 15**. Several metals were detected at concentrations greater than the reporting limit. Iron, magnesium, and sodium were detected at concentrations greater than the associated groundwater standard as discussed below.

The concentration of iron exceeded the groundwater standard value of 300 µg/L at one location (MW-30). The iron concentration in the sample from monitoring well MW-30 was 7,780 µg/L during the June 2010 event and 4,510 µg/L during the August 2010 event.

Sodium and magnesium concentrations were greater than the associated groundwater standard value in each sample during both sampling events. In the shallow overburden, sodium concentrations ranged from a low of 47,700 µg/L in the sample from monitoring well MW-30 during the June 2010 event to a high of 50.300 µg/L in the duplicate sample from monitoring well MW-36S during the August 2010 event. The groundwater standard value for sodium is 20,000 µg/L.

6.5.1.4 Pesticides and Polychlorinated Biphenyls

Groundwater samples were collected from one shallow overburden well (MW-36S) for pesticide and PCB analysis during each sampling event. The shallow overburden groundwater pesticide and PCB results are summarized in **Table 16**.

PCBs were not detected in the sample from shallow overburden monitoring well MW-36S during either groundwater sampling event.

One pesticide (alpha-Chlordane) was detected at shallow overburden monitoring well MW-36S during the June 2010 sampling event at a concentration of 0.023 J µg/L (duplicate 0.019 J µg/L). The NYSDEC TOGS does not list a guidance or standard value for this pesticide.

During the August 2010 sampling event endosulfan I and heptachlor epoxide were detected in shallow overburden monitoring well MW-36S. Heptachlor epoxide was detected at a concentration of 0.049 N[4]J, which is greater than the groundwater standard value of 0.03 µg/L. Heptachlor epoxide was detected at a concentration lower than the groundwater standard value in the associated duplicate sample collected from monitoring well MW-36S.

[4] N – The analysis indicates that an analyte is present, and there are strong indications that the identity is correct. Confirmation of the analyte requires further analysis.

6.5.2 Deep Overburden Groundwater

During the RI, deep overburden groundwater samples were collected for VOC, SVOC, metals, pesticide, and PCB analysis during the two events (June 2010 and August 2010), as follows:

- VOC samples were collected from six locations.
- SVOC samples were collected from one location.
- Metals samples were collected from one location.
- Pesticide and PCB samples were collected from one location.

6.5.2.1 Volatile Organic Compounds

During the June 2010 event, BTEX compounds were detected in two (plus the duplicate sample) of the six deep overburden locations. The deep overburden groundwater VOC results are summarized in **Table 13**. **Figure 16** and **Figure 17** depict the total VOC contaminant plume in deep overburden groundwater and **Figure 18** and **Figure 19** depict the TCE contaminant plume in deep overburden groundwater as determined from analytical data collected during the June 2010 and August 2010 groundwater sampling events, respectively.

BTEX concentrations exceeded groundwater standards at one deep overburden location as follows:

- Toluene (standard 5 µg/L): MW-38D (300 µg/L);
- Ethylbenzene (standard 5 µg/L): MW-38D (270 µg/L); and
- Xylenes (standard 5 µg/L): MW-38D (730 J µg/L).

During the August 2010 event, BTEX compounds were detected in one of the deep overburden locations. BTEX concentrations exceeded groundwater standards at one deep overburden locations as follows:

- Xylenes (standard 5 µg/L): MW-38D (260 J µg/L).

During the June 2010 event, three (and the duplicate sample) of the six deep overburden locations had concentrations of one or more VOCs above groundwater standards or guidance values as follows:

- 1,1,1-TCA (standard 5 µg/L): exceedances at 2 locations, concentrations ranged from 17 µg/L at MW-39D to 23 µg/L at MW-40D;
- 1,1-Dichloroethane (standard 5 µg/L): exceedance at 1 location and the duplicate sample, concentrations were 240 µg/L and 260 µg/L at MW-40D and the duplicate sample, respectively;
- cis-1,2-Dichloroethene (standard 5 µg/L): exceedance at 1 location, concentration of 4,400 µg/L at MW-38D;
- Tetrachloroethene (standard 5 µg/L): exceedance at 1 location, concentration of 230 J µg/L at MW-38D; and,
- TCE (standard 5 µg/L): exceedance at 1 location, concentration of 11,100 µg/L at MW-38D.

During the August 2010 event, four of the six (and the duplicate sample) deep overburden locations had concentrations of one or more VOCs above groundwater standards or guidance values as follows:

- 1,1,1-TCA (standard 5 µg/L): exceedances at 2 locations and the duplicate sample, concentrations ranged from 13 µg/L at MW-39D to 26 µg/L at the MW-40D duplicate sample;
- 1,1-Dichloroethane (standard 5 µg/L): exceedances at 2 locations and the duplicate sample, concentrations ranged from 5.8 µg/L at MW-39D to 1,100 µg/L at the MW-40D duplicate sample;
- 1,1-Dichloroethene (standard 5 µg/L): exceedance at 1 location, concentrations of 6 J µg/L at MW-40D;
- 2-Butanone (guidance 50 µg/L): exceedance at 1 location, concentration was 200 µg/L at MW-36D;
- cis-1,2-Dichloroethene (standard 5 µg/L): exceedance at 1 location, concentration was 13,000 µg/L at MW-38D;
- Tetrachloroethene (standard 5 µg/L): exceedance at 1 location, concentration was 130 J µg/L at MW-38D; and,
- TCE (standard 5 µg/L): exceedance at 1 location, concentration was 2,100 µg/L at MW-38D.

6.5.2.2 Semi-Volatile Organic Chemical Compounds

Groundwater samples were collected from one deep overburden well (MW-39D) for SVOC analysis for each of the two groundwater sampling events. The deep overburden groundwater SVOC results are summarized in **Table 14**. SVOCs were not detected above reporting limits at this location during the June 2010 or the August 2010 event.

6.5.2.3 Metals

A groundwater sample was collected from one deep overburden well (MW-39D) for metals analysis during each sampling event. The deep overburden groundwater metal results are summarized in **Table 15**. Several metals were detected at concentrations greater than the reporting limit. Iron, magnesium, and sodium were detected at concentrations greater than the associated groundwater standard as discussed below.

The concentration of iron in deep overburden groundwater was 1,170 µg/L during the June 2010 event and 3,510 µg/L during the August 2010 event. These concentrations are greater than the groundwater standard value of 300 µg/L.

The concentration of magnesium in deep overburden groundwater was 61,500 µg/L during the June 2010 event and 65,700 µg/L during the August 2010 event. These concentrations are greater than the groundwater standard value of 35,000 µg/L.

The concentration of sodium in deep overburden groundwater was 35,900 µg/L during the June 2010 event and 36,400 µg/L during the August 2010 event. These concentrations are greater than the groundwater standard value of 20,000 µg/L.

6.5.2.4 Pesticides and Polychlorinated Biphenyls

Groundwater samples were collected from one deep overburden well for pesticide and PCB analyses during each sampling event. The deep overburden groundwater pesticide and PCB results are summarized in **Table 16**.

Pesticides were not detected at deep overburden monitoring well MW-39D during the June 2010 sampling event. Two pesticides were detected in the sample from MW-39D (delta-BHC and gamma-BHC (Lindane)) at concentrations lower than the groundwater standard values during the August 2010 sampling event.

PCBs were not detected in the samples in the groundwater sample collected during either sampling event.

6.5.3 Bedrock Groundwater

Groundwater samples were collected from one bedrock monitoring well for VOC, SVOC, metals, pesticide, and PCB analysis for each of the two groundwater sampling events.

6.5.3.1 Volatile Organic Chemical Compounds

During the June 2010 and August 2010 sampling events, minor detections of BTEX compounds, acetone, carbon disulfide, cyclohexane, and methylcyclohexane were identified in bedrock monitoring well MW-41B2, but significantly below respective guidance values.

Bedrock groundwater VOC results are summarized in **Table 13**.

6.5.3.2 Semi-Volatile Organic Chemical Compounds

SVOCs were not detected above groundwater standards during the two groundwater sampling events. Only one compound was detected during the June 2010 groundwater sampling event (Di-n-butyl phthalate at 0.35J µg/L) but was well below the corresponding groundwater standard of 50 µg/L. No SVOCs were detected above reporting limits during the August 2010 event.

Bedrock groundwater SVOC results are summarized in **Table 14**.

6.5.3.3 Metals

Several metals were detected at concentrations greater than their reporting limit. The bedrock groundwater metal results are summarized in **Table 15**.

Iron, magnesium, and sodium were detected at concentrations greater than the associated groundwater standard as discussed below.

The iron concentration was 1,430 µg/L during the June 2010 event and 582 µg/L during the August 2010 event. These concentrations are greater than the groundwater standard value of 300 µg/L.

The magnesium concentration was 54,300 µg/L during the June 2010 event). The groundwater standard value for sodium is 35,000 µg/L.

The sodium concentration was 132,000 µg/L during the June 2010 event and 135,000 µg/L during the August 2010 event. The groundwater standard value for sodium is 20,000 µg/L.

6.5.3.4 Pesticides and Poly Chlorinated Biphenyls

No pesticides or PCBs were detected above reporting limits during the June 2010 sampling event. One pesticide was detected above reporting limits at monitoring well MW-41B2 during the August 2010 event. Delta-BHC was detected at a concentration of 0.012 J µg/L. This concentration is below the groundwater standard of 0.04 µg/L.

The bedrock groundwater pesticide and PCB results are summarized in **Table 16**.

6.5.4 Storm Water Sewer Bedding Water

Four temporary piezometers (TP-1 through TP-4) were installed along the on-site storm water sewer lines and screened in the gravel bedding during this RI. Water samples were collected for VOC analysis from all four temporary piezometers during the June 2010 sampling event..

During the August 2010 event, a water sample was collected from temporary piezometer TP-2 for VOC analysis. The remaining three temporary piezometers (TP-1, TP-3, and TP-4) were dry and unable to be sampled.

The results of the temporary storm water sewer bedding water samples collected during the two sampling events (June 2010 and August 2010) are summarized in **Table 17**. The results are discussed in the following subsections.

6.5.4.1 Volatile Organic Chemical Compounds

Three VOCs (1,1,1-TCA, 1,1,2-trichloro-1,2,2-trifluoroethane, and 1,1-dichloroethene) were detected at concentrations greater than the associated groundwater standard in piezometers TP-1 and TP-2. The groundwater samples from piezometers TP-3 and TP-4 did not have any VOC detections greater than the associated groundwater standard.

The concentration of 1,1,1-TCA ranged from 63 µg/L (TP-1 in June 2010 event) to 230 µg/L (TP-2 in August 2010 event). These concentrations are greater than the groundwater standard value of 5 µg/L.

The concentration of 1,1,2-trichloro-1,2,2-trifluoroethane ranged from 240 µg/L (TP-1 in June 2010 event) to 1,200 µg/L (TP-2 in August 2010 event). These concentrations are greater than the groundwater standard value of 5 µg/L.

The concentration of 1,1-dichloroethene ranged from 5.7 µg/L (TP-2 in June 2010 event) to 20 J µg/L (TP-2 in August 2010 event). These concentrations are greater than the groundwater standard value of 5 µg/L.

6.6 Soil Vapor Intrusion Investigation Evaluation

AECOM performed an SVI at the site to evaluate the potential for human health exposure risks due to the presence of chlorinated VOCs in site groundwater. SVI refers to the process by which volatile chemicals migrate from a subsurface into the indoor air of buildings. The potential for an SVI condition can depend on many factors, including location of source material, soil type, groundwater elevation, contaminant concentrations, building age and condition, type of heating/ventilation system, and the presence of underground conduits.

The SVI evaluation included concurrent collection of sub-slab soil vapor and lowest level indoor air samples in three locations: SS-1 (Compressor Room), SS-2 (Boiler Room), and SS-3 (Warehouse Room). Sample locations, shown on **Figure 5**, were selected based on groundwater concentrations in proximity to the Plant 1 building. As discussed in **Section 4.2.4**, samples were collected over a 24-hour period in 6-liter SUMMA-type canisters and analyzed for VOC content via USEPA Method TO-15.

6.6.1 Field Observations and Chemical Product Inventory

Prior to sample collection activities, a chemical product inventory was performed within the three targeted rooms. No VOC-containing products were observed in the Boiler Room or the Warehouse Room during the investigation activities. A variety of VOC-containing chemicals were noted in storage cabinets in the Compressor Room, which mostly contained petroleum compounds. No chlorinated VOCs were specifically identified on product labels. No significant ambient VOCs were recorded on the PID. The chemical inventory is included in **Appendix E**.

A VOC measurement was taken from each sub-slab vapor point after drilling and prior to sample setup. PID detections were 2.2 ppm at Location SS-1, 8.5 ppm at SS-2, and 2.5 ppm at SS-3. Field logs sketches of the room layouts for each sample location are provided in **Appendix E**.

6.6.2 Analytical Data

The sub-slab soil vapor, indoor air, and outdoor air analytical data for the full list of VOC analytes are presented in **Table 18** and depicted in **Figure 5**. **Table 19** compares the TO-15 air data to NYSDOH air guidance values as stated in Table 3.1 of the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Guidance Document). Analytical data collected during the SVI were validated to demonstrate the usability of the data to support the conclusions of the RI.

Sample pair SS-1, collected from the Compressor Room, exhibited 6 VOCs in the sub-slab vapor sample and 8 VOCs in the indoor air sample. The 6 VOCs reported in SS-1 SUBSLAB included five chlorinated VOCs with concentrations ranging from 32 to 150 micrograms per cubic meter ($\mu g/m^3$.) The five chlorinated VOCs are consistent with groundwater constituents of concern (COCs). The 8 VOCs reported in the SS-1 INDOOR air sample ranged in concentration from 1.2 to 21 $\mu g/m^3$. None of the chlorinated VOCs reported in the sub-slab vapor sample were reported in the indoor air sample.

The sub-slab soil vapor sample from Location SS-2 (SS-2 SUBSLAB), collected from the Boiler Room, exhibited reportable concentrations of a total of 20 VOCs, including seven chlorinated VOCs. The seven chlorinated VOCs are consistent with groundwater COCs and were reported at concentrations ranging from 12 to 670 $\mu g/m^3$. The indoor air sample (SS-2 INDOOR) identified 16 VOCs at variable concentrations. Four chlorinated VOCs were identified that were consistent with groundwater COCs, with concentrations ranging from 0.87 to 2.5 $\mu g/m^3$.

Sample pair SS-3, collected from the Warehouse Room, exhibited a total of 17 VOCs in the sub-slab vapor sample and 9 VOCs in the indoor air sample. The VOCs reported in SS-3 SUBSLAB included three chlorinated VOCs consistent with groundwater COCs, with concentrations ranging from 2.6 to 4.5 $\mu g/m^3$. The 9 VOCs reported in the SS-3 INDOOR air sample ranged in concentration from 1.3 to 34 $\mu g/m^3$. None of the chlorinated VOCs reported in the sub-slab vapor sample were reported in the indoor air sample.

6.6.3 Comparison to NYSDOH Decision Matrices

The NYSDOH Guidance Document provides guidelines on evaluation of associated laboratory data. The Guidance Document focuses on comparison of the analytical concentrations of four primary chemicals to two generic decision matrices to identify recommended actions. Three additional chemicals have been assigned by NYSDOH to one of the two matrices. Of the seven chlorinated VOCs, five were detected in subsurface soil vapor and/or indoor air at the Site and are listed below along with the corresponding NYSDOH decision matrix.

Chemical	***Soil Vapor & Indoor Air Matrix***
TCE	Matrix 1
1,1,1-TCA	Matrix 2
Tetrachloroethene	Matrix 2
cis-1,2-Dichloroethene	Matrix 2
1,1-Dichloroethene	Matrix 2

SVI samples were analyzed for VOCs, including the five analytes listed above. The analytical concentrations reported by the laboratory for both sub-slab soil vapor and indoor air were applied to the matrix to determine the minimum recommended response action. The possible response scenarios are: 1) No further action; 2) Take reasonable and practical actions to identify sources(s) and reduce exposures; 3) Monitor; 4) Mitigate; and 5) Monitor/mitigate.

The results of the comparisons to the NYSDOH matrices are presented below:

	Sample Location		
	SS-1	***SS-2***	***SS-3***
TCE	□	**x**	○
1,1,1-TCA	○	□	○
Tetrachloroethene	○	□	○
cis-1,2-Dichloroethene	○	□	○
1,1-Dichloroethene	○	○	○

Key:
○: No further action
●: Take reasonable and practical actions to identify source(s) and reduce exposures
□: Monitor
■: Monitor/mitigate
x: Mitigate

Based on the evaluation of the data against the decision matrices, a vapor intrusion condition is not present at the site and indoor air quality has not been adversely impacted by the presence of the adjacent groundwater plume. However, sub-slab soil vapor concentrations of TCE are present at elevated concentrations beneath the Boiler Room and the Compressor Room that could result in an indoor air quality concern should site conditions change (e.g., concrete slab deterioration). Since sample SS-2 was collected from the Boiler Room, a room that is not frequently inhabited (i.e., one person for one to two hours per week), mitigation is not necessary at this time.

7.0 Qualitative Human Health Exposure Assessment

7.1 General

This section integrates the data and information obtained during the RI in order to perform a qualitative assessment of the potential for exposure to Site-related residuals. This assessment was performed by identifying potential sources, migration routes for the COCs (i.e., chemicals identified above respective guidance values as discussed in Section 6), potential receptors, and potential exposure pathways at, and in the vicinity of the Site. The assessment follows guidelines specified in the "*NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation*" (NYSDEC, 2010).

7.2 Site Characterization

7.2.1 Site Description

A description of the Site and history is presented in Section 2.1. **Figures 1** and **2** present the Site location and layout, respectively.

Briefly, the Site is located at 225 Erie Street, Village of Lancaster, Erie County, New York. The BCP boundary comprises approximately 1 acre and is bounded on the north by the AVOX guest parking lot followed Erie Street, to the east by the adjoining AVOX Plant 1 followed by residential property, to the west by commercial and industrial properties, and to the south by Norfolk Southern Corporation railroad tracks followed by the village municipal compost and an elementary school. The nearest water body is a tributary of Plum Bottom Creek which runs via underground culvert through the AVOX property north of Erie Street.

7.2.2 General Site Use

Much of the Site consists of grassy areas with some wooded and brushy areas. There are four small buildings on the Site including a metal building, a shed, a block building, and a paint storage shed. A water tower is also located on the Site. The Site is located to the south and adjacent to an asphalt parking lot and north of railroad tracks. Much of the eastern perimeter of the Site is adjacent to the AVOX Plant 1 building. The adjoining AVOX plants are currently used as a manufacturing, development, testing, and distribution facility for aircraft and military supplied-air systems. At this time, there are no plans to change the facility's use.

7.3 Exposure assessment

Exposure is the process by which humans come into contact with chemicals in their environment. Humans can be exposed to chemicals in a variety of environmental media including surface soil, subsurface soil, sediments, groundwater, and air. Exposure to these media can occur through several routes including ingestion, dermal contact, and inhalation. The exposure assessment identifies pathways by which humans are potentially exposed to the constituents identified in Section 6. The assessment includes the following:

- Development of a conceptual Site model;
- Discussion of potential sources;
- Evaluation of data using health-based screening criteria;
- Discussion of potential release mechanisms; and,
- Identification of potential human receptors and receptor-specific exposure pathways.

Although the potential for exposure to residuals at the Site includes an evaluation of the potential for exposure to COCs via drinking impacted Site groundwater, according to information provided by the Village and Town of Lancaster, all residential and commercial properties in the Village and Town obtain drinking water from municipal sources. Other than an evaluation of potential incidental ingestion of impacted groundwater during subsurface construction activities, this pathway is not further discussed in this exposure assessment. The management of groundwater impacted by Site-related residuals will be addressed in the AAR.

7.3.1 Conceptual Site Model

Figure 20 presents the conceptual model for the investigation area. Included on the figure is information regarding the known or potential sources of COC, the identified release mechanisms, and the affected source media. The potential migration pathways, the potential exposure media, and the potential exposure routes are identified. Note that the exposure routes are considered potential unless there is an ongoing or documented exposure. Information regarding the potential receptors identified in each area is presented in **Table 20**.

7.3.2 Potential Sources of Contaminants of Concern

The sources of environmental impact for the investigation area are residual materials associated with the former Scott Aviation Facility operations. In the BCP property, known as Area 1, low levels of VOCs, SVOCs, pesticides, PCBs, and metals were observed in the surface and subsurface soil at several boring locations. No VOC, pesticide, PCB, or metals were detected above the applicable standards in the soil of Area 1. Benzo(a)pyrene was present in three surface soil samples at concentrations slightly greater than the Industrial SCO.

Constituent	*6 NYCRR Part 375-6.8(b): Industrial RSCO (mg/kg)*	*Max. Detected Conc. (mg/kg)*	Sample	Location
Benzo(a)pyrene	1.1	3.7 J	SS-MW-41B2-0-0.2	On-site at well MW-41B

Benzo-a-pyrene is a typical byproduct of combustion and the low levels observed during this sampling are typical of urban background (note active railroad tracks are adjacent to Area 1). Therefore, benzo(a)pyrene in soil is not considered a COC.

Several groundwater samples contained concentrations of VOCs in excess of groundwater standards or guidance levels. Few SVOCs were detected and only in low levels, less than the groundwater standard or guidance values. Iron, magnesium, and sodium were detected at concentrations greater

than the groundwater standards but are not considered COCs as these compounds are often found naturally. No PCBs were detected and only one pesticide was tentatively detected in one groundwater sample at a concentration greater than the standards.

The maximum detected concentrations of groundwater VOCs in exceedance of the NYSDEC Groundwater Standard or Guidance are as follows:

Constituent	*NYSDEC Groundwater Standard (s) or Guidance (g) Value (µ/L)*	*Max. Detected Conc. (µ/L)*	Sample	Location
Benzene	1 s	34 J	A1-GP13-S	Within Plant 1 perimeter fence
Toluene	5 s	1500	A1-GP01-S	Adjacent to IRM
Ethylbenzene	5 s	270	MW-38D	West of IRM
Xylenes (total)	5 s	2000	A1-GP13-S	Within Plant 1 perimeter fence
1,1,1-Trichloroethane	5 s	84000	A1-GP10-S	Within Plant 1 perimeter fence
1,1,2-Trichloro-1,2,2-trifluoroethane	5 s	4400	A1-GP01-S	Adjacent to IRM
1,1,2-Trichloroethane	1 s	210 J	A1-GP01-S	Adjacent to IRM
1,1-Dichloroethane	5 s	48000	A1-GP10-S	Within Plant 1 perimeter fence
1,1-Dichloroethene	5 s	5600	A1-GP03-S	Within Plant 1 perimeter fence
1,2-Dichloroethane	0.6 s	77	A1-GP10-S	Within Plant 1 perimeter fence
2-Butanone	50 g	200	MW-36D	West of IRM
Acetone	50 g	200 J	A1-GP01-S	Adjacent to IRM
Chloroethane	5 s	180	A1-GP13-S	Within Plant 1 perimeter fence
cis-1,2-Dichloroethene	5 s	22000	A1-GP01-S	Adjacent to IRM
Dichlorodifluoromethane	5 s	33 J	A1-GP06-S	North of IRM
Methylene chloride	5 s	17	A1-GP10-S	Within Plant 1 perimeter fence
Tetrachloroethene	5 s	230 J	MW-38D	West of IRM
trans-1,2-Dichloroethene	5 s	190 J	A1-GP02-S	West of IRM
Trichloroethene	5 s	20000	A1-GP02-S	West of IRM
Vinyl chloride	2 s	2200	A1-GP13-S	Within Plant 1 perimeter fence

Observed contamination in Area 1 appears to mainly exist in the groundwater as VOCs. Acetone, 2-Butanone, and methylene chloride are common laboratory contaminants and therefore not considered COCs. The remaining BTEX compounds and chlorinated VOCs in groundwater are considered to be COCs for this site.

7.3.3 Potential Release Mechanisms

As shown on **Figure 20**, there are several potential release mechanisms by which the constituents identified in the soil and groundwater may be transported to other media. Each mechanism is considered for the identified media and potential receptor group. Potential release mechanisms for soil include the following:

- **Fugitive Dust**. Constituents in subsurface soil could be present in fugitive dust which is released via physical disturbance;
- **Volatilization**. Volatile constituents may potentially be transported from subsurface soil by volatilizing into soil-pore space and eventually emanate into ambient or indoor air; and
- **Leaching**. Constituents in surface or subsurface soil could potentially leach to groundwater.

There are three mechanisms by which constituents in groundwater can be transported to other media. These migration pathways include the following:

- **Adsorption**. Constituents in groundwater may be sorbed onto subsurface soils;
- **Volatilization to Ambient Air**. Volatile constituents in groundwater may potentially desorb into soil gas and be transported into ambient or indoor air; and
- **Extraction.** Constituents in groundwater may migrate to other media by extraction and use of impacted groundwater. Note that, as indicated above, groundwater is not used at the Site and potable water in the Village is obtained from municipal sources.

Each of these potential release mechanisms is evaluated for each potential receptor group in **Table 20**.

7.3.4 Potential Human Receptors and Exposure Pathways

This section discusses the identified potential receptors and the potential that the receptor may be exposed to Site-related residuals.

An assessment of potential exposure pathways for receptors at the Site is presented in **Table 20**. The analysis includes an identification of each potential receptor group, a listing of each potential exposure media and potential exposure pathway, and a rationale for inclusion or exclusion of each potential receptor in the consideration of remedial actions for the AAR. Potential receptor groups and potential exposure pathways that may exist for this area are discussed below.

On-site workers at AVOX Plant 1

Results from SVI sampling indicate that soil vapor intrusion is not a current concern in AVOX Plant 1. In addition, workers also do not normally carry out duties in BCP Area 1. As such, the potential for exposure from any media to on-site workers in this area is considered to be low.

Outdoor maintenance workers

Outdoor Maintenance Workers may potentially be exposed to COCs in surface and subsurface soil and groundwater via direct contact pathways (i.e., incidental ingestion, dermal contact, and inhalation of volatiles or particulates) while performing heavy maintenance activities such as subsurface excavations. Since typical outdoor maintenance activities do not involve subsurface excavations and the bulk of COCs were observed in the groundwater, the potential for exposure is considered to be low.

Outdoor subsurface utility workers

Outdoor Subsurface Utility Workers may potentially be exposed to COCs in subsurface soil and groundwater via incidental ingestion, dermal contact, and inhalation of volatiles or particulates if subsurface excavation work is needed to install or repair underground utility lines or equipment in the Site. Only properly trained field personnel should complete subsurface utility or repair work in these impacted areas using methods specified in a Site-specific HASP until the areas have been cleared of impacted materials. Potential remedial actions to manage the impacted media in these areas will be discussed in the AAR.

Trespassers and visitors

Since significant impacts were not observed in surface soils, the potential for exposure is considered to be low.

7.4 Conclusions

Workers and visitors to the Site are unlikely to contact soil vapor, soil, or groundwater impacted with former Scott Aviation operations-related residuals and the potential for exposure for these possible receptor groups is considered to be low.

For a Subsurface Utility or Construction Worker who may perform excavation work on the Site, the worker may potentially be exposed to impacted soil, soil vapor, and/or groundwater. Therefore, subsurface work should only be performed by properly trained personnel, using methods specified in a HASP, or only after the area has been cleared of impacted media.

8.0 Fish and Wildlife Impact Analysis

As part of this RI, AECOM prepared a Fish and Wildlife Impact Analysis (FWIA). The FWIA was completed in accordance with the NYSDEC guidance document entitled "*Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (FWIA)*" dated October 1994. A copy of the FWIA is provided in **Appendix K**.

The objectives of the FWIA were the following:

- Identify the fish and wildlife resources that presently exist and that may have existed before contaminant introduction;
- Provide information necessary for the design of an RI;
- Determine the impacts of Site-related contaminants on fish and wildlife resources; and
- Evaluate the effects of the remedial alternatives on the productivity and diversity of fish and wild resources.

During the FWIA it was determined that the small, isolated vegetated areas on site provide limited habitat for wildlife. The Site is also surrounded by developments (e.g., rail line, industrial and residential properties, roads, etc.). Within a 0.5-mile radius of the site there are some large vegetated tracts. However, due to the level of development that separates the Site from these tracts, it is unlikely that organisms that inhabit these large vegetated tracts transit to the Site to utilize the limited vegetated areas.

The contamination on site is largely limited to a small confined area below the ground surface and the Site geology and topography inhibits offsite migration of these contaminants. Moreover, the vegetated areas on site show no stress due to the contaminants. As such, standard soil erosion control and storm water management measures during future remediation activities should prohibit any offsite migration of contaminants.

9.0 Conclusions and Recommendations

9.1 Nature and Extent of Contamination

Based on the results of the investigation and the Qualitative Human Health Exposure Assessment, the following conclusions were made:

1. No fill was observed in the RI borings. Previously identified fill was excavated during the IRM. Overburden soils were comprised of fine-grained soil, specifically silts and clays. Borehole refusal within the overburden was approximately 21 ft bgs.

2. VOC concentrations for surface soil (i.e., 0 to 2 inches bgs) were below detection limits. SVOC, metals, pesticide, and PCB concentrations were below the SCO for industrial use with the exceptions of benzo(a)pyrene (potentially resulting from the adjacent active rail line).

3. VOC concentrations for subsurface soil were below the SCO for protection of groundwater with the exception of acetone and methylene chloride (common laboratory contaminants). SVOC, metals, pesticide and PCB concentrations in subsurface soil were below the SCO for industrial use and, in most cases, below the SCO for protection of groundwater.

4. Groundwater was present within the monitoring wells that were installed within the shallow overburden, deep overburden, and bedrock. The depth to groundwater varied from 3 to 6 ft bgs in the shallow overburden, from 5 to 7 ft bgs in the deep overburden, and from 9 to 10 ft bgs in the bedrock. Water level data indicates that the groundwater flow direction in the overburden is to the northwest; although this is not as pronounced in the shallow overburden. Only one bedrock well is present on Site so no groundwater flow direction can be inferred in the bedrock at the Site.

5. Analytical data for groundwater samples collected from the shallow and deep overburden identifies the presence of VOCs exceeding NYSDEC TOGs 1.1 protection of drinking water standards. There are no exceedances of NYSDEC TOGs protection of drinking water standards in the bedrock groundwater. The most frequently detected VOCs were TCE and cis-1,2-Dichloroethene. The greatest VOC concentrations were detected in the area of the previously-excavated source area IRM at A1-GP01, A1-GP02, A1-GP03, A1-GP04, A1-GP10, and MW-38D.

6. VOCs were either not detected or were detected at concentrations below or slightly above the NYSDEC TOGs 1.1 protection of drinking water standards for TCE at perimeter wells. The delineation of TCE is complete to the north, south, and west of the historic source area (note TCE was detected above the NYSDEC TOGs 1.1 protection of drinking water standards at A1-GP13 and MW-36S during one of two groundwater sampling events performed during the RI). Additional data will be collected as part of a supplemental RI to delineate Total VOCs in the eastern direction. This data will be submitted to the NYSDEC under separate cover.

7. Constituents of Potential Concern (COPCs) were identified for soil by comparison of maximum detected concentrations for VOCs to 6 NYCRR Part 375 restricted use for protection of groundwater and for SVOCs, metals, pesticides, and PCBs to restricted use for

industrial, and groundwater. COPCs were identified for groundwater by comparison of maximum detected concentrations for VOCs, SVOCs, metals, pesticides, and PCBs to NYSDEC TOGs 1.1 protection of drinking water standards.

8. Based on the evaluation of the data against the decision matrices, a vapor intrusion condition is not present at the site and indoor air quality has not been adversely impacted by the presence of the adjacent groundwater plume.

9. The qualitative exposure assessment identified the potential for human exposure to soil through dermal contact, incidental ingestion, and inhalation of particulate and vapors, and groundwater through dermal contact, incidental ingestion, and inhalation of vapors. The potentially exposed on-site receptors include workers (plant workers and construction/utility workers) and persons that may trespass onto the site. Potential human exposure can be addressed using remedial or other methods to eliminate exposure pathways and/or provide worker protection.

10. During the FWIA it was determined that the small, isolated vegetated areas on site provide limited habitat for wildlife. The Site is surrounded by developments (e.g., rail line, industrial and residential properties, roads, etc.) and the vegetated areas on site show no stress due to the contaminants.

9.2 Interim Remedial Measures

The results of the RI indentified the presence of VOCs in the on-site shallow and, to a lesser extent, deep overburden groundwater at concentrations that exceed NYSDEC TOGs 1.1 protection of drinking water standards. Because a public exposure pathway to groundwater in this area has not been identified (i.e., no immediate threat to human health or the environment), an IRM will not be performed. Remedial options for the VOC groundwater plume will be addressed in the AAR.

9.3 Alternatives Analysis Report

An AAR is being prepared to scope and evaluate applicable remedial alternatives to address the presence of VOCs in on-site groundwater and the environmental media that are impacted as a result of VOCs in groundwater (i.e., soil and soil/indoor vapor). The AAR will evaluate the applicable remedial alternatives in order to select the most appropriate option.

10.0 References

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LaSala, A.M., Jr. 1968. Ground Water Resources of the Erie Niagara Basin, New York: U.S. Geological Survey and New York State Conservation Department, Division of Water Resources, Report ENB-3, 114pp.

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Table 1

Analytical Sampling Program
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Location	Matrix	VOCs (Method TO-15)	VOCs (8260B)	SVOCs (8270C)	Metals (w/Hg) (6010B/7471A)	PCBs (8082)	Pesticides (8081A)
Soil Vapor Intrusion Evaluation Sampling							
SS-1 (sub-slab)	Vapor	1					
SS-1 (indoor)	Vapor	1					
SS-2 (sub-slab)	Vapor	1					
SS-2 (indoor)	Vapor	1					
SS-3 (sub-slab)	Vapor	1					
SS-3 (indoor)	Vapor	1					
AS-1	Vapor	1					
Total Number of Air Samples		**7**					
Monitoring Well and Piezometer Groundwater Sampling							
MW-30	Groundwater		2		2		
MW-35S	Groundwater		2				
MW-35D	Groundwater		2				
MW-36S	Groundwater		2	2	2	2	2
MW-36D	Groundwater		2				
MW-37S	Groundwater		2				
MW-37D	Groundwater		2				
MW-38D	Groundwater		2				
MW-39D	Groundwater		2	2	2	2	2
MW-40D	Groundwater		2				
MW-41B1	Groundwater		2				
MW-41B2	Groundwater		2	2	2	2	2
A1-GP01-S	Groundwater		2				
A1-GP02-S	Groundwater		2				
A1-GP03-S	Groundwater		2				
A1-GP04-S	Groundwater		2				
A1-GP05-S	Groundwater		2				
A1-GP06-S	Groundwater		2				
A1-GP07-S	Groundwater		2				
A1-GP08-S	Groundwater		2				
A1-GP09-S	Groundwater		2				
A1-GP10-S	Groundwater		2				
A1-GP11-S	Groundwater		2				
A1-GP12-S	Groundwater		2				
A1-GP13-S	Groundwater		2				
A1-GP14-S	Groundwater		2				
A1-GP15-S	Groundwater		2				
A1-GP16-S	Groundwater		2				
A1-GP17-S	Groundwater		2				
A1-GP18-S	Groundwater		2				
Total Number of Groundwater Samples			**60**	**6**	**8**	**6**	**6**
Temporary Piezometer Storm Sewer Bedding Water Sampling							
TP-1	Water		2				
TP-2	Water		2				
TP-3	Water		2				
TP-4	Water		2				
Total Number of Water Samples			**8**				
IRM Soil Delineation							
SS-MW-35S-x[1]	Soil			1	1	1	1
SS-MW-35S-x[2]	Soil		1	1	1	1	1
SS-MW-36D-x[2]	Soil			1	1	1	1
SS-MW-37D-x[2]	Soil			1	1	1	1
SS-MW-38D-x[1]	Soil		1	1	1	1	1
SS-MW-39D-x[2]	Soil			1	1	1	1
SS-MW-40D-x[1]	Soil		1	1	1	1	1
SS-MW-41B2-x[1]	Soil		1	1	1	1	1
Total Number of IRM Soil Samples			**4**	**8**	**8**	**8**	**8**
DPT-8 Soil Delineation							
SS-DPT8-1A-x[3]	Soil		1	1	1	1	1
SS-DPT8-1B-x[2]	Soil		1	1	1	1	1
SS-DPT8-2A-x[3]	Soil		1	1	1	1	1
SS-DPT8-2B-x[2]	Soil		1	1	1	1	1
SS-DPT8-3A-x[3]	Soil		1	1	1	1	1
SS-DPT8-3B-x[3]	Soil		1	1	1	1	1
SS-DPT8-3C-x[1]	Soil		1	1	1	1	1
Total Number of DPT-8 Soil Samples			**7**	**7**	**7**	**7**	**7**

Notes:
1. Sample collected from 0-2 inch interval.
2. Sample collected from soil with highest Photoionization Detector (PID) reading or immediately above the water table.
3. Sample collected from 0-2 feet interval.

VOC - Volatile Organic Compound
SVOC - Semi-volatile Organic Compound
PCB - Polychlorinated biphenyl
ASTM - American Society for Testing Materials
TOC - Total Organic Carbon
TCLP - Toxicity Characteristic Leaching Procedure
AS - Air Sample
GW-Groundwater Sample
SS- Soil Sample

Table 2

Monitoring Well and Piezometer Installation Details
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Location ID	Investigative Phase	Date Completed	Screen Interval (ft bgs)
A1-GP01S	PGA Phase I	2/27/2006	5 - 15
A1-GP02S		2/27/2006	5 - 15
A1-GP03S		2/27/2006	5 - 15
A1-GP04S		2/27/2006	5 - 15
A1-GP05S		2/27/2006	5 - 15
A1-GP06S		2/27/2006	5 - 15
A1-GP07S	PGA Phase II	5/16/2006	5 - 15
A1-GP08S		5/16/2006	5 - 15
A1-GP09S		5/16/2006	5 - 15
A1-GP10S		5/16/2006	5 - 15
A1-GP11S		5/15/2006	5 - 15
A1-GP12S[1]		5/16/2006	5 - 15
A1-GP13S	PGA Phase III	5/22/2007	5 - 15
A1-GP14S		5/22/2007	5 - 15
A1-GP15S		5/23/2007	5 - 15
A1-GP16S		5/23/2007	5 - 15
A1-GP17S		5/23/2007	5 - 15
A1-GP18S		5/24/2007	5 - 15
A1-GP12S[2]	RI	5/27/2010	5 - 15
MW-35S		5/26/2010	5 - 15
MW-35D		5/26/2010	21 - 26
MW-36S		6/4/2010	5 - 15
MW-36D		6/4/2010	16 - 21
MW-37S		5/28/2010	4.5 - 14.5
MW-37D		5/28/2010	15 - 20
MW-38D		6/3/2010	16 - 21
MW-39D		6/3/2010	15 - 20
MW-40D		6/2/2010	17.8 - 22.8
MW-40B		6/1/2010	24.8 - 34.8
TP-1		6/24/2010	2.9 - 5.4
TP-2		6/24/2010	1.5 - 4
TP-3		6/24/2010	1.4 - 3.9
TP-4		6/24/2010	1 - 3.5

Notes:

1. This well was damaged and subsequently replaced during the RI field activities.
2. This well is a replacement well for the well with the same identification that was installed during Phase II of the PGA.

ft bgs - feet below ground surface
PGA - Preliminary Groundwater Assessment
RI - Remedial Investigation

Table 3

Groundwater Monitoring Water Level Data
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Monitoring Point Identification	Top of Casing Elevation	June 16, 2010		August 2, 2010		October 21, 2010	
		Depth to	Ground Water	Depth to	Ground Water	Depth to	Ground Water
Monitoring Wells							
MW-30[1]	689.69	2.92	686.77	3.71	685.98	NA	NA
MW-35S	688.56	1.84	686.72	5.70	682.86	10.23	678.33
MW-35D	688.40	8.00	680.40	7.77	680.63	9.17	679.23
MW-36S	689.82	3.00	686.82	5.25	684.57	4.99	684.83
MW-36D	689.66	5.30	684.36	6.08	683.58	7.35	682.31
MW-37S	690.10	3.50	686.60	5.25	684.85	6.16	683.94
MW-37D	690.05	4.20	685.85	5.30	684.75	6.35	683.70
MW-38D	689.66	5.70	683.96	6.28	683.38	7.46	682.20
MW-39D	689.72	3.85	685.87	4.94	684.78	6.05	683.67
MW-40D	689.19	3.33	685.86	4.34	684.85	5.26	683.93
MW-41B	689.78	9.20	680.58	9.50	680.28	10.28	679.50
Piezometers							
A1-GP01-S	689.96	NA	NA	5.55	684.41	6.20	683.76
A1-GP02-S	689.82	3.05	686.77	5.30	684.52	5.50	684.32
A1-GP03-S	690.70	4.38	686.32	6.54	684.16	7.59	683.11
A1-GP04-S	690.46	3.61	686.85	6.12	684.34	8.80	681.66
A1-GP05-S	690.38	4.80	685.58	6.36	684.02	7.40	682.98
A1-GP06-S	687.71	3.40	684.31	3.20	684.51	3.92	683.79
A1-GP07-S	690.47	3.70	686.77	6.20	684.27	6.86	683.61
A1-GP08-S	689.68	2.75	686.93	5.04	684.64	5.80	683.88
A1-GP09-S	689.36	2.45	686.91	5.80	683.56	7.80	681.56
A1-GP10-S	689.10	1.27	687.83	3.92	685.18	2.40	686.70
A1-GP11-S	689.34	4.04	685.30	4.50	684.84	4.70	684.64
A1-GP12-S	689.5	2.28	687.22	2.98	686.52	3.32	686.18
A1-GP13-S	689.69	1.34	688.35	3.55	686.14	4.56	685.13
A1-GP14-S	689.43	1.50	687.93	3.04	686.39	2.20	687.23
A1-GP15-S	687.69	0.54	687.15	4.40	683.29	7.64	680.05
A1-GP16-S	689.86	3.00	686.86	5.21	684.65	5.80	684.06
A1-GP17-S	690.11	3.16	686.95	6.40	683.71	5.82	684.29
A1-GP18-S	690.37	6.90	683.47	5.25	685.12	5.25	685.12
Temporary Piezometers[2]							
TP-1	688.92	5.50	683.42	dry	NA	5.33	683.59
TP-2	688.35	3.00	685.35	4.20	684.15	4.60	683.75
TP-3	688.54	4.45	684.09	dry	NA	4.74	683.80
TP-4	689.07	4.32	684.75	dry	NA	dry	NA

Notes:
1. Well is screened across both shallow and deep overburden units.
2. Temporary piezometers are screened in storm water sewer bedding.

TOC - Top of Casing
AMSL - Above Mean Sea Level
NA - Not Available
S - well is screened in shallow overburden
D - well is screened in deep overburden
B - well is screened in bedrock

Table 4

Geotechnical Data Summary
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

	Sample Designation	MW41B2-8-10	MW41B2-18-20
	Laboratory Identification	RTE1493-01	RTE1493-02
	Date Sampled	5/27/2010	5/27/2010
Parameter	**Test Method**	**Results**	
In-Place Density	ASTM D2937	1.57 g/cm^3	1.82 g/cm^3
Moisture Content	ASTM D2216	24.0 %	18.1 %
Specific Gravity	ASTM D854	2.784	2.775
Percent Solids	Dry Weight	74.1 %	85.1 %
Total Organic Carbon	Lloyd Kahn	4,590 mg/kg	12,400 mg/kg
Grain Size (Clay)	ASTM D422	49.6 %	35.1 %
Grain Size (Silt)	ASTM D422	45.8 %	59.9 %
Grain Size (Fine Sand)	ASTM D422	2.9 %	3.6 %
Grain Size (Medium Sand)	ASTM D422	0.8 %	0.7 %
Grain Size (Coarse Sand)	ASTM D422	0.8 %	0.8 %
Grain Size (Gravel)	ASTM D422	0 %	0 %

Notes:
ASTM = American Society for Testing and Materials
g/cm^3 = grams per cubic centimeter
mg/kg = milligram per kilogram
% = Percent

Table 5

Surface Soil VOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-MW-38D-0-0.2 / RTE1487-07 / 5/27/2010		SS-MW-40D-0-0.2 / RTE1487-06 / 5/27/2010		SS-MW-41B2-0-0.2 / RTE1487-05 / 5/27/2010		SS-DPT8-2C-(0-0.2) / RTF0541-01 / 6/2/2010	
			Residential	Restricted-Residential	Commercial	Industrial										
BTEX Compounds (mg/Kg)																
Benzene	71-43-2	0.06	2.9	4.8	44	89	70	0.06	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Ethylbenzene	100-41-4	1	30	41	390	780	NS	1	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Toluene	108-88-3	0.7	100	100	500	1,000	36	0.7	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Xylene (mixed)	1330-20-7	0.26	100	100	500	1,000	0.26	1.6	0.013	U	0.012	U	0.019	UJ	0.011	U
Total BTEX (mg/Kg)	NA	NL	NL	NL	NL	NL	NL	NL	---	U	---	U	---	U	---	U
Other VOCs (mg/Kg)																
1,1,1-Trichloroethane	71-55-6	0.68	100	100	500	1,000	NS	0.68	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,1-Dichloroethane	75-34-3	0.27	19	26	240	480	NS	0.27	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,1-Dichloroethene	75-35-4	0.33	100	100	500	1,000	NS	0.33	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,2,4-trichlorobenzene	120-82-1	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,2-Dichlorobenzene	95-50-1	1.1	100	100	500	1,000	NS	1.1	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,2-Dichloroethane	107-06-2	0.02	2.3	3.1	30	60	10	0.02	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1-3 dichloropropane	78-87-5	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,3-Dichlorobenzene	541-73-1	2.4	17	49	280	560	NS	2.4	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
1,4-Dichlorobenzene	106-46-7	1.8	9.8	13	130	250	20	1.8	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Methyl ethyl ketone	78-93-3	0.12	100	100	500	1,000	100	0.12	0.033	U	0.029	U	0.047	UJ	0.028	U
2-Hexanone	591-78-6	NL	NL	NL	NL	NL	NL	NL	0.033	U	0.029	U	0.047	UJ	0.028	U
4-Methyl-2-Pentanone	108-10-1	NL	NL	NL	NL	NL	NL	NL	0.033	U	0.029	U	0.047	UJ	0.028	U
Acetone	67-64-1	0.05	100	100	500	1,000	2.2	0.05	0.033	U	0.029	U	0.047	UJ	0.028	U
Bromodichloromethane	75-27-4	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Bromoform	75-25-2	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Bromomethane	74-83-9	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Carbon Disulfide	75-15-0	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Carbon tetrachloride	56-23-5	0.76	1.4	2.4	22	44	NS	0.76	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Chlorobenzene	108-90-7	1.1	100	100	500	1,000	40	1.1	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Chloroethane	75-00-3	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Chloroform	67-66-3	0.37	10	49	350	700	12	0.37	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Chloromethane	74-87-3	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
cis -1,2-Dichloroethene	156-59-2	0.25	59	100	500	1,000	NS	0.25	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Cyclohexane	110-82-7	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Dibromochloromethane	124-48-1	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U

Table 5

Surface Soil VOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-MW-38D-0-0.2 / RTE1487-07 / 5/27/2010		SS-MW-40D-0-0.2 / RTE1487-06 / 5/27/2010		SS-MW-41B2-0-0.2 / RTE1487-05 / 5/27/2010		SS-DPT8-2C-(0-0.2) / RTF0541-01 / 6/2/2010	
			Residential	Restricted-Residential	Commercial	Industrial										
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Isopropylbenzene	98-82-8	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Methyl acetate	79-20-9	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Methyl tert-butyl ether	1634-04-4	0.93	62	100	500	1,000	NS	0.93	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Methylcyclohexane	108-87-2	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Methylene chloride	75-09-2	0.05	51	100	500	1,000	12	0.05	0.0065	U	0.0059	U	0.013	U	0.019	U
Styrene	100-42-5	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Tetrachloroethene	127-18-4	1.3	5.5	19	150	300	2	1.3	0.0065	U	0.0059	U	0.0094	U	0.0057	U
trans-1,2-Dichloroethene	156-60-5	0.19	100	100	500	1,000	NS	0.19	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Trichloroethene	79-01-6	0.47	10	21	200	400	2	0.47	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL	NL	NL	NL	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Vinyl chloride	75-01-4	0.02	0.21	0.9	13	27	NS	0.02	0.0065	U	0.0059	U	0.0094	UJ	0.0057	U
Total VOCs (mg/Kg)[1]	NA	NL	NL	NL	NL	NL	NL	NL	---	U	---	U	---	U	---	U

Notes:

1. Total VOCs includes BTEX compounds.

NL = Not Listed

NA = Not analyzed, not applicable.

U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

Bold value - compound detected at concentration greater than the Protection of Groundwater SCO concentration.

Shaded value - compound detected at concentration greater than the Industrial SCO concentration.

NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 6

Surface Soil SVOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-MW-35S-0-0.2		SS-DUPLICATE-1 (SS-MW-35S-0-0.2)		SS-MW-38D-0-0.2		SS-MW-40D-0-0.2		SS-MW-41B2-0-0.2		SS-DPT8-2C-(0-0.2)	
			Residential	Restricted-Residential	Commercial	Industrial			RTE1487-01		RTE1487-03		RTE1487-07		RTE1487-06		RTE1487-05		RTF0541-01	
									5/26/2010		5/26/2010		5/27/2010		5/27/2010		5/27/2010		6/2/2010	
PAH Compounds (mg/Kg)																				
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	0.02	UJ	3.9	U
Acenaphthene	83-32-9	20	100	100	500	1,000	20	98	0.25	U	0.23	U	0.021	J	0.14	J	0.39	J	0.21	J
Acenaphthylene	208-96-8	100	100	100	500	1,000	NS	107	0.027	J	0.02	J	0.22	U	0.096	J	0.014	UJ	3.9	U
Anthracene	120-12-7	100	100	100	500	1,000	NS	1,000	0.06	J	0.037	J	0.055	J	0.44	J	1	J	0.53	J
Benzo(a)anthracene	56-55-3	1	1	1	5.6	11	NS	1	0.24	J	0.17	J	0.24		**1.6**		**3.3**	**J**	**2.4**	**J**
Benzo(a)pyrene	50-32-8	1	1	1	1	1.1	2.6	22	0.24	J	0.19	J	0.27		1.8		3.7	J	2.5	J
Benzo(b)fluoranthene	205-99-2	1	1	1	5.6	11	NS	1.7	0.28		0.21	J	0.3		**1.9**		**4.6**	**J**	**2.9**	**J**
Benzo(ghi)perylene	191-24-2	100	100	100	500	1,000	NS	1,000	0.16	J	0.13	J	0.19	J	1.2		2.7	J	1.7	J
Benzo(k)fluoranthene	207-08-9	0.8	1	3.9	56	110	NS	1.7	0.1	J	0.081	J	0.14	J	0.81	J	1.3	J	1.2	J
Chrysene	218-01-9	1	1	3.9	56	110	NS	1	0.23	J	0.18	J	0.26		**1.6**		**3.4**	**J**	**2.2**	**J**
Dibenz(a,h)anthracene	53-70-3	0.33	0.33	0.33	0.56	1.1	NS	1,000	0.036	J	0.027	J	0.042	J	0.29	J	0.58	J	0.4	J
Fluoranthene	206-44-0	100	100	100	500	1,000	NS	1,000	0.51		0.35		0.52		3.2		7.6	J	4.7	
Fluorene	86-73-7	30	100	100	500	1,000	30	386	0.25	U	0.23	U	0.022	J	0.17	J	0.42	J	0.17	J
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	5.6	11	NS	8.2	0.14	J	0.12	J	0.16	J	1.1		2.2	J	1.4	J
Naphthalene	91-20-3	12	100	100	500	1,000	NS	12	0.25	U	0.23	U	0.22	U	1	U	0.028	UJ	3.9	U
Phenanthrene	85-01-8	100	100	100	500	1,000	NS	1,000	0.27		0.19	J	0.27		1.7		4.7	J	2.8	J
Pyrene	129-00-0	100	100	100	500	1,000	NS	1,000	0.4		0.29		0.41		2.5		6	J	4.2	
Total PAHs (mg/Kg)	NA	NL	NL	NL	NL	NL	NL	NL	2.693		1.995		2.9		18.546		41.89		27.31	
Other SVOCs (mg/Kg)																				
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL	NL	NL	NL	0.49	U	0.45	U	0.44	U	1.9	U	3.3	UJ	7.5	U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2-Chlorophenol	95-57-8	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2-Methylphenol (o-cresol)	95-48-7	0.33	100	100	500	1,000	NS	0.33	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
2-Nitroaniline	88-74-4	NL	NL	NL	NL	NL	NL	NL	0.49	U	0.45	U	0.44	U	1.9	U	3.3	UJ	7.5	U
2-Nitrophenol	88-75-5	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
3-Nitroaniline	99-09-2	NL	NL	NL	NL	NL	NL	NL	0.49	U	0.45	U	0.44	U	1.9	U	3.3	UJ	7.5	U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL	NL	NL	NL	0.49	U	0.45	U	0.44	U	1.9	U	3.3	UJ	7.5	U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
4-Chloroaniline	106-47-8	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL	NL	NL	NL	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
4-Methylphenol (p-cresol)	106-44-5	0.33	34	100	500	1,000	NS	0.33	0.25	U	0.23	U	0.22	U	1	U	1.7	UJ	3.9	U
4-Nitroaniline	100-01-6	NL	NL	NL	NL	NL	NL	NL	0.49	U	0.45	U	0.44	U	1.9	U	3.3	UJ	7.5	U
4-Nitrophenol	100-02-7	NL	NL	NL	NL	NL	NL	NL	0.49	U	0.45	U	0.44	U	1.9	U	3.3	UJ	7.5	U

Table 6

Surface Soil SVOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-MW-35S-0-0.2	SS-DUPLICATE-1 (SS-MW-35S-0-0.2)	SS-MW-38D-0-0.2	SS-MW-40D-0-0.2	SS-MW-41B2-0-0.2	SS-DPT8-2C-(0-0.2)
			Residential	Restricted-Residential	Commercial	Industrial			RTE1487-01	RTE1487-03	RTE1487-07	RTE1487-06	RTE1487-05	RTF0541-01
									5/26/2010	5/26/2010	5/27/2010	5/27/2010	5/27/2010	6/2/2010
Acetophenone	98-86-2	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Atrazine	1912-24-9	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Benzaldehyde	100-52-7	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Caprolactam	105-60-2	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Carbazole	86-74-8	NL	NL	NL	NL	NL	NL	NL	0.019 J	0.02 J	0.038 J	0.25 J	0.7 J	0.32 J
Dibenzofuran	132-64-9	7	14	59	350	1,000	NS	210	0.25 U	0.23 U	0.22 U	1 U	0.19 J	3.9 U
Diethyl phthalate	131-11-3	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Dimethyl phthalate	84-66-2	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Hexachlorobenzene	118-74-1	0.33	0.33	1.2	6	12	NS	3.2	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Hexachloroethane	67-72-1	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Isophorone	78-59-1	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Nitrobenzene	98-95-3	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL	NL	NL	NL	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Pentachlorophenol	87-86-5	0.8	2.4	6.7	6.7	55	0.8	0.8	0.49 U	0.45 U	0.44 U	1.9 U	3.3 UJ	7.5 U
Phenol	108-95-2	0.33	100	100	500	1,000	30	0.33	0.25 U	0.23 U	0.22 U	1 U	1.7 UJ	3.9 U
Total SVOCs (mg/Kg)[1]	**NA**	NL	NL	NL	NL	NL	NL	NL	2.712	2.015	2.938	18.796	42.78	27.63

Notes:
1. Total SVOCs includes all of the PAH and SVOC compounds.
NL = Not Listed
NA = Not analyzed, not applicable.
U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the Protection of Groundwater SCO concentration.
Shaded value - compound detected at concentration greater than the Industrial SCO concentration.
NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 7

Surface Soil Metals Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health: Residential	Protection of Public Health: Restricted-Residential	Protection of Public Health: Commercial	Protection of Public Health: Industrial	Protection of Ecological Resources	Protection of Groundwater	SS-MW-35S-0-0.2 / RTE1487-01 / 5/26/2010		SS-DUPLICATE-1 (SS-MW-35S-0-0.2) / RTE1487-03 / 5/26/2010		SS-MW-38D-0-0.2 / RTE1487-07 / 5/27/2010		SS-MW-40D-0-0.2 / RTE1487-06 / 5/27/2010		SS-MW-41B2-0-0.2 / RTE1487-05 / 5/27/2010		SS-DPT8-2C-(0-0.2) / RTF0541-01 / 6/2/2010	
Metals (mg/kg)																				
Aluminum	7429-90-5	NL	NL	NL	NL	NL	NL	NL	12,600		9,380		13,500		9,280		20,900	J	5,570	
Antimony	7440-36-0	NL	NL	NL	NL	NL	NL	NL	21.9	UJ	21.9	UJ	19.5	UJ	17.2	UJ	28.3	UJ	18.4	U
Arsenic	7440-38-2	13	16	16	16	16	13	16	6.5		4.3		5.5		3.5		12	J	4.7	
Barium	7440-39-3	350	350	400	400	10,000	433	820	48.7		37.7		81.1		66.7		142	J	112	
Beryllium	7440-41-7	7.2	14	72	590	2,700	10	47	0.601		0.353		0.495		0.356		0.776	J	0.487	
Cadmium	7440-43-9	2.5	2.5	4.3	9.3	60	4	7.5	0.293	U	0.381		1.77		1.33		**19.9**	**J**	**23.5**	
Calcium	7440-70-2	NL	NL	NL	NL	NL	NL	NL	2,670		2,280		11,500		9,220		21,800	J	160,000	
Chromium	7440-47-3	30[c]	36	180	1,500	6,800	41	NL	14.6		11.3		50.1		38.8		322	J	575	
Cobalt	7440-48-4	NL	NL	NL	NL	NL	NL	NL	6.01		4.6		7.56		5.26		12.2	J	3.92	
Copper	7440-50-8	50	270	270	270	10,000	50	1,720	15.1		11.8		38		43.1		123	J	147	
Iron	7439-89-6	NL	NL	NL	NL	NL	NL	NL	17,100		12,500		20,700		13,900		34,500	J	16,200	
Lead	7439-92-1	63	400	400	1,000	3,900	63	450	37.9		28.5		58.6		81.3		305	J	**768**	
Magnesium	7439-95-4	NL	NL	NL	NL	NL	NL	NL	2,180		1,710		5,780		4,940		8,050	J	14,700	
Manganese	7439-96-5	1,600	2,000	2,000	10,000	10,000	1,600	2,000	152	J	124	J	366	J	309	J	607	J	370	
Total Mercury	7439-97-6	0.18	0.81	0.81	2.8	5.7	0.18	0.73	0.0615		0.0409		0.0243	U	0.0861		0.569	J	0.113	
Nickel	7440-02-0	30	140	310	310	10,000	30	130	15.3		11.3		20.8		14.5		83.9	J	**621**	
Potassium	7440-09-7	NL	NL	NL	NL	NL	NL	NL	827		641		1,410		920		2,490	J	498	
Selenium	7782-49-2	3.9	36	180	1,500	6,800	3.9	4	5.9	U	5.8	U	5.2	U	4.6	U	7.5	UJ	4.9	U
Silver	7440-22-4	2	36	180	1,500	6,800	2	8.3	0.731	U	0.73	U	0.648	U	0.575	U	1.36	J	0.577	U
Sodium	7440-23-5	NL	NL	NL	NL	NL	NL	NL	205	U	204	U	182	U	161	U	264	UJ	206	
Thallium	7440-28-0	NL	NL	NL	NL	NL	NL	NL	8.8	U	8.8	U	7.8	U	6.9	U	11.3	UJ	7.4	U
Vanadium	7440-62-2	NL	NL	NL	NL	NL	NL	NL	21.7		15.2		22.5		15.8		34.7	J	11.8	
Zinc	7440-66-6	109	2,200	10,000	10,000	10,000	109	2,480	73.2		60.3		159		221		646	J	448	

Notes:
NL = Not Listed
NA = Not analyzed
U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the Protection of Groundwater SCO.
Shaded value - compound detected at concentration greater than the Industrial SCO.
NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 8

Surface Soil Pesticides and PCBs Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation Laboratory Identification Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-MW-35S-0-0.2 RTE1487-01 5/26/2010		(SS-MW-35S-0-0.2) RTE1487-03 5/26/2010		SS-MW-38D-0-0.2 RTE1487-07 5/27/2010		SS-MW-40D-0-0.2 RTE1487-06 5/27/2010		SS-MW-41B2-0-0.2 RTE1487-05 5/27/2010		SS-DPT8-2C-(0-0.2) RTF0541-01 6/2/2010	
			Residential	Restricted-Residential	Commercial	Industrial														
Organochlorine Pesticides (mg/Kg)																				
Aldrin	309-00-2	0.005	0.019	0.097	0.68	1.4	0.14	0.19	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
alpha-BHC	319-84-6	0.02	0.097	0.48	3.4	6.8	0.04	0.02	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
beta-BHC	319-85-7	0.036	0.072	0.36	3	14	0.6	0.09	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
delta-BHC	319-86-8	0.04	100	100	500	1,000	0.04	0.25	0.0025	U	0.0023	U	0.022	U	0.0018	J	0.034	UJ	0.019	U
Chlordane (alpha)	5103-71-9	0.094	0.91	4.2	24	47	1.3	2.9	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Chlordane	NL	NL	NL	NL	NL	NL	NL	NL	0.025	U	0.023	U	0.22	U	0.039	U	0.34	UJ	0.19	U
4,4'-DDD	72-54-8	0.0033	2.6	13	92	180	0.0033	14	0.0025	U	0.0023	U	0.022	U	0.0016	J	0.034	UJ	0.019	U
4,4'-DDE	72-55-9	0.0033	1.8	8.9	62	120	0.0033	17	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
4,4'-DDT	50-29-3	0.0033	1.7	7.9	47	94	0.0033	136	0.0014	J	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.009	J
Dieldrin	60-57-1	0.005	0.039	0.2	1.4	2.8	0.006	0.1	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Endosulfan I	959-98-8	2.4	4.8	24	200	920	NS	102	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Endosulfan II	33213-65-9	2.4	4.8	24	200	920	NS	102	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Endosulfan sulfate	1031-07-8	2.4	4.8	24	200	920	NS	1,000	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Endrin	72-20-8	0.014	2.2	11	89	410	0.014	0.06	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Endrin aldehyde		NL	NL	NL	NL	NL	n	NL	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Endrin keytone	NL	NL	NL	NL	NL	NL	NL	NL	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
gamma-BHC (Lindane)	58-89-9	0.1	0.28	1.3	9.2	23	6	0.1	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
gamma-Chlordane	NL	NL	NL	NL	NL	NL	NL	NL	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Heptachlor	76-44-8	0.042	0.42	2.1	15	29	0.14	0.38	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Heptachlor epoxide	NL	NL	NL	NL	NL	NL	NL	NL	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Methoxychlor	NL	NL	NL	NL	NL	NL	NL	NL	0.0025	U	0.0023	U	0.022	U	0.0039	U	0.034	UJ	0.019	U
Toxaphene	NL	NL	NL	NL	NL	NL	NL	NL	0.025	U	0.023	U	0.22	U	0.039	U	0.34	UJ	0.19	U
PCBs (mg/Kg)																				
Aroclor 1016	12674-11-2	NL	NL	NL	NL	NL	NL	NL	0.025	U	0.023	U	0.022	U	0.019	U	0.17	UJ	0.019	U
Aroclor 1221	11104-28-2	NL	NL	NL	NL	NL	NL	NL	0.025	U	0.023	U	0.022	U	0.019	U	0.17	UJ	0.019	U
Aroclor 1232	11141-16-5	NL	NL	NL	NL	NL	NL	NL	0.025	U	0.023	U	0.022	U	0.019	U	0.17	UJ	0.019	U
Aroclor 1242	53469-21-9	NL	NL	NL	NL	NL	NL	NL	0.025	U	0.023	U	0.022	U	0.019	U	0.17	UJ	0.019	U
Aroclor 1248	12672-29-6	NL	NL	NL	NL	NL	NL	NL	0.025	U	0.023	U	0.022	U	0.019	U	0.17	UJ	0.019	U
Aroclor 1254	11097-69-1	NL	NL	NL	NL	NL	NL	NL	0.025	U	0.023	U	0.034		0.021	J	0.11	J	0.019	U
Aroclor 1260	11096-82-5	NL	NL	NL	NL	NL	NL	NL	0.025	U	0.023	U	0.022	U	0.034	J	0.15	J	0.038	J
Total PCBs (mg/Kg)	NA	0.1	1	1	1	25	1	3.2	---	U	---	U	0.034		0.055		0.26		0.038	

Notes:
NL = Not Listed
NA = Not analyzed
U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the Protection of Groundwater SCO.
Shaded value - compound detected at concentration greater than the Industrial SCO.
NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 9

Subsurface Soil VOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health: Residential	Restricted-Residential	Commercial	Industrial	Protection of Ecological Resources	Protection of Groundwater	SS-MW-35S-6-7 RTE1487-02 5/26/2010	SS-DUPLICATE-1 (SS-MW-35S-6-7) RTE1487-03 5/26/2010	SS-DPT8-1A-(0-2) RTF0541-02 6/2/2010	SS-DPT8-1B-(2-4) RTF0541-03 6/2/2010	SS-DPT8-2A-(0-2) RTF0541-04 6/2/2010	SS-DPT8-2B-(2-4) RTF0541-05 6/2/2010	SS-DPT8-3A-(0-2) RTF0541-07 6/2/2010	SS-DPT8-3B-(6-8) RTF0541-06 6/2/2010	SS-MW-36D-(8-9) RTF0542-02 6/4/2010
BTEX Compounds (mg/Kg)																	
Benzene	71-43-2	0.06	2.9	4.8	44	89	70	0.06	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Ethylbenzene	100-41-4	1	30	41	390	780	NS	1	0.006 U	0.0069 U	0.0067 U	0.019	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Toluene	108-88-3	0.7	100	100	500	1,000	36	0.7	0.006 U	0.0069 U	0.0067 U	0.006 U	0.048 J	0.041 J	0.0062 U	0.0059 U	0.0058 U
Xylene (mixed)	1330-20-7	0.26	100	100	500	1,000	0.26	1.6	0.012 U	0.014 U	0.0035 J	0.0063 J	0.064 J	0.05 U	0.0063 J	0.012 U	0.012 U
Total BTEX (mg/Kg)	NA	NL	NL	NL	NL	NL	NL	NL	--- U	--- U	0.0035	0.0253	0.112	0.041	0.0063	--- U	--- U
Other VOCs (mg/Kg)																	
1,1,1-Trichloroethane	71-55-6	0.68	100	100	500	1,000	NS	0.68	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,1-Dichloroethane	75-34-3	0.27	19	26	240	480	NS	0.27	0.006 U	0.0069 U	0.013	0.052	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,1-Dichloroethene	75-35-4	0.33	100	100	500	1,000	NS	0.33	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,2,4-trichlorobenzene	120-82-1	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,2-Dichlorobenzene	95-50-1	1.1	100	100	500	1,000	NS	1.1	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,2-Dichloroethane	107-06-2	0.02	2.3	3.1	30	60	10	0.02	0.006 U	0.0069 U	0.0032 J	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1-3 dichloropropane	78-87-5	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,3-Dichlorobenzene	541-73-1	2.4	17	49	280	560	NS	2.4	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
1,4-Dichlorobenzene	106-46-7	1.8	9.8	13	130	250	20	1.8	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Methyl ethyl ketone	78-93-3	0.12	100	100	500	1,000	100	0.12	0.03 U	0.035 U	0.0044 J	0.004 J	0.03 J	0.13 U	0.0056 J	0.029 U	0.029 U
2-Hexanone	591-78-6	NL	NL	NL	NL	NL	NL	NL	0.03 U	0.035 U	0.034 U	0.03 U	0.22 U	0.13 U	0.031 U	0.029 U	0.029 U
4-Methyl-2-Pentanone	108-10-1	NL	NL	NL	NL	NL	NL	NL	0.03 U	0.035 U	0.034 U	0.03 U	0.22 U	0.13 U	0.031 U	0.029 U	0.029 U
Acetone	67-64-1	0.05	100	100	500	1,000	2.2	0.05	0.03 U	0.035 U	0.034 U	0.04 U	**3.8**	**3**	0.042 U	0.029 U	0.029 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Bromoform	75-25-2	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Bromomethane	74-83-9	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Carbon Disulfide	75-15-0	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Carbon tetrachloride	56-23-5	0.76	1.4	2.4	22	44	NS	0.76	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Chlorobenzene	108-90-7	1.1	100	100	500	1,000	40	1.1	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Chloroethane	75-00-3	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0034 J	0.0098	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Chloroform	67-66-3	0.37	10	49	350	700	12	0.37	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Chloromethane	74-87-3	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
cis -1,2-Dichloroethene	156-59-2	0.25	59	100	500	1,000	NS	0.25	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Cyclohexane	110-82-7	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Isopropylbenzene	98-82-8	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Methyl acetate	79-20-9	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Methyl tert-butyl ether	1634-04-4	0.93	62	100	500	1,000	NS	0.93	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Methylene chloride	75-09-2	0.05	51	100	500	1,000	12	0.05	0.019 U	0.022 U	0.019 U	0.019 U	0.14 J	**0.079 J**	0.012 U	0.019 U	0.019 U
Styrene	100-42-5	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Tetrachloroethene	127-18-4	1.3	5.5	19	150	300	2	1.3	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	100	500	1,000	NS	0.19	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Trichloroethene	79-01-6	0.47	10	21	200	400	2	0.47	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL	NL	NL	NL	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Vinyl chloride	75-01-4	0.02	0.21	0.9	13	27	NS	0.02	0.006 U	0.0069 U	0.0067 U	0.006 U	0.044 U	0.025 U	0.0062 U	0.0059 U	0.0058 U
Total VOCs (mg/Kg)[1]	NA	NL	NL	NL	NL	NL	NL	NL	--- U	--- U	0.0275	0.0911	4.082	3.12	0.0119	--- U	--- U

Notes:
1. Total VOCs includes BTEX compounds.
NL = Not Listed
NA = Not analyzed, not applicable.
U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the Protection of Groundwater SCO concentration.
Shaded value - compound detected at concentration greater than the Industrial SCO concentration.
NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 10

Subsurface Soil SVOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health: Residential	Protection of Public Health: Restricted-Residential	Protection of Public Health: Commercial	Protection of Public Health: Industrial	Protection of Ecological Resources	Protection of Groundwater	SS-MW-35S-6-7 / RTE1487-02 / 5/26/2010	SS-MW-36D-(8-9) / RTF0542-02 / 6/4/2010	SS-MW-37D-6-7 / RTE1487-08 / 5/28/2010	SS-MW-39D-(5-6) / RTF0542-01 / 6/3/2010	SS-DPT8-1A-(0-2) / RTF0541-02 / 6/2/2010	SS-DPT8-1B-(2-4) / RTF0541-03 / 6/2/2010	SS-DPT8-2A-(0-2) / RTF0541-04 / 6/2/2010	SS-DPT8-2B-(2-4) / RTF0541-05 / 6/2/2010	SS-DPT8-3A-(0-2) / RTF0541-07 / 6/2/2010	SS-DPT8-3B-(6-8) / RTF0541-06 / 6/2/2010
PAH Compounds (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Acenaphthene	83-32-9	20	100	100	500	1,000	20	98	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.01 J	0.22 U	1.1 U	0.2 U
Acenaphthylene	208-96-8	100	100	100	500	1,000	NS	107	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Anthracene	120-12-7	100	100	100	500	1,000	NS	1,000	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.031 J	0.22 U	1.1 U	0.2 U
Benzo(a)anthracene	56-55-3	1	1	1	5.6	11	NS	1	0.21 U	0.2 U	0.26 U	0.21 U	0.53 J	1 U	0.094 J	0.22 U	1.1 U	0.2 U
Benzo(a)pyrene	50-32-8	1	1	1	1	1.1	2.6	22	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.079 J	0.22 U	1.1 U	0.2 U
Benzo(b)fluoranthene	205-99-2	1	1	1	5.6	11	NS	1.7	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.096 J	0.22 U	1.1 U	0.2 U
Benzo(ghi)perylene	191-24-2	100	100	100	500	1,000	NS	1,000	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.056 J	0.22 U	1.1 U	0.2 U
Benzo(k)fluoranthene	207-08-9	0.8	1	3.9	56	110	NS	1.7	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.035 J	0.22 U	1.1 U	0.2 U
Chrysene	218-01-9	1	1	3.9	56	110	NS	1	0.21 U	0.2 U	0.26 U	0.21 U	0.55 J	1 U	0.09 J	0.22 U	1.1 U	0.2 U
Dibenz(a,h)anthracene	53-70-3	0.33	0.33	0.33	0.56	1.1	NS	1,000	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Fluoranthene	206-44-0	100	100	100	500	1,000	NS	1,000	0.21 U	0.2 U	0.26 U	0.21 U	0.67 J	1 U	0.21 J	0.22 U	1.1 U	0.2 U
Fluorene	86-73-7	30	100	100	500	1,000	30	386	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.016 J	0.22 U	1.1 U	0.2 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	5.6	11	NS	8.2	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.047 J	0.22 U	1.1 U	0.2 U
Naphthalene	91-20-3	12	100	100	500	1,000	NS	12	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Phenanthrene	85-01-8	100	100	100	500	1,000	NS	1,000	0.21 U	0.2 U	0.26 U	0.21 U	0.54 J	1 U	0.19 J	0.22 U	1.1 U	0.2 U
Pyrene	129-00-0	100	100	100	500	1,000	NS	1,000	0.21 U	0.2 U	0.26 U	0.21 U	0.79 J	1 U	0.22	0.22 U	1.1 U	0.2 U
Total PAHs (mg/Kg)	NA	NL	NL	NL	NL	NL	NL	NL	--- U	--- U	--- U	--- U	3.08	--- U	1.174	--- U	--- U	--- U
Other SVOCs (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL	NL	NL	NL	0.4 U	0.39 U	0.5 U	0.4 U	8.9 U	2 U	0.43 U	0.43 U	2.1 U	0.39 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2-Methylphenol (o-cresol)	95-48-7	0.33	100	100	500	1,000	NS	0.33	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL	NL	NL	NL	0.4 U	0.39 U	0.5 U	0.4 U	8.9 U	2 U	0.43 U	0.43 U	2.1 U	0.39 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL	NL	NL	NL	0.4 U	0.39 U	0.5 U	0.4 U	8.9 U	2 U	0.43 U	0.43 U	2.1 U	0.39 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL	NL	NL	NL	0.4 U	0.39 U	0.5 U	0.4 U	8.9 U	2 U	0.43 U	0.43 U	2.1 U	0.39 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
4-Methylphenol (p-cresol)	106-44-5	0.33	34	100	500	1,000	NS	0.33	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL	NL	NL	NL	0.4 U	0.39 U	0.5 U	0.4 U	8.9 U	2 U	0.43 U	0.43 U	2.1 U	0.39 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL	NL	NL	NL	0.4 U	0.39 U	0.5 U	0.4 U	8.9 U	2 U	0.43 U	0.43 U	2.1 U	0.39 U
Acetophenone	98-86-2	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Atrazine	1912-24-9	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Benzaldehyde	100-52-7	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL	NL	NL	NL	0.091 J	0.11 J	0.26 U	0.95	4.6 U	1 U	0.41	0.49	1.1 U	0.22
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Caprolactam	105-60-2	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Carbazole	86-74-8	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.014 J	0.22 U	1.1 U	0.2 U
Dibenzofuran	132-64-9	7	14	59	350	1,000	NS	210	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Diethyl phthalate	131-11-3	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U

Table 10

Subsurface Soil SVOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-MW-35S-6-7	SS-MW-36D-(8-9)	SS-MW-37D-6-7	SS-MW-39D-(5-6)	SS-DPT8-1A-(0-2)	SS-DPT8-1B-(2-4)	SS-DPT8-2A-(0-2)	SS-DPT8-2B-(2-4)	SS-DPT8-3A-(0-2)	SS-DPT8-3B-(6-8)
			Residential	Restricted-Residential	Commercial	Industrial			RTE1487-02	RTF0542-02	RTE1487-08	RTF0542-01	RTF0541-02	RTF0541-03	RTF0541-04	RTF0541-05	RTF0541-07	RTF0541-06
									5/26/2010	6/4/2010	5/28/2010	6/3/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010
Dimethyl phthalate	84-66-2	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.3 U	0.2 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Hexachlorobenzene	118-74-1	0.33	0.33	1.2	6	12	NS	3.2	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Hexachloroethane	67-72-1	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Isophorone	78-59-1	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Nitrobenzene	98-95-3	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL	NL	NL	NL	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Pentachlorophenol	87-86-5	0.8	2.4	6.7	6.7	55	0.8	0.8	0.4 U	0.39 U	0.5 U	0.4 U	8.9 U	2 U	0.43 U	0.43 U	2.1 U	0.39 U
Phenol	108-95-2	0.33	100	100	500	1,000	30	0.33	0.21 U	0.2 U	0.26 U	0.21 U	4.6 U	1 U	0.22 U	0.22 U	1.1 U	0.2 U
Total SVOCs (mg/Kg)[1]	**NA**	NL	NL	NL	NL	NL	NL	NL	0.091	0.11	--- U	0.95	3.08	--- U	1.598	0.49	--- U	0.22

Notes:
1. Total SVOCs includes all of the PAH and SVOC compounds.
NL = Not Listed
NA = Not analyzed, not applicable.
U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the Protection of Groundwater SCO concentration.
Shaded value - compound detected at concentration greater than the Industrial SCO concentration.
NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 11

Subsurface Soil Metals Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-MW-35S-6-7 RTE1487-02 5/26/2010		SS-MW-36D-(8-9) RTF0542-02 6/4/2010		SS-MW-37D-6-7 RTE1487-08 5/28/2010		SS-MW-39D-(5-6) RTF0542-01 6/3/2010		SS-DPT8-1A-(0-2) RTF0541-02 6/2/2010	
			Residential	Restricted-Residential	Commercial	Industrial												
Metals (mg/kg)																		
Aluminum	7429-90-5	NL	NL	NL	NL	NL	NL	NL	11,000		9,760		15,100		12,000		24,500	
Antimony	7440-36-0	NL	NL	NL	NL	NL	NL	NL	17.2	UJ	16.5	U	23.1	UJ	19	U	21.5	U
Arsenic	7440-38-2	13	16	16	16	16	13	16	7.7		6.2		12.1		7.7		14.7	
Barium	7440-39-3	350	350	400	400	10,000	433	820	72.5		81.3		98.5		92.1		90.5	
Beryllium	7440-41-7	7.2	14	72	590	2,700	10	47	0.483		0.483		0.67		0.576		0.505	
Cadmium	7440-43-9	2.5	2.5	4.3	9.3	60	4	7.5	0.315		0.238		0.371		0.372		**18.6**	
Calcium	7440-70-2	NL	NL	NL	NL	NL	NL	NL	48,200		55,600		47,000		63,200		7,820	
Chromium	7440-47-3	30[c]	36	180	1,500	6,800	41	NL	15.5		14.8		21.2		19.3		932	
Cobalt	7440-48-4	NL	NL	NL	NL	NL	NL	NL	8.01		8.22		13.3		7.97		9.53	
Copper	7440-50-8	50	270	270	270	10,000	50	1,720	24		18.7		30.9		24.1		577	
Iron	7439-89-6	NL	NL	NL	NL	NL	NL	NL	22,100		18,800		30,300		24,000		27,700	
Lead	7439-92-1	63	400	400	1,000	3,900	63	450	10.6		9.4		15.2		10.5		337	
Magnesium	7439-95-4	NL	NL	NL	NL	NL	NL	NL	15,400		19,900		17,500		18,700		4,270	
Manganese	7439-96-5	1,600	2,000	2,000	10,000	10,000	1,600	2,000	337	J	406		473	J	352		291	
Total Mercury	7439-97-6	0.18	0.81	0.81	2.8	5.7	0.18	0.73	0.0253	U	0.0243	U	0.09		0.026	U	**5.09**	
Nickel	7440-02-0	30	140	310	310	10,000	30	130	23.9		22.2		34.4		24.1		43	
Potassium	7440-09-7	NL	NL	NL	NL	NL	NL	NL	1,970		2,370		2,900		2,500		1,150	
Selenium	7782-49-2	3.9	36	180	1,500	6,800	3.9	4	4.6	U	4.4	U	6.2	U	5.1	U	5.7	U
Silver	7440-22-4	2	36	180	1,500	6,800	2	8.3	0.573	U	0.567	U	0.77	U	0.6	U	1.97	
Sodium	7440-23-5	NL	NL	NL	NL	NL	NL	NL	174		192		224		213		273	
Thallium	7440-28-0	NL	NL	NL	NL	NL	NL	NL	6.9	U	6.6	U	9.2	U	7.6	U	8.6	U
Vanadium	7440-62-2	NL	NL	NL	NL	NL	NL	NL	20		18.8		27.8		24.5		26.3	
Zinc	7440-66-6	109	2,200	10,000	10,000	10,000	109	2,480	61		59.9		80.5		67.6		1,630	

Notes:
NL = Not Listed
NA = Not analyzed
U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the Protection of Groundwater SCO.
Shaded value - compound detected at concentration greater than the Industrial SCO.
NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 11

Subsurface Soil Metals Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-DPT8-1B-(2-4) RTF0541-03 6/2/2010		SS-DPT8-2A-(0-2) RTF0541-04 6/2/2010		SS-DPT8-2B-(2-4) RTF0541-05 6/2/2010		SS-DPT8-3A-(0-2) RTF0541-07 6/2/2010		SS-DPT8-3B-(6-8) RTF0541-06 6/2/2010	
			Residential	Restricted-Residential	Commercial	Industrial												
Metals (mg/kg)																		
Aluminum	7429-90-5	NL	NL	NL	NL	NL	NL	NL	11,200		24,100		14,500		13,600		10,500	
Antimony	7440-36-0	NL	NL	NL	NL	NL	NL	NL	16.6	U	19.8	U	20.7	U	18.8	U	16.6	U
Arsenic	7440-38-2	13	16	16	16	16	13	16	5.5		7.9		8.3		5.5		7.7	
Barium	7440-39-3	350	350	400	400	10,000	433	820	83.5		82.2		98.2		84.4		118	
Beryllium	7440-41-7	7.2	14	72	590	2,700	10	47	0.531		0.487		0.68		0.564		0.5	
Cadmium	7440-43-9	2.5	2.5	4.3	9.3	60	4	7.5	0.874		**18**		0.317		0.944		0.276	
Calcium	7440-70-2	NL	NL	NL	NL	NL	NL	NL	57,500		45,300		59,200		2,700		58,500	
Chromium	7440-47-3	30[c]	36	180	1,500	6,800	41	NL	24		1140		20.9		299		15.4	
Cobalt	7440-48-4	NL	NL	NL	NL	NL	NL	NL	9.52		22.8		13.7		10.3		13.2	
Copper	7440-50-8	50	270	270	270	10,000	50	1,720	23.4		859		26.8		16		21.5	
Iron	7439-89-6	NL	NL	NL	NL	NL	NL	NL	20,900		20,900		26,500		23,300		21,500	
Lead	7439-92-1	63	400	400	1,000	3,900	63	450	13.9		**547**		12.4		31.3		11.1	
Magnesium	7439-95-4	NL	NL	NL	NL	NL	NL	NL	18,500		24,400		18,200		2,930		19,400	
Manganese	7439-96-5	1,600	2,000	2,000	10,000	10,000	1,600	2,000	513		603		809		555		730	
Total Mercury	7439-97-6	0.18	0.81	0.81	2.8	5.7	0.18	0.73	0.047		0.566		0.0263	U	0.0612		0.0243	
Nickel	7440-02-0	30	140	310	310	10,000	30	130	25.2		101		32.1		15.8		32.3	
Potassium	7440-09-7	NL	NL	NL	NL	NL	NL	NL	2,420		1,220		2,120		1,290		2,200	
Selenium	7782-49-2	3.9	36	180	1,500	6,800	3.9	4	4.4	U	5.3	U	5.5	U	5	U	4.4	U
Silver	7440-22-4	2	36	180	1,500	6,800	2	8.3	0.604	U	2.27		0.631	U	0.627	U	0.652	U
Sodium	7440-23-5	NL	NL	NL	NL	NL	NL	NL	221		244		199		175	U	203	
Thallium	7440-28-0	NL	NL	NL	NL	NL	NL	NL	6.7	U	7.9	U	8.3	U	7.5	U	6.7	U
Vanadium	7440-62-2	NL	NL	NL	NL	NL	NL	NL	21.4		22.6		26.1		27.1		20.1	
Zinc	7440-66-6	109	2,200	10,000	10,000	10,000	109	2,480	65.9		1,460		71.8		103		61.9	

Notes:
NL = Not Listed
NA = Not analyzed
U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the Protection of Groundwater SCO.
Shaded value - compound detected at concentration greater than the Industrial SCO.
NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 12

Subsurface Soil Pesticides and PCBs Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-MW-35S-6-7 RTE1487-02 5/26/2010		SS-MW-36D-(8-9) RTF0542-02 6/4/2010		SS-MW-37D-6-7 RTE1487-08 5/28/2010		SS-MW-39D-(5-6) RTF0542-01 6/3/2010		SS-DPT8-1A-(0-2) RTF0541-02 6/2/2010	
			Residential	Restricted-Residential	Commercial	Industrial												
Organochlorine Pesticides (mg/Kg)																		
Aldrin	309-00-2	0.005	0.019	0.097	0.68	1.4	0.14	0.19	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
alpha-BHC	319-84-6	0.02	0.097	0.48	3.4	6.8	0.04	0.02	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
beta-BHC	319-85-7	0.036	0.072	0.36	3	14	0.6	0.09	0.002	U	0.002	U	0.0025	U	0.002	UJ	0.11	U
delta-BHC	319-86-8	0.04	100	100	500	1,000	0.04	0.25	0.002	U	0.002	U	0.0025	U	0.002	UJ	0.11	U
Chlordane (alpha)	5103-71-9	0.094	0.91	4.2	24	47	1.3	2.9	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Chlordane	NL	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.02	U	0.025	U	0.02	U	1.1	U
4,4'-DDD	72-54-8	0.0033	2.6	13	92	180	0.0033	14	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
4,4'-DDE	72-55-9	0.0033	1.8	8.9	62	120	0.0033	17	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
4,4'-DDT	50-29-3	0.0033	1.7	7.9	47	94	0.0033	136	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Dieldrin	60-57-1	0.005	0.039	0.2	1.4	2.8	0.006	0.1	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Endosulfan I	959-98-8	2.4	4.8	24	200	920	NS	102	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Endosulfan II	33213-65-9	2.4	4.8	24	200	920	NS	102	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Endosulfan sulfate	1031-07-8	2.4	4.8	24	200	920	NS	1,000	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Endrin	72-20-8	0.014	2.2	11	89	410	0.014	0.06	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Endrin aldehyde		NL	NL	NL	NL	NL	n	NL	0.002	U	0.002	U	0.0025	U	0.002	UJ	0.11	U
Endrin keytone	NL	NL	NL	NL	NL	NL	NL	NL	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
gamma-BHC (Lindane)	58-89-9	0.1	0.28	1.3	9.2	23	6	0.1	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
gamma-Chlordane	NL	NL	NL	NL	NL	NL	NL	NL	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Heptachlor	76-44-8	0.042	0.42	2.1	15	29	0.14	0.38	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Heptachlor epoxide	NL	NL	NL	NL	NL	NL	NL	NL	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Methoxychlor	NL	NL	NL	NL	NL	NL	NL	NL	0.002	U	0.002	U	0.0025	U	0.002	U	0.11	U
Toxaphene	NL	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.02	U	0.025	U	0.02	U	1.1	U
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.02	U	0.025	U	0.02	U	0.22	U
Aroclor 1221	11104-28-2	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.02	U	0.025	U	0.02	U	0.22	U
Aroclor 1232	11141-16-5	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.02	U	0.025	U	0.02	U	0.22	U
Aroclor 1242	53469-21-9	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.02	U	0.025	U	0.02	U	0.22	U
Aroclor 1248	12672-29-6	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.02	U	0.025	U	0.02	U	0.22	U
Aroclor 1254	11097-69-1	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.02	U	0.025	U	0.02	U	0.22	U
Aroclor 1260	11096-82-5	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.02	U	0.025	U	0.02	U	0.28	J
Total PCBs (mg/Kg)	NA	0.1	1	1	1	25	1	3.2	---	U	---	U	---	U	---	U	0.28	

Notes:
NL = Not Listed
NA = Not analyzed
U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the Protection of Groundwater SCO.
Shaded value - compound detected at concentration greater than the Industrial SCO.
NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 12

Subsurface Soil Pesticides and PCBs Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	Unrestricted Use	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	SS-DPT8-1B-(2-4) RTF0541-03 6/2/2010		SS-DPT8-2A-(0-2) RTF0541-04 6/2/2010		SS-DPT8-2B-(2-4) RTF0541-05 6/2/2010		SS-DPT8-3A-(0-2) RTF0541-07 6/2/2010		SS-DPT8-3B-(6-8) RTF0541-06 6/2/2010	
			Residential	Restricted-Residential	Commercial	Industrial												
Organochlorine Pesticides (mg/Kg)																		
Aldrin	309-00-2	0.005	0.019	0.097	0.68	1.4	0.14	0.19	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
alpha-BHC	319-84-6	0.02	0.097	0.48	3.4	6.8	0.04	0.02	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
beta-BHC	319-85-7	0.036	0.072	0.36	3	14	0.6	0.09	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
delta-BHC	319-86-8	0.04	100	100	500	1,000	0.04	0.25	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Chlordane (alpha)	5103-71-9	0.094	0.91	4.2	24	47	1.3	2.9	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Chlordane	NL	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.11	U	0.022	U	0.1	U	0.02	U
4,4'-DDD	72-54-8	0.0033	2.6	13	92	180	0.0033	14	0.00099	J	0.011	U	0.0022	U	0.01	U	0.002	U
4,4'-DDE	72-55-9	0.0033	1.8	8.9	62	120	0.0033	17	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
4,4'-DDT	50-29-3	0.0033	1.7	7.9	47	94	0.0033	136	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Dieldrin	60-57-1	0.005	0.039	0.2	1.4	2.8	0.006	0.1	0.002	U	0.006	J	0.0022	U	0.01	U	0.002	U
Endosulfan I	959-98-8	2.4	4.8	24	200	920	NS	102	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Endosulfan II	33213-65-9	2.4	4.8	24	200	920	NS	102	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Endosulfan sulfate	1031-07-8	2.4	4.8	24	200	920	NS	1,000	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Endrin	72-20-8	0.014	2.2	11	89	410	0.014	0.06	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Endrin aldehyde		NL	NL	NL	NL	NL	n	NL	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Endrin keytone	NL	NL	NL	NL	NL	NL	NL	NL	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
gamma-BHC (Lindane)	58-89-9	0.1	0.28	1.3	9.2	23	6	0.1	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
gamma-Chlordane	NL	NL	NL	NL	NL	NL	NL	NL	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Heptachlor	76-44-8	0.042	0.42	2.1	15	29	0.14	0.38	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Heptachlor epoxide	NL	NL	NL	NL	NL	NL	NL	NL	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Methoxychlor	NL	NL	NL	NL	NL	NL	NL	NL	0.002	U	0.011	U	0.0022	U	0.01	U	0.002	U
Toxaphene	NL	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.11	U	0.022	U	0.1	U	0.02	U
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.087	U	0.022	U	0.21	U	0.02	U
Aroclor 1221	11104-28-2	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.087	U	0.022	U	0.21	U	0.02	U
Aroclor 1232	11141-16-5	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.087	U	0.022	U	0.21	U	0.02	U
Aroclor 1242	53469-21-9	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.087	U	0.022	U	0.21	U	0.02	U
Aroclor 1248	12672-29-6	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.087	U	0.022	U	0.21	U	0.02	U
Aroclor 1254	11097-69-1	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.087	U	0.022	U	0.21	U	0.02	U
Aroclor 1260	11096-82-5	NL	NL	NL	NL	NL	NL	NL	0.02	U	0.099	J	0.022	U	0.21	U	0.02	U
Total PCBs (mg/Kg)	NA	0.1	1	1	1	25	1	3.2	---	U	0.099		---	U	---	U	---	U

Notes:
NL = Not Listed
NA = Not analyzed
U = The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
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Bold value - compound detected at concentration greater than the Protection of Groundwater SCO.
Shaded value - compound detected at concentration greater than the Industrial SCO.
NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives, December 14, 2006.

Table 13

Groundwater VOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation	CAS	NYSDEC Groundwater Guidance or	June 2010																		
			Shallow Overburden																		
Laboratory Identification			MW-30	MW-35S	MW-36S	GW-DUPLICATE-1	MW-37S	A1-GP01-S	A1-GP02-S	A1-GP03-S	A1-GP04-S	A1-GP05-S	A1-GP06-S	A1-GP07-S	A1-GP08-S	A1-GP09-S	A1-GP10-S	A1-GP11-S	A1-GP12-S
			RTF1140-16	RTF1140-14	RTF1140-05	RTF1140-03	RTF1140-19	RTF1213-18	RTF1213-13	RTF1213-15	RTF1213-09	RTF1213-17	RTF1213-14	RTF1213-08	RTF1213-10	RTF1213-11	RTF1213-05	RTF1213-01	RTF1213-02
Date Sampled			6/18/2010	6/17/2010	6/17/2010	6/17/2010	6/18/2010	6/22/2010	6/22/2010	6/21/2010	6/22/2010	6/21/2010	6/21/2010	6/22/2010	6/22/2010	6/22/2010	6/21/2010	6/21/2010	6/21/2010
BTEX Compounds (ug/L)																			
Benzene	71-43-2	1 s	5 U	5 U	5 U	5 U	5 U	250 U	250 U	250 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	**0.50 J**	5 U
Toluene	100-41-4	5 s	5 U	5 U	5 U	5 U	5 U	**1,500**	250 U	250 U	250 U	5 U	100 U	200 U	120 U	5 U	**8**	5 U	5 U
Ethylbenzene	108-88-3	5 s	5 U	5 U	5 U	5 U	5 U	**100 J**	250 U	250 U	250 U	5 U	100 U	200 U	120 U	5 U	**2 J**	5 U	5 U
Xylenes (total)	1330-20-7	5 s	15 U	15 U	15 U	15 U	15 U	**790**	750 U	750 U	750 U	15 U	300 U	600 U	380 U	15 U	**16**	15 U	15 U
Total BTEX Compounds (ug/L)	NA	NL	--- U	--- U	--- U	--- U	--- U	2,390	--- U	--- U	--- U	--- U	--- U	--- U	--- U	--- U	26	0.50	--- U
Other VOCs (ug/L)																			
1,1,1-Trichloroethane	71-55-6	5 s	5 U	5 U	5 U	5 U	**130**	**37,000**	5 U	**18,000**	250 U	**56**	**620**	200 U	120 U	5 U	**55,000**	**2 J**	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5 s	5 U	5 U	5 U	5 U	**4.4 J**	**4,400**	5 U	5 U	250 U	5 U	**660**	200 U	120 U	5 U	**1,400 J**	**1.7 J**	**0.44 J**
1,1,2-Trichloroethane	79-00-5	1 s	5 U	5 U	5 U	5 U	5 U	**210 J**	5 U	**58 J**	250 U	5 U	100 U	200 U	120 U	5 U	**84**	**0.83 J**	5 U
1,1-Dichloroethane	75-34-3	5 s	**2.1 J**	5 U	5 U	5 U	**50**	**3,300**	5 U	**3,800**	250 U	**28**	**890**	200 U	120 U	5 U	**43,000**	**33**	**6**
1,1-Dichloroethene	75-35-4	5 s	5 U	5 U	5 U	5 U	**5.8**	**3,100**	5 U	**3,100**	250 U	**11**	**63 J**	200 U	120 U	5 U	**1,300 J**	**2.2 J**	**5**
1,2,4-Trichlorobenzene	120-82-1	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	106-93-4	0.0006 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	95-50-1	3 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	0.6 s	5 U	5 U	5 U	5 U	5 U	**29 J**	5 U	5 J	250 U	5 U	100 U	200 U	120 U	5 U	**77**	5 U	5 U
1,2-Dichloropropane	78-87-5	1 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	541-73-1	3 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	106-46-7	3 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
2-Butanone	78-93-3	50 g	25 U	25 U	25 U	25 U	25 U	**160 J**	25 U	25 U	1,200 U	25 U	500 U	1,000 U	620 U	25 U	**96**	25 U	25 U
2-Hexanone	591-78-6	50 g	25 U	25 U	25 U	25 U	25 U	1,200 U	25 U	25 U	1,200 U	25 U	500 U	1,000 U	620 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	108-10-1	NL	25 U	25 U	25 U	25 U	25 U	1,200 U	25 U	25 U	1,200 U	25 U	500 U	1,000 U	620 U	25 U	**2.6 J**	25 U	25 U
Acetone	67-64-1	50 g	25 U	25 U	25 U	**4.2 J**	25 U	**200 J**	25 U	25 U	1,200 U	25 U	500 U	1,000 U	620 U	25 U	25 U	25 U	25 U
Bromodichloromethane	75-27-4	50 g	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	50 g	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Bromomethane	74-83-9	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Carbon disulfide	75-15-0	60 g	5 U	**1.4 J**	**1.2 J**	**1.2 J**	**2 J**	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	**0.87 J**	5 U	5 U
Carbon tetrachloride	56-23-5	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Chlorobenzene	108-90-7	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Chloroethane	75-00-3	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	10,000 U	5 U	5 U
Chloroform	67-66-3	7 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	**7.3**	5 U	5 U
Chloromethane	74-87-3	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	**0.46 J**	5 U	5 U
cis-1,2-Dichloroethene	156-59-2	5 s	**6.4**	5 U	**2.6 J**	**2.4 J**	5 U	**22,000**	**6,400**	**7,100**	**3,000**	**16**	**32 J**	**2,000**	**1,100**	5 U	10,000 U	**520**	**1,100**
cis-1,3-Dichloropropene	10061-01-5	0.4 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Cyclohexane	110-82-7	NL	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Dibromochloromethane	124-48-1	50 g	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	75-71-8	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	**1.2 J**	5 U	**1.2 J**
Isopropylbenzene	98-82-8	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Methyl acetate	79-20-9	NL	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	1634-04-4	10 g	5 U	5 U	5 U	5 U	**0.62 J**	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Methylcyclohexane	108-87-2	NL	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Methylene chloride	75-09-2	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	**17**	5 U	5 U
Styrene	100-42-5	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Tetrachloroethene	127-18-4	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	**1.2 J**	5 U	5 U
trans-1,2-Dichloroethene	156-60-5	5 s	5 U	5 U	5 U	5 U	5 U	**80 J**	**94 J**	5 U	250 U	5 U	100 U	200 U	120 U	5 U	**1.3 J**	**11**	**29**
trans-1,3-Dichloropropene	10061-02-6	0.4 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Trichloroethene	79-01-6	5 s	**1.4 J**	5 U	**7.2**	**7.1**	**5.5**	**4,500**	**11,000**	**1,500**	**14,000**	**1.6 J**	**46 J**	**4,900**	**1,600**	5 U	**92**	**300**	**600**
Trichlorofluoromethane	75-69-4	5 s	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	250 U	5 U	100 U	200 U	120 U	5 U	5 U	5 U	5 U
Vinyl chloride	75-01-4	2 s	**4.9 J**	5 U	5 U	5 U	5 U	**63 J**	5 U	5 U	**160 J**	5 U	100 U	**44 J**	120 U	5 U	**41**	**33**	**130**
Total VOCs (ug/L)2	NA	NL	14.8	1.4	11	14.9	198.32	77,432	17,494	33,558	17,160	112.6	2,311	6,944	2,700	--- U	101,148	904	1,872

Notes:
1. Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].
2. Total VOCs includes BTEX compounds.
NA = Not analyzed, not applicable
NL = Not listed
U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the reporting limit
Shaded value - Compound detected in a concentration greater than the groundwater standard value.
s = Standard Value
g = Guidance Value

Table 13

Groundwater VOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation	CAS Number	NYSDEC Groundwater Guidance or Standard Value[1]	June 2010														August 2010		
			Shallow Overburden						Deep Overburden							Bedrock	Shallow Overburden		
			A1-GP13-S	A1-GP14-S	A1-GP15-S	A1-GP16-S	A1-GP17-S	A1-GP18-S	MW-35D	MW-36D	MW-37D	MW-38D	MW-39D	MW-40D	GW-DUPLICATE-2	MW-41B2	MW-30	MW-35S	MW-36S
Laboratory Identification			RTF1213-04	RTF1213-03	RTF1140-09	RTF1140-08	RTF1140-06	RTF1140-18	RTF1140-15	RTF1140-04	RTF1140-20	RTF1213-12	RTF1140-17	RTF1213-06	RTF1213-07	RTF1140-07	RTH0401-01	RTH0401-07	RTH0401-02
Date Sampled			6/21/2010	6/21/2010	6/17/2010	6/17/2010	6/17/2010	6/18/2010	6/17/2010	6/17/2010	6/18/2010	6/22/2010	6/18/2010	6/21/2010	6/21/2010	6/17/2010	8/3/2010	8/2/2010	8/3/2010
BTEX Compounds (ug/L)																			
Benzene	71-43-2	1 s	**22**	**1.3 J**	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	100-41-4	5 s	**43**	5 U	5 U	25 U	**0.51 J**	5 U	5 U	5 U	5 U	**300**	5 U	5 U	5 U	**1.3 J**	5 U	5 U	5 U
Ethylbenzene	108-88-3	5 s	**96**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	**270**	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	1330-20-7	5 s	**1,600**	15 U	15 U	75 U	15 U	15 U	15 U	15 U	15 U	**730 J**	15 U	**1.1 J**	**1.1 J**	**0.71 J**	15 U	15 U	15 U
Total BTEX Compounds (ug/L)	NA	NL	1,761	1.3	--- U	--- U	0.51	--- U	--- U	--- U	--- U	1,300	--- U	1.1	1.1	2.01	--- U	--- U	--- U
Other VOCs (ug/L)																			
1,1,1-Trichloroethane	71-55-6	5 s	**2.2 J**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	**17**	**23**	**22**	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5 s	**6.6**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	1 s	**7**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	5 s	**400**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	**4.7 J**	**260**	**240**	5 U	**2.4 J**	5 U	5 UJ
1,1-Dichloroethene	75-35-4	5 s	**10**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	**2.3 J**	**1.8 J**	**1.7 J**	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	120-82-1	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	106-93-4	0.0006 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	95-50-1	3 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	0.6 s	**6.8**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	78-87-5	1 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	541-73-1	3 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	106-46-7	3 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	78-93-3	50 g	25 U	25 U	25 U	120 U	25 U	25 U	25 U	25 U	25 U	1,200 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	591-78-6	50 g	25 U	25 U	25 U	120 U	25 U	25 U	25 U	25 U	25 U	1,200 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	108-10-1	NL	25 U	25 U	**9.3 J**	120 U	25 U	25 U	25 U	25 U	25 U	1,200 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone	67-64-1	50 g	**7 J**	25 U	**23 J**	120 U	25 U	25 U	**4.1 J**	25 U	25 U	1,200 U	25 U	**3.4 J**	25 U	**5.7 J**	25 U	**3.8 J**	25 U
Bromodichloromethane	75-27-4	50 g	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	50 g	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	74-83-9	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	75-15-0	60 g	5 U	5 U	**0.52 J**	25 U	5 U	5 U	**0.71 J**	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	56-23-5	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	108-90-7	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	75-00-3	5 s	**160**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	**1.4 J**	**1.3 J**	5 U	5 U	5 U	5 U
Chloroform	67-66-3	7 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	74-87-3	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	156-59-2	5 s	**550**	5 U	5 U	**19 J**	5 U	5 U	5 U	5 U	5 U	**4,400**	5 U	**1.2 J**	**1.2 J**	5 U	**7.7**	5 U	**1.5 J**
cis-1,3-Dichloropropene	10061-01-5	0.4 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	110-82-7	NL	**2.5 J**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	**2.3 J**	5 U	5 U	5 U
Dibromochloromethane	124-48-1	50 g	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	75-71-8	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	98-82-8	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl acetate	79-20-9	NL	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	1634-04-4	10 g	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	108-87-2	NL	**23**	5 U	5 U	25 U	**0.56 J**	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	**5.1**	5 U	5 U	5 U
Methylene chloride	75-09-2	5 s	**8.3**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100-42-5	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	127-18-4	5 s	**0.60 J**	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	**230 J**	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	156-60-5	5 s	**13**	**1.3 J**	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-6	0.4 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	79-01-6	5 s	**3.9 J**	5 U	5 U	25 U	5 U	5 U	5 U	**2.1 J**	5 U	**11,000**	5 U	**2.8 J**	**2.8 J**	5 U	**1.6 J**	5 U	**0.58 J**
Trichlorofluoromethane	75-69-4	5 s	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	75-01-4	2 s	**770**	**4 J**	5 U	25 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	5 U	5 U	5 U	**5.9**	5 U	5 U
Total VOCs (ug/L)2	NA	NL	3,732	6.6	9.82	19	1.07	--- U	4.81	2.1	--- U	16,930	24	294.7	270.1	13.1	17.6	3.8	2.08

Notes:
1. Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].
2. Total VOCs includes BTEX compounds.
NA = Not analyzed, not applicable
NL = Not listed
U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the reporting limit
Shaded value - Compound detected in a concentration greater than the groundwater standard value.
s = Standard Value
g = Guidance Value

Table 13

Groundwater VOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	NYSDEC Groundwater Guidance or Standard Value[1]	August 2010 – Shallow Overburden																
Sample Designation			GW-DUPLICATE-1	MW-37S	A1-GP01-S	A1-GP02-S	A1-GP03-S	A1-GP04-S	A1-GP05-S	A1-GP06-S	A1-GP07-S	A1-GP08-S	A1-GP09-S	A1-GP10-S	A1-GP11-S	A1-GP12-S	A1-GP13-S	A1-GP14-S	A1-GP15-S
Laboratory Identification			RTH0401-06	RTH0401-10	RTH0401-14	RTH0401-15	RTH0401-16	RTH0401-17	RTH0401-18	RTH0401-19	RTH0401-20	RTH0402-01	RTH0402-02	RTH0402-03	RTH0402-04	RTH0402-05	RTH0402-06	RTH0402-07	RTH0402-08
Date Sampled			8/2/2010	8/3/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/3/2010	8/3/2010	8/3/2010	8/3/2010	8/3/2010	8/3/2010	8/2/2010
BTEX Compounds (ug/L)																			
Benzene	71-43-2	1 s	5 U	20 U	1,200 U	1,000 U	2,000 U	**1.4 J**	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	**34 J**	**5.5**	5 U
Toluene	100-41-4	5 s	5 U	20 U	**340 J**	1,000 U	2,000 U	**1.6 J**	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	**63**	5 U	5 U
Ethylbenzene	108-88-3	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	**0.75 J**	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	**120**	5 U	5 U
Xylenes (total)	1330-20-7	5 s	15 U	60 U	3,800 U	3,000 U	6,000 U	15 U	15 U	300 U	750 U	380 U	15 U	19,000 U	150 U	300 U	**2,000**	15 U	15 U
Total BTEX Compounds (ug/L)	NA	NL	--- U	--- U	340	--- U	--- U	3.75	--- U	--- U	--- U	--- U	--- U	--- U	--- U	--- U	2,217	5.5	--- U
Other VOCs (ug/L)																			
1,1,1-Trichloroethane	71-55-6	5 s	5 U	**200**	**7,500**	1,000 U	**39,000**	**14**	**98**	**1,700**	250 U	120 U	5 U	**84,000**	50 U	100 U	50 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5 s	5 U	**6.3 J**	**1,000 J**	1,000 U	2,000 U	**1.7 J**	5 U	**1,900**	250 U	120 U	5 U	**1,900 J**	**14 J**	100 U	**17 J**	5 U	5 U
1,1,2-Trichloroethane	79-00-5	1 s	5 U	20 U	**180 J**	1,000 U	2,000 U	**0.59 J**	5 U	**16 J**	250 U	120 U	5 U	6,200 U	50 U	100 U	**13 J**	5 U	5 U
1,1-Dichloroethane	75-34-3	5 s	5 UJ	**440**	**2,000**	1,000 U	**6,200**	**13**	**38**	**3,200**	250 U	120 U	5 U	**48,000**	**68**	**14 J**	**620**	**1 J**	5 U
1,1-Dichloroethene	75-35-4	5 s	5 U	**20**	**760 J**	1,000 U	**5,600**	**20**	**21**	**270**	250 U	120 U	5 U	**2,000 J**	**6.5 J**	**17 J**	**46 J**	5 U	5 U
1,2,4-Trichlorobenzene	120-82-1	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
1,2-Dibromoethane	106-93-4	0.0006 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
1,2-Dichlorobenzene	95-50-1	3 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
1,2-Dichloroethane	107-06-2	0.6 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	**14 J**	5 U	5 U
1,2-Dichloropropane	78-87-5	1 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
1,3-Dichlorobenzene	541-73-1	3 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
1,4-Dichlorobenzene	106-46-7	3 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
2-Butanone	78-93-3	50 g	25 U	100 U	6,200 U	5,000 U	10,000 U	25 U	25 U	500 U	1,200 U	620 U	25 U	31,000 U	250 U	500 U	250 U	25 U	25 U
2-Hexanone	591-78-6	50 g	25 U	100 U	6,200 U	5,000 U	10,000 U	25 U	25 U	500 U	1,200 U	620 U	25 U	31,000 U	250 U	500 U	250 U	25 U	25 U
4-Methyl-2-pentanone	108-10-1	NL	25 U	100 U	6,200 U	5,000 U	10,000 U	25 U	25 U	500 U	1,200 U	620 U	25 U	31,000 U	250 U	500 U	250 U	25 U	25 U
Acetone	67-64-1	50 g	25 U	100 U	6,200 U	5,000 U	10,000 U	25 U	25 U	500 U	1,200 U	620 U	25 U	31,000 U	250 U	500 U	250 U	**5.2 J**	**3.4 J**
Bromodichloromethane	75-27-4	50 g	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Bromoform	75-25-2	50 g	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Bromomethane	74-83-9	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Carbon disulfide	75-15-0	60 g	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Carbon tetrachloride	56-23-5	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Chlorobenzene	108-90-7	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Chloroethane	75-00-3	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	**180**	**0.62 J**	5 U
Chloroform	67-66-3	7 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Chloromethane	74-87-3	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 J	5 U
cis-1,2-Dichloroethene	156-59-2	5 s	**1.4 J**	20 U	**15,000**	**10,000**	**12,000**	**3,100**	**22**	**130**	**1,300**	**2,400**	5 U	6,200 U	**1,000**	**2,900**	**2,200**	**0.88 J**	5 U
cis-1,3-Dichloropropene	10061-01-5	0.4 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Cyclohexane	110-82-7	NL	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	**5.7 J**	5 U	5 U
Dibromochloromethane	124-48-1	50 g	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Dichlorodifluoromethane	75-71-8	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	**33 J**	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Isopropylbenzene	98-82-8	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Methyl acetate	79-20-9	NL	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Methyl tert-butyl ether	1634-04-4	10 g	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Methylcyclohexane	108-87-2	NL	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	**36 J**	5 U	5 U
Methylene chloride	75-09-2	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Styrene	100-42-5	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Tetrachloroethene	127-18-4	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	**1.8 J**	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
trans-1,2-Dichloroethene	156-60-5	5 s	5 U	20 U	1,200 U	**190 J**	2,000 U	**35**	**0.96 J**	100 U	250 U	120 U	5 U	6,200 U	**28 J**	**120**	**28 J**	**6.2**	5 U
trans-1,3-Dichloropropene	10061-02-6	0.4 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Trichloroethene	79-01-6	5 s	**0.58 J**	**3 J**	**340 J**	**20,000**	**2,400**	**13,000**	**2.4 J**	**200**	**2,900**	**1,900**	**0.88 J**	6,200 U	**700**	**1,500**	**11 J**	5 U	5 U
Trichlorofluoromethane	75-69-4	5 s	5 U	20 U	1,200 U	1,000 U	2,000 U	5 U	5 U	100 U	250 U	120 U	5 U	6,200 U	50 U	100 U	50 U	5 U	5 U
Vinyl chloride	75-01-4	2 s	5 U	20 U	1,200 U	1,000 U	2,000 U	**480 J**	**1.2 J**	**20 J**	**69 J**	**49 J**	0.9 U	6,200 U	**60**	**240**	**2,200**	**11**	5 U
Total VOCs (ug/L)2	NA	NL	1.98	669	27,120	30,190	65,200	16,669.84	183.56	7,469	4,269	4,349	0.88	135,900	1,877	4,791	7,588	30.4	3.4

Notes:
1. Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].
2. Total VOCs includes BTEX compounds.
NA = Not analyzed, not applicable
NL = Not listed
U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the reporting limit
Shaded value - Compound detected in a concentration greater than the groundwater standard value.
s = Standard Value
g = Guidance Value

Table 13

Groundwater VOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation	CAS Number	NYSDEC Groundwater Guidance or Standard Value[1]	August 2010											
			Shallow Overburden			Deep Overburden								Bedrock
			A1-GP16-S	A1-GP17-S	A1-GP18-S	MW-35D	MW-36D	MW-37D	MW-38D	MW-39D	MW-40D	GW-DUPLICATE-2		MW-41B2
Laboratory Identification			RTH0402-09	RTH0402-10	RTH0402-11	RTH0401-08	RTH0401-09	RTH0401-11	RTH0401-12	RTH0401-03	RTH0401-13	RTH0402-13		RTH0401-04
Date Sampled			8/2/2010	8/3/2010	8/2/2010	8/2/2010	8/2/2010	8/3/2010	8/4/2010	8/3/2010	8/3/2010	8/3/2010		8/2/2010
BTEX Compounds (ug/L)														
Benzene	71-43-2	1 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Toluene	100-41-4	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		**2 J**
Ethylbenzene	108-88-3	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Xylenes (total)	1330-20-7	5 s	75 U	15 U	15 U	15 U	15 U	15 U	**260 J**	15 U	60 U	15 U		15 U
Total BTEX Compounds (ug/L)	NA	NL	--- U	--- U	--- U	--- U	--- U	--- U	260	--- U	--- U	--- U		2
Other VOCs (ug/L)														
1,1,1-Trichloroethane	71-55-6	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	**13**	**25**	**26**		5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	**2 J**		5 U
1,1,2-Trichloroethane	79-00-5	1 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
1,1-Dichloroethane	75-34-3	5 s	25 U	5 U	5 U	5 U	5 UJ	5 U	1,000 U	**5.8**	**550**	**1,100**		5 U
1,1-Dichloroethene	75-35-4	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	**3.1 J**	**6 J**	**3.9 J**		5 U
1,2,4-Trichlorobenzene	120-82-1	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
1,2-Dibromoethane	106-93-4	0.0006 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
1,2-Dichlorobenzene	95-50-1	3 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
1,2-Dichloroethane	107-06-2	0.6 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	**0.7 J**		5 U
1,2-Dichloropropane	78-87-5	1 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
1,3-Dichlorobenzene	541-73-1	3 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
1,4-Dichlorobenzene	106-46-7	3 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
2-Butanone	78-93-3	50 g	120 U	25 U	25 U	25 U	**200**	25 U	5,000 U	25 U	100 U	25 U		25 U
2-Hexanone	591-78-6	50 g	120 U	25 U	25 U	25 U	25 U	25 U	5,000 U	25 U	100 U	25 U		25 U
4-Methyl-2-pentanone	108-10-1	NL	120 U	25 U	25 U	25 U	25 U	25 U	5,000 U	25 U	100 U	25 U		25 U
Acetone	67-64-1	50 g	120 U	25 U	25 U	25 U	**21 J**	**7.7 J**	1,000 U	**4 J**	100 U	**7.4 J**		**6.8 J**
Bromodichloromethane	75-27-4	50 g	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Bromoform	75-25-2	50 g	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Bromomethane	74-83-9	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Carbon disulfide	75-15-0	60 g	25 U	5 U	5 U	**0.69 J**	**0.93 J**	**1.1 J**	1,000 U	5 U	**4 J**	**3.7 J**		**1.1 J**
Carbon tetrachloride	56-23-5	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Chlorobenzene	108-90-7	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Chloroethane	75-00-3	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	**2.9 J**		5 U
Chloroform	67-66-3	7 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Chloromethane	74-87-3	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
cis-1,2-Dichloroethene	156-59-2	5 s	**69**	5 U	5 U	5 U	5 U	5 U	**13,000**	5 U	20 U	**2 J**		5 U
cis-1,3-Dichloropropene	10061-01-5	0.4 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Cyclohexane	110-82-7	NL	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		**1.5 J**
Dibromochloromethane	124-48-1	50 g	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Dichlorodifluoromethane	75-71-8	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Isopropylbenzene	98-82-8	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Methyl acetate	79-20-9	NL	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Methyl tert-butyl ether	1634-04-4	10 g	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Methylcyclohexane	108-87-2	NL	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		**3.5 J**
Methylene chloride	75-09-2	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Styrene	100-42-5	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Tetrachloroethene	127-18-4	5 s	25 U	5 U	5 U	5 U	5 U	5 U	**130 J**	5 U	20 U	5 U		5 U
trans-1,2-Dichloroethene	156-60-5	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
trans-1,3-Dichloropropene	10061-02-6	0.4 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Trichloroethene	79-01-6	5 s	25 U	5 U	5 U	5 U	**0.74 J**	5 U	**2,100**	5 U	20 U	**2 J**		5 U
Trichlorofluoromethane	75-69-4	5 s	25 U	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	5 U		5 U
Vinyl chloride	75-01-4	2 s	**5 J**	5 U	5 U	5 U	5 U	5 U	1,000 U	5 U	20 U	**1 J**		5 U
Total VOCs (ug/L)2	NA	NL	74	--- U	--- U	0.69	222.67	8.8	15,490	25.9	585	1,152		14.9

Notes:
1. Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].
2. Total VOCs includes BTEX compounds.
NA = Not analyzed, not applicable
NL = Not listed
U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the reporting limit
Shaded value - Compound detected in a concentration greater than the groundwater standard value.
s = Standard Value
g = Guidance Value

Table 14

Groundwater SVOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Identification	CAS	NYSDEC	June 2010								August 2010							
			Shallow Overburden				Deep Overburden		Bedrock		Shallow Overburden				Deep Overburden		Bedrock	
			MW-36S		GW-DUPLICATE-1 (MW-36S)		MW-39D		MW-41B2		MW-36S		GW-DUPLICATE-1 (MW-36S)		MW-39D		MW-41B2	
Laboratory Identification		Groundwater Guidance or Standard Value[1]	RTF1140-05		RTF1140-03		RTF1140-17		RTF1140-07		RTH0401-02		RTH0401-06		RTH0401-03		RTH0401-04	
Date Sampled			6/17/2010		6/17/2010		6/18/2010		6/17/2010		8/3/2010		8/2/2010		8/3/2010		8/2/2010	
PAH Compounds (ug/L)																		
2-Methylnaphthalene	91-57-6	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Acenaphthene	83-32-9	20 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Acenaphthylene	208-96-8	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Anthracene	120-12-7	50 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Benzo(a)anthracene	56-55-3	0.002 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Benzo(a)pyrene	50-32-8	ND	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Benzo(b)fluoranthene	205-99-2	0.002 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Benzo(ghi)perylene	191-24-2	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Benzo(k)fluoranthene	207-08-9	0.002 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Chrysene	218-01-9	0.002 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Dibenz(a,h)anthracene	53-70-3	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Fluoranthene	206-44-0	50 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Fluorene	86-73-7	50 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002 g	9.8	UJ	9.9	UJ	9.4	UJ	9.6	UJ	9.6	U	9.7	U	9.4	U	9.6	U
Naphthalene	91-20-3	10 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Phenanthrene	85-01-8	50 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Pyrene	129-00-0	50 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
Total PAHs (ug/L)	NA	NL	---	U	---	U	---	U	---	U	---	U	---	U	---	U	---	U
Other SVOCs (ug/L)																		
1,1'-Biphenyl	92-52-4	5 s	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2,4,5-Trichlorophenol	95-95-4	NL	25	U	25	U	24	U	24	U	24	U	24	U	24	U	24	U
2,4,6-Trichlorophenol	88-06-2	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2,4-Dichlorophenol	120-83-2	5 s	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2,4-Dimethylphenol	105-67-9	50 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2,4-Dinitrophenol	51-28-5	10 g	49	U	50	U	47	U	48	U	48	U	49	U	47	U	48	U
2,4-Dinitrotoluene	121-14-2	5 s	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2,6-Dinitrotoluene	606-20-2	5 s	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2-Chloronaphthalene	91-58-7	10 g	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2-Chlorophenol	95-57-8	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2-Methylphenol	95-48-7	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
2-Nitroaniline	88-74-4	5 s	49	U	50	U	47	U	48	U	48	U	49	U	47	U	48	U
2-Nitrophenol	88-75-5	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
3,3'-Dichlorobenzidine	91-94-1	5 s	20	U	20	U	19	U	19	U	19	U	19	U	19	U	19	U
3-Nitroaniline	99-09-2	5 s	49	U	50	U	47	U	48	U	48	U	49	U	47	U	48	U
4,6-Dinitro-2-methylphenol	534-52-1	NL	49	U	50	U	47	U	48	U	48	U	49	U	47	U	48	U
4-Bromophenyl phenyl ether	101-55-3	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
4-Chloro-3-methylphenol	59-50-7	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
4-Chloroaniline	106-47-8	5 s	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
4-Chlorophenyl phenyl ether	7005-72-3	NL	9.8	U	9.9	U	9.4	U	9.6	U	9.6	U	9.7	U	9.4	U	9.6	U
4-Methylphenol	106-44-5	NL	4.9	U	5	U	4.7	U	4.8	U	4.8	U	4.9	U	4.7	U	4.8	U
4-Nitroaniline	100-01-6	5 s	49	U	50	U	47	U	48	U	48	U	49	U	47	U	48	U

Table 14

Groundwater SVOC Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Identification Laboratory Identification Date Sampled	CAS Number	NYSDEC Groundwater Guidance or Standard Value[1]	June 2010				August 2010			
			Shallow Overburden		Deep Overburden	Bedrock	Shallow Overburden		Deep Overburden	Bedrock
			MW-36S	GW-DUPLICATE-1 (MW-36S)	MW-39D	MW-41B2	MW-36S	GW-DUPLICATE-1 (MW-36S)	MW-39D	MW-41B2
			RTF1140-05	RTF1140-03	RTF1140-17	RTF1140-07	RTH0401-02	RTH0401-06	RTH0401-03	RTH0401-04
			6/17/2010	6/17/2010	6/18/2010	6/17/2010	8/3/2010	8/2/2010	8/3/2010	8/2/2010
4-Nitrophenol	100-02-7	NL	49 U	50 U	47 U	48 U	48 U	49 U	47 U	48 U
Acetophenone	98-86-2	NL	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Atrazine	1912-24-9	7.5 s	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Benzaldehyde	100-52-7	NL	49 U	50 U	47 U	48 U	48 U	49 U	47 U	48 U
bis(2-Chloroethoxy)methane	111-91-1	5 s	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
bis(2-Chloroethyl) ether	111-44-4	1 s	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
bis(2-Ethylhexyl) phthalate	117-81-7	5 s	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Butyl benzyl phthalate	85-68-7	50 g	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Caprolactam	105-60-2	NL	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Carbazole	86-74-8	NL	4.9 U	5 U	4.7 U	4.8 U	4.8 U	4.9 U	4.7 U	4.8 U
Di-n-butyl phthalate	84-74-2	50 s	**0.54 J**	**0.4 J**	9.4 U	**0.35 J**	9.6 U	9.7 U	9.4 U	9.6 U
Di-n-octyl phthalate	117-84-0	NL	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Dibenzofuran	132-64-9	NL	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Diethyl phthalate	131-11-3	50 g	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Dimethyl phthalate	84-66-2	50 g	9.8 U	9.9 U	9.4 U	0.82 J	9.6 U	9.7 U	9.4 U	9.6 U
Hexachlorobenzene	118-74-1	0.4 s	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Hexachlorobutadiene	87-68-3	0.5 s	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Hexachlorocyclopentadiene	77-47-4	5 s	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Hexachloroethane	67-72-1	5 s	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Isophorone	78-59-1	50 g	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
N-Nitrosodi-n-propylamine	621-64-7	50 g	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
N-Nitrosodiphenylamine	86-30-6	50 g	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Nitrobenzene	98-95-3	0.4	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Pentachlorophenol	87-86-5	1 s	49 U	50 U	47 U	48 U	48 U	49 U	47 U	48 U
Phenol	108-95-2	1 s	9.8 U	9.9 U	9.4 U	9.6 U	9.6 U	9.7 U	9.4 U	9.6 U
Total SVOCs (ug/L) [2]	NA	NL	0.54	0.4	--- U	0.35	--- U	--- U	--- U	--- U

Notes:
1. Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].
2. Total for SVOCs inlcudes PAHs.
NA = Not Analyzed
NL = Not Listed
U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the reporting limit.
Shaded value - Compound detected above regulatory guidance value.
s = Standard Value
g = Guidance Value

Table 15

Groundwater Metals Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Identification	CAS Number	NYSDEC Groundwater Guidance or Standard Value[1]	June 2010					August 2010				
			Shallow Overburen			Deep Overburden	Bedrock	Shallow Overburen			Deep Overburden	Bedrock
			MW-30	MW-36S	GW-DUPLICATE-1 (MW-36S)	MW-39D	MW-41B2	MW-30	GW-DUPLICATE-1 (MW-36S)	MW-36S	MW-39D	MW-41B2
Laboratory Identification			RTF1140-16	RTF1140-05	RTF1140-03	RTF1140-17	RTF1140-07	RTH0401-01	RTH0401-06	RTH0401-02	RTH0401-03	RTH0401-04
Date Sampled			6/18/2010	6/17/2010	6/17/2010	6/18/2010	6/17/2010	8/3/2010	8/2/2010	8/3/2010	8/3/2010	8/2/2010
Metals (ug/L)												
Aluminum	7429-90-5	NL	200 U	200 U	200 U	200 U	**1940**	200 U	200 U	200 U	200 U	**203**
Antimony	7440-36-0	3 s	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	7440-38-2	25 s	**19**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	7440-39-3	1,000 s	**208**	**81.4**	**80.3**	**144**	**79.2**	**205**	**85**	**83**	**148**	**44.7**
Beryllium	7440-41-7	3 g	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	7440-43-9	5 s	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	7440-70-2	NL	**64,800**	**110,000**	**107,000**	**45,000**	**60,200**	**67,700**	**110,000**	**107,000**	**47,200**	**51,700**
Chromium	7440-47-3	50 s	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Cobalt	7440-48-4	NL	**4.4**	**8.8**	**9**	4 U	4 U	**4.7**	**7.5**	**7.2**	4 U	4 U
Copper	7440-50-8	200 s	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	7439-89-6	300 s	**7780**	**53**	50 U	**1170**	**1,430**	**4,510**	50 U	50 U	**3510**	**582**
Lead	7439-92-1	25 s	5 U	5 U	5 U	5 U	5 U	5 UJ	**5.5 J**	5 UJ	5 UJ	5 UJ
Magnesium	7439-95-4	35,000 s	**62,500**	**109,000**	**105,000**	**61,500**	**54,300**	**68,100**	**114,000**	**111,000**	**65,700**	**25,400**
Manganese	7439-96-5	300 s	**55.4**	**33.3**	**31.6**	**67.8**	**45.2**	**57.7**	**65.9**	**63.1**	**79.8**	**32.1**
Mercury	7439-97-6	0.7 s	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	100 s	**15.6**	10 U	10 U	10 U	10 U	**15.4**	10 U	10 U	10 U	10 U
Potassium	7439-97-6	NL	**2,500**	**1,230**	**1,120**	**2,870**	**9,710**	**2,870**	**3,400**	**3,270**	**2,760**	**8,960**
Selenium	7782-49-2	10 s	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Silver	7440-22-4	50 s	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Sodium	7440-23-5	20,000 s	**47,700**	**50,000**	**49,000**	**35,900**	**132,000**	**49,800**	**50,300**	**48,800**	**36,400**	**135,000**
Thallium	7440-28-0	0.5 g	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	7440-62-2	NL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Zinc	7440-66-6	2,000 g	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Notes:
1. Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].
NA = Not analyzed, not applicable
NL = Not listed
U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the reporting limit, **shaded** value
Shaded value - Compound detected at a concentration greater than the standard or guidance value.
s = Standard Value
g = Guidance Value

Table 16

Groundwater Pesticides and PCBs Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Identification	NYSDEC	June 2010								August 2010							
		Shallow Overburden				Deep Overburden		Bedrock		Shallow Overburden				Deep Overburden		Bedrock	
		MW-36S		GW-DUPLICATE-1		MW-39D		MW-41B2		MW-36S		GW-DUPLICATE-1		MW-39D		MW-41B2	
Lab ID	Groundwater Guidance or	RTF1140-05		RTF1140-03		RTF1140-17		RTF1140-07		RTH0401-02		RTH0401-06		RTH0401-03		RTH0401-04	
Date Sampled	Standard Value (Note 1)	6/17/2010		6/17/2010		6/18/2010		6/17/2010		8/3/2010		8/2/2010		8/3/2010		8/2/2010	
Pesticide Compounds (µg/L)																	
4,4'-DDD	0.3 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
4,4'-DDE	0.2 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
4,4'-DDT	0.2 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	**0.049**	**J**	0.047	U	0.047	U
Aldrin	ND s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
alpha-BHC	0.01 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
alpha-Chlordane	NL	**0.023**	**J**	**0.019**	**J**	0.047	U	0.048	U	0.049	U	**0.016**	**J**	0.047	U	0.047	U
beta-BHC	0.04 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
Chlordane	0.05 s	0.48	U	0.48	U	0.47	U	0.48	U	0.49	U	0.48	U	0.47	U	0.47	U
delta-BHC	0.04 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	**0.013**	**NJ**	**0.015**	**J**	**0.012**	**J**
Dieldrin	0.004 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
Endosulfan I	NL	0.048	U	0.048	U	0.047	U	0.048	U	**0.093**	**NJ**	**0.072**	**J**	0.047	U	0.047	U
Endosulfan II	NL	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
Endosulfan sulfate	NL	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
Endrin	ND s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
Endrin aldehyde	5 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
Endrin ketone	5 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
gamma-BHC (Lindane)	0.05 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	**0.011**	**NJ**	**0.011**	**NJ**	0.047	U
gamma-Chlordane	NL	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	**0.013**	**NJ**	0.047	U	0.047	U
Heptachlor	0.04 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
Heptachlor epoxide	0.03 s	0.048	U	0.048	U	0.047	U	0.048	U	**0.049**	**NJ**	**0.026**	**NJ**	0.047	U	0.047	U
Methoxychlor	35 s	0.048	U	0.048	U	0.047	U	0.048	U	0.049	U	0.048	U	0.047	U	0.047	U
Toxaphene	0.06 s	0.48	U	0.48	U	0.47	U	0.48	U	0.49	U	0.48	U	0.47	U	0.47	U
PCB Compounds (µg/L)																	
Aroclor 1016	NL	0.48	U	0.48	U	0.47	U	0.48	U	0.49	U	0.48	U	0.47	U	0.47	U
Aroclor 1221	NL	0.48	U	0.48	U	0.47	U	0.48	U	0.49	U	0.48	U	0.47	U	0.47	U
Aroclor 1232	NL	0.48	U	0.48	U	0.47	U	0.48	U	0.49	U	0.48	U	0.47	U	0.47	U
Aroclor 1242	NL	0.48	U	0.48	U	0.47	U	0.48	U	0.49	U	0.48	U	0.47	U	0.47	U
Aroclor 1248	NL	0.48	U	0.48	U	0.47	U	0.48	U	0.49	U	0.48	U	0.47	U	0.47	U
Aroclor 1254	NL	0.48	U	0.48	U	0.47	U	0.48	U	0.49	U	0.48	U	0.47	U	0.47	U
Aroclor 1260	NL	0.48	U	0.48	U	0.47	U	0.48	U	0.49	U	0.48	U	0.47	U	0.47	U
Total PCBs (µg/L)	**0.09 (Note 2)**	---	U	---	U	---	U	---	U	---	U	---	U	---	U	---	U

Notes:
NL = Not Listed
ND - Detections are greater than the groundwater standard value.
U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
NJ = Presumptively present at estimated quantity.
µg/L = micrograms per liter
Bold value - compound detected at concentration greater than the reporting limit**shaded** value - compound detected above regulatory guidance value.
Shaded value - Compound detected in a concentration greater than the groundwater standard value.
s = Standard Value
g = Guidance Value
Note(1) - Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].
Note(2) - Applies to the sum of PCB compounds.

Table 17

Groundwater VOC Results in Temporary Piezometers
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample Designation / Laboratory Identification / Date Sampled	CAS Number	NYSDEC Groundwater Guidance or Standard Value[1]	June 2010								August 2010	
			TP-1		TP-2		TP-3		TP-4		TP-2	
			RTF1140-12		RTF1140-13		RTF1140-10		RTF1140-11		RTH0402-12	
			6/17/2010		6/17/2010		6/17/2010		6/17/2010		8/2/2010	
BTEX Compounds (ug/L)												
Benzene	71-43-2	1 s	5	U	5	U	25	U	25	U	25	U
Toluene	100-41-4	5 s	5	U	5	U	25	U	25	U	25	U
Ethylbenzene	108-88-3	5 s	5	U	5	U	25	U	25	U	25	U
Xylenes (total)	1330-20-7	5 s	15	U	15	U	25	U	25	U	75	U
Total BTEX Compounds (ug/L)	NA	NL	---	U	---	U	---	U	---	U	---	U
Other VOCs (ug/L)												
1,1,1-Trichloroethane	71-55-6	5 s	**63**		**74**		25	U	25	U	**230**	
1,1,2,2-Tetrachloroethane	79-34-5	5 s	5	U	5	U	25	U	25	U	25	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5 s	**240**		**290**		25	U	25	U	**1200**	
1,1,2-Trichloroethane	79-00-5	1 s	5	U	5	U	25	U	25	U	25	U
1,1-Dichloroethane	75-34-3	5 s	**1.4**	**J**	**0.64**	**J**	25	U	25	U	25	U
1,1-Dichloroethene	75-35-4	5 s	**4.8**	**J**	**5.7**		25	U	25	U	**20**	**J**
1,2,4-Trichlorobenzene	120-82-1	5 s	5	U	5	U	25	U	25	U	25	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04 s	5	U	5	U	25	U	25	U	25	U
1,2-Dibromoethane	106-93-4	0.0006 s	5	U	5	U	25	U	25	U	25	U
1,2-Dichlorobenzene	95-50-1	3 s	5	U	5	U	25	U	25	U	25	U
1,2-Dichloroethane	107-06-2	0.6 s	5	U	5	U	25	U	25	U	25	U
1,2-Dichloropropane	78-87-5	1 s	5	U	5	U	25	U	25	U	25	U
1,3-Dichlorobenzene	541-73-1	3 s	5	U	5	U	25	U	25	U	25	U
1,4-Dichlorobenzene	106-46-7	3 s	5	U	5	U	25	U	25	U	25	U
2-Butanone	78-93-3	50 g	25	U	25	U	120	U	120	U	120	U
2-Hexanone	591-78-6	50 g	25	U	25	U	120	U	120	U	120	U
4-Methyl-2-pentanone	108-10-1	NL	25	U	25	U	120	U	120	U	120	U
Acetone	67-64-1	50 g	**9**	**J**	**6.4**	**J**	120	U	120	U	120	U
Bromodichloromethane	75-27-4	50 g	5	U	5	U	25	U	25	U	25	U
Bromoform	75-25-2	50 g	5	U	5	U	25	U	25	U	25	U
Bromomethane	74-83-9	5 s	5	U	5	U	25	U	25	U	25	U
Carbon disulfide	75-15-0	60 g	**0.8**	**J**	5	U	25	U	25	U	25	U
Carbon tetrachloride	56-23-5	5 s	5	U	5	U	25	U	25	U	25	U
Chlorobenzene	108-90-7	5 s	5	U	5	U	25	U	25	U	25	U
Chloroethane	75-00-3	5 s	5	U	5	U	25	U	25	U	25	U
Chloroform	67-66-3	7 s	5	U	5	U	25	U	25	U	25	U
Chloromethane	74-87-3	5 s	5	U	5	U	25	U	25	U	25	U
cis-1,2-Dichloroethene	156-59-2	5 s	**3.8**	**J**	**0.83**	**J**	25	U	25	U	25	U
cis-1,3-Dichloropropene	10061-01-5	0.4 s	5	U	5	U	25	U	25	U	25	U
Cyclohexane	110-82-7	NL	5	U	5	U	25	U	25	U	25	U
Dibromochloromethane	124-48-1	50 g	5	U	5	U	25	U	25	U	25	U
Dichlorodifluoromethane	75-71-8	5 s	5	U	5	U	25	U	25	U	25	U
Isopropylbenzene	98-82-8	5 s	5	U	5	U	25	U	25	U	25	U
Methyl acetate	79-20-9	NL	5	U	5	U	25	U	25	U	25	U
Methyl tert-butyl ether	1634-04-4	10 g	5	U	5	U	25	U	25	U	25	U
Methylcyclohexane	108-87-2	NL	5	U	5	U	25	U	25	U	25	U
Methylene chloride	75-09-2	5 s	5	U	5	U	25	U	25	U	25	U
Styrene	100-42-5	5 s	5	U	5	U	25	U	25	U	25	U
Tetrachloroethene	127-18-4	5 s	5	U	5	U	25	U	25	U	25	U
trans-1,2-Dichloroethene	156-60-5	5 s	5	U	5	U	25	U	25	U	25	U
trans-1,3-Dichloropropene	10061-02-6	0.4 s	5	U	5	U	25	U	25	U	25	U
Trichloroethene	79-01-6	5 s	**2.1**	**J**	**0.9**	**J**	25	U	25	U	25	U
Trichlorofluoromethane	75-69-4	5 s	5	U	5	U	25	U	25	U	25	U
Vinyl chloride	75-01-4	2 s	5	U	5	U	25	U	25	U	25	U
Total VOCs (ug/L)[2]	NA	NL	324.9		378.47		---	U	---	U	1450	

Notes:
1. Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].
2. Total VOCs includes BTEX compounds.
NA = Not analyzed, not applicable
NL = Not listed
U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Bold value - compound detected at concentration greater than the reporting limit
Shaded value - Compound detected in a concentration greater than the groundwater standard value.
s = Standard Value
g = Guidance Value

Table 18
Air TO-15 Results
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site # C915233)
Lancaster, New York

Type of Sample	CAS No.	AMBIENT		AMBIENT		SUBSLAB		INDOOR		SUBSLAB		INDOOR		SUBSLAB		INDOOR	
Sample ID		AS-1		AS-DUPLICATE		SS-1-SUBSLAB		SS-1-INDOOR		SS-2-SUBSLAB		SS-2-INDOOR		SS-3-SUBSLAB		SS-3-INDOOR	
Laboratory ID		RTF0696-01		RTF0696-06		RTF0696-03		RTF0696-02		RTF0696-04		RTF0696-05		RTF0696-08		RTF0696-07	
Sampling Date		6/2/2010		6/2/2010		6/2/2010		6/2/2010		6/2/2010		6/2/2010		6/2/2010		6/2/2010	
Compound (µg/m³)																	
1,1,1-Trichloroethane	71-55-6	1.1	UJ	3.4	J	42		1.1	U	430		2.5		2.6		1.1	U
1,1,2,2-Tetrachloroethane	79-34-5	1.4	U	1.4	U	34	U	1.4	U	6.9	U	1.4	U	1.4	U	1.4	U
1,1,2-Trichloroethane	79-00-5	1.1	U	1.1	U	27	U	1.1	U	5.5	U	1.1	U	1.1	U	1.1	U
1,1-Dichloroethane	75-34-3	0.81	U	0.81	U	100		0.81	U	73		0.81	U	2.8		0.81	U
1,1-Dichloroethene	75-35-4	0.79	UJ	0.83	J	20	U	0.79	U	67		0.87		0.79	U	0.79	U
1,2,4-Trichlorobenzene	120-82-1	3.7	U	3.7	U	89	U	3.7	U	19	U	3.7	U	3.7	U	3.7	U
1,2,4-Trimethylbenzene	95-63-6	0.98	UJ	1.4	J	25	U	0.98	U	180		1.2		20		0.98	U
1,2-Dibromoethane	106-93-4	1.5	U	1.5	U	38	U	1.5	U	7.7	U	1.5	U	1.5	U	1.5	U
1,2-Dichlorobenzene	95-50-1	1.2	U	1.2	U	30	U	1.2	U	6.0	U	1.2	U	1.2	U	1.2	U
1,2-Dichloroethane	107-06-2	0.81	U	0.81	U	20	U	0.81	U	4.0	U	0.81	U	0.81	U	0.81	U
1,2-Dichloropropane	78-87-5	0.92	UJ	1.6	J	23	U	0.92	U	4.6	U	0.92	U	0.92	U	0.92	U
1,3,5-Trimethylbenzene	108-67-8	0.98	U	0.98	U	25	U	0.98	U	64		0.98	U	8.4		0.98	U
1,3-Butadiene	106-99-0	1.1	U	1.1	U	27	U	1.1	U	5.5	U	1.1	U	1.1	U	1.1	U
1,3-Dichlorobenzene	541-73-1	1.2	U	1.2	U	30	U	1.2	U	6.0	U	1.2	U	1.2	U	1.2	U
1,4-Dichlorobenzene	106-46-7	1.2	U	1.2	U	30	U	1.2	U	6.0	U	1.2	U	1.2	U	1.2	U
2,2,4-trimethylpentane	540-84-1	0.93	U	0.93	U	23	U	0.93	U	4.7	U	0.93	U	0.93	U	0.93	U
2-Chlorotoluene	95-49-8	1.0	U	1.0	U	26	U	1.0	U	5.2	U	1.0	U	1.0	U	1.0	U
4-ethyltoluene	622-96-8	0.98	U	0.98	U	25	U	0.98	U	26		0.98	U	1.9		0.98	U
Allyl chloride	107-05-1	1.6	U	1.6	U	38	U	1.6	U	7.8	U	1.6	U	1.6	U	1.6	U
Benzene	71-43-2	0.64	UJ	2.4	J	16	U	0.64	U	35		2.3		7.0		0.64	U
Bromodichloromethane	75-27-4	1.3	U	1.3	U	34	U	1.3	U	6.7	U	1.3	U	1.3	U	1.3	U
Bromoform	75-25-2	2.1	U	2.1	U	52	U	2.1	U	10	U	2.1	U	2.1	U	2.1	U
Bromomethane	74-83-9	0.78	U	0.78	U	19	U	0.78	U	3.9	U	0.78	U	0.78	U	0.78	U
Carbon disulfide	75-15-0	1.6	U	1.6	U	37	U	1.6	U	7.8	U	1.6	U	31		1.6	U
Carbon tetrachloride	56-23-5	1.3	U	1.3	U	31	U	1.3	U	6.3	U	1.3	U	1.3	U	1.3	U
Chlorobenzene	108-90-7	0.92	U	0.92	U	23	U	0.92	U	4.6	U	0.92	U	0.92	U	0.92	U
Chloroethane	75-00-3	1.3	U	1.3	U	32	U	1.3	U	6.6	U	1.3	U	1.3	U	1.3	U
Chloroform	67-66-3	0.98	U	0.98	U	24	U	0.98	U	4.9	U	0.98	U	0.98	U	0.98	U
Chloromethane	74-87-3	1.3		1.2		25	U	1.2		5.2	U	1.3		1.0	U	1.3	
cis-1,2-Dichloroethene	156-59-2	0.79	UJ	1.5	J	32		0.79	U	390		1.6		0.79	U	0.79	U
cis-1,3-Dichloropropene	10061-01-5	0.91	U	0.91	U	23	U	0.91	U	4.5	U	0.91	U	0.91	U	0.91	U
Cyclohexane	110-83-8	0.69	UJ	1.1	J	17	U	0.69	U	480		0.69	U	18		0.69	U
Dibromochloromethane	124-48-1	1.7	U	1.7	U	43	U	1.7	U	8.5	U	1.7	U	1.7	U	1.7	U
Ethylbenzene	100-41-4	0.87	UJ	1.3	J	22	U	2.0		56		1.5		4.8		1.0	
Freon 11	75-69-4	1.4		1.7		28	U	1.3		24		1.6		1.3		1.6	
Freon 113	76-13-1	2.0		2.5		5200		6.2		1300		2.8		1.5	U	1.9	
Freon 114	76-14-2	1.4	U	1.4	U	35	U	1.4	U	7.0	U	1.4	U	1.4	U	1.4	U
Freon 12	75-71-8	3.0		4.0		59	U	3.1		12	U	3.0		5.4		12	
Heptane	142-82-5	0.82	UJ	1.1	J	20	U	0.82	U	200		0.98		34		0.82	U
Hexachloro-1,3-butadiene	87-68-3	2.1	U	2.1	U	53	U	2.1	U	11	U	2.1	U	2.1	U	2.1	U
Hexane	110-54-3	1.8	UJ	2.4	J	42	U	1.8	U	240		2.5		32		1.8	U
m&p-Xylene	179601-23-1	1.7	UJ	4.3	J	43	U	7.4		290		4.8		34		3.0	
Methylene chloride	75-09-2	1.7	U	1.7	U	42	U	1.7	U	8.7	U	1.7	U	1.7	U	17	
o-Xylene	95-47-6	0.87	UJ	1.4	J	22	U	1.5		91		1.7		12		1.0	
Styrene	100-42-5	0.85	U	0.85	U	21	U	0.85	U	4.3	U	0.85	U	0.85	U	0.85	U
Tetrachloroethylene	127-18-4	1.4	U	1.4	U	34	U	1.4	U	670		1.4	U	1.4	U	1.4	U
Toluene	108-88-3	1.1	J	11	J	19	U	21		120		9.8		27		1.5	
trans-1,2-Dichloroethene	156-60-5	0.79	U	0.79	U	40		0.79	U	12		0.79	U	0.79	U	0.79	U
trans-1,3-Dichloropropene	10061-02-6	0.91	U	0.91	U	23	U	0.91	U	4.5	U	0.91	U	0.91	U	0.91	U
Trichloroethene	79-01-6	1.1	UJ	1.5	J	150		1.1	U	640		1.5		4.5		1.1	U
Vinyl Bromide	593-60-02	0.87	U	0.87	U	22	U	0.87	U	4.4	U	0.87	U	0.87	U	0.87	U
Vinyl chloride	75-01-4	0.51	U	0.51	U	13	U	0.51	U	2.6	U	0.51	U	0.51	U	0.51	U

Notes:
All units in micrograms per cubic meter (µg/m³)
Sample AS-DUPLICATE is a duplicate sample of AS-1.
Bold - Compound detected in a concentration greater than the method reporting limits.
NL - Not listed - data not available for background concentrations for these compounds.
U - The compound was analyzed for, but was not detected above the method reporting limit.
J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

Table 19

Air TO-15 Results Compared to NYSDOH Matrices
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Sample ID	CAS Number	AS-1		AS-DUPLICATE		SS-1-SUBSLAB		SS-1-INDOOR		SS-2-SUBSLAB		SS-2-INDOOR		SS-3-SUBSLAB		SS-3-INDOOR	
Laboratory ID		RTF0696-01		RTF0696-06		RTF0696-03		RTF0696-02		RTF0696-04		RTF0696-05		RTF0696-08		RTF0696-07	
Sampling Date		6/2/2010		6/2/2010		6/2/2010		6/2/2010		6/2/2010		6/2/2010		6/2/2010		6/2/2010	
Compound (µg/m³)																	
1,1,1-Trichloroethane	71-55-6	1.1	UJ	**3.4**	**J**	**42**		1.1	U	**430**		**2.5**		**2.6**		1.1	U
Carbon tetrachloride	56-23-5	1.3	U	1.3	U	31	U	1.3	U	6.3	U	1.3	U	1.3	U	1.3	U
Tetrachloroethene	127-18-4	1.4	U	1.4	U	34	U	1.4	U	**670**		1.4	U	1.4	U	1.4	U
Trichloroethene	79-01-6	1.1	UJ	**1.5**	**J**	**150**		1.1	U	**640**		**1.5**		**4.5**		1.1	U

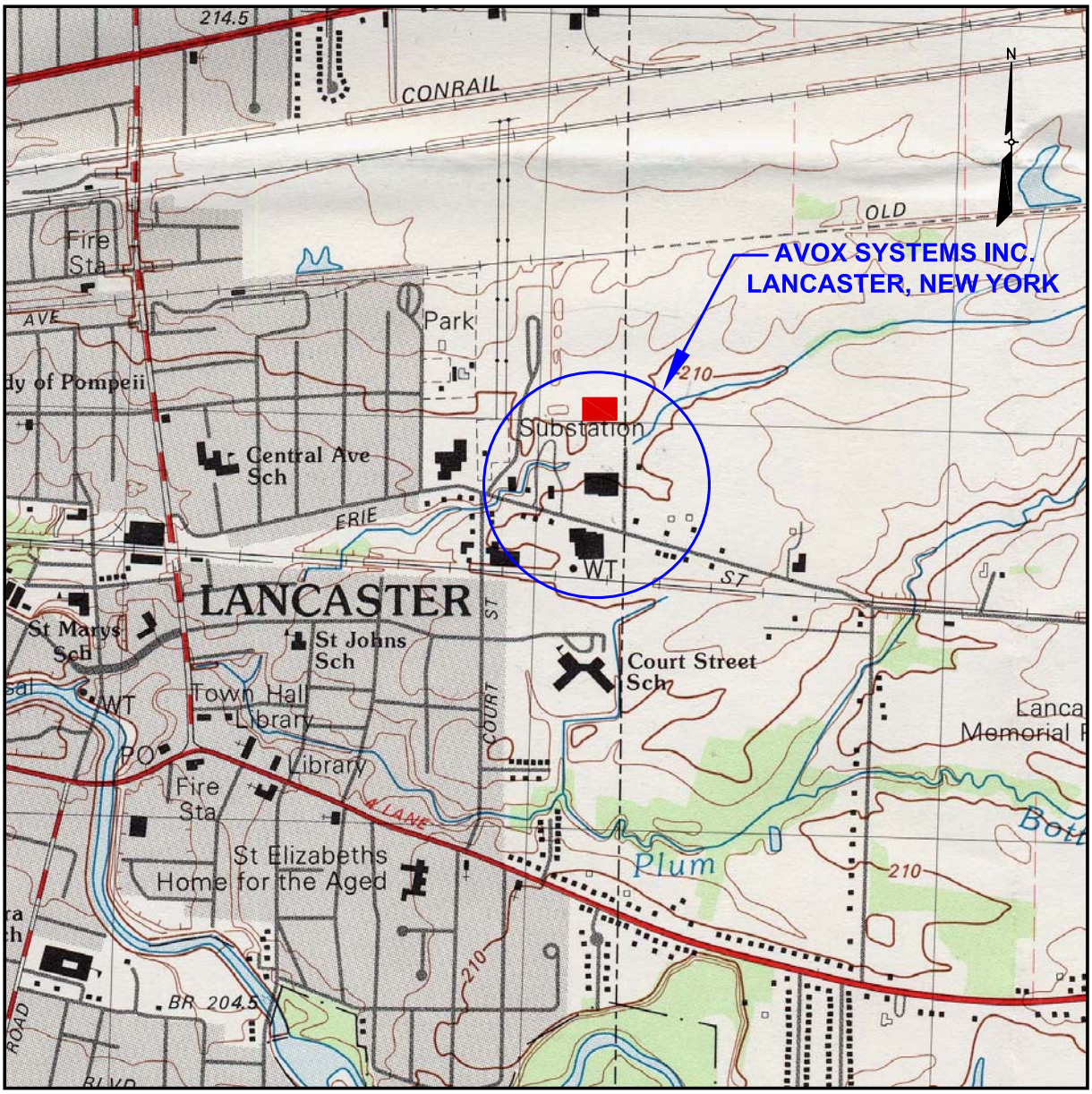
Notes:
All units in micrograms per cubic meter (µg/m³)
Sample AS-DUPLICATE is a duplicate sample of AS-1.
U - The material was analyzed for but not detected at or above the reporting limit. The associated numerical value is the sample quantitation limit.
J - Estimated Concentration.
Bold - Compound detected in a concentration greater than the method reporting limit.

Take reasonable and practical actions to identify source(s) and reduce exposures
Monitoring required based on NYSDOH Guidance (2006)
Mitigation required based on NYSDOH Guidance (2006)

Table 20

Exposure Pathway Analysis - Potential On-site Receptors
Brownfield Cleanup Program Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Receptor	Exposure Medium	Exposure Pathway	Pathway Not Considered Complete	Pathway Considered Potentially Complete, But Not Likely to Result in Exposure	Pathway Potentially Complete and will be Addressed in the AAR for the Site	Rationale for Inclusion or Exclusion
On-site AVOX workers, Outdoor Maintenance Worker or Utility Worker	**On-site Surface Soil (0-2 inches)**	Ingestion	---	**X**	---	Outdoor Maintenance and Utility Workers who mow the grass on the site may be exposed to residuals in surface soil or particulates, therefore the exposure pathway is considered potentially complete. Since surface soil concentrations are low, and the work areas are covered with grass and the workers would only be on site for a short time, exposure is not likely.
		Dermal Contact	---	**X**	---	
		Inhalation of Particulates	---	**X**	---	
		Inhalation of Volatiles in Ambient Air	---	**X**	---	Outdoor Maintenance and Utility Workers may be infrequently exposed to ambient air VOCs emanating from on-site VOC impacts near the surface; however, exposure is not likely due to atmospheric mixing, and dilution of the VOCs in ambient air.
	On-site Subsurface Soil (>2 inches)	Ingestion	**X**	---	---	Outdoor Maintenance Workers and Utility Workers are not likely to contact subsurface soils during their workday. In addition, subsurface soil was not found to be significantly impacted.
		Dermal Contact	**X**	---	---	
		Inhalation of Particulates	**X**	---	---	
		Inhalation of Volatiles in Ambient Air	**X**	---	---	
	Groundwater	Ingestion	**X**	---	---	Outdoor Maintenance Workers are not likely to contact groundwater during their workday.
		Dermal contact	**X**	---	---	
		Inhalation of Volatiles in Ambient Air	**X**	---	---	
	Surface Water	Ingestion	---	**X**	---	Outdoor Workers may be exposed to surface water during storm events in the Spring; however, exposure is not likely as it is unlikely that the grass mowing or other maintenance work would be performed where surface water is present. In addition, only a small portion of the Site collects surface water and only in the Spring season, which would serve to limit surface water contact with residuals.
		Dermal contact	---	**X**	---	
	Soil Vapor/ Indoor Air	Inhalation of Volatiles in Ambient Air	---	**X**	---	Soil vapor intrusion is not a current concern at AVOX Plant 1 but could potentially become a concern if conditions of the slab or site use change.
On-site Outdoor Subsurface Utility Workers	**On-site Surface Soil (0-2 inches)**	Ingestion	---	**X**	---	Outdoor Utility Workers who repair or maintain equipment at the site may be exposed to residuals in surface soil or particulates, therefore the exposure pathway is considered potentially complete. Since most of the site is covered with grass and vegetation, the impacts are covered, and the workers would only be on site for a short time, exposure is not likely.
		Dermal contact	---	**X**	---	
		Inhalation of Particulates	---	**X**	---	
		Inhalation of Volatiles in Ambient Air	---	**X**	---	
	On-site Subsurface Soil (>2 inches)	Ingestion	---	**X**	---	Outdoor Subsurface Utility Workers may be exposed to impacts in subsurface soil, dust, or VOCs in ambient air while completing excavation work related to on-Site subsurface utilities. However, subsurface soil was not significantly impacted, therefore exposure is not likely.
		Dermal contact	---	**X**	---	
		Inhalation of Particulates	---	**X**	---	
		Inhalation of Volatiles in Ambient Air	---	**X**	---	
	Groundwater	Ingestion	---	---	**X**	Outdoor Subsurface Utility Workers may be exposed to COCs in groundwater and VOCs in ambient air while completing excavation work in the Site. The pathway will be addressed in the Analysis of Alternatives discussion of potential remedial actions for the site.
		Dermal contact	---	---	**X**	
		Inhalation of Volatiles in Ambient Air	---	---	**X**	
	Surface Water	Ingestion	---	**X**	---	Outdoor Subsurface Utility Workers may be exposed to surface water during storm events in the Spring; however, exposure is not likely as it is unlikely that work would be performed where surface water is present. In addition, only a small portion of the Site collects surface water and only in the Spring season, which would serve to limit surface water contact with COCs.
		Dermal contact	---	**X**	---	
Site Visitor or Trespasser	**On-site Surface Soil (0-2 inches)**	Ingestion	---	**X**	---	On-site Visitors and Trespassers may be exposed to residuals in surface soil and VOCs in ambient air while visiting the site; however, the site is covered with grass and vegetation, the Visitors or Trespassers would only be on site for a short time, and part of the Site is fenced in, therefore exposure is not likely.
		Dermal contact	---	**X**	---	
		Inhalation of Particulates	---	**X**	---	
		Inhalation of Volatiles in Ambient Air	---	**X**	---	
	On-site Subsurface Soil (>2 inches)	Ingestion	**X**	---	---	On-site Visitors or Trespassers would not be exposed to subsurface soil while visiting the site.
		Dermal contact	**X**	---	---	
		Inhalation of Particulates	**X**	---	---	
		Inhalation of Volatiles in Ambient Air	**X**	---	---	
	Groundwater	Ingestion	**X**	---	---	On-site Visitors or Trespassers would not be exposed to groundwater while visiting the site.
		Dermal contact	**X**	---	---	
		Inhalation of Volatiles in Ambient Air	**X**	---	---	
	Surface Water	Ingestion	**X**	---	---	On-site Visitors or Trespassers may potentially be exposed to surface water while visiting the site; however, surface water only pools on the site in the Spring, and any contact would be likely to be for only a brief period of time, therefore exposure is not likely.
		Dermal contact	**X**	---	---	



SOURCE:
1982 U.S. GEOLOGIC SURVEY 7.5 X 15 MINUTE TOPOGRAPHIC QUADRANGLE
LANCASTER, NEW YORK

LEGEND

AVOX PLANT 3 ADDED AFTER PUBLICATION OF LANCASTER, NEW YORK TOPOGRAPHIC QUADRANGLE.

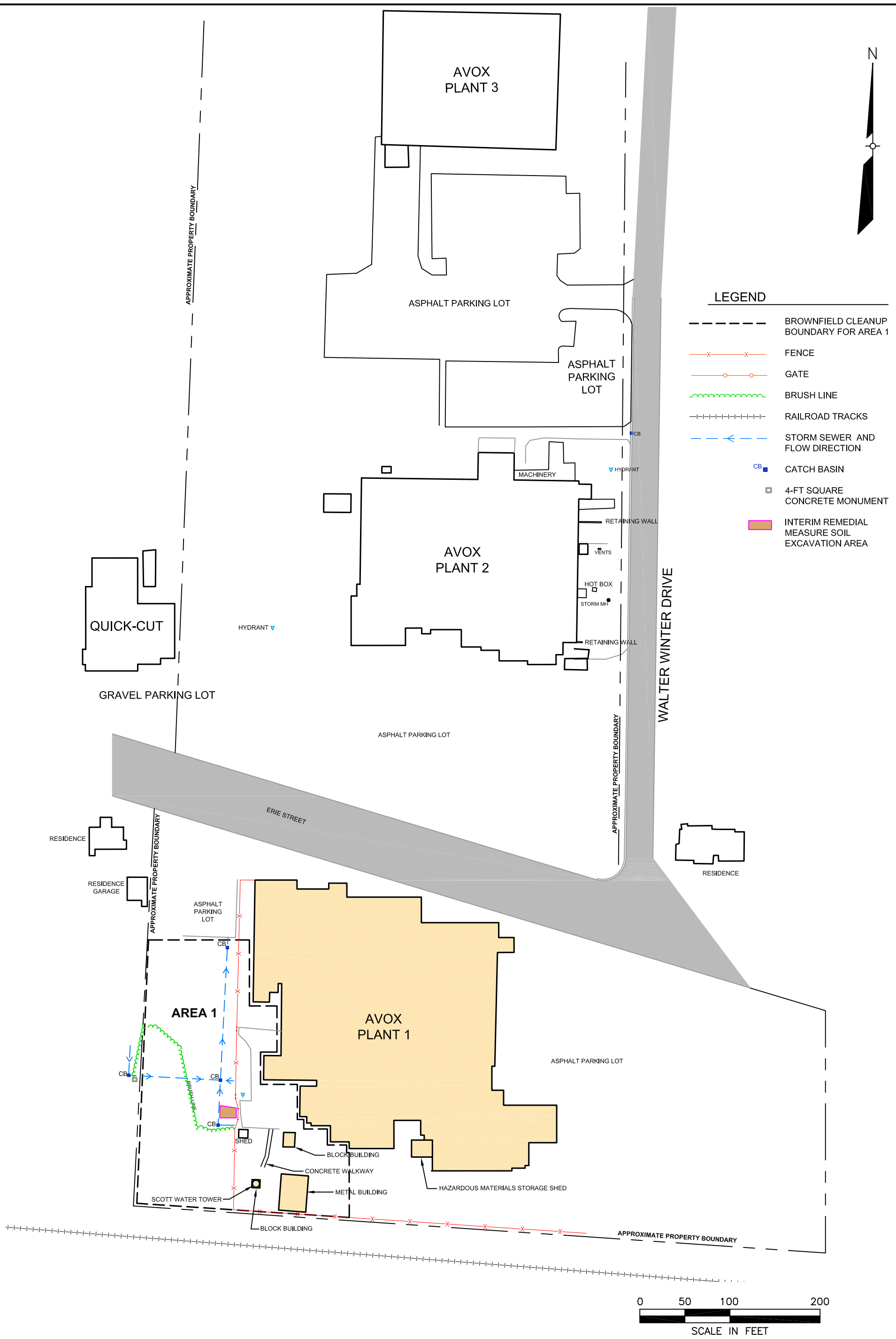
0 1000 2000
SCALE IN FEET

AECOM

FIGURE 1
SITE LOCATION MAP

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_063 Site Loc Map.dwg, 10/26/2010 1:04:36 PM, splawnm

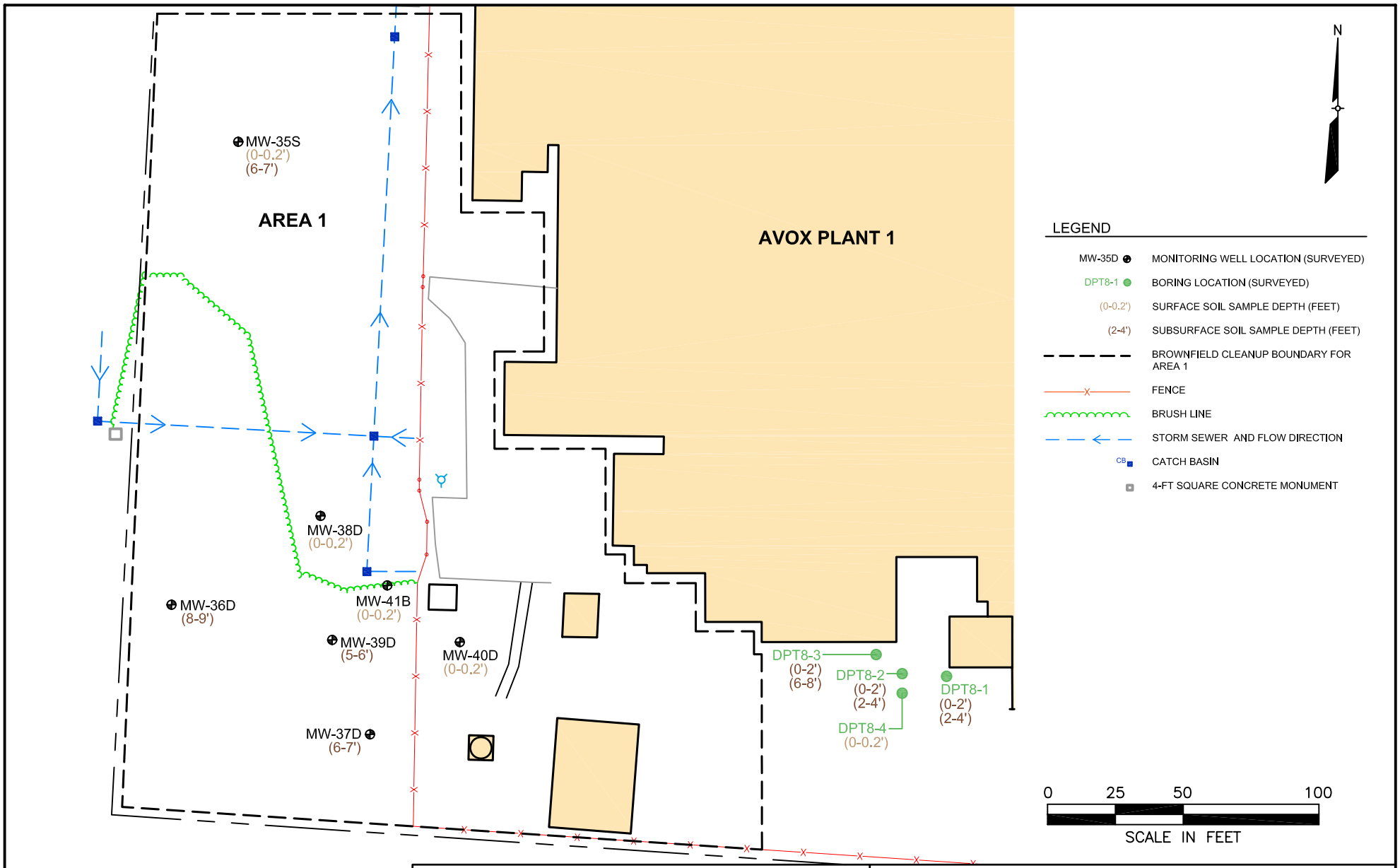


AECOM

FIGURE 2
SITE LAYOUT MAP

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_064 Site Layout Map.dwg, 10/26/2010 1:05:59 PM, splawnm

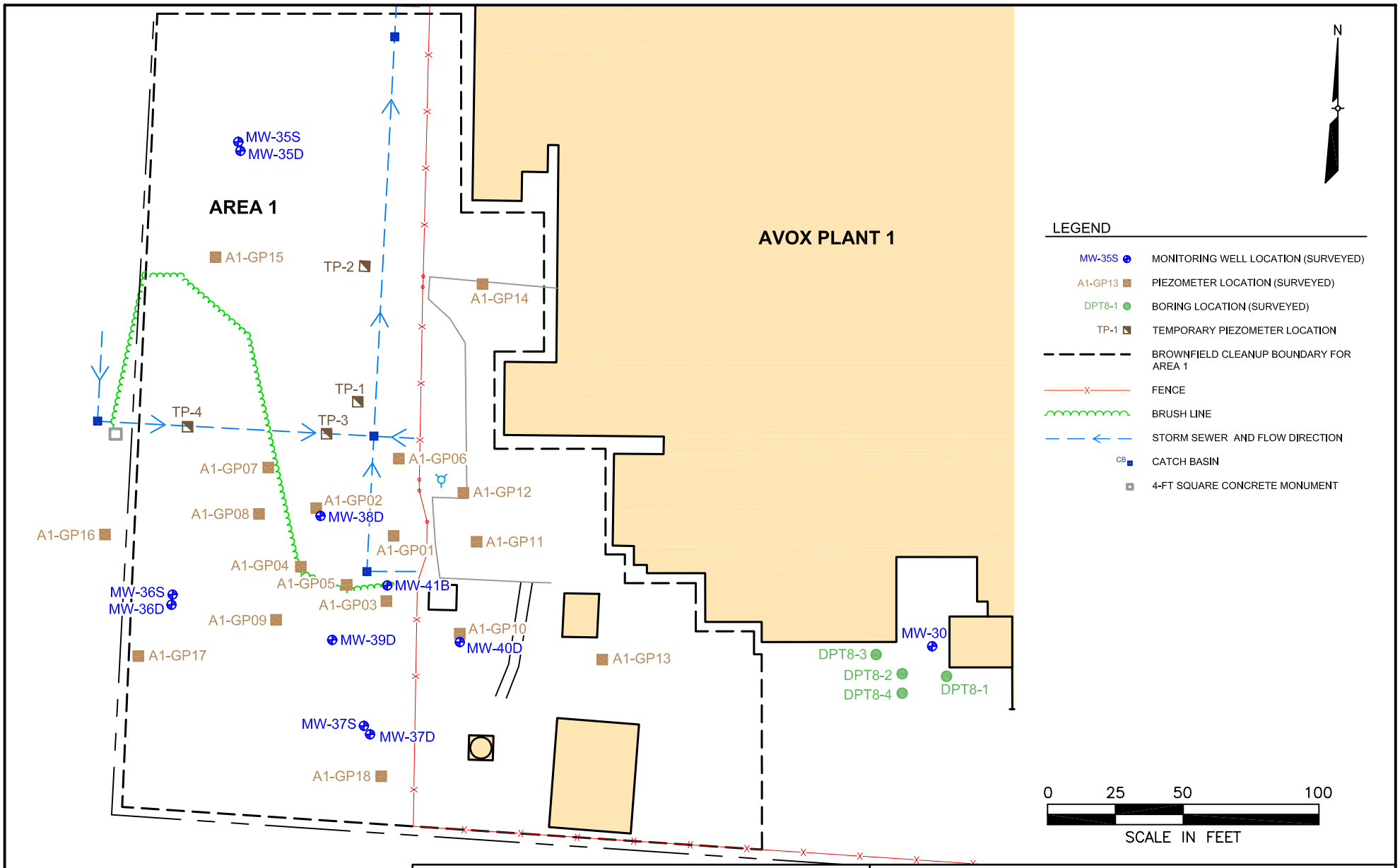


AECOM

FIGURE 3
SURFACE AND SUBSURFACE SOIL SAMPLE LOCATIONS

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_076 Surface and Subsurface Soil Samp Locs.dwg, 1/12/2011 1:32:35 PM, splawnm

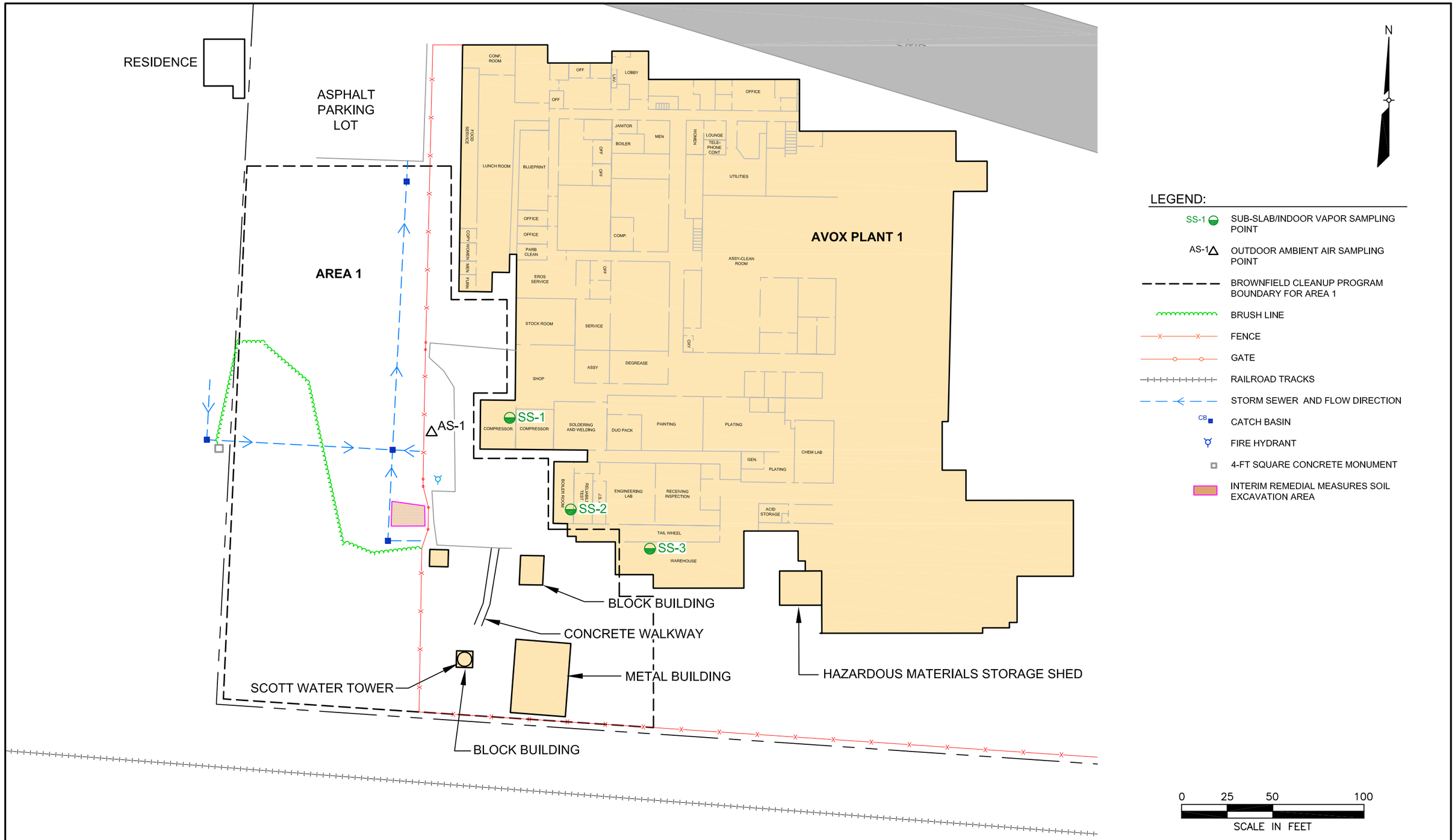


AECOM

FIGURE 4
MONITORING WELL AND PIEZOMETER LOCATIONS

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

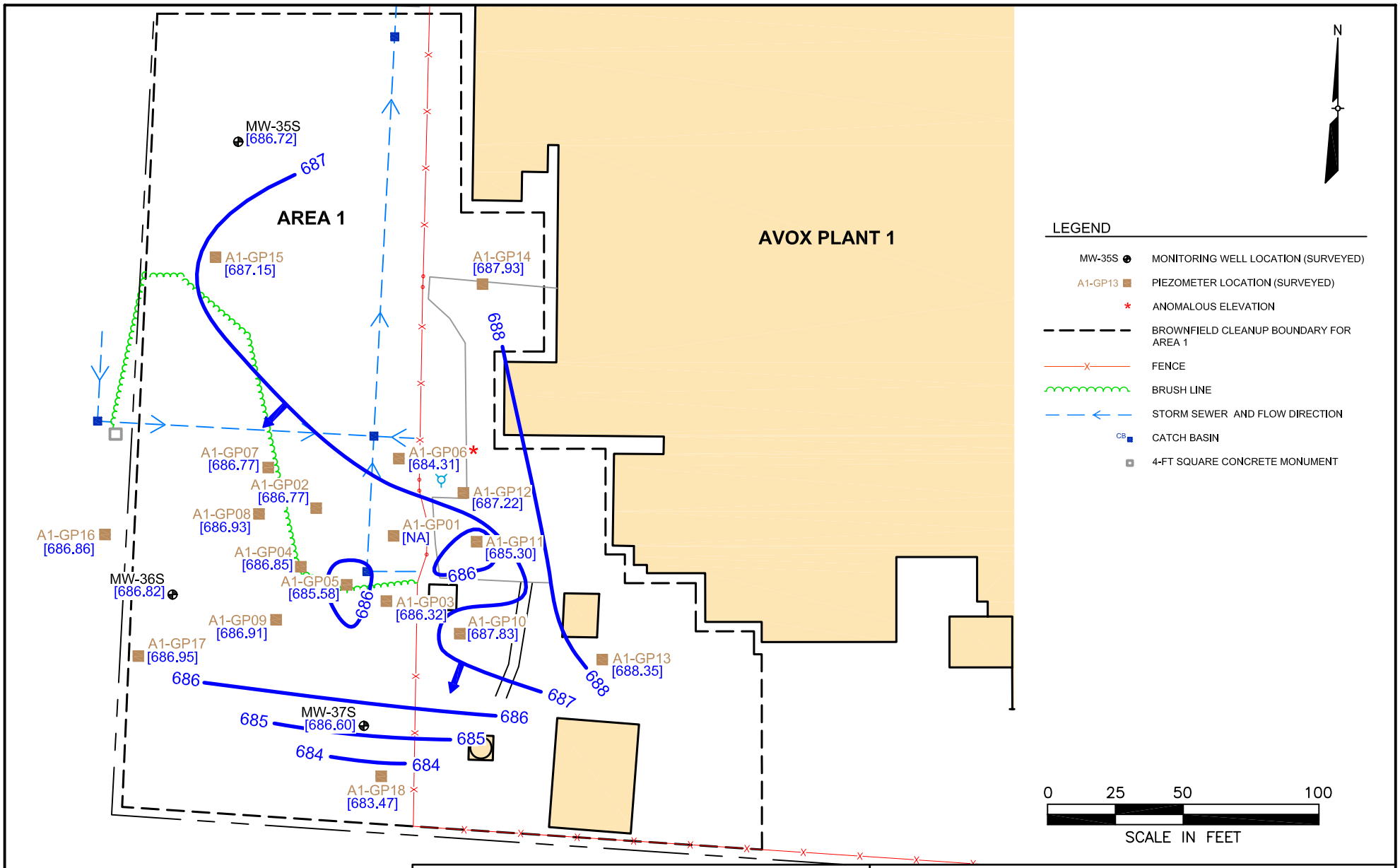
\\USGRNS01\data\work\60147012\CADD\60147012_067 MW and Piezometer Locations.dwg, 1/12/2011 1:33:06 PM, splawnm



AECOM

FIGURE 5
SOIL VAPOR SAMPLE LOCATION MAP

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

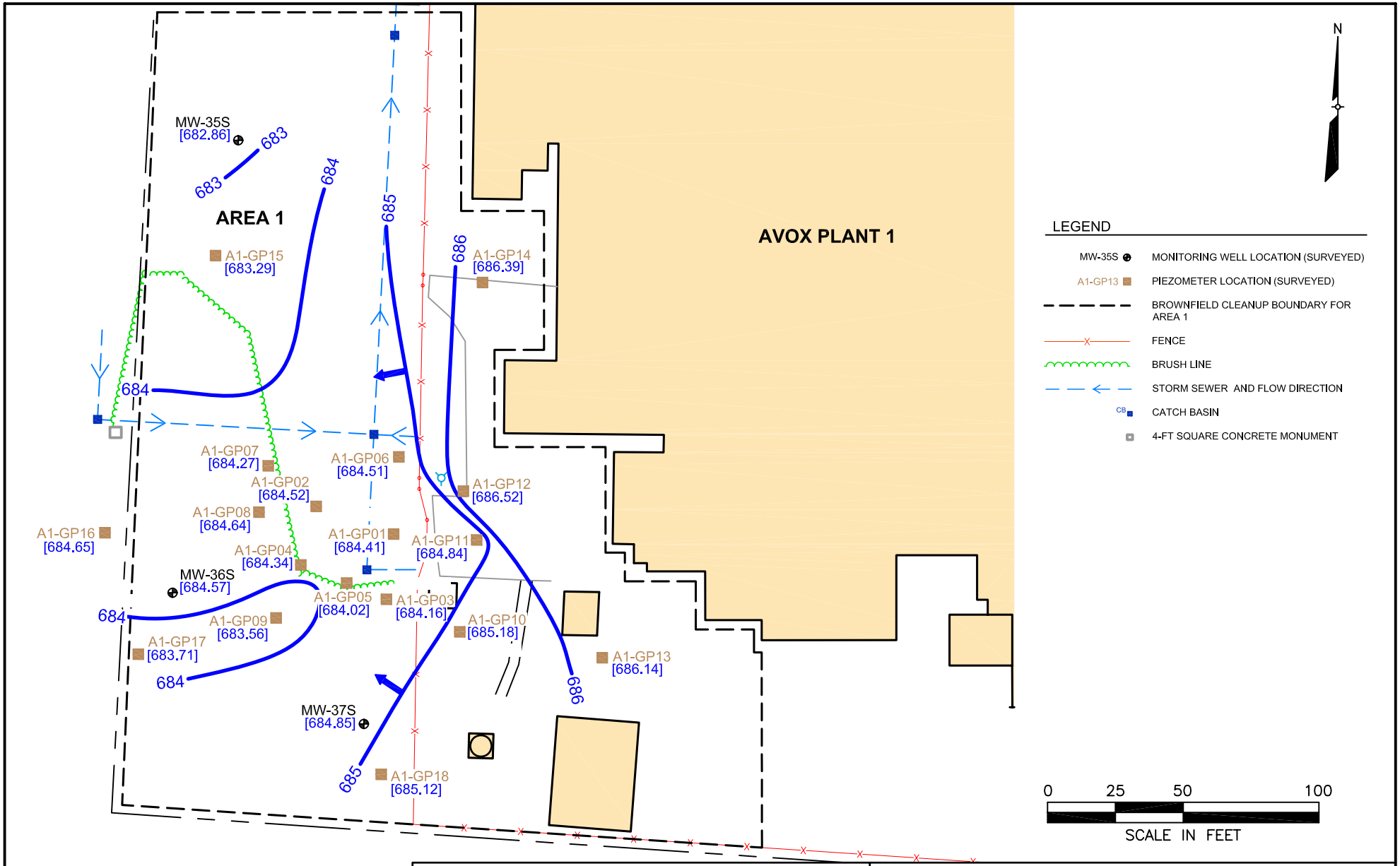


AECOM

FIGURE 6
SHALLOW OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS JUNE 10, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_068 Shallow Overburden GW Surface Conts_June2010.dwg, 10/26/2010 1:10:51 PM, splawnm

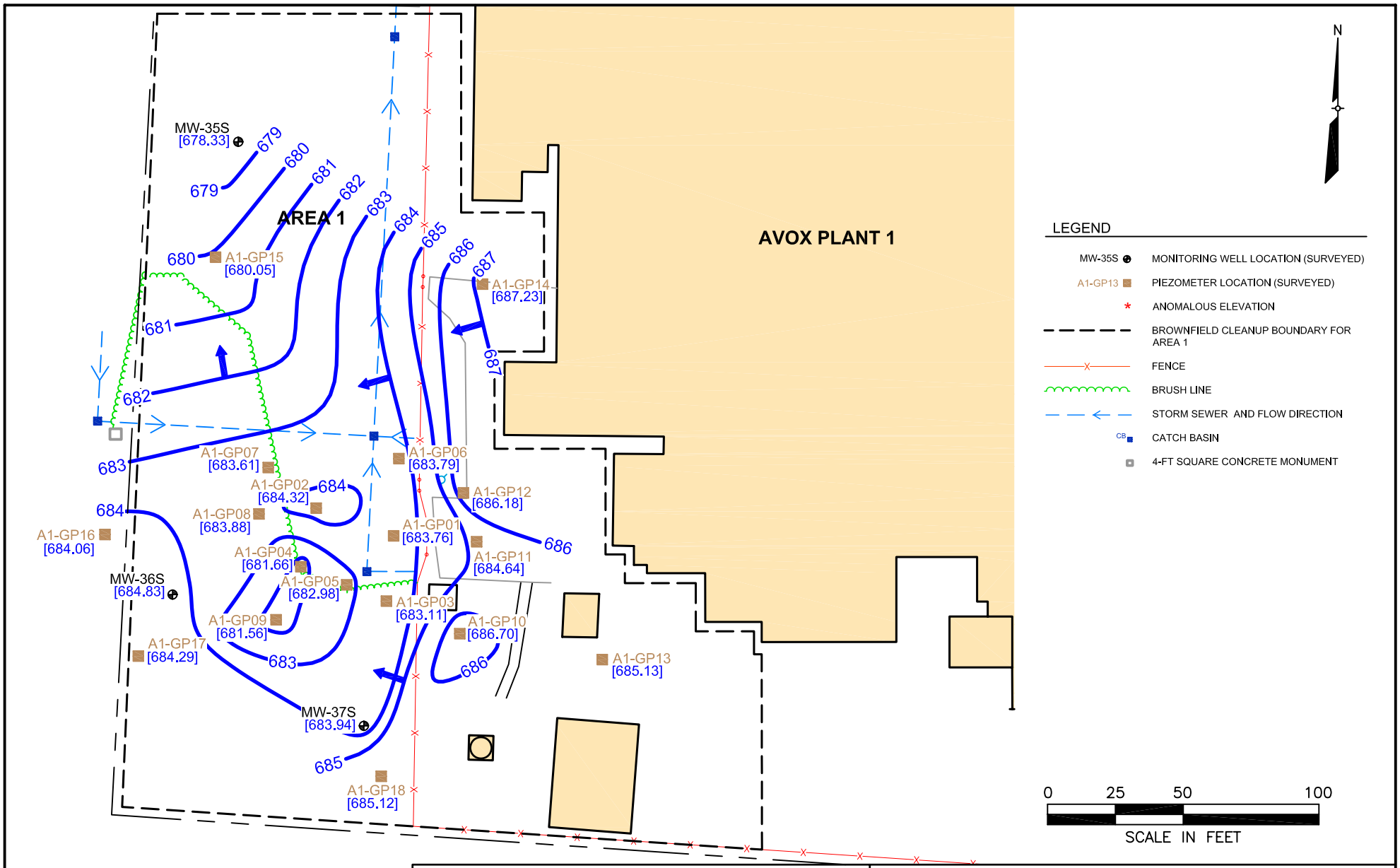


AECOM

FIGURE 7
SHALLOW OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS AUGUST 2, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_069 Shallow Overburden GW Surface Conts_August2010.dwg, 10/26/2010 1:11:36 PM, splawnm

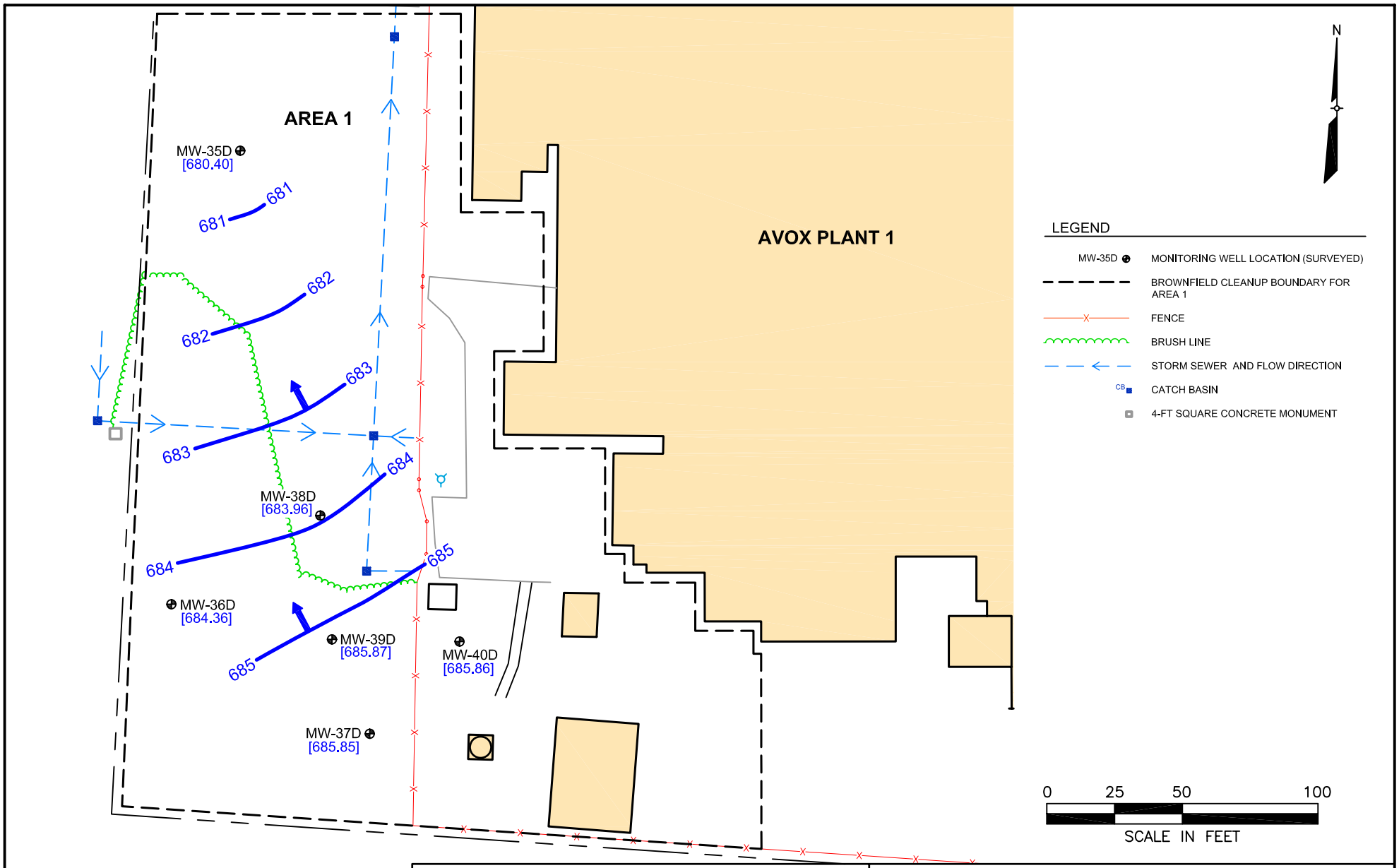


AECOM

FIGURE 8
SHALLOW OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS OCTOBER 21, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_085 Shallow Overburden GW Surface Conts_Oct2010.dwg, 10/26/2010 1:12:11 PM, splawnm

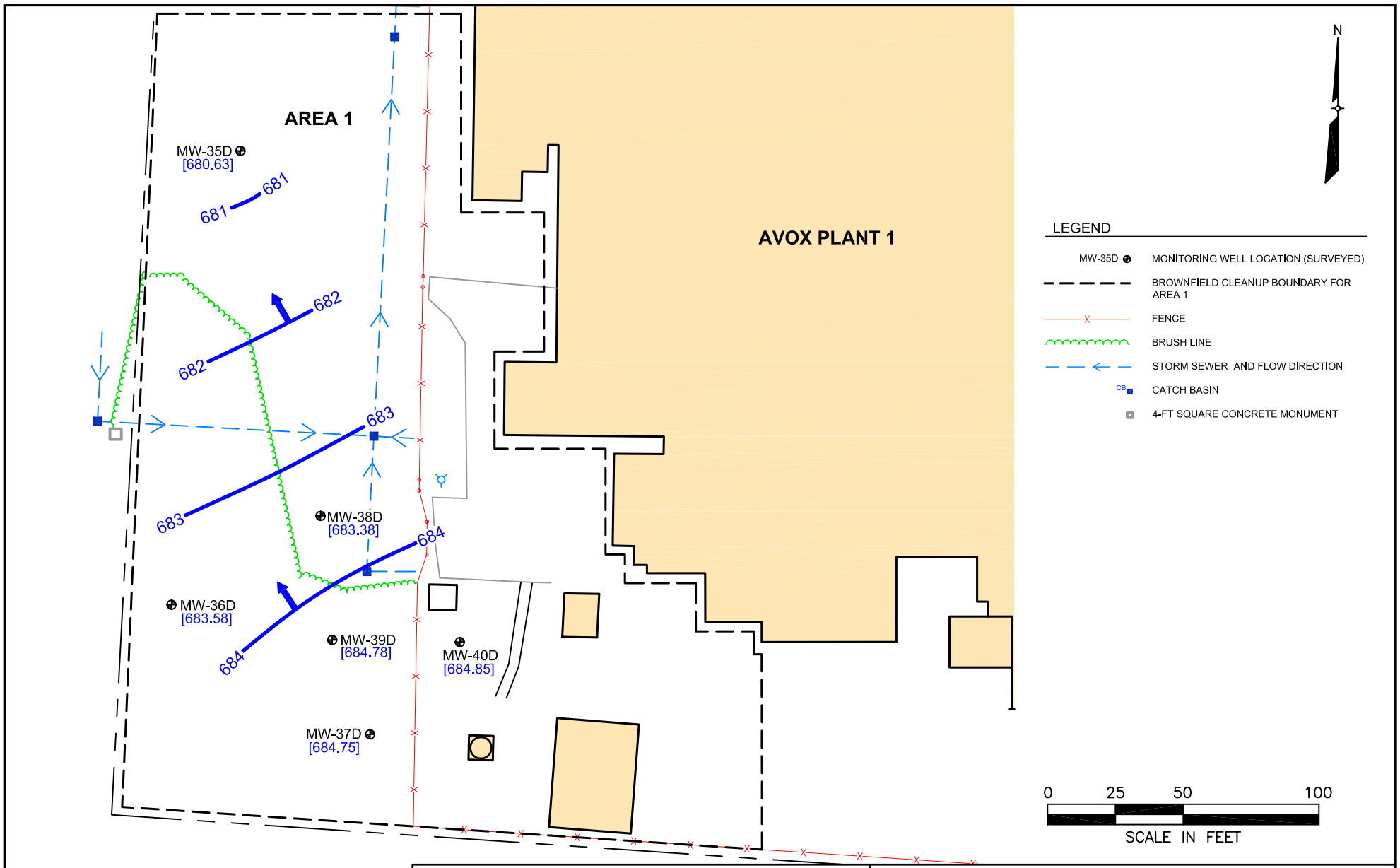


AECOM

FIGURE 9
DEEP OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS JUNE 10, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_070 Deep Overburden GW Surface Conts_June2010.dwg, 10/26/2010 1:12:40 PM, splawnm

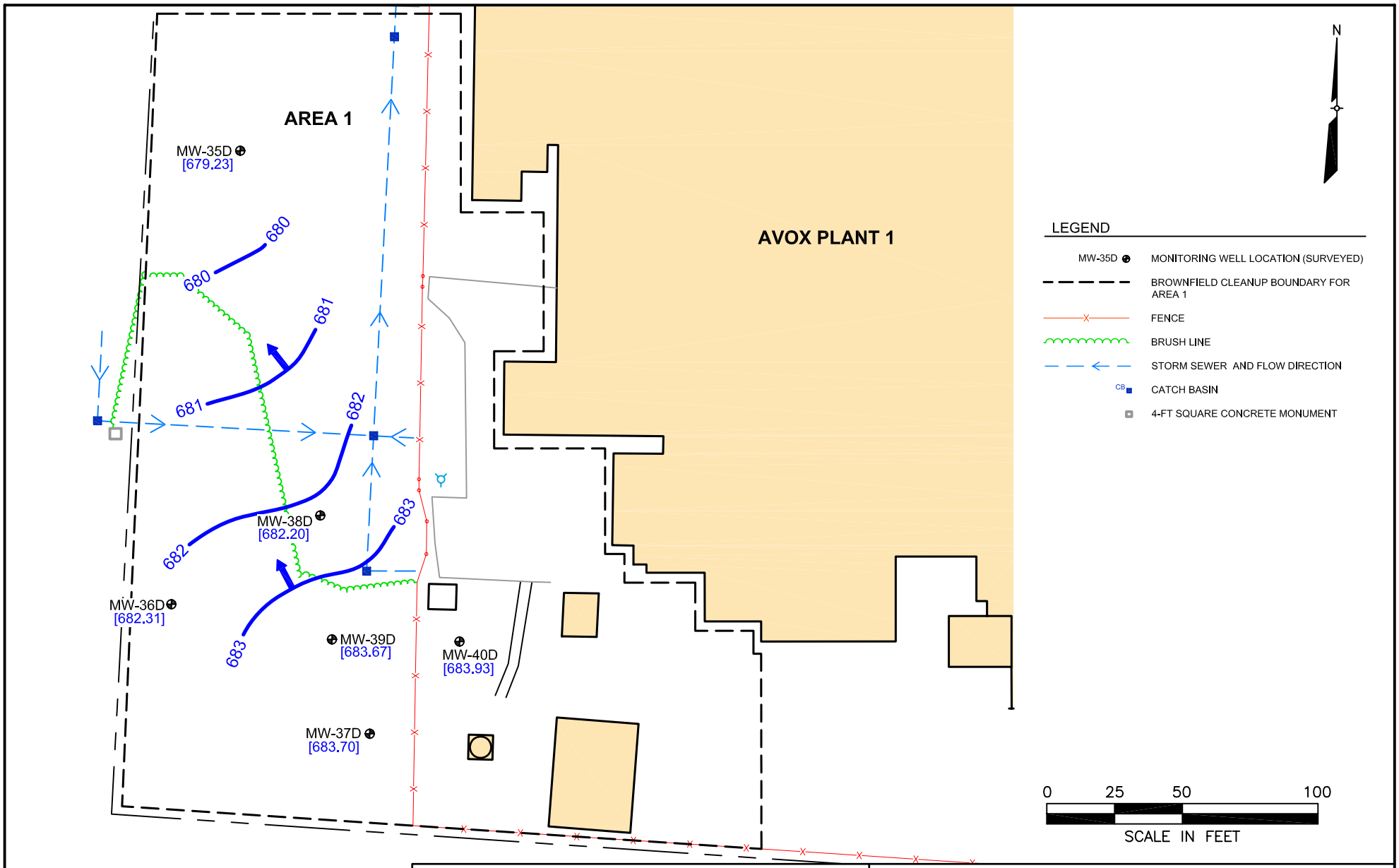


AECOM

FIGURE 10
DEEP OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS AUGUST 2, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_071 Deep Overburden GW Surface Conts_August2010.dwg, 10/26/2010 1:13:05 PM, splawnm

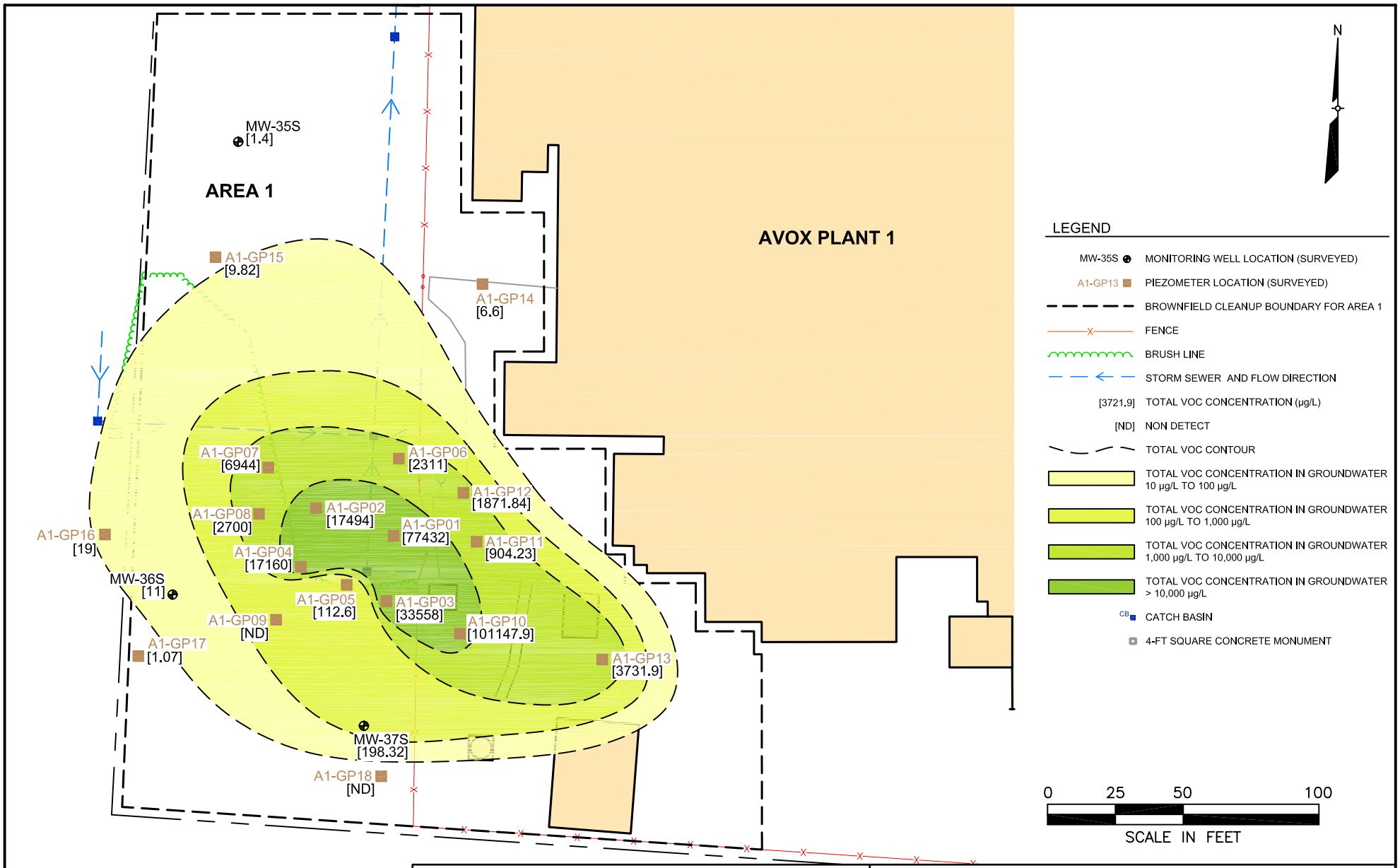


AECOM

FIGURE 11
DEEP OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS OCTOBER 21, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_086 Deep Overburden GW Surface Conts_Oct2010.dwg, 10/26/2010 1:13:34 PM, splawnm

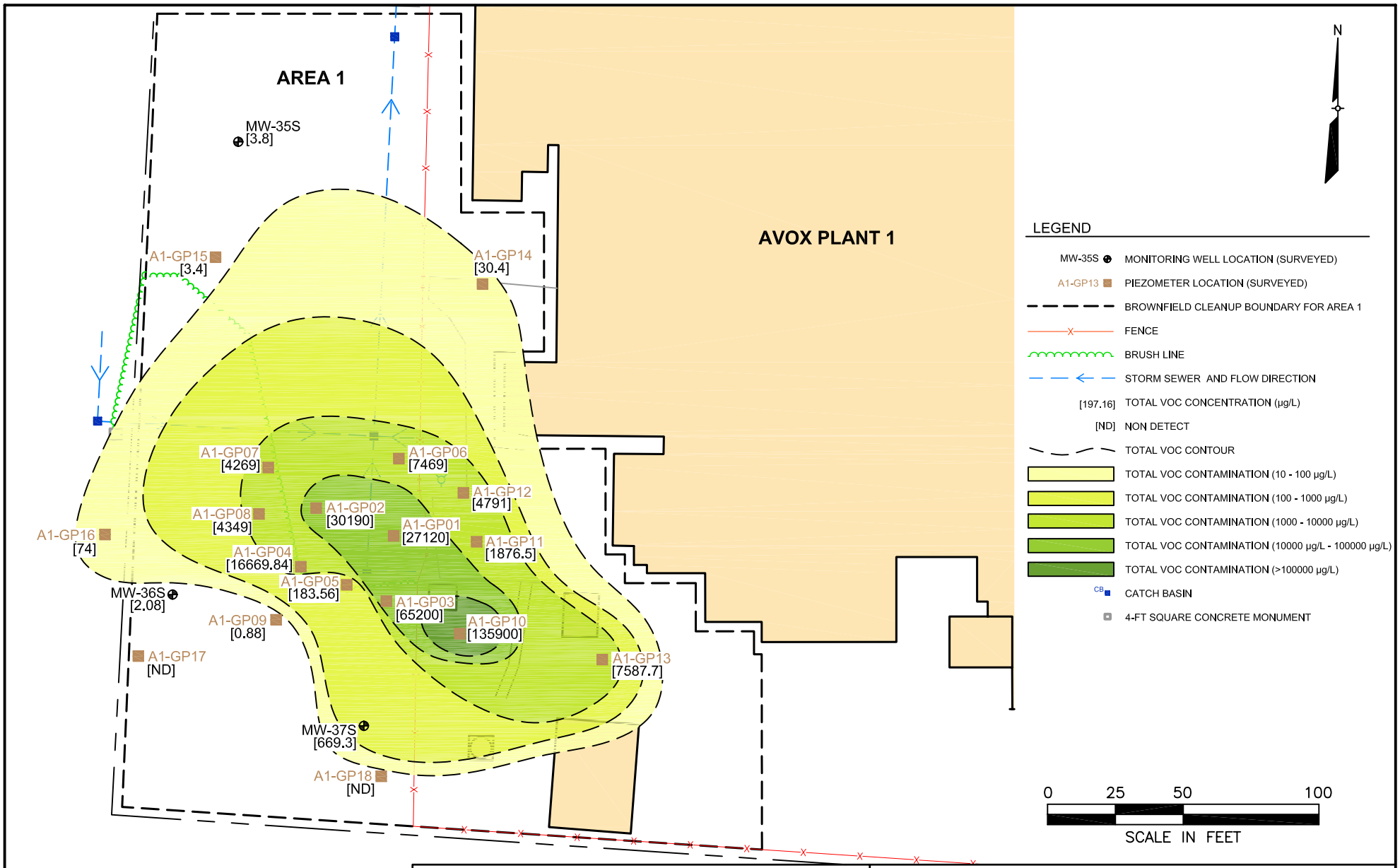


AECOM

FIGURE 12
TOTAL VOC CONTAMINANT PLUME BASED ON SHALLOW OVERBURDEN GROUNDWATER DATA JUNE 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_072 Total VOC Contaminant Plume_Shallow Overburden GW Data_June2010.dwg, 10/26/2010 1:14:36 PM, splawnm

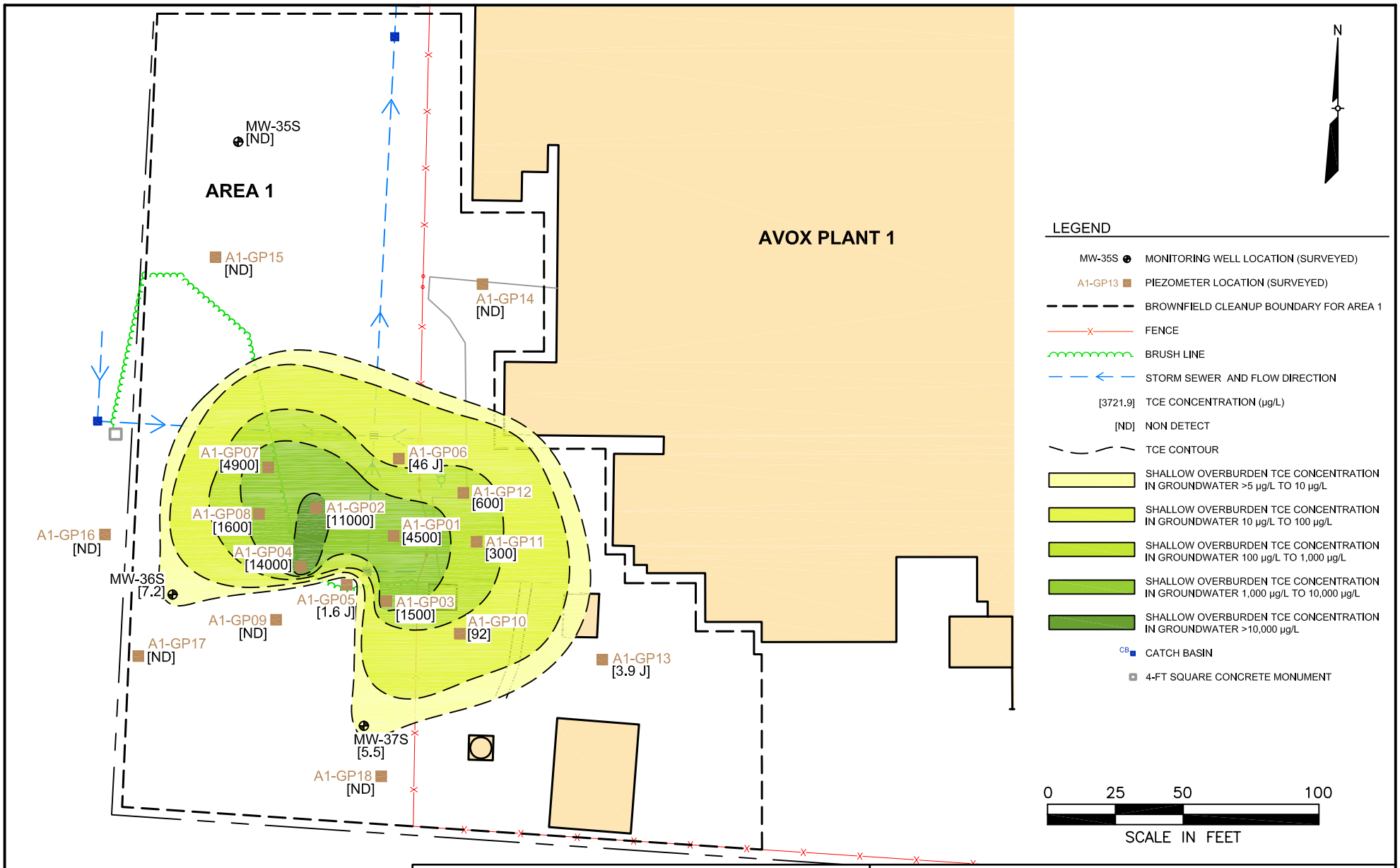


AECOM

FIGURE 13
TOTAL VOC CONTAMINANT PLUME BASED ON SHALLOW OVERBURDEN GROUNDWATER DATA AUGUST 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_073 Total VOC Contaminant Plume_Shallow Overburden GW Data_Aug2010.dwg, 10/26/2010 1:15:10 PM, splawnm

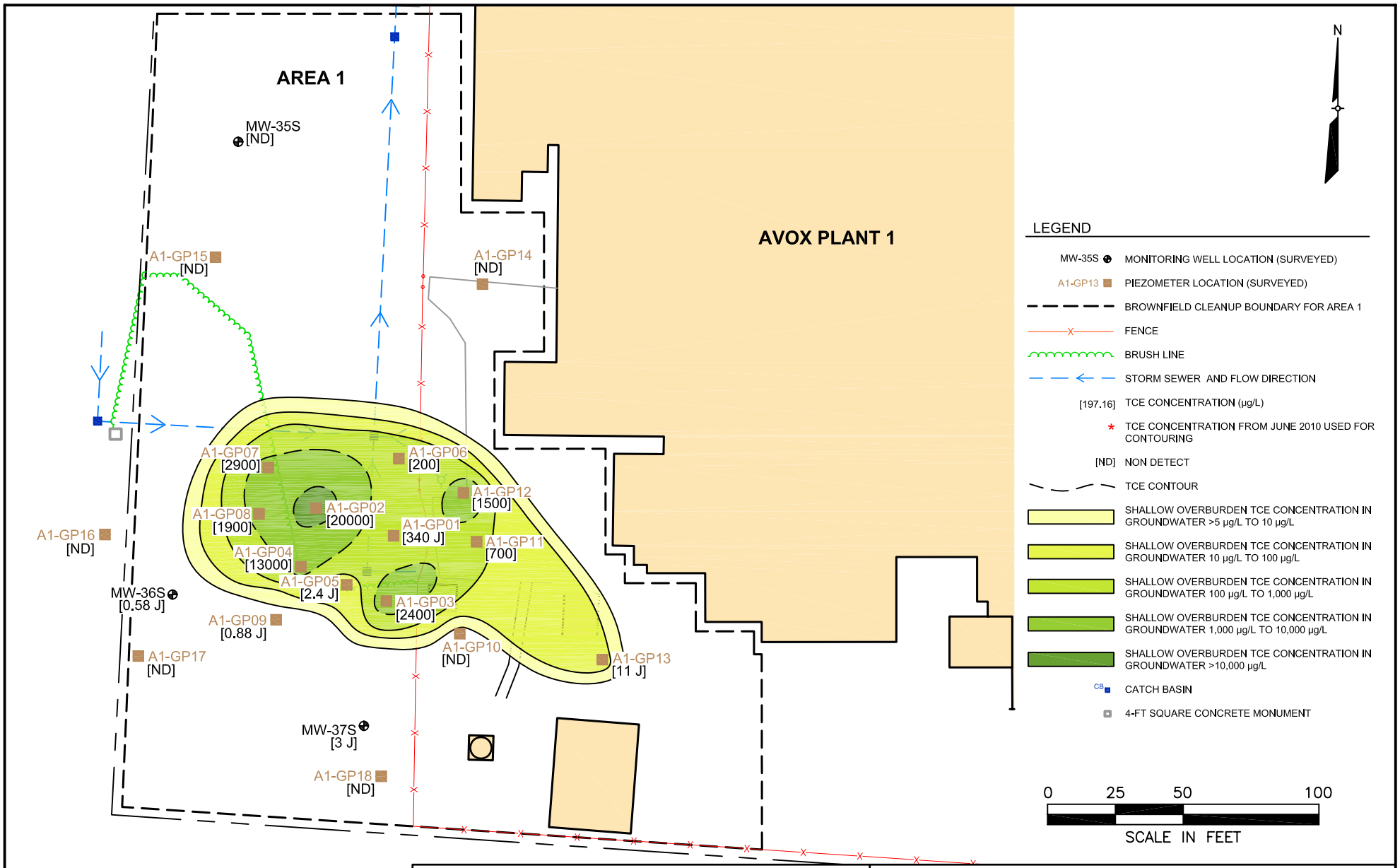


AECOM

FIGURE 14
TCE CONTAMINANT PLUME BASED ON SHALLOW OVERBURDEN GROUNDWATER DATA JUNE 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_077 TCE Contaminant Plume_Shallow Overburden GW Data_June2010.dwg, 10/26/2010 1:19:01 PM, splawnm

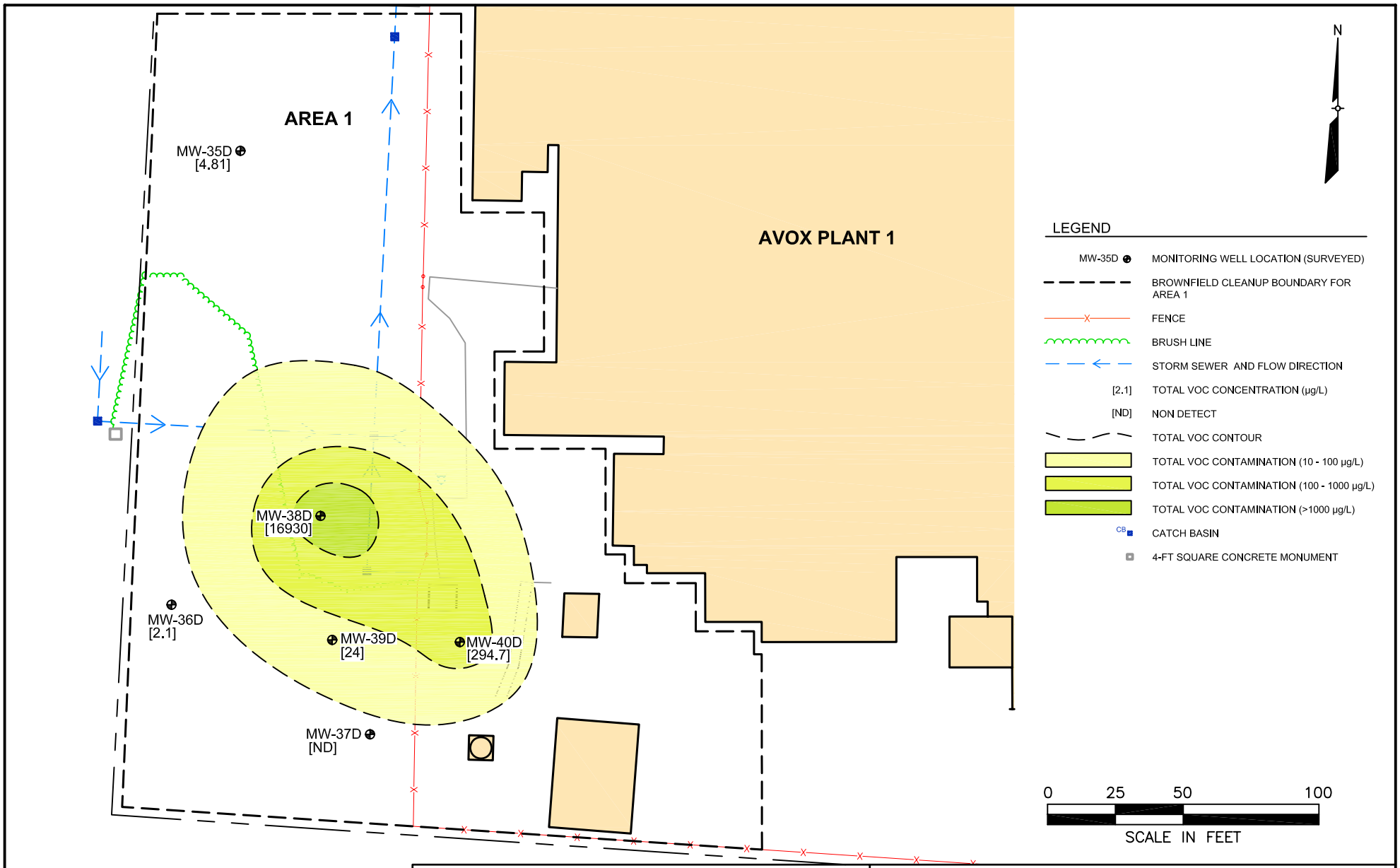


AECOM

FIGURE 15
TCE CONTAMINANT PLUME BASED ON SHALLOW OVERBURDEN GROUNDWATER DATA AUGUST 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_078 TCE Contaminant Plume_Shallow Overburden GW Data_Aug2010.dwg, 10/26/2010 1:19:35 PM, splawnm

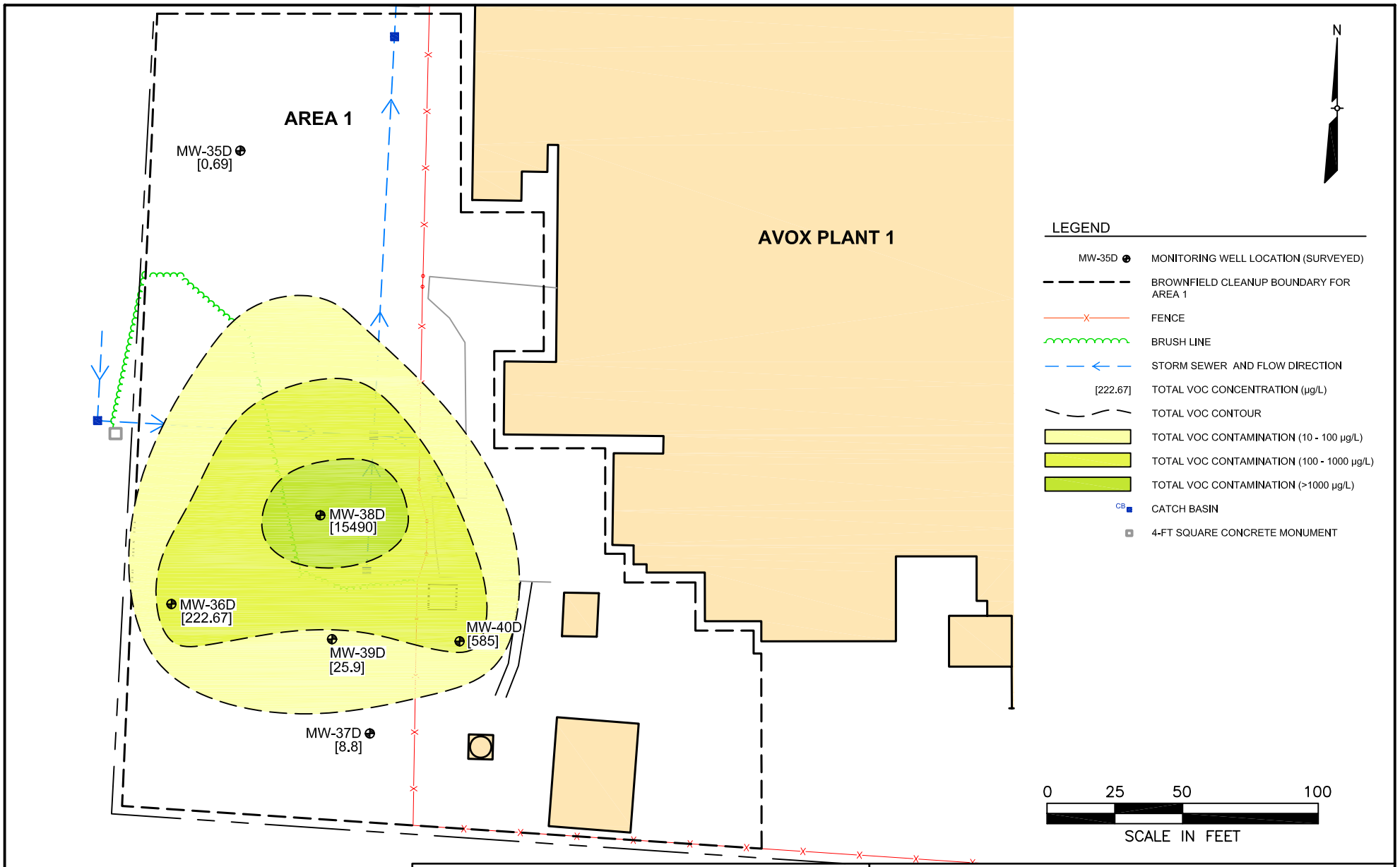


AECOM

FIGURE 16
TOTAL VOC CONTAMINANT PLUME BASED ON DEEP OVERBURDEN GROUNDWATER DATA JUNE 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_074 Total VOC Contaminant Plume_Deep Overburden GW Data_June2010.dwg, 10/26/2010 1:20:21 PM, splawnm

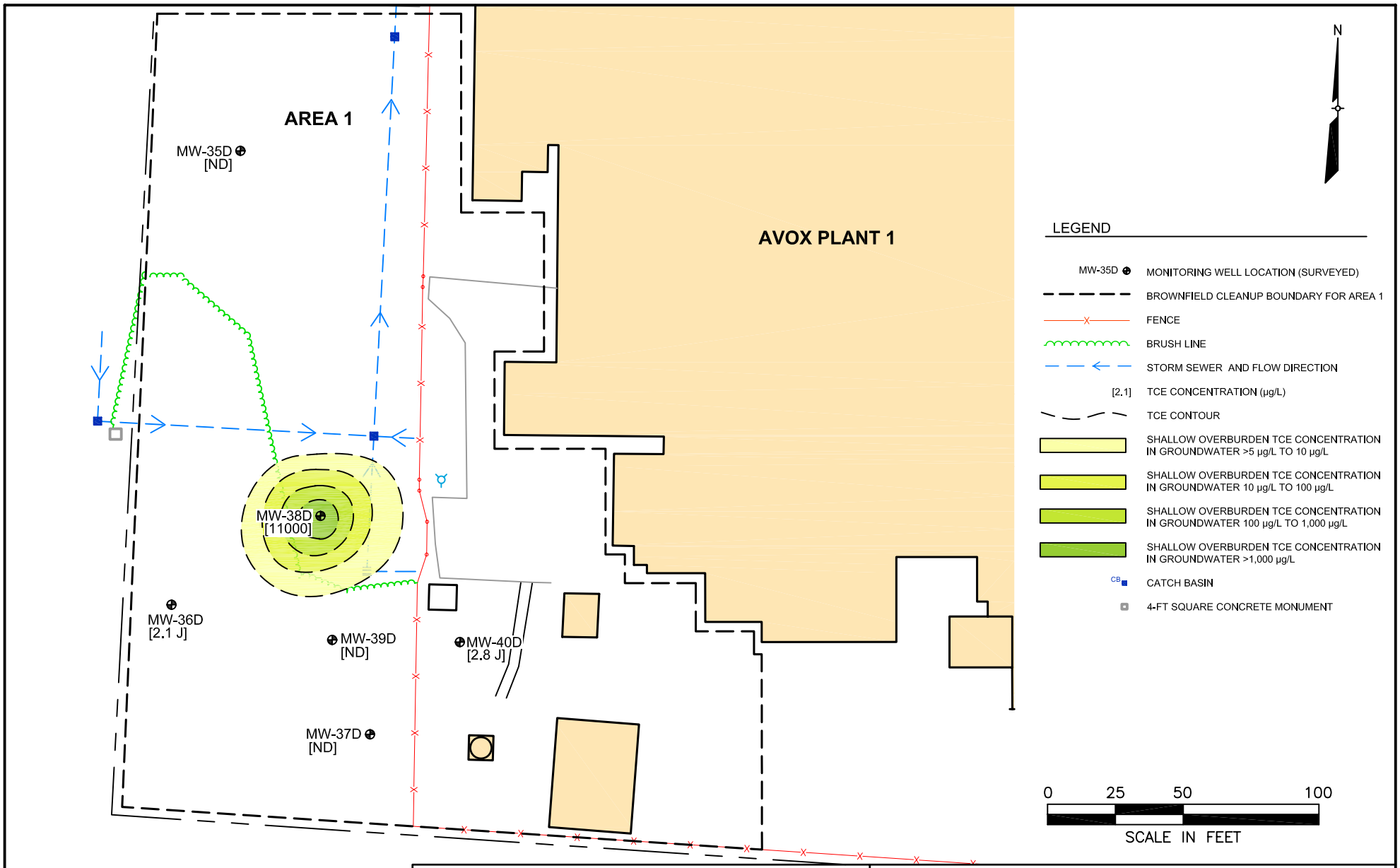


AECOM

FIGURE 17
TOTAL VOC CONTAMINANT PLUME BASED ON DEEP OVERBURDEN GROUNDWATER DATA AUGUST 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_075 Total VOC Contaminant Plume_Deep Overburden GW Data_Aug2010.dwg, 10/26/2010 1:20:55 PM, splawnm

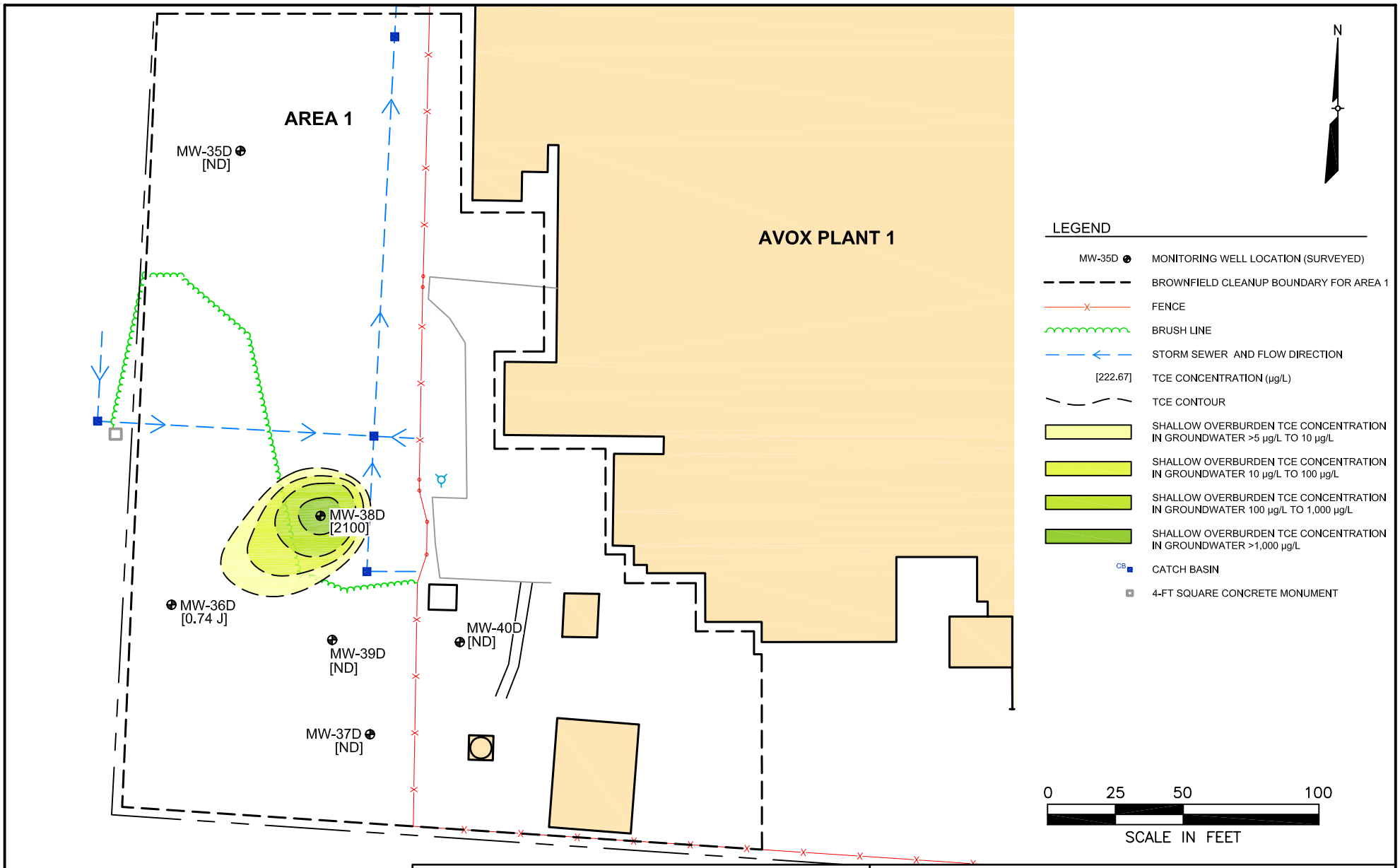


AECOM

FIGURE 18
TCE CONTAMINANT PLUME BASED ON DEEP OVERBURDEN GROUNDWATER DATA JUNE 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_079 TCE Contaminant Plume_Deep Overburden GW Data_June2010.dwg, 10/26/2010 1:21:21 PM, splawnm



AECOM

FIGURE 19
TCE CONTAMINANT PLUME BASED ON DEEP OVERBURDEN GROUNDWATER DATA AUGUST 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_080 TCE Contaminant Plume_Deep Overburden GW Data_Aug2010.dwg, 10/26/2010 1:21:51 PM, splawnm

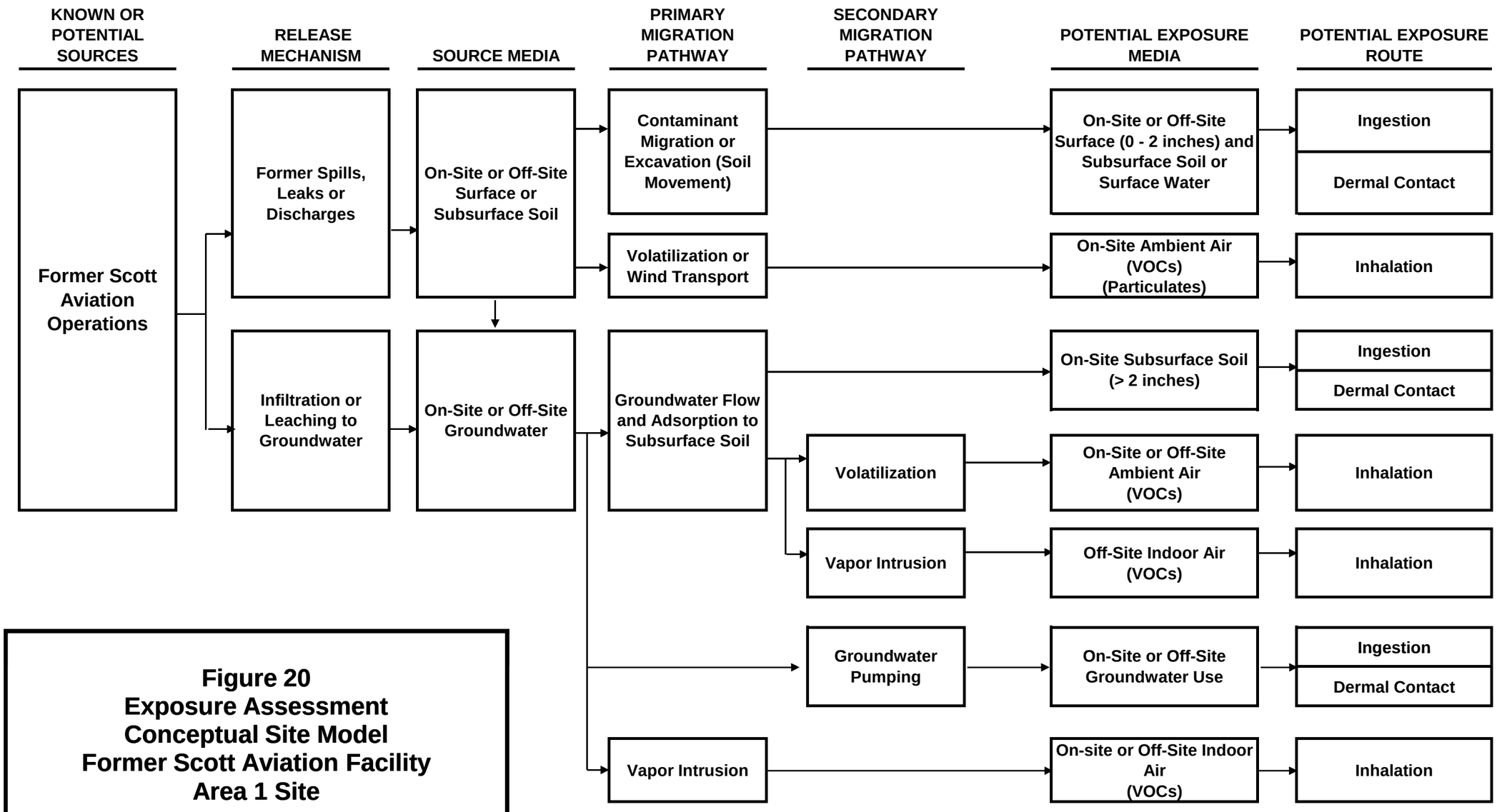


Figure 20
Exposure Assessment
Conceptual Site Model
Former Scott Aviation Facility
Area 1 Site

Notes:
Table 19 provides summary information regarding the potential receptor groups identified for the investigation for the on-site and off-site areas of interest, respectively.

Appendix A

Stratigraphic Borehole Logs and Well Construction Diagrams

AECOM

HTW DRILLING LOG

HOLE NO. B-1

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION:	SHEET 1 OF SHEETS 3	
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 0	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 4	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: NA	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 6/2/2010	18. DATE HOLE COMPLETED: 6/2/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: NA		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Sunny, 80F		
7. THICKNESS OF OVERBURDEN: 8 ft	20. DISPOSITION OF HOLE:		
8. DEPTH DRILLED INTO ROCK: NA ft	21. NAME OF INSPECTOR: Tamara Raby		
9. TOTAL DEPTH OF HOLE: 8 ft	22. SIGNATURE OF INSPECTOR:		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	0		Greyish brown SILT, trace f-c sand and f. gravel, trace fill material (i.e. glass), moist, trace black staining.	20	0-2'	0.5	3 4 5 5	
	2		light brown with grey-orangish brown mottling SILTY CLAY, wet (NOT water table), trace black staining)	8	2-4'	0.7	2 2 1 2	
	4		light brown with grey and orangish borwn mottling, SILTY CLAY, moist	6	4-6'	0.2	2 2 4 3	
	6		Greyish brown SILTY CLAY, trace f-c sand, soft, wet Bottom of borehole @ 8' Backfill boring with bentonite chips.	14	6-8'	0.2	1 2 2 2	
	8							
	10							

AECOM

HTW DRILLING LOG

HOLE NO. B-2

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION:	SHEET 1 OF 2	
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 0	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 0	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: NA	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 6/2/2010	18. DATE HOLE COMPLETED: 6/2/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: NA		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Sunny, 80F		
7. THICKNESS OF OVERBURDEN: 12 ft	20. DISPOSITION OF HOLE:		
8. DEPTH DRILLED INTO ROCK: NA ft	21. NAME OF INSPECTOR: Tamara Raby		
9. TOTAL DEPTH OF HOLE: 12 ft	22. SIGNATURE OF INSPECTOR:		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-6" brown sandy SILT and GRAVEL 6-18" brown SILTY CLAY with grey and orangish bornw mottling, (moist)	18	0-2	130.0	2 4 5 5	
	2		0-18" stiff, brown with grey-orangish brown mottling SILTY CLAY, moist	18	2-4	0.8	2 3 5 7	
	4		0-20" stiff, brown with grey and orangigh brown mottling SILTY CLAY, moist	20	4-6	0.7	7 9 9 10	
	6		0-20" stiff, brown with grey and orangigh brown mottling SILTY CLAY, moist	20	6-8	0.2	9 11 10 11	
	8		0-24" brown SIILTY CLAY with grey mottling, stiff, moist, trace black organics	24	8-10	0.2	14 14 18 17	
	10							

AECOM

HTW DRILLING LOG

HOLE NO. B-2

PROJECT		SHEET		SHEETS
Former Scott Aviation Facility BCP		2	OF	2

1. LOCATION	21. NAME OF INSPECTOR
Lancaster, New York	Tamara Raby
2. COMPANY	**22. SIGNATURE OF INSPECTOR**
AECOM	

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-22" brown SIILTY CLAY with grey mottling, stiff, moist, trace black organics, slightly moister than 8-10' splitspoon	22	10-12	0.2	15 19	
	11		Bottom of Boring @ 12'				20 20	
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							

AECOM

HTW DRILLING LOG

HOLE NO. B-3

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION:	SHEET 1 OF 2	
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 0	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 2	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: NA	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 6/2/2010	18. DATE HOLE COMPLETED: 6/2/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: NA		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Sunny, 80F		
7. THICKNESS OF OVERBURDEN: 12 ft	20. DISPOSITION OF HOLE:		
8. DEPTH DRILLED INTO ROCK: NA ft	21. NAME OF INSPECTOR: Tamara Raby		
9. TOTAL DEPTH OF HOLE: 12 ft	22. SIGNATURE OF INSPECTOR:		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-18" dark grey SILT with trace organics, f-c sand, top 6" base of asphalt (sand and gravel, same silt), moist	18	0-2	0.6	5 5 4 4	
	2		0-19" brown grading to slightly pinkish brown silty clay, moist, trace f-c sand, and rootlets, orangish brown mottling, moist	19	NA	0.2	2 3 5 6	
	4		0-24" Same as above, stiff, moist	24	NA	0.2	6 8 9 10	
	6		0-17" pinkish brown SILTY CLAY, trace f. snad stiff, moist, trace black/orange mottling	17	6-8	0.2	6 15 16 18	
	8		0-19" pinkish brown SILTY CLAY, trace orange mottling, moist	19	NA	0.2	11 14 16 16	
	10							

AECOM

HTW DRILLING LOG

HOLE NO. B-3

PROJECT: Former Scott Aviation Facility BCP

SHEET 2 OF SHEETS 2

1. LOCATION: Lancaster, New York

21. NAME OF INSPECTOR: Tamara Raby

2. COMPANY: AECOM

22. SIGNATURE OF INSPECTOR:

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-24" Same as above, slightly more moisture content, Collected sample 6-8' bgs.	24	NA	0.3	20	
							20	
	11		End of boring @ 12'				21	
							22	
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							

AECOM

HTW DRILLING LOG

HOLE NO. MW-35D

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION: North area in lawn	SHEET 1 OF 3	SHEETS 3
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 0	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 2 intervals sampled at S	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: 688.9 ft AMSL	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 5/26/2010	18. DATE HOLE COMPLETED: 5/26/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: 6 ft		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Sunny, 85F		
7. THICKNESS OF OVERBURDEN: ft	20. DISPOSITION OF HOLE		
8. DEPTH DRILLED INTO ROCK: ft	21. NAME OF INSPECTOR: Dino Zack		
9. TOTAL DEPTH OF HOLE: ft	22. SIGNATURE OF INSPECTOR		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-6" TOPSOIL, brown (moist/dry) 6-9" tan SILT, trace f.sand (dry/moist) 9-20" reddish brown CLAY, trace silt, stiff (moist/dry)	20	NA	0.0	2 2 4 5	
	2		0-15" reddish brown CLAY, trace silt, stiff (moist/dry)	15	NA	0.0	4 4 5 5	
	3							
	4		0-20" reddish brown SILTY CLAY with 1 mm silt layers (moist)	20	NA	0.0	3 4 7 8	
	5							
	6		0-7" reddish brown SILTY CLAY, little SILT, (wet) 7-20" reddish brown CLAYEY SILT, thin silt layers interbedded (dry/moist)	20	NA	0.0	5 7 9 9	
	7							
	8		0-24" reddish brown SILTY CLAY, mottled slightly (moist)	24	NA	0.0	5 6 6 8	
	9							
	10							

AECOM

HTW DRILLING LOG

HOLE NO. **MW-35D**

PROJECT: Former Scott Aviation Facility BCP

SHEET 2 OF SHEETS 3

1. LOCATION: Lancaster, New York

21. NAME OF INSPECTOR: Dino Zack

2. COMPANY: AECOM

22. SIGNATURE OF INSPECTOR:

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-6" reddish brown SILTY CLAY, trace gravel 6-24* dark reddish/purple brown CLAY, trace silty clay, (moist) *color change	24	NA	0.0	3 4 5 7	
	12		0-24" dark purple brown CLAY, (moist)	24	NA	0.0	5 8 8 10	
	14		0-23" dark purple/brown CLAY, trace silty, trace gravel, slightly mottled, (moist)	23	NA	0.0	3 3 5 6	
	16		0-24" dark purple-reddish brown CLAY, some silty layers, trace gravel, (moist)	24	NA	0.0	5 5 6 5	
	18		0-24" purple/reddish brown CLAY trace silt, trace gravel, (moist)	24	NA	0.0	2 3 3 4	
	20		0-24" purple/reddish brown CLAY trace silt, trace gravel, (moist), soft	24	NA	0.0	1 3 3 3	
	22		0-20" reddish brown CLAY, little silty, trace gravel (moist-wet)	20	NA	0.0	2 2 4 4	

AECOM

HTW DRILLING LOG

HOLE NO. MW-35D

PROJECT: Former Scott Aviation Facility BCP

SHEET 3 OF SHEETS 3

1. LOCATION: Lancaster, New York

21. NAME OF INSPECTOR: Dino Zack

2. COMPANY: AECOM

22. SIGNATURE OF INSPECTOR:

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	24		0-2" reddish brown CLAY, little silt, little gravel, (moist) 2-6" medium gray f-c SAND, some gravel, trace silt, (moist-wet), shale fragments in shoe Bottom of borehole @ 26'	24	NA	0.0	1 4 6 16	
	25							
	26							
	27							
	28							
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							

AECOM

HTW DRILLING LOG

HOLE NO. MW-36D

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION: North area in cattails	SHEET: 1 OF 2	
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 0	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 1 interval	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: 687.1 ft AMSL	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 6/4/2010	18. DATE HOLE COMPLETED: 6/4/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: 9 ft		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Sun & Clouds 85F		
7. THICKNESS OF OVERBURDEN: 21 ft	20. DISPOSITION OF HOLE:		
8. DEPTH DRILLED INTO ROCK: NA ft	21. NAME OF INSPECTOR: Dino Zack		
9. TOTAL DEPTH OF HOLE: 21 ft	22. SIGNATURE OF INSPECTOR:		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-8" organic-rich TOPSOIL (wet-moist) 8-23" mottled reddish brown SILT, trace f-c sand, trace clay, trace organics (moist)	23	NA	0.0	1 1 3 4	
	2 3		0-20" mottled reddish brown-tan-grey SILT, little clay, gtrace f. gravel (moist)	20	NA	0.0	4 4 5 6	
	4 5		0-13" tan-lt. olive SILT 13-23" reddish brown-tan SILT and CLAY, mottled with grey (stiff, moist)	23	NA	0.0	5 5 6 11	
	6 7		0-6" tan-olive SILT, mottled with grey (moist) 6-24" reddish brown CLAY, little silt, grading to purple (stiff, moist)	24	NA	0.0	10 12 16 16	
	8 9		0-12" Reddish brown CLAY, some silt (tan-grey mottling)(moist) 12-16" Tan-olive SILT, trace clay, trace f-m gravel (wet) 16 -20 Reddish brown-purple CLAY, little silt, (grey mottled (moist)	20	8-9'	0.0	3 4 4 7	
	10							

AECOM

HTW DRILLING LOG

HOLE NO. MW-36D

PROJECT: Former Scott Aviation Facility BCP

SHEET 2 OF SHEETS 2

1. LOCATION: Lancaster, New York

21. NAME OF INSPECTOR: Dino Zack

2. COMPANY: AECOM

22. SIGNATURE OF INSPECTOR:

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-24" reddish brown-purple CLAY, trace silt, trace f-m gravel (plastic-moist)	24	NA	0.0	3 4 6 6	
	12		0-24" reddish brown-purple CLAY, trace silt, trace f-m gravel (moist, very plastic)	24	NA	0.0	5 6 5 5	
	14		0-24" reddish brown-purple CLAY, little grey silt layers (moist-plastic)	24	NA	0.0	2 2 2 4	
	16		0-18" reddish brown-purple CLAY, little grey silit layers, trace f-m gravel (wet-moist) 18-20" shale fragments in shoe, grey f-c sand and f-m gravel, trace silt (moist)	20	NA	0.0	5 9 25 Refusal	Auger to 18'
	18		0-4" medium grey f-c sand, some f-m gravel, trace silt, rock fragments (wet)	4	NA	0.0	8 1 3 6	
	20		0-6" medium grey f-c sand, some f-m gravel, trace silt, rock fragments (wet) Refusal - Bottom of borehole @ 21'	6	NA	0.0	Refusal	
	22							
	23							

AECOM

HTW DRILLING LOG

HOLE NO. MW-37D

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION: South area in woods	SHEET: 1 OF SHEETS: 2	
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 0	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 1	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: 687.6 ft AMSL	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 5/28/2010	18. DATE HOLE COMPLETED: 5/28/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: 7 ft		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Cloudy, 65F		
7. THICKNESS OF OVERBURDEN: 20 ft	20. DISPOSITION OF HOLE:		
8. DEPTH DRILLED INTO ROCK: NA ft	21. NAME OF INSPECTOR: Dino Zack		
9. TOTAL DEPTH OF HOLE: 20 ft	22. SIGNATURE OF INSPECTOR:		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-7" Topsoil 7-21" tan with reddish brown mottling, SILT, little clay, (moist)	21	NA	0.0	1 1 3 4	
	2		0-19" Reddish brown with grey/tan mottling, SILT, little clay, (dry-moist)	19	NA	0.0	7 7 8 9	
	4		0-18" Reddish brown with tan mottling, SILT and CLAY, (moist)	18	NA	0.0	4 4 7 7	
	6		0-14" Reddish brown with tan mottling SILT and CLAY, (moist) 14-16" tan SILT, trace clay (wet) 16-21" Reddish brown with tan mottling CLAY, some silt, thin grey silt layers, (moist) Sample 6-7'	24	6-7'	0.0	7 9 9 2	
	8		0-24" Reddish brown SILT, little clay light grey silt layers interbedded, (dry-moist)	24	NA	0.0	3 4 7 9	
	10							

AECOM

HTW DRILLING LOG

HOLE NO. MW-37D

PROJECT: Former Scott Aviation Facility BCP			SHEET 2 OF SHEETS 2
1. LOCATION: Lancaster, New York		21. NAME OF INSPECTOR: Dino Zack	
2. COMPANY: AECOM		22. SIGNATURE OF INSPECTOR	

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-24" Reddish brown CLAY, little silt, trace f. gravel (moist)	24	NA	0.0	3 5 6 8	
	12		0-24" purple-reddish brown CLAY, trace silt, trace f. gravel, (moist), very plastic	24	NA	0.0	7 8 8 9	
	14		0-24" purple-reddish brown with grey silt/f.sand layer, CLAY, trace silt, (moist)	24	NA	0.0	1 1 2 2	
	16		0-24" reddish brown CLAY and SILT, f. sand and silt layers interbedded increasing to bottom - color change to grey to bottom, moist - wetter to bottom	24	NA	0.0	4 4 4 5	
	18		0-22" medium grey CLAY and SILT (very moist), soft, trace f-c sand and gravel 22-24" medium grey f-c sand, trace silt, little rock chips (dry) Bottom of Borehole @ 20'	24	NA	0.0	1 3 7 13	
	20							
	22							

AECOM

HTW DRILLING LOG

HOLE NO. MW-38D

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION: Center area edge of lawn	SHEET: 1 OF 2	SHEETS
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 0	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 1	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: 687.5 ft AMSL	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 6/3/2010	18. DATE HOLE COMPLETED: 6/3/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: 8 ft		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Cloudy 75F		
7. THICKNESS OF OVERBURDEN: 21 ft	20. DISPOSITION OF HOLE:		
8. DEPTH DRILLED INTO ROCK: NA ft	21. NAME OF INSPECTOR: Dino Zack		
9. TOTAL DEPTH OF HOLE: 21 ft	22. SIGNATURE OF INSPECTOR:		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-7" brown-black TOPSOIL (moist) 7-17" reddish brown SILT, little organics, trace clay, (moist)	17	0-0.2'	0.0	1 2 3 3	
	2 3		0-22" reddish brown-tan-grey mottled SILT, little clay, trace f-m gravel (dry-moist)	22	NA	0.0	2 6 6 7	
	4 5		0-24" reddish brown, tan-grey-olive motled SILT, little clay (moist) wet silt layers 1" @ 24" (45ppm)	24	NA	45.0	3 4 4 7	
	6 7		0-10" olive grey SILT (wet) (45ppm) 10-24" reddish brown - olive mottled SILT, trace clay, trace f. gravel (moist) PID - 0-243, 243 @ 7' bgs	24	NA	243.0	7 9 9 12	
	8 9 10		0-9" Reddish brown-olive mottled SILT, little clay (moist) max PID = 45.2 ppm 9-10" tan-grey f. sand, trace silt (wet), 110 ppm 10-24" reddish brown - purple SILT, some clay, trace gravel (moist-plastic), PID = 45 to 5ppm @ 24"	24	NA	110.0	4 8 8 10	

AECOM

HTW DRILLING LOG

HOLE NO. MW-38D

PROJECT: Former Scott Aviation Facility BCP		SHEET: 2 OF 2 SHEETS	
1. LOCATION: Lancaster, New York		21. NAME OF INSPECTOR: Dino Zack	
2. COMPANY: AECOM		22. SIGNATURE OF INSPECTOR	

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-14" reddish brown - purple CLAY, trace silt, trace f-m gravel (moist) plastic	14	NA	0.0	1 1 3 4	
	12		0-24" reddish brown-purple CLAY, trace silt, trace f-m gravel (moist), 4.5ppm @ 6" in silt layer - 0 in remainder of sample	24	NA	4.5	7 9 9 12	
	14		refusal - rock in shoe - auger to 16'	0	NA	NA	NA NA NA NA	
	16		0-24" reddish brown-purple CLAY, trace silt, trace gravel (moist), 3.4ppm @ 17" iin thin silt layer (grey, moist) 0.0ppm in rest of core	24	NA	3.4	47 4 4 4	
	18		0-10" reddish brown purple SILT and CLAY, little f-m gravel (moist) 10-15" Dark grey SILT and rock chips (wet)	15	NA	0.0	12 4 6 7	
	20		0-4" Dark grey SILT and granite chips (moist) Refusal - Bottom of borehole @ 21'	4	NA	0.0	12/20	
	22							
	23							

AECOM

HTW DRILLING LOG

HOLE NO. MW-39D

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION: South area in brush	SHEET: 1 OF 2	
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 0	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 1	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: 687.4 ft AMSL	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 6/3/2010	18. DATE HOLE COMPLETED: 6/3/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: 6 ft		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Cloudy 75F		
7. THICKNESS OF OVERBURDEN: 20 ft	20. DISPOSITION OF HOLE:		
8. DEPTH DRILLED INTO ROCK: NA ft	21. NAME OF INSPECTOR: Dino Zack		
9. TOTAL DEPTH OF HOLE: 20 ft	22. SIGNATURE OF INSPECTOR:		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-7" Dark brown TOPSOIL, moist 7-10" brown topsoil grading to CLAYEY SILT (moist) 10-12" reddish brown mottled with brown CLAYEY SILT (moist)	12	NA	0.0	1 3 3 4	
	2		0-24" reddish brown SILTY, little clay thin grey silt interbeds increases to bottom (moist)	24	NA	1.1	8 8 9 10	1.1 ppm @ 3-4'
	4		0-24" reddish brown SILTY CLAY (moist) - more wet @ bottom, (18-20" grey SILT layer (moist-wet)) collect samples @ 5-6"	24	5-6'	4.1	3 5 7 7	4.1ppm @ 5-6'
	6		0-6" reddish brown - tan SILT, some clay (wet) 0-1.1 PID 6-12" reddish brown-tan mottled SILT, some clay, rey silt think interbeds (moist)	24	NA	4.0	9 9 9 9	4.0 ppm @ 8'
	8		0-18" reddish brown CLAY, little silt, trace gravel (moist) 18-24" reddish brown to purple CLAY, some silt (grey interbeds), trace gravel (moist)	24	NA	0.0	3 3 3 6	
	10							

AECOM

HTW DRILLING LOG

HOLE NO. MW-39D

PROJECT: Former Scott Aviation Facility BCP

SHEET 2 OF SHEETS 2

1. LOCATION: Lancaster, New York

21. NAME OF INSPECTOR: Dino Zack

2. COMPANY: AECOM

22. SIGNATURE OF INSPECTOR:

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-8" Grey SILT (wet) 8-24" reddish brown, slighly purple CLAY, little silt, trace gravel (moist)	24	NA	0.0	3 5 6 8	
	12		0-24" reddish brown to purple CLAY, little-trace silt, trace gravel (moist), plastic	24	NA	0.0	4 5 6 7	
	14		0-24" reddish brown - slightly purple CLAY, little grey silt interbeds (moist)	24	NA	0.0	2 3 2 4	
	16		0-24" reddish brown-purple CLAY, little grey silt interbeds (wet @ 6-8"), moist and very soft/plastic	24	NA	0.0	3 3 4 6	
	18		0-20" reddish brown-purple SILT and CLAY, trace rey silt layers (moist) 20-24" grey SILT and f-c GRAVEL, little f. sand (wet-moist)	24	NA	0.0	2 2 7 5	
	20		Bouncing Spoon - shale Bottom of Borehole @ 20'	1	NA	0.0		
	22							
	23							

AECOM

HTW DRILLING LOG

HOLE NO. MW-40D

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION: East area in lawn	SHEET 1 OF 2	
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 0	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 1	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: 689.5 ft AMSL	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 6/2/2010	18. DATE HOLE COMPLETED: 6/2/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: 9 ft		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Sunny, 80F		
7. THICKNESS OF OVERBURDEN: 22.8 ft	20. DISPOSITION OF HOLE:		
8. DEPTH DRILLED INTO ROCK: NA ft	21. NAME OF INSPECTOR: Tamara Raby		
9. TOTAL DEPTH OF HOLE: 22.8 ft	22. SIGNATURE OF INSPECTOR:		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-6" brown SILT, organics (grass), TOPSOIL	6	NA	0.1	3 6 3 7	
	2		brown F-C SAND & F-GRAVEL, dry	0	NA	0.1	3 6 3 5	* very small volume in spoon
	4		0-19" brown with grey to orangish brown mottling F-C SAND & F-GRAVEL, (moist), stiff, more moisture with depth	19	NA	0.2	4 5 7 7	
	6		0-22" Same as above, less mottling with depth, trace f-m sand (moist)	22	NA	0.3	8 9 9 9	
	8		0-24" Same as above, potentially groundwater at 11-18" (~9-9.5' bgs (<1MM). Bottom 1' observe start of pinkish brown coloration	24	NA	9.7	4 4 5 7	
	10							

AECOM

HTW DRILLING LOG

HOLE NO. MW-40D

PROJECT: Former Scott Aviation Facility BCP

SHEET 2 OF SHEETS 2

1. LOCATION: Lancaster, New York

21. NAME OF INSPECTOR: Tamara Raby

2. COMPANY: AECOM

22. SIGNATURE OF INSPECTOR:

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-22" Same as above, more plastic, trace f. gravel	22	NA	4.0	3 3 3 3	
	12		0-24" Same as above, pinkish grey, trace grey silt lenses	24	NA	1.2	5 7 8 9	
	14		0-18" Same as above	18	NA	3.7	2 3 4 5	
	16		0-24" Same as above, several v.f. sand lenses bottom 6" *grey to pinkish brown layering	24	NA	0.1	5 5 5 5	
	18		0-24" Same as above - less grey colored layering	24	NA	0.2	3 3 4 5	
	20		0-24" Same as above - more grey, trace rounded gravel	24	NA	0.3	2 3 4 6	
	22		0-8" Same as above - plastic, soft, saturated 8-9" broken black shale. Bottom of borehole @ 22.8'	9	NA	0.2	12 50/0.3	
	23							

AECOM

HTW DRILLING LOG

HOLE NO. MW-41B2

PROJECT: Former Scott Aviation Facility BCP	10. HOLE LOCATION: Center area in brush	SHEET: 1 OF 3	
1. LOCATION: Lancaster, New York	11. NO. OF OVERBURDEN GEOTECH SAMPLES: 4	DISTURBED: NA	UNDISTURBED: NA
2. COMPANY: AECOM	12. SAMPLES FOR CHEMICAL ANALYSIS: 1	13. Total Number of Core Boxes: NA	
3. DRILLING COMPANY: QISI	14. SURFACE ELEVATION AT HOLE: 687.8 ft AMSL	15. ELEVATION DATUM: NAD83	
4. MANUFACTURER'S DESIGNATION OF DRILL: 2009 Diedrich D-50 ATV	17. DATE HOLE STARTED: 5/27/2010	18. DATE HOLE COMPLETED: 5/27/2010	
5. SIZE AND TYPE OF EQUIPMENT: 2009 Diedrich D-50 ATV	16. DEPTH OF GROUNDWATER ENCOUNTERED: NA		
6. NAME OF DRILLER: Ron Brown	19. WEATHER: Sunny, 85F		
7. THICKNESS OF OVERBURDEN: 21.5 ft	20. DISPOSITION OF HOLE:		
8. DEPTH DRILLED INTO ROCK: 3.3 ft	21. NAME OF INSPECTOR: Dino Zack		
9. TOTAL DEPTH OF HOLE: 34.8 ft	22. SIGNATURE OF INSPECTOR:		

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-4" brown TOPSOIL (dry-moist) 4-9" medium grey mottled to fine SILT, some clay, trace gravel, (moist)	9	0-0.2'	0.0	2 3 3 3	
	2 3		0-17" medium grey, slighly mottled, SILT and CLAY (dry-moist)	17	NA	0.0	4 5 7 8	
	4 5		0-18" medium grey with tan/rust mottling, SILTY, some clay (moist), PID increases with depth.	18	NA	14.2	3 3 5 6	
	6 7		0-18" medium grey with tan/rust mottling, SILT, little clay (moist), wet at 3". Highest PID (34ppm) @ 6" - collected sample.	18	6-7'	34.0	3 5 8 9	
	8 9		0-19" medium grey, slight tan mottled SILT, little clay (moist) wet @ 6" & 8" Collected geotech sample	19	NA	14.0	2 5 7 10	
	10							

AECOM

HTW DRILLING LOG

HOLE NO. MW-41B2

PROJECT		SHEET		SHEETS
Former Scott Aviation Facility BCP		2	OF	3
1. LOCATION	21. NAME OF INSPECTOR			
Lancaster, New York	Dino Zack			
2. COMPANY	22. SIGNATURE OF INSPECTOR			
AECOM				

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-17" purple-reddishbrown CLAY, little silt (moist)	17	NA	0.0	2 3 4 6	
	11							
	12		0-24" purple-reddish brown CLAY little silt layer, (moist)	24	NA	0.0	5 6 6 6	
	13							
	14		0-24" reddish brown CLAY, little silt layers (1-2mm thick every 1-2" - wet), (moist)	24	NA	0.0	2 3 5 5	
	15							
	16		0-18" reddish brown to grey CLAY with f. sand and silt interbeds every 2-3" wet at interbeds - clay is moist.	18	NA	0.0	2 4 4 5	
	17							
	18		0-19" reddish brown and grey CLAY with f. sand and silt interbeds (moist) little f-m gravel at bottom of interval.	19	NA	0.0	3 4 5 7	
	19		Collect geotech sample					
	20		0-6" reddish brown and grey CLAY and SILT little f-c sand, trace gravel (wet-moist) 6-15" dark grey SILT and shale fragments some f-c sand, (wet)	15	NA	0.0	1 3 5 4	
	21		Auger Refusal @ 21.5'. Fractured rock 21.5-22'. Competent rock @ 22'					
	22		Rock Socket installed - Bottom of Borehole @ 24.8'					
	23							

AECOM

HTW DRILLING LOG

HOLE NO. MW-41B2

PROJECT	SHEET	OF	SHEETS
Former Scott Aviation Facility BCP	3	OF	3

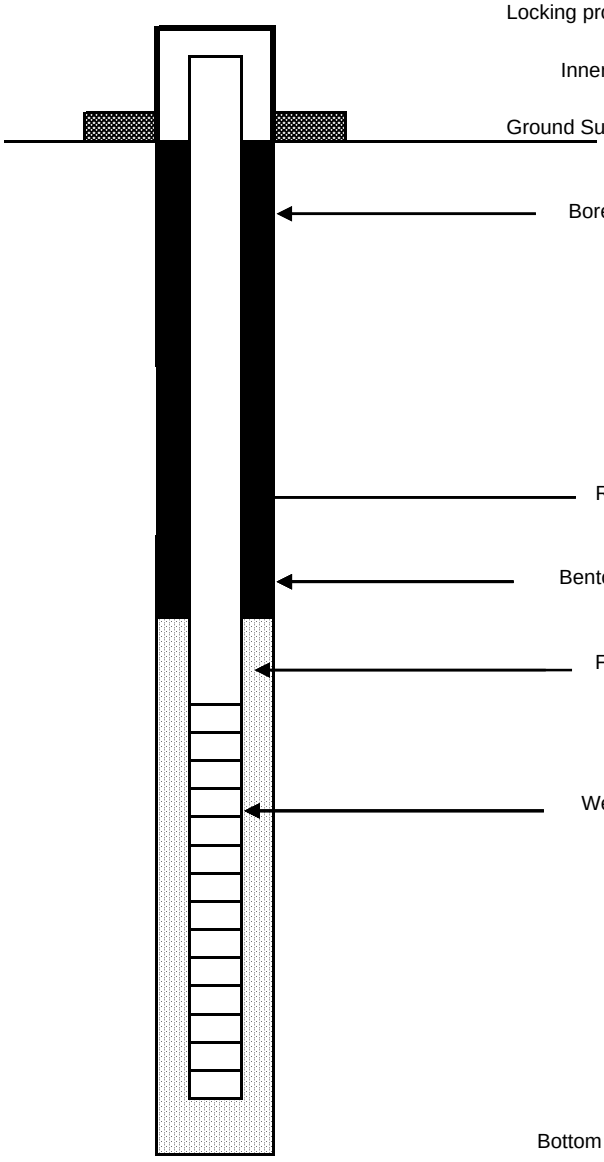
1. LOCATION	21. NAME OF INSPECTOR
Lancaster, New York	Dino Zack
2. COMPANY	**22. SIGNATURE OF INSPECTOR**
AECOM	

ELEV-ATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	24		Run #1 (24.8' - 28.3') Black shale. RQD=79% 3.8" Mechanical break (MB) 5.5" MB 4.25" MB 6.5" MB 2.0" MB 0.5" possible fractured zone 6.0" MB 3.5" MB	33		0.0		
	28		Run #2 (28.3' - 33.3') Black shale. RQD=98% 4.5" MB 7.0" MB 3.0" MB 7.0" MB 1.5" possible fractured zone 3.5" MB 6.0" MB 5.5" MB 9.0" diagonal fracture 8.0" MB 3.7" MB 2" MB	60.7		0.0		
	33		Run #3 (33.3' - 34.8') Black shale. RQD=100% 4.5" MB 7.0" MB 3.0" MB 7.0" MB	21.5		0.0		
	35		Ream corehole with 4" roller bit to 34.8'					
	37							

AECOM

Overburden Well Diagram **Well No. TP-1**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 688.0 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		5.50
Casing Elevation: 688.35 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		dry
Datum: NGVD 1988	Date of Completion: 6/4/2010			



Locking protective stickup with concrete pad, three bollards

Inner casing stickup 0.0 ft to 0.35 ft

Ground Surface

Borehole diameter 4.0 inches
(hand auger)

Riser Pipe from -2.9 ft to 0.35 ft

Bentonite seal from -2.9 ft to 0.0 ft

Filter pack from -5.4 ft to -2.9 ft

Sand Size #0

Well screen from -5.4 ft to -2.9 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -5.4 ft

Bottom of Borehole at -5.4 ft

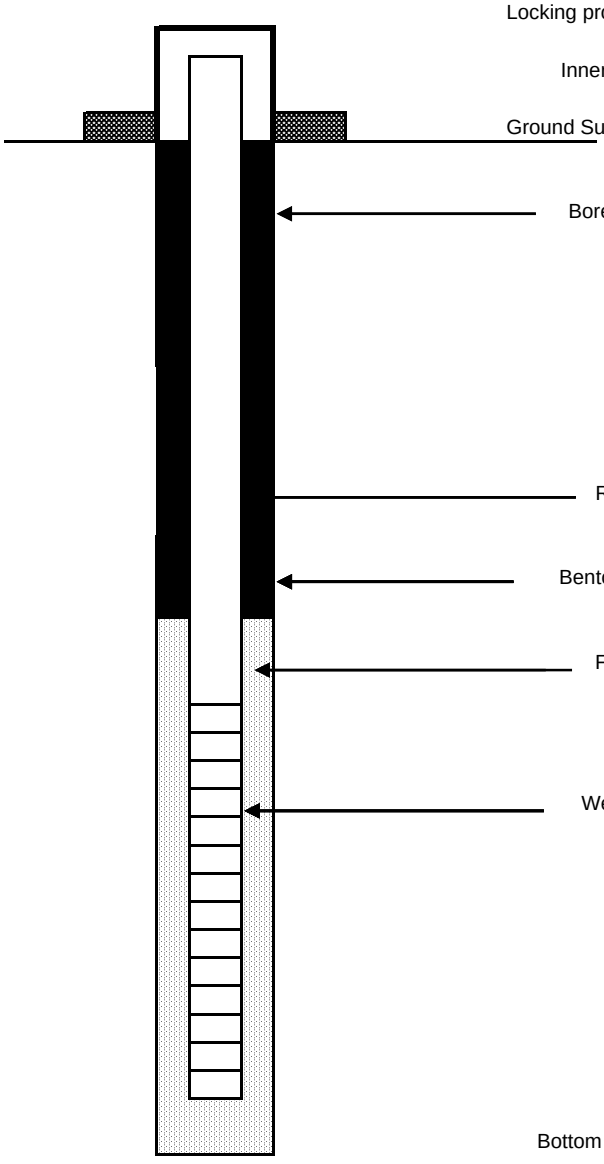
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. TP-2**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.4 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		3.00
Casing Elevation: 688.92 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		4.20
Datum: NGVD 1988	Date of Completion: 6/4/2010			



Locking protective stickup with concrete pad, three bollards

Inner casing stickup 0.0 ft to 1.52 ft

Ground Surface

Borehole diameter 4.0 inches
(hand auger)

Riser Pipe from -1.5 ft to 1.52 ft

Bentonite seal from -1.5 ft to 0.0 ft

Filter pack from -4.0 ft to -1.5 ft

Sand Size #0

Well screen from -4.0 ft to -1.5 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -4.0 ft

Bottom of Borehole at -4.0 ft

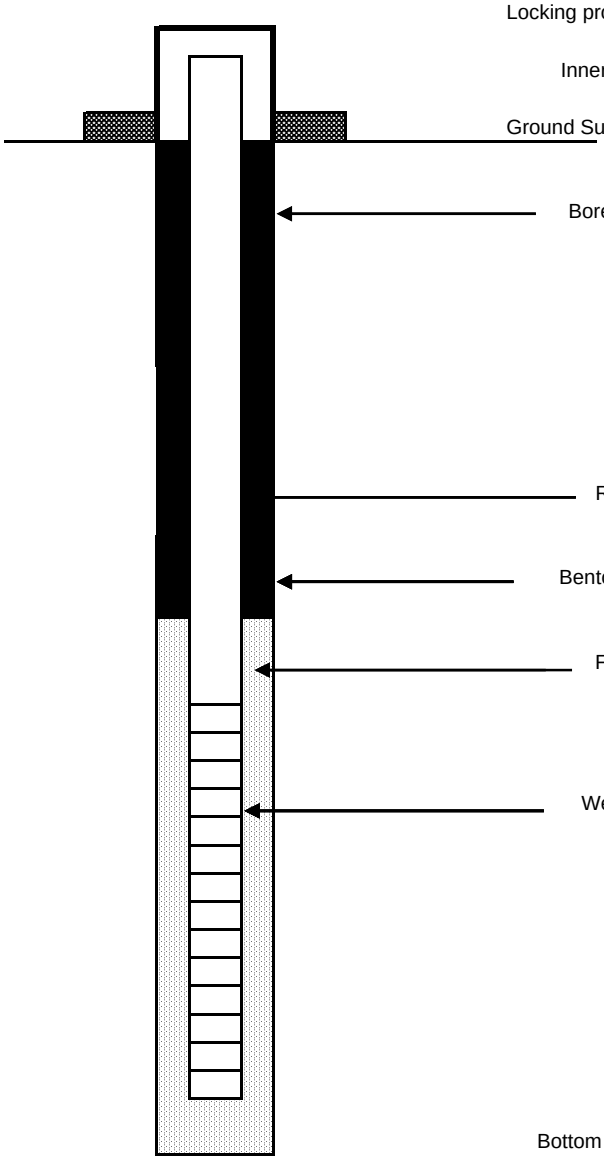
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. TP-3**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.4 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		4.45
Casing Elevation: 688.54 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		dry
Datum: NGVD 1988	Date of Completion: 6/4/2010			



Locking protective stickup with concrete pad, three bollards

Inner casing stickup 0.0 ft to 1.14 ft

Ground Surface

Borehole diameter 4.0 inches
(hand auger)

Riser Pipe from -1.4 ft to 1.14 ft

Bentonite seal from -1.4 ft to 0.0 ft

Filter pack from -3.9 ft to -1.4 ft

Sand Size #0

Well screen from -3.9 ft to -1.4 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -3.9 ft

Bottom of Borehole at -3.9 ft

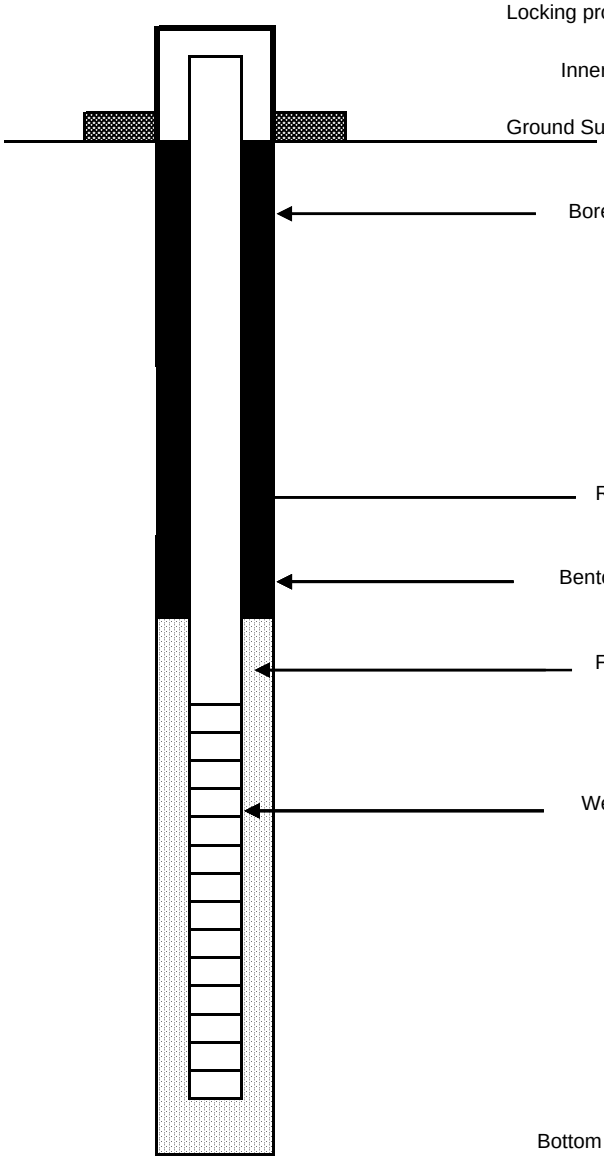
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. TP-4**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.2 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		4.32
Casing Elevation: 689.07 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		dry
Datum: NGVD 1988	Date of Completion: 6/4/2010			



Locking protective stickup with concrete pad, three bollards

Inner casing stickup 0.0 ft to 1.87 ft

Ground Surface

Borehole diameter 4.0 inches
(hand auger)

Riser Pipe from -1.0 ft to 1.87 ft

Bentonite seal from -1.0 ft to 0.0 ft

Filter pack from -3.5 ft to -1.0 ft

Sand Size #0

Well screen from -3.5 ft to -1.0 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -3.5 ft

Bottom of Borehole at -3.5 ft

Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

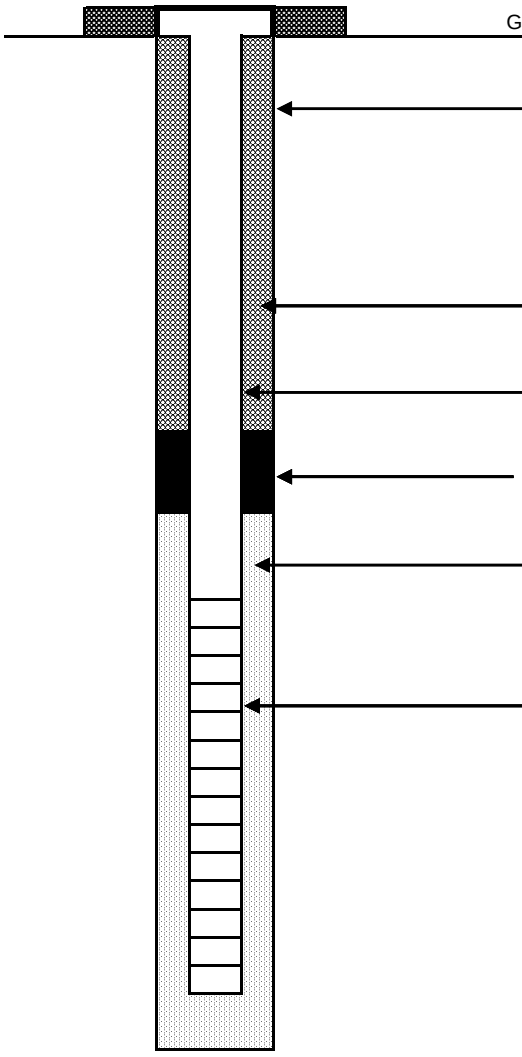
(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. MW-35S**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 689.1 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		1.84
Casing Elevation: 688.56 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		5.7
Datum: NAD83	Date of Completion: 5/26/2010			

Flush mount completion with concrete pad and locking J plug.



Ground Surface

Borehole diameter 8.0 inches
(4.25 inch ID HSA)

Cement-bentonite grout from -2.0 ft to 0.0 ft

Riser Pipe from -5.0 ft to 0.0 ft

Bentonite seal from -4.0 ft to -2.0 ft

Filter pack from -5.0 ft to -4.0 ft

Sand Size #0

Well screen from -15.0 ft to -5.0 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -15.0 ft

Bottom of Borehole at -15.0 ft

Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

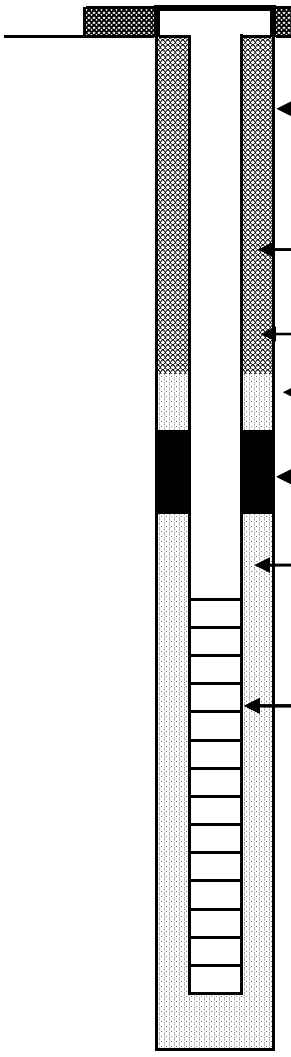
(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. MW-35D**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 688.9 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		8.00
Casing Elevation: 688.40 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		7.77
Datum: NAD83	Date of Completion: 5/26/2010			

Flush mount completion with concrete pad and locking J plug.



Ground Surface

Borehole diameter 8.0 inches
(4.25 inch ID HSA)

Cement-bentonite grout from -17.0 ft to 0.0 ft

Riser Pipe from -21.0 ft to 0.0 ft

Choke sand -18.0 ft to -17.0 ft

Bentonite seal from -20.0 ft to -18.0 ft

Filter pack from -26.0 ft to -20.0 ft

Sand Size #0

Well screen from -26.0 ft to -21.0 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -26.0 ft

Bottom of Borehole at -26.0 ft

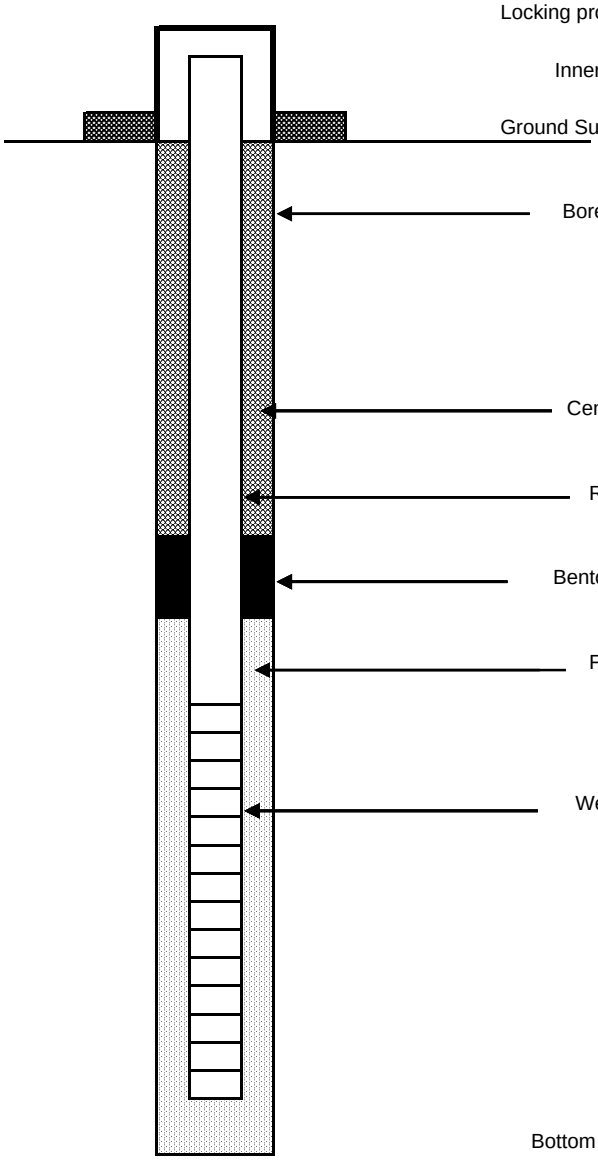
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. MW-36S**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.1 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		3.00
Casing Elevation: 689.82 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		5.25
Datum: NAD83	Date of Completion: 6/4/2010			



Locking protective stickup with concrete pad

Inner casing stickup 0.0 ft to 2.72 ft

Ground Surface

Borehole diameter 8.0 inches
(4.25 inch ID HSA)

Cement-bentonite grout from -2.0 ft to 0.0 ft

Riser Pipe from -5.0 ft to 2.72 ft

Bentonite seal from -4.0 ft to -2.0 ft

Filter pack from -15.0 ft to -4.0 ft

Sand Size #0

Well screen from -15.0 ft to -5.0 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -15.0 ft

Bottom of Borehole at -15.0 ft

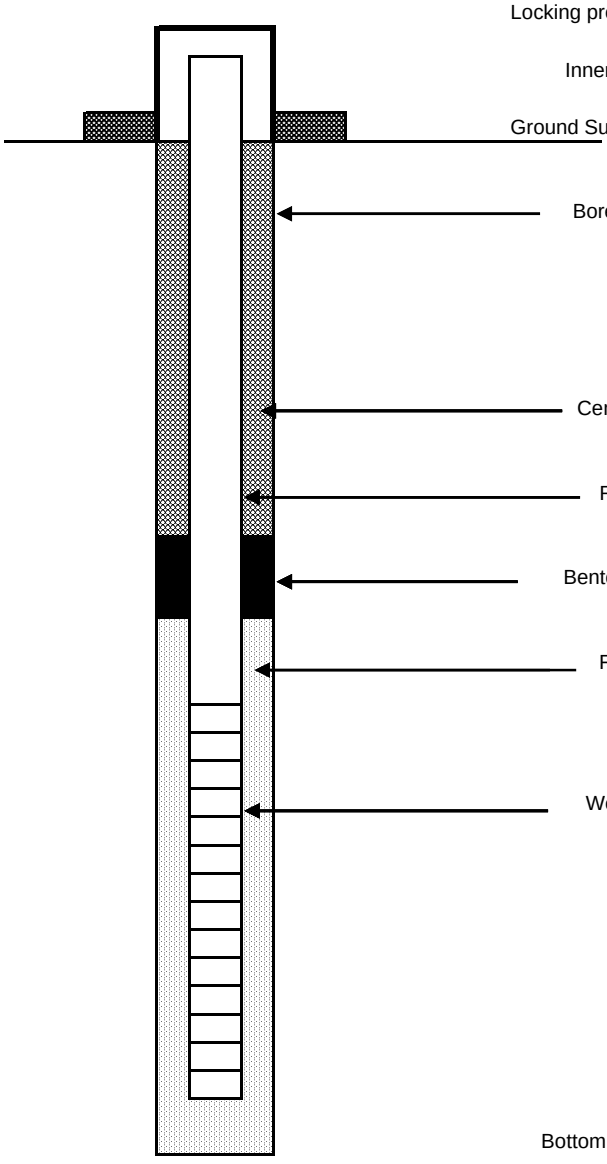
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. MW-36D**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.1 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		5.30
Casing Elevation: 689.66 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		6.08
Datum: NGVD 1988	Date of Completion: 6/4/2010			



Locking protective stickup with concrete pad

Inner casing stickup 0.0 ft to 2.56 ft

Ground Surface

Borehole diameter 8 inches
(4.25 inch ID HSA)

Cement-bentonite grout from -14.0 ft to 0.0 ft

Riser Pipe from -16.0 ft to 2.56 ft

Bentonite seal from -14.0 ft to -16.0 ft

Filter pack from -16.0 ft to -21.0 ft

Sand Size #0

Well screen from -21.0 ft to -16.0 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -21.0 ft

Bottom of Borehole at -21.0 ft

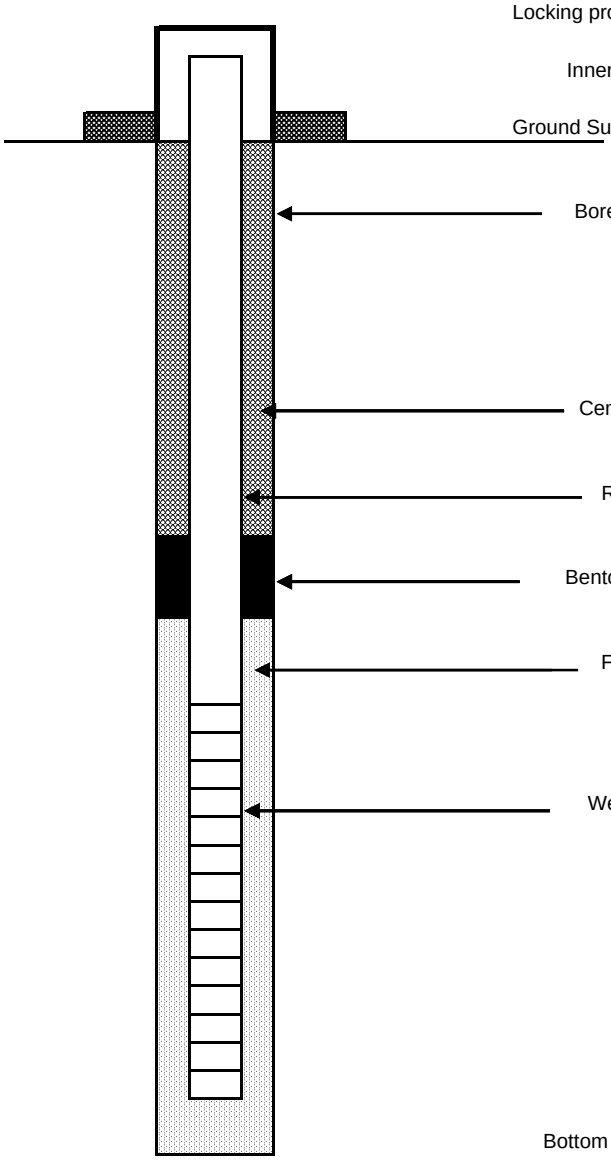
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. MW-37S**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.4 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		3.50
Casing Elevation: 690.10 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		5.25
Datum: NAD83	Date of Completion: 5/28/2010			



Locking protective stickup with concrete pad

Inner casing stickup 0.0 ft to 2.70 ft

Ground Surface

Borehole diameter 8.0 inches
(4.25 inch ID HSA)

Cement-bentonite grout from -2.5 ft to 0.0 ft

Riser Pipe from -4.5 ft to 2.70 ft

Bentonite seal from -4.5 ft to -2.5 ft

Filter pack from -14.5 ft to -4.5 ft

Sand Size #0

Well screen from -14.5 ft to -4.5 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -14.5 ft

Bottom of Borehole at -14.5 ft

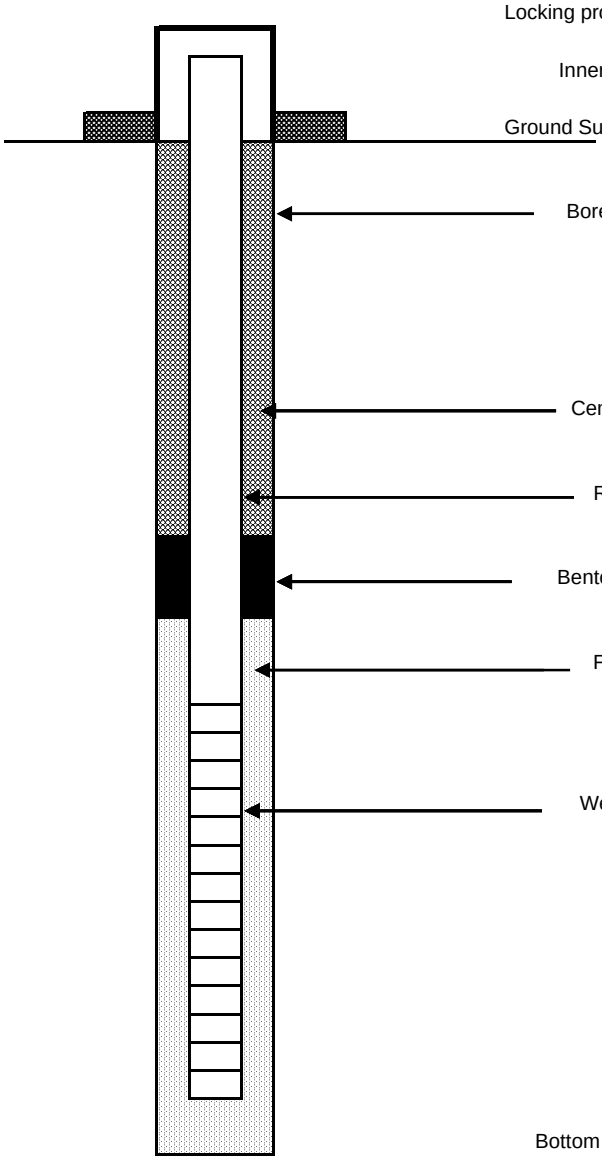
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. MW-37D**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.6 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		4.20
Casing Elevation: 690.05 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		5.30
Datum: NGVD 1988	Date of Completion: 5/28/2010			



Locking protective stickup with concrete pad, three bollards

Inner casing stickup 0.0 ft to 2.45 ft

Ground Surface

Borehole diameter 8.0 inches
(4.25 inch ID HSA)

Cement-bentonite grout from -13.0 ft to 0.0 ft

Riser Pipe from -15.0 ft to 2.45 ft

Bentonite seal from -15.0 ft to -13.0 ft

Filter pack from -20.0 ft to -15.0 ft

Sand Size #0

Well screen from -20.0 ft to -15.0 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -20.0 ft

Bottom of Borehole at -20.0 ft

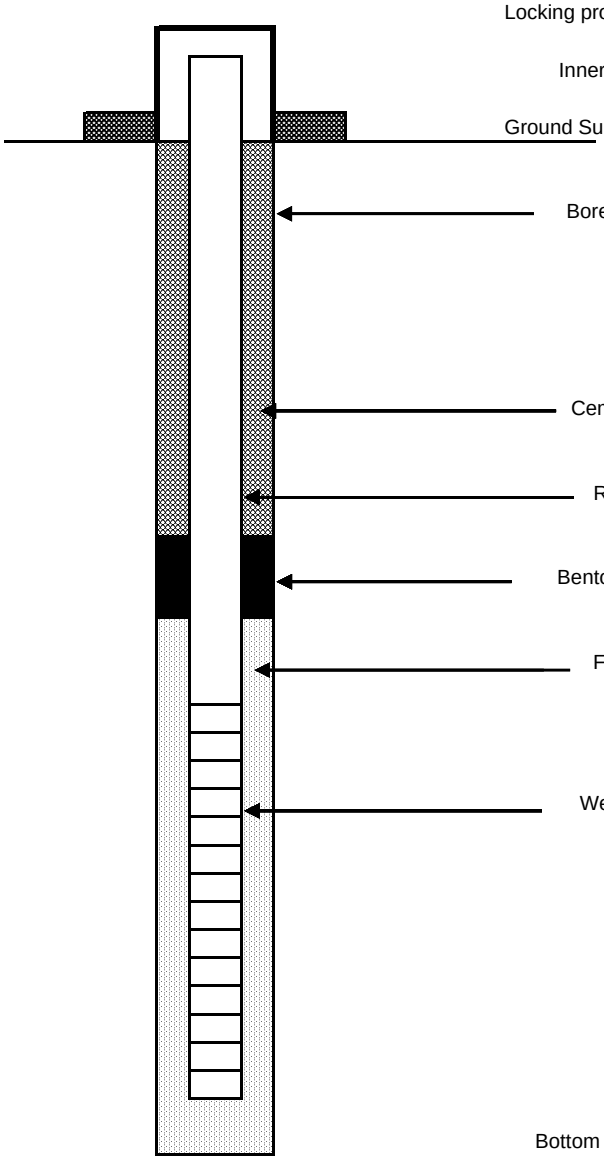
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. MW-38D**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.5 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		5.70
Casing Elevation: 689.66 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		6.28
Datum: NGVD 1988	Date of Completion: 6/3/2010			



Locking protective stickup with concrete pad, three bollards

Inner casing stickup 0.0 ft to 2.16 ft

Ground Surface

Borehole diameter 8.0 inches
(4.25 inch ID HSA)

Cement-bentonite grout from -14.0 ft to 0.0 ft

Riser Pipe from -16.0 ft to 2.16 ft

Bentonite seal from -16.0 ft to -14.0 ft

Filter pack from -21.0 ft to -16.0 ft

Sand Size #0

Well screen from -21.0 ft to -16.0 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -21.0 ft

Bottom of Borehole at -21.0 ft

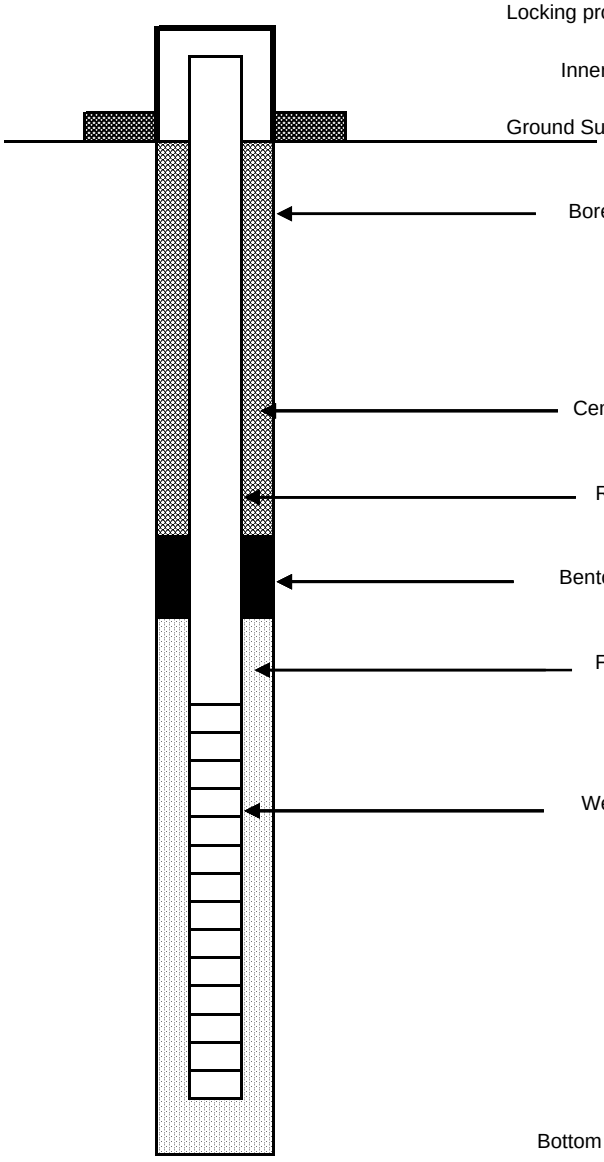
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. MW-39D**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.4 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		3.85
Casing Elevation: 689.72 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		4.94
Datum: NGVD 1988	Date of Completion: 6/3/2010			



Locking protective stickup with concrete pad, three bollards

Inner casing stickup 0.0 ft to 2.32 ft

Ground Surface

Borehole diameter 8.0 inches
(4.25 inch ID HSA)

Cement-bentonite grout from 0.0 ft to -12.0 ft

Riser Pipe from -15.0 ft to 2.32 ft

Bentonite seal from -12.0 ft to -14.0 ft

Filter pack from -14.0 ft to -20.0 ft

Sand Size #0

Well screen from -15.0 ft to -20.0 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -20.0 ft

Bottom of Borehole at -20.0 ft

Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

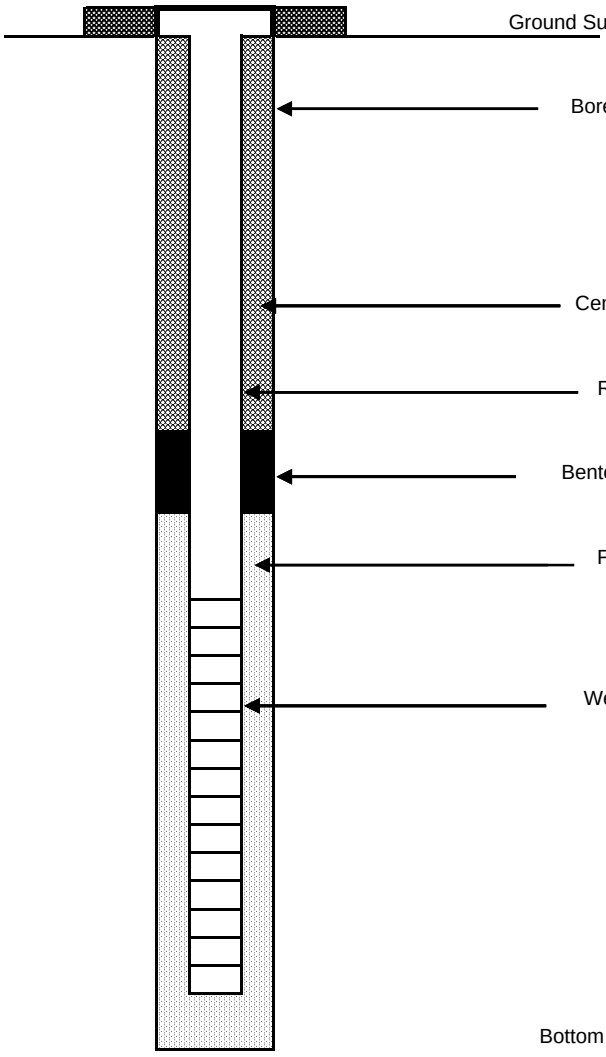
(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. MW-40D**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 689.5 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		3.33
Casing Elevation: 689.19 ft AMSL	AECOM Rep.: Tamara Raby	8/2/10		4.34
Datum: NGVD 1988	Date of Completion: 6/2/2010			

Flush mount completion with concrete pad and locking J plug.



Ground Surface

Borehole diameter 8 inches
(4.25 inch ID HSA)

Cement-bentonite grout from -14.8 ft to 0.0 ft

Riser Pipe from -17.8 ft to 0.0 ft

Bentonite seal from -16.8 ft to -14.8 ft

Filter pack from -22.8 ft to -16.8 ft

Sand Size #0

Well screen from -22.8 ft to -17.8 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -22.8 ft

Bottom of Borehole at -22.8 ft

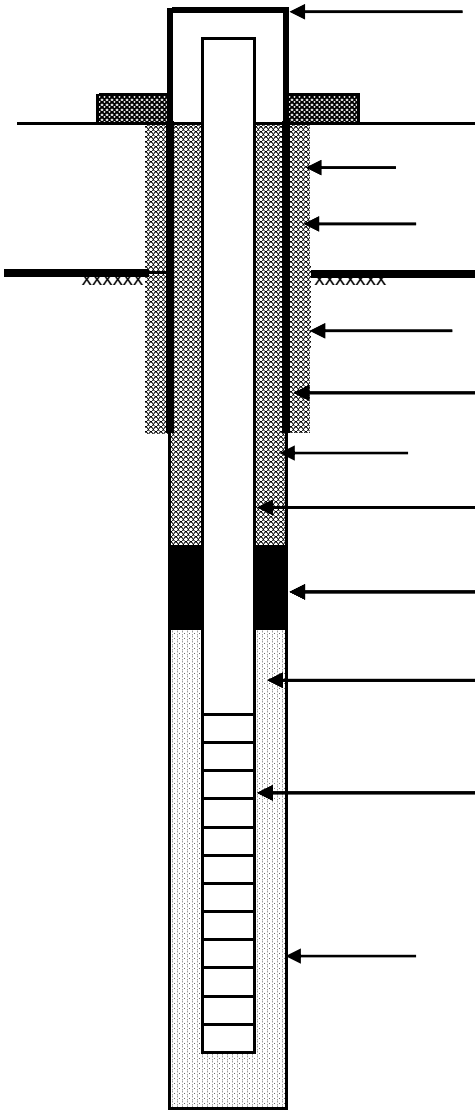
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Bedrock Well Diagram **Well No. MW-41B**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 687.8 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		9.20
Casing Elevation: 689.78 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		9.50
Datum: NGVD 1988	Date of Completion: 6/1/2010			



Locking protective stickup with concrete pad				
Inner casing stickup	0.0	ft to	2.0	ft
Ground Surface				
Overburden borehole diameter	10.25	inches		
Cement-bentonite grout from	-24.8	ft to	0.0	ft
Top of Bedrock	-22.0	ft bgs		
Bedrock socket diameter	10.25	inches		
4-inch ID steel casing	-24.8	ft to	2.22	ft
Cement-bentonite grout from	-22.8	ft to	0.0	ft
Riser Pipe from	-24.8	ft to	1.98	ft
Bentonite seal from	-24.8	ft to	-22.8	ft
Filter pack from	-34.8	ft to	-24.8	ft
Sand Size	#0			
Well screen from	-34.8	ft to	-24.8	ft
Diameter	2	inches		
Slot size	0.01	inches		
Type	PVC			
Bedrock borehole diameter	4.0	inches		
Bottom Cap at	-34.8	ft		
Bottom of Borehole at	-34.8	ft		

Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

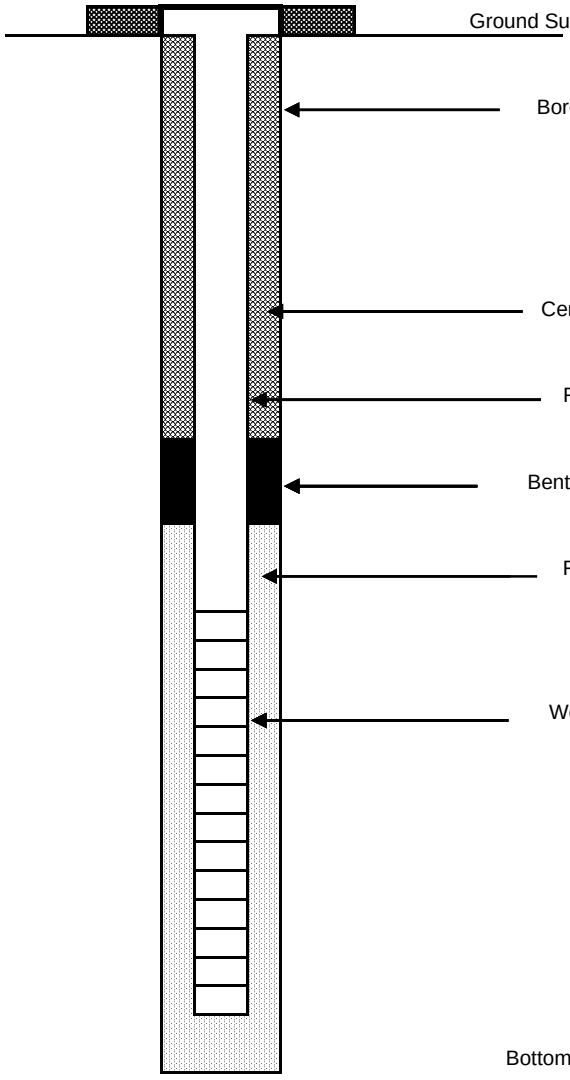
(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. A1-GP12S**

Project: Former Scott Aviation Facility BC	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 689.5 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/18/10		2.28
Casing Elevation: 689.50 ft AMSL	AECOM Rep.: Dino Zack	8/2/10		2.98
Datum: NGVD 1988	Date of Completion: 5/27/2010			

Flush mount completion with concrete pad and locking J plug.



Ground Surface

Borehole diameter 8 inches
(4.25 inch ID HSA)

Cement-bentonite grout from -2.0 ft to 0.0 ft

Riser Pipe from -5.0 ft to 0.0 ft

Bentonite seal from -4.0 ft to -2.0 ft

Filter pack from -5.0 ft to -4.0 ft

Sand Size #0

Well screen from -15.0 ft to -5.0 ft

Diameter 2 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -15.0 ft

Bottom of Borehole at -15.0 ft

Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

Appendix B

Well Development Records

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/8/2010 Date Completed (mo/day/yr): 6/9/2010

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-35S

Investigative Area:

Weather Conditions: Sunny

Air Temperature: 70 °F

Total Well Depth (TWD) = 13.98 1/100 ft

Depth to Ground Water (DGW) = 1.4 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 12.58 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.01 gallons

5 Casing Volumes = 10.06 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 10 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
9:22									1.4	start purging
9:26	1	5	10.21	1.89	6.89	-33	1.018	40/tan	13.4	well drying-recharge
9:50									8.75	start purging
9:52	1	6.5	10.18	4.27	7.06	37.1	1.065	49.3/clearing	13.2	well drying-recharge
6/9/2010									6.9	
9:15	1								6.9	start purging/surge
9:17	1	8.5	10.01	8.76	7.26	42	0.954	20/clear	13.2	well drying
9:20	0.25	9	10.3	6.13	6.88	73.2	1.033	28.3/clear	13.3	well drying
9:25	0.25	10	10.89	7.92	6.82	68.9	1.046	12/clear	13.3	/ell drying/stop purgin

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/8/2010 Date Completed (mo/day/yr): 6/9/2010

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-35D

Investigative Area:

Weather Conditions: Sunny

Air Temperature: 70 °F

Total Well Depth (TWD) = 25.1 1/100 ft

Depth to Ground Water (DGW) = 7.91 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 17.19 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.75 gallons

5 Casing Volumes = 13.75 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 16 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
10:17	1								7.91	start purging
10:20	1	2	11.04	2.86	7.49	-49.8	0.745	56.4/sl turbid		surge well
10:28	1	5	10.81	0.58	7.49	-96.1	0.755	>100/turbid	24.9	well drying-recharge
6/9/2010										
8:54	1								7.05	
8:56	1	7	10.35	0.53	7.61	-46.6	0.51	>100/turbid	17.5	
8:58	1	9	10.55	0.36	7.62	-57.5	0.53	>100/turbid	24.5	well drying
9:05	0.25	11								
6/10/2010									7.48	start purging
8:13	1								7.48	start purging
8:15	1	13	10.46	3.69	7.77	51.1	0.479	473/turbid	16.5	
8:16	1	15	10.59	2.36	7.63	52.6	0.478	60/clearing	20	
8:18	0.5	16	10.74	2.11	7.6	47	0.473	>100/turbid		well dry

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/9/2010 Date Completed (mo/day/yr): 6/9/2010

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-36S

Investigative Area:

Weather Conditions: Rain

Air Temperature: 65 °F

Total Well Depth (TWD) = 18.5 1/100 ft

Depth to Ground Water (DGW) = 2.9 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 15.6 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.50 gallons

5 Casing Volumes = 12.48 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 16 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
8:30	1								2.9	start purging
8:32	1	2	9.38	8.07	7.12	96	1.179	>100/turbid	10.9	surge well
8:35	1	5	9.47	6.52	6.94	99.2	1.173	>100/turbid	13.5	surge well
8:37	1	7	9.05	5.01	6.93	53.4	1.109	431/clearing	17.8	well drying/recharge
11:30	1								9.8	start purging
11:33	1	10	9.12	10.47	7.61	77.5	1.188	75/clear	17.2	surge well
11:35	1	13	9.16	9.74	7.38	60.4	1.199	65/clear	17.8	well drying
11:40	0.25	15	9.64	8.12	7.1	67.9	1.199	45/clear	17.8	well drying
11:42	0.25	15.5	9.91	8.04	7.07	68.2	1.199	44.3/clear	17.8	well drying
11:45	0.25	16	9.99	8.02	7.05	68.3	1.202	36.6/clear	17.8	stop purging

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/9/2010 Date Completed (mo/day/yr): 6/9/2010

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-36D

Investigative Area:

Weather Conditions: Rain

Air Temperature: 65 °F

Total Well Depth (TWD) = 23.3 1/100 ft

Depth to Ground Water (DGW) = 6.54 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 16.76 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.68 gallons

5 Casing Volumes = 13.41 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 14.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
8:13	1								9.15	start purging
8:18	1	5	9.51	7.78	7.32	70.5	0.864	>100/turbid	22.5	surge well
8:20	1	7	9.55	6.97	7.23	74	0.791	>100/turbid	23	well drying/recharge
11:45	1								17.8	start purging
11:49	1	10	9.43	6.28	7.21	65.2	0.677	65	17.8	surge well
11:51	0.25	10.5	9.73	6.04	7.16	70.7	0.785	325/turbid	22.5	well drying
11:53	0.25	11	10.41	6.20	7.16	73	0.729	>100/turbid	22.5	well drying
11:55	0.25	11.5	10.5	6.25	7.16	73.8	0.728	>100/turbid	22.5	stop purging
6/10/2010									6.8	start purging
8:33	1								6.8	surge well
8:35	1	13.5	9.97	7.34	7.2	200.7	0.621	34/clear	17.2	
8:37	0.75	14.5	9.9	7.62	7.19	199.1	0.62	12/clear	22.5	well drying

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/8/2010 Date Completed (mo/day/yr): 6/8/2010

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-37S

Investigative Area:

Weather Conditions: Sunny

Air Temperature: 70 °F

Total Well Depth (TWD) = 17.3 1/100 ft

Depth to Ground Water (DGW) = 2.9 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 14.4 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.30 gallons

5 Casing Volumes = 11.52 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 11 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
13:06	0.5								2.9	start purging
13:08	0.5	1	9.62	3.41	6.78	27.6	0.961	131/turbid	8.98	surge well
13:12	0.5	3	11.29	2.74	6.51	45.8	0.913	188/turbid	9.7	surge well
13:18	0.25	4	11.44	2.52	6.45	42.5	0.788	167/turbid	10.3	battery dead
14:25	1								9.5	start purging
14:28	1	7	9.41	2.19	6.97	51.8	0.868	37/clearing	16.8	surge well
14:30	1	9	9.77	2.49	6.77	58.3	0.994	45/clearing	17	surge well
14:35	0.25	11	9.87	2.67	6.77	59.2	0.995	28/clearing	17.1	well drying

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/8/2010 Date Completed (mo/day/yr): 6/8/2010

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-37D

Investigative Area:

Weather Conditions: Sunny

Air Temperature: 70 °F

Total Well Depth (TWD) = 22.5 1/100 ft

Depth to Ground Water (DGW) = 4.52 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 17.98 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.88 gallons

5 Casing Volumes = 14.38 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 22 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
11:08	0.5								4.52	start purging
11:11	0.5	2.5	9.77	1.03	7.37	-74.5	0.868	>100/turbid	5.9	surge well
11:17	0.5	4	9.94	0.33	7.24	-88.1	0.749	>100/turbid	9	surge well
11:20	0.5	5	10.1	0.28	7.24	-87.7	0.747	>100/turbid	8.9	surge well
11:27	0.5	7.5	9.99	0.74	7.25	-81.6	0.738	>100/turbid	9.2	surge well
11:31	0.5	10	10.03	0.26	7.21	-83	0.735	>100/turbid	8.6	surge well
11:38	0.5	12	9.95	0.30	7.2	-84	0.738	>100/turbid	8.6	surge well
11:47	0.5	15	9.96	1.11	7.25	-84	0.736	>100/turbid	9.1	surge well
11:50	0.5	16.5	9.92	1.07	7.25	-85	0.735	>100/turbid	9	surge well
11:55	0.5	18	9.98	0.55	7.24	-73	0.735	159	8.9	urge well/stop purgin
12:46	0.5	18	9.87	1.78	7.72	-67.1	0.741	310	6.8	start purging
12:56	0.5	20	10.01	0.44	7.39	-70.9	0.735	75	8.4	surge well
13:00	0.5	22	10.02	0.40	7.36	-71.2	0.734	48.1	8.7	urge well/stop purgin

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/9/2010 Date Completed (mo/day/yr):

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-38D

Investigative Area:

Weather Conditions: Rain

Air Temperature: 65 °F

Total Well Depth (TWD) = 22 1/100 ft

Depth to Ground Water (DGW) = 6.92 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 15.08 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.41 gallons

5 Casing Volumes = 12.06 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 14.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
11:02	1								6.92	start purging
11:09	1	7	10.36	2.85	7.25	24.9	0.877	>100/turbid	21.7	well drying
11:11	0.25	8	10.63	3.10	7.22	29.4	0.87	>100/turbid	21.7	well drying
11:14	0.25	9	10.83	3.29	7.2	32.5	0.868	>100/turbid	21.7	well drying/recharge
6/10/2010									10.9	start purging
9:40	1							>100/turbid	10.9	start purging
9:42	1	12	10.04	5.67	7.29	78.7	0.724	~25/clear	21.8	surge
9:44	1	13	9.96	8.05	7.25	83.7	0.741	>100/turbid	21.7	well drying
9:48	0.25	14	11.19	8.05	7.25	86.2	0.749	>100/turbid	21.7	well drying
9:51	0.25	14.5	12.89	7.77	7.26	83.8	0.572	>100/turbid	21.7	stop purging

COMMENTS/OBSERVATIONS: Sheen observed on surface of purge water.

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/9/2010 Date Completed (mo/day/yr): 6/9/2010

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-39D

Investigative Area:

Weather Conditions: Rain

Air Temperature: 65 °F

Total Well Depth (TWD) = 18 1/100 ft

Depth to Ground Water (DGW) = 3.9 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 14.1 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.26 gallons

5 Casing Volumes = 11.28 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 25 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
10:16	1								3.9	start purging
10:18	1	3	9.42	0.87	7.28	-33	0.707	>100/turbid	10.3	surge well
10:25	1	8	9.52	0.16	7.22	-64	0.695	>100/turbid	13.2	surge well
10:28	1	10	9.52	0.16	7.23	-65.7	0.695	>100/turbid	13.7	surge well
10:31	1	15	9.5	0.19	7.3	-71	0.701	>100/turbid	10.5	surge well
10:36	1	20	9.52	0.19	7.32	-75.8	0.701	402/clearing	10.5	surge well
10:40	1	23	9.52	0.20	7.31	-75.9	0.701	330/clearing	10.5	surge well
10:42	1	25	9.52	0.20	7,30	-74.4	0.701	250/clearing	10.5	stop purging

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/10/2010 Date Completed (mo/day/yr): 6/10/2010

Field Personnel: Dino Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-40D

Investigative Area:

Weather Conditions: Cloudy

Air Temperature: 65 °F

Total Well Depth (TWD) = 21.5 1/100 ft

Depth to Ground Water (DGW) = 2.8 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 18.7 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.99 gallons

5 Casing Volumes = 14.96 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 14 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
9:00	1								2.8	start purging
9:02	1	2.5	10.76	1.99	7.24	117.7	0.822	>100/turbid	10	surge well
9:04	1	5	12.34	2.07	7.1	105.3	0.77	230/clearing	18	surge well
9:06	1	7	11.6	2.29	6.97	92.4	0.864	>100/turbid	21.-	surge well/drying
9:10	0.25	8	12	2.45	7	45.9	0.817	376/turbid	21.-	drying/recharge
13:15	1								16.6	
13:16	1	9	11.5	6.17	8.15	19.7	0.667	~25/clear	19.8	surge
13:20	0.5	12	10.76	4.45	7.7	30.5	0.713	~50/sl turbid	20.5	surge
13:25	0.25	13	11.75	6.15	7.25	39.2	0.788	~50/sl turbid	21.-	purge
13:30	0.25	14	11.97	5.98	7.22	39.3	0.789	~50/sl turbid	21.-	stop purging

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/8/2010 Date Completed (mo/day/yr): 2/17/1900

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-41B

Investigative Area:

Weather Conditions: Sunny

Air Temperature: 70 °F

Total Well Depth (TWD) = 35.72 1/100 ft

Depth to Ground Water (DGW) = 9.15 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 26.57 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 4.25 gallons

5 Casing Volumes = 21.26 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 48 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
13:37	1								9.15	start purging
13:39	1	2	11.18	1.65	7.89	-27.4	0.417	>100/turbid	15	surge well
13:42	1	5	11.21	1.20	7.48	-8.7	0.583	>100/turbid	21.5	surge well
13:48	1	8	11.36	0.72	7.37	-12	0.651	>100/turbid	24.9	surge well
13:50	1	10	11.31	0.63	7.37	-14.7	0.66	>100/turbid	27.2	surge well
13:54	1	12	11.49	0.34	7.33	-12.7	0.691	>100/clearing	27.3	surge well
13:58	1	15	11.52	0.33	7.44	-31.8	0.717	>100/clearing	28.7	surge well
14:00										clear cell
14:03	1	17	11.45	0.64	7.6	-45	0.755	481	29.48	surge well
14:10	1	20	11.49	0.25	7.34	-19.4	0.781	294	29.8	surge well
14:15	1	25	11.51	0.28	7.29	-17	0.781	350	29.5	surge well

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/8/2010 Date Completed (mo/day/yr): 6/9/2010

Field Personnel: D.Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: MW-41B

Investigative Area:

Weather Conditions: Sunny

Air Temperature: 70 °F

Total Well Depth (TWD) = 36.72 1/100 ft

Depth to Ground Water (DGW) = 9.15 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 27.57 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 4.41 gallons

5 Casing Volumes = 22.06 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 48 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
6/9/2010	1								8.8	start purging
9:39	1								8.8	start purging
9:42	1	5	10.98	0.37	7.43	1.1	0.8	>100/turbid	19.2	surge
9:46	1	9	11.18	0.26	7.37	-6.4	0.967	>100/clearing	23.3	surge
9:50	1	13	11.19	1.56	7.41	-5.6	0.804	627/turbid	24.7	empty cell
9:52	1	15	11.22	0.25	7.36	-10.9	0.804	575/turbid	24.8	surge
10:00	1	20	11.22	0.22	7.27	-18.3	0.801	312/clearing	25	surge
10:03	1	23	11.23	0.22	7.3	-21	0.8	298/clearing	25	stop purging

COMMENTS/OBSERVATIONS:

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr): 6/10/2010 Date Completed (mo/day/yr): 6/10/2010

Field Personnel: Dino Zack

Site Name: Former Scott Aviation Facility Area 1 - BCP

AECOM Job #: 60155991

Well ID #: A1-GP12S

Investigative Area:

Weather Conditions: Cloudy

Air Temperature: 65 °F

Total Well Depth (TWD) = 18 1/100 ft

Depth to Ground Water (DGW) = 3.65 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 14.35 1/100 ft

1 Casing Volume (OCV) = LWC x 0.16 = 2.30 gallons

5 Casing Volumes = 11.48 gallons

Method of Well Development: Whale pump/surge

Total Volume of Water Removed: 15 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
9:27	1								3.65	start pruging
9:29	1	2	12.73	3.77	7.1	79.3	0.949	>100/turbid	9.2	surge well
9:31	1	5	11.64	2.73	6.77	82	1.376	>100/turbid	12.3	surge well
9:35	0.5	7	11.76	3.87	6.64	97	1.387	>100/turbid	18	well drying/recharge
13:30	1								9.01	start pruging
13:32	1	9	11.98	6.83	7.15	80.8	0.914	~25/clear	13.3	surge well
13:34	0.25	10	11.74	5.41	6.98	53.3	1.159	>50/turbid	14.5	well drying
13:36	0.25	11	11.93	5.19	6.9	45.5	1.136	>50/turbid	14.5	well drying
13:40	0.25	13	12.16	5.27	6.87	43.2	1.105	>50/turbid	14.5	well drying
13:45	0.25	15	12.3	5.86	6.88	42.5	1.102	~25/clearing	14.5	stop purging

COMMENTS/OBSERVATIONS:

Appendix C

Purging and Sampling Records

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/22/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-1S
____ Upgradient ____ Downgradient
Weather Conditions: rain
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 1.3 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 13.7 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 688.96 1/100 ft
Height of Riser (above land surface): 1.16 1/100 ft
Land Surface Elevation: 687.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	13:30	13:35	13:40	13:45	13:50	13:55		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	6.8	6.68	6.59	6.51	6.56	6.56		
Sp. Cond. (S/cm)	1.985	2.073	2.033	1.895	1.906	1.911		
Turbidity (NTUs)	275	485	284	751	382	398		
Dissolved Oxygen (g/L)	5.35	3.87	3.13	2.42	2.23	2.17		
Water Temperature (°C)	16.03	15.71	16.43	16.05	16.07	16.04		
ORP (mV)	62.9	51.5	47.6	49.4	49.9	50.2		

Physical appearance at start: Color: lt brown, turbid; Odor: no
Sheen/Free Product: no

Physical appearance at sampling: Color: lt brown, turbid; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging 13:25. Set tubing at center of well screen. Sample time 14:00.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/22/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-2S
____ Upgradient ____ Downgradient
Weather Conditions: rain
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.12 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 10.88 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed ____ liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.82 1/100 ft
Height of Riser (above land surface): 2.52 1/100 ft
Land Surface Elevation: 687.3 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	12:05	12:10	12:15	12:20	12:25	12:30		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	6.87	6.92	6.92	6.93	6.93	6.93		
Sp. Cond. (S/cm)	1.117	1.111	1.113	1.116	1.117	1.117		
Turbidity (NTUs)	59	55	51	48.2	45.5	46.5		
Dissolved Oxygen (g/L)	4.45	4.2	5.12	6.54	7.01	7.31		
Water Temperature (°C)	16.74	17.31	17.87	18.32	18.42	18.4		
ORP (mV)	65.6	56.1	51.2	49.2	48.1	47.1		

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 12:00. Well drying at 12:15. Sample at 12:35.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-3S
____ Upgradient ____ Downgradient
Weather Conditions: Sun and clouds
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.6 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.4 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.70 1/100 ft
Height of Riser (above land surface): 1.90 1/100 ft
Land Surface Elevation: 688.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	100	
Time (Military)	13:50	13:55	14:00	14:05	14:10	14:15	14:20	
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	
pH (S.U.)	7.28	7.17	7	6.97	6.92	NA	6.95	
Sp. Cond. (S/cm)	1.126	1.182	1.214	1.215	1.227	NA	1.237	
Turbidity (NTUs)	331	665	560	534	447	NA	433	
Dissolved Oxygen (g/L)	2.8	3.05	4.58	4.76	5.96	NA	5.98	
Water Temperature (°C)	14.47	15.43	15.45	15.11	15.17	NA	15.27	
ORP (mV)	6	8.6	5.8	2.2	1.9	NA	-2.5	

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging a13:45. Well drying at 13:55; lower tubing. Lower tubing at 14:10. Well dry at 14:13. Recahrge. Sample collected at 14:25

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-4S
Upgradient ____ Downgradient ____
Weather Conditions: Rain
Air Temperature: 70 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.8 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 10.2 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.46 1/100 ft
Height of Riser (above land surface): 2.76 1/100 ft
Land Surface Elevation: 687.7 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	100	
Time (Military)	9:05	9:10	9:15	9:20	9:25	9:30	9:35	
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	
pH (S.U.)	7.14	7.06	7	7.01	NA	NA	7.02	
Sp. Cond. (S/cm)	1.15	1.143	1.123	1.11	NA	NA	1.11	
Turbidity (NTUs)	71.8	55	43	49	NA	NA	107	
Dissolved Oxygen (g/L)	2.34	1.44	1.09	1.98	NA	NA	2.11	
Water Temperature (°C)	13.52	13.36	12.82	13.34	NA	NA	14.35	
ORP (mV)	35.2	20.3	-37.3	-49.2	NA	NA	-51.5	

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 09:02. Well drying at 09:20. Recharge. Collect samples at 09:45.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-5S
____ Upgradient ____ Downgradient
Weather Conditions: Rain
Air Temperature: 70 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.8 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 10.2 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.38 1/100 ft
Height of Riser (above land surface): 2.78 1/100 ft
Land Surface Elevation: 687.6 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	15:25	15:30	15:35	15:40	15:45			
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA			
Drawdown (ft)	NA	NA	NA	NA	NA			
pH (S.U.)	7.30	7.29	7.21	7.20	7.20			
Sp. Cond. (mS/cm)	0.864	0.869	0.871	0.876	0.876			
Turbidity (NTUs)	15.2	28.9	165.1	139.5	129.3			
Dissolved Oxygen (mg/L)	1.56	2.98	3.64	4.21	4.58			
Water Temperature (°C)	13.58	13.98	13.74	13.76	13.79			
ORP (mV)	-73.2	-70.1	-68.4	-61.5	-60.1			

Physical appearance at start — Color: tannish cloudy; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: sl turbid; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 09:02. Well drying. Collect samples at 15:50.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-6S
____ Upgradient ____ Downgradient
Weather Conditions: Rain
Air Temperature: 70 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.4 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.6 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 687.71 1/100 ft
Height of Riser (above land surface): -0.09 1/100 ft
Land Surface Elevation: 687.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	17:00	17:05	17:10	17:15	17:20	17:25		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	7.24	6.97	6.83	6.84	6.89	6.88		
Sp. Cond. (mS/cm)	0.658	0.663	0.735	0.749	0.75	0.752		
Turbidity (NTUs)	18.1	79.2	83.3	95	87.3	64.1		
Dissolved Oxygen (mg/L)	4.77	1.79	2.95	2.99	3.21	3.45		
Water Temperature (°C)	17.37	14.86	16.03	16.42	16.83	16.99		
ORP (mV)	36.1	44.9	63.2	73.2	81.6	83.7		

Physical appearance at start: Color clear; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color tan/turbid; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 16:57. Well drying at 17:20. Collect samples at 17:30.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/22/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-7S
____ Upgradient ____ Downgradient
Weather Conditions: Cloudy
Air Temperature: 70 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.1 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.9 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.47 1/100 ft
Height of Riser (above land surface): 2.97 1/100 ft
Land Surface Elevation: 687.5 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	8:30	8:35	8:40	8:45	8:50	8:55		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	7.6	7.41	7.13	7	7.03	7.01		
Sp. Cond. (S/cm)	0.929	0.898	0.9	0.933	0.93	0.93		
Turbidity (NTUs)	41.5	33.2	458	423	412	401		
Dissolved Oxygen (g/L)	2.74	2.1	1.59	1.67	1.66	1.89		
Water Temperature (°C)	14.05	14.09	13.96	13.9	14.14	14.3		
ORP (mV)	79	80.8	84.1	22	4.8	2		

Physical appearance at start: Color clear; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color tan-turbid; Odor no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 08:27. Turbidity increasing at 08:36. Well drying at 08:42. Collect samples at 09:00hrs.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/22/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-8S
____ Upgradient ____ Downgradient
Weather Conditions: Heavy rain
Air Temperature: 70 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.61 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.39 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.68 1/100 ft
Height of Riser (above land surface): 3.18 1/100 ft
Land Surface Elevation: 686.5 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	9:55	10:00	10:05	10:10	10:15	10:20		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	7.13	6.97	6.86	6.81	6.76	6.64		
Sp. Cond. (S/cm)	0.799	0.791	0.759	0.739	0.725	0.707		
Turbidity (NTUs)	91.7	57.7	33.2	19.3	6.2	3.2		
Dissolved Oxygen (g/L)	3.22	1.97	1.89	1.93	1.76	1.59		
Water Temperature (°C)	13.77	13.89	13.99	14.01	13.89	13.72		
ORP (mV)	-23.6	-19	-21.3	-21.3	-20.1	-18		

Physical appearance at start: Color clear; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color clear; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 9:52. Collect samples at 10:25.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/22/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-9S
____ Upgradient ____ Downgradient
Weather Conditions: Heavy rain
Air Temperature: 70 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.1 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 10.9 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.36 1/100 ft
Height of Riser (above land surface): 2.56 1/100 ft
Land Surface Elevation: 686.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	10:30	10:35	10:40	10:45	10:50	10:55		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	7.08	6.91	6.82	6.59	6.54	6.53		
Sp. Cond. (mS/cm)	0.616	0.599	0.598	0.596	0.594	0.593		
Turbidity (NTUs)	391	437	387	275	212	220		
Dissolved Oxygen (mg/L)	1.16	0.81	0.75	0.69	0.62	0.57		
Water Temperature (°C)	12.85	13.01	13.21	13.43	13.11	13.12		
ORP (mV)	-37.1	-36.7	-39.2	-41.9	-43.8	-46.2		

Physical appearance at start — Color: tan/turbid; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 10:25. Sample time at 11:00.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-10S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 2.7 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 12.3 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.10 1/100 ft
Height of Riser (above land surface): -0.10 1/100 ft
Land Surface Elevation: 689.2 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	10:50	10:55	11:00	11:05	11:10	11:15		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	6.75	6.7	6.51	6.55	NA	6.57		
Sp. Cond. (mS/cm)	1.066	0.929	1.204	1.182	NA	1.171		
Turbidity (NTUs)	27.8	166	323	478	NA	473		
Dissolved Oxygen (mg/L)	3.07	2.8	3.37	4.71	NA	5.08		
Water Temperature (°C)	14.83	15.21	16.05	16.61	NA	17.45		
ORP (mV)	7.9	11.2	9.4	3.1	NA	1.9		

Physical appearance at start: Color clear; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color turbid; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start puring at 10:47. Well drying at 11:05. Allow to recharge. Samples collected at 11:20.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-11S
Upgradient ____ Downgradient ____
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.35 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 10.65 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.34 1/100 ft
Height of Riser (above land surface): -0.06 1/100 ft
Land Surface Elevation: 689.4 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	12:35	12:40	12:45	12:50	12:55	13:00		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	6.82	6.67	6.59	6.58	NA	6.58		
Sp. Cond. (S/cm)	1.734	1.725	1.78	1.789	NA	1.788		
Turbidity (NTUs)	160	152	940	990	NA	976		
Dissolved Oxygen (g/L)	2.99	2.26	2.53	2.67	NA	3.13		
Water Temperature (°C)	17.6	17.55	17.21	17.58	NA	17.99		
ORP (mV)	-14.2	-19.4	-12.8	-15.8	NA	-19.7		

Physical appearance at start: Color: turbid; Odor: no
Sheen/Free Product: no

Physical appearance at sampling: Color: turbid; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 12:32. Purge water increasing in turbidity. Well drying at 12:50, allow to recharge. Sample at 13:05.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-12S
Upgradient ____ Downgradient ____
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.0 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 12.0 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.5 1/100 ft
Height of Riser (above land surface): 0.00 1/100 ft
Land Surface Elevation: 689.5 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	100	
Time (Military)	11:20	11:25	11:30	11:35	11:40	11:45	11:50	
Depth to Groundwater Below Top of Casing (ft)	3.8	4.3	4.84	4.95	4.98	5	5.01	
Drawdown (ft)	-0.8	-0.5	-0.54	-0.11	-0.03	-0.02	-0.01	
pH (S.U.)	6.85	6.7	6.64	6.62	6.61	6.61	6.6	
Sp. Cond. (S/cm)	0.97	0.968	0.949	0.939	0.928	0.927	0.927	
Turbidity (NTUs)	42.9	6.5	3.23	2.71	1.81	1.71	1.68	
Dissolved Oxygen (g/L)	5.62	4.91	5.58	5.8	5.76	5.78	5.77	
Water Temperature (°C)	17.13	17.09	17.63	18.05	18.17	18.21	18.29	
ORP (mV)	88.2	103	106.4	110.4	118.4	120	122.2	

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 10:55. Sample time at 11:40.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-13S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.5 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.5 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.69 1/100 ft
Height of Riser (above land surface): -0.11 1/100 ft
Land Surface Elevation: 689.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	9:25	9:30	9:35	9:40	9:45			
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA			
Drawdown (ft)	NA	NA	NA	NA	NA			
pH (S.U.)	6.91	6.71	6.58	6.56	6.57			
Sp. Cond. (S/cm)	1.068	1.074	1.105	1.111	1.093			
Turbidity (NTUs)	36.4	29	28.4	22.3	22.1			
Dissolved Oxygen (g/L)	3.38	2.27	2.09	1.69	1.5			
Water Temperature (°C)	16.66	17.11	17.04	16.3	16.63			
ORP (mV)	-52.7	-58.9	-57.1	-55.6	-56			

Physical appearance at start — Color: clear; Odor: no; Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no; Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 9:23. Well drying at 9:40, lower tubing. Samples collected at 9:50.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-14S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 75 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 2.56 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 12.44 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.43 1/100 ft
Height of Riser (above land surface): -0.27 1/100 ft
Land Surface Elevation: 689.7 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	8:00	8:05	8:10	8:15	8:20	8:25		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	6.12	6.55	5.67	6.58	6.59	5.59		
Sp. Cond. (mS/cm)	1.09	0.998	0.991	1.001	1.03	1.04		
Turbidity (NTUs)	85	47.6	38.3	29.3	27	24		
Dissolved Oxygen (mg/L)	1.78	1.84	1.64	1.43	1.32	1.3		
Water Temperature (°C)	15.82	17.25	17.26	16.83	16.9	17.4		
ORP (mV)	-56.7	-64.8	-63.2	-61.2	-60.7	-59.5		

Physical appearance at start — Color: clear; Odor: no; Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no; Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging 07:57. Collect samples at 08:30.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
Earth Tech Job #: **60155991**
Well ID #: GP-15S
____ Upgradient ____ Downgradient
Weather Conditions: cloudy
Air Temperature: 65 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 0.54 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 14.46 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 687.69 1/100 ft
Height of Riser (above land surface): -0.31 1/100 ft
Land Surface Elevation: 688.0 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	10:45	10:50	10:55	11:00	11:05			
Depth to Groundwater Below Top of Casing (ft)	7.1	9.39	10.6	NA	NA			
Drawdown (ft)	6.56	2.29	1.21	NA	NA			
pH (S.U.)	6.99	6.84	6.83	6.87	6.88			
Sp. Cond. (mS/cm)	0.687	0.656	0.658	0.657	0.657			
Turbidity (NTUs)	55.9	62.5	38.7	21.7	18.5			
Dissolved Oxygen (mg/L)	5.9	4.86	4.94	4.06	3.94			
Water Temperature (°C)	13.22	13.26	13.35	12.77	12.88			
ORP (mV)	38.2	40.8	44.1	4.2	1.1			

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 10:42. Well drying at 11:05. Allow well to recharge and collect samples at 11:10.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-16S
____ Upgradient ____ Downgradient
Weather Conditions: sun and clouds
Air Temperature: 70 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.0 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 12.0 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 698.86 1/100 ft
Height of Riser (above land surface): 12.26 1/100 ft
Land Surface Elevation: 686.6 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	100	
Time (Military)	11:35	11:40	11:45	11:50	11:55	12:00	12:05	
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	
pH (S.U.)	6.92	6.94	6.62	6.6	6.59	6.58	6.58	
Sp. Cond. (mS/cm)	0.956	0.932	0.978	0.997	1.002	1.002	1.003	
Turbidity (NTUs)	135	122	120	160	175	131	125	
Dissolved Oxygen (mg/L)	8.08	6.58	6.14	6.52	6.58	6.53	6.63	
Water Temperature (°C)	13.41	12.58	12.98	12.91	12.93	12.86	12.84	
ORP (mV)	-25.6	-28.8	-35.4	-36.8	-37.8	-39.1	-39.4	

Physical appearance at start: Color: Slightly turbid; Odor: no
Sheen/Free Product: no

Physical appearance at sampling: Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 11:33. Samples collected at 12:10.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 06/17/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-17S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 75
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.25 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.75 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 4 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.11 1/100 ft
Height of Riser (above land surface): 3.11 1/100 ft
Land Surface Elevation: 687.0 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	100	100
Time (Military)	15:25	15:30	15:35	15:40	15:45	15:50	15:55	16:00
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	NA
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	7.23	6.92	6.62	6.58	6.57	6.56	6.54	6.54
Sp. Cond. (mS/cm)	1.028	1.034	1.048	1.046	1.045	1.044	1.04	1.043
Turbidity (NTUs)	56.7	140	628	231	124	117	76	65
Dissolved Oxygen (mg/L)	5.95	5.65	5.2	5.58	5.67	4.85	4.2	4.93
Water Temperature (°C)	13.35	13.51	13.78	13.33	13.85	13.97	13.94	13.52
ORP (mV)	58.7	104	156	160.7	163.2	167.6	170.3	171.4

Physical appearance at start — Color: light tan; Odor: no; Sheen/Free Product: no

Physical appearance at sampling — Color: light tan; Odor: no; Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 15:22. Samples collected at 16:05.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 06/18/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-18S
____ Upgradient ____ Downgradient
Weather Conditions: Suny
Air Temperature: 73 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.12 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 10.88 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.37 1/100 ft
Height of Riser (above land surface): 2.87 1/100 ft
Land Surface Elevation: 687.5 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	10:10	10:15	10:20	10:25	10:30	10:35		
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA		
Drawdown (ft)	NA	NA	NA	NA	NA	NA		
pH (S.U.)	7.08	7.04	6.97	6.95	6.93	6.95		
Sp. Cond. (mS/cm)	0.716	0.72	0.73	0.739	0.742	0.737		
Turbidity (NTUs)	10.83	41	38	32.2	35.3	30		
Dissolved Oxygen (mg/L)	6.51	6.35	6.15	7.78	6.98	6.28		
Water Temperature (°C)	13.1	13.1	13.03	13.39	13.28	13.31		
ORP (mV)	70.6	65.4	54.3	38.5	37.5	36.3		

Physical appearance at start — Color: Clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: Clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 10:06. Well drying at 10:30. Collect samples at 10:40.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: TP-1
____ Upgradient ____ Downgradient
Weather Conditions: Cloudy
Air Temperature: 60 ° F
Total Depth (TWD) Below Top of Casing = 5.76 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.2 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 0.56 1/100 ft
1 Casing Volume (OCV) = LWC x ____ = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed ____ liter

Casing Diameter: 1 inches
Casing Material: PVC
Measuring Point Elevation: 688.35 1/100 ft
Height of Riser (above land surface): 0.35 1/100 ft
Land Surface Elevation: 688.0 1/100 ft
Screened Interval (below land surface): 2.5' screen 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	NA	NA	NA	NA	NA	NA	NA	NA
Time (Military)	NA	NA	NA	NA	NA	NA	NA	NA
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	NA
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NA	NA	NA	NA	NA	NA	NA	NA
Sp. Cond. (mS/cm)	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA
Water Temperature (°C)	NA	NA	NA	NA	NA	NA	NA	NA
ORP (mV)	NA	NA	NA	NA	NA	NA	NA	NA

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Samples collected at 10:20.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: TP-2
____ Upgradient ____ Downgradient
Weather Conditions: Cloudy
Air Temperature: 60 ° F
Total Depth (TWD) Below Top of Casing = 5.5 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.00 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 2.50 1/100 ft
1 Casing Volume (OCV) = LWC x ____ = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: ____ liter

Casing Diameter: 1 inches
Casing Material: PVC
Measuring Point Elevation: 688.92 1/100 ft
Height of Riser (above land surface): 1.52 1/100 ft
Land Surface Elevation: 687.4 1/100 ft
Screened Interval (below land surface): 2.5' screen 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	NA	NA	NA	NA	NA	NA	NA	NA
Time (Military)	NA	NA	NA	NA	NA	NA	NA	NA
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	NA
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NA	NA	NA	NA	NA	NA	NA	NA
Sp. Cond. (mS/cm)	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA
Water Temperature (°C)	NA	NA	NA	NA	NA	NA	NA	NA
ORP (mV)	NA	NA	NA	NA	NA	NA	NA	NA

Physical appearance at start — Color: clear; Odor: no; Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no; Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Samples collected at 10:25.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: TP-3
____ Upgradient ____ Downgradient
Weather Conditions: Cloudy
Air Temperature: 60 ° F
Total Depth (TWD) Below Top of Casing = 5.05 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.45 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 0.6 1/100 ft
1 Casing Volume (OCV) = LWC x ____ = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: ____ liter

Casing Diameter: 1.00 inches
Casing Material: PVC
Measuring Point Elevation: 688.54 1/100 ft
Height of Riser (above land surface): 1.14 1/100 ft
Land Surface Elevation: 687.4 1/100 ft
Screened Interval (below land surface): 2.5' screen 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	NA	NA	NA	NA	NA	NA	NA	NA
Time (Military)	NA	NA	NA	NA	NA	NA	NA	NA
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	NA
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NA	NA	NA	NA	NA	NA	NA	NA
Sp. Cond. (mS/cm)	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA
Water Temperature (°C)	NA	NA	NA	NA	NA	NA	NA	NA
ORP (mV)	NA	NA	NA	NA	NA	NA	NA	NA

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Samples collected at 10:30.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: TP-4
Upgradient ____ Downgradient ____
Weather Conditions: Cloudy
Air Temperature: 60 ° F
Total Depth (TWD) Below Top of Casing = 4.78 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.32 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 0.46 1/100 ft
1 Casing Volume (OCV) = LWC x ____ = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed ____ liter

Casing Diameter: 1.00 inches
Casing Material: PVC
Measuring Point Elevation: 689.07 1/100 ft
Height of Riser (above land surface): 1.87 1/100 ft
Land Surface Elevation: 687.2 1/100 ft
Screened Interval (below land surface): 2.5' screen 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	NA	NA	NA	NA	NA	NA	NA	NA
Time (Military)	NA	NA	NA	NA	NA	NA	NA	NA
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	NA
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NA	NA	NA	NA	NA	NA	NA	NA
Sp. Cond. (mS/cm)	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA
Water Temperature (°C)	NA	NA	NA	NA	NA	NA	NA	NA
ORP (mV)	NA	NA	NA	NA	NA	NA	NA	NA

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Samples collected at 10:35.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/18/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-30
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = ____ 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.09 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.69 1/100 ft
Height of Riser (above land surface): -0.11 1/100 ft
Land Surface Elevation: 689.8 1/100 ft
Screened Interval (below land surface): ____ 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	100	
Time (Military)	11:25	11:30	11:35	11:40	11:45	11:50	11:55	
Depth to Groundwater Below Top of Casing (ft)	4.4	5.3	6.15	6.85	7.31	7.55	7.8	
Drawdown (ft)	-1.31	-0.9	-0.85	-0.7	-0.46	-0.24	-0.25	
pH (S.U.)	7.18	7.15	7.1	7.1	7.09	7.08	7.08	
Sp. Cond. (mS/cm)	0.95	0.949	0.942	0.934	0.928	0.923	0.922	
Turbidity (NTUs)	7.1	7.69	16.5	13.5	14.3	15.36	16.44	
Dissolved Oxygen (mg/L)	6.12	6.49	6.29	3.65	3.6	3.18	3.16	
Water Temperature (°C)	16.49	16.72	17.4	17.85	17.95	17.91	17.84	
ORP (mV)	-81.2	-82.9	-86.9	-90.5	-90.1	89.6	-90.7	

Physical appearance at start — Color: clear with Fe bact. — Odor: no — Sheen/Free Product: no

Physical appearance at sampling — Color: clear with Fe bact. — Odor: no — Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 11:23. Samples collected at 12:00.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM: **60155991**
Well ID #: MW-35S
____ Upgradient ____ Downgradient
Weather Conditions: cloudy, breezy
Air Temperature: 60 ° F
Total Depth (TWD) Below Top of Casing = 14.5 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 1.58 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 12.92 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 688.56 1/100 ft
Height of Riser (above land surface): -0.54 1/100 ft
Land Surface Elevation: 689.1 1/100 ft
Screened Interval (below land surface): 4.5-14.5 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	200	200	200	100	100	100		
Time (Military)	9:45	9:50	9:55	10:00	10:05	10:10		
Depth to Groundwater Below Top of Casing (ft)	2.5	3.45	4.34	4.61	4.71	4.9		
Drawdown (ft)	0.92	-0.95	-0.89	-0.27	-0.1	-0.19		
pH (S.U.)	6.11	6.31	6.41	6.47	6.48	6.49		
Sp. Cond. (mS/cm)	0.961	0.955	0.954	0.955	0.955	0.955		
Turbidity (NTUs)	3.6	4.5	2.9	1.9	1.6	1.6		
Dissolved Oxygen (mg/L)	9.97	9.91	9.69	9.53	9.69	9.72		
Water Temperature (°C)	12.36	12.51	12.65	13	13.1	13.17		
ORP (mV)	166	158.5	150	146.7	145.5	145.5		

Physical appearance at start: Color clear; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color clear; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 9:42. Samples collected at 10:15.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-35D
____ Upgradient ____ Downgradient
Weather Conditions: Cloudy
Air Temperature: 60 ° F
Total Depth (TWD) Below Top of Casing = 26 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 8.14 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 17.86 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 5.25 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 698.66 1/100 ft
Height of Riser (above land surface): 2.83 1/100 ft
Land Surface Elevation: 687.1 1/100 ft
Screened Interval (below land surface): 21-26 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	175	175	200	100	100	100	100	
Time (Military)	9:00	9:05	9:10	9:15	9:20	9:25	9:30	
Depth to Groundwater Below Top of Casing (ft)	9.7	10.4	11.48	12.4	12.7	12.9	13.2	
Drawdown (ft)	-1.56	-0.7	-1.08	-0.92	-0.3	-0.2	-0.3	
pH (S.U.)	8.56	8.51	8.44	8.37	8.36	8.34	8.32	
Sp. Cond. (mS/cm)	0.5	0.499	0.496	0.493	0.492	0.493	0.492	
Turbidity (NTUs)	28.6	28.1	27.4	25.7	25.2	25	24.8	
Dissolved Oxygen (mg/L)	3.07	2.43	2.21	2.44	2.54	2.33	2.27	
Water Temperature (°C)	11.19	11.02	11.11	11.4	11.54	11.52	11.57	
ORP (mV)	42.6	44.3	50.4	56.2	57.3	60	61.4	

Physical appearance at start: Color clear; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color clear; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 08:55. Samples collected at 09:35.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 06/17/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-36S
____ Upgradient ____ Downgradient
Weather Conditions: Sun and clouds
Air Temperature: 75 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 2.98 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 12.02 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.82 1/100 ft
Height of Riser (above land surface): 2.72 1/100 ft
Land Surface Elevation: 687.1 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	Dup
1 liter amber	SVOC	2	none	Dup
1 liter amber	PCB	2	none	Dup
1 liter amber	PEST	2	none	Dup
250ml plastic	Metals	1	HNO3	Dup

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	14:15	14:20	14:25	14:30	14:35	14:40		
Depth to Groundwater Below Top of Casing (ft)	3.6	4.58	5.1	5.55	5.8	5.95		
Drawdown (ft)	-0.62	-0.98	-0.52	-0.45	-0.25	-0.15		
pH (S.U.)	7.1	6.89	6.85	6.83	6.82	6.82		
Sp. Cond. (S/cm)	1.221	1.218	1.222	1.224	1.226	1.227		
Turbidity (NTUs)	10.41	6.35	4.59	2.85	3.31			
Dissolved Oxygen (g/L)	13.72	12.76	13.09	13.21	12.9	13.05		
Water Temperature (°C)	12.76	12.36	13.9	14.16	14.33	14.41		
ORP (mV)	110.9	118.7	126.8	129.4	133.8	135.3		

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 14:13. Samples collected at 14:45. Dupicate samples collected at "08:00"

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
Earth Tech Job #: **60155991**
Well ID #: MW-36D
____ Upgradient ____ Downgradient
Weather Conditions: sun and clouds
Air Temperature: 75
Total Depth (TWD) Below Top of Casing = 21 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.4 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 15.6 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.66 1/100 ft
Height of Riser (above land surface): 2.56 1/100 ft
Land Surface Elevation: 687.1 1/100 ft
Screened Interval (below land surface): 16-21 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	13:05	13:10	13:15	13:20	14:05			
Depth to Groundwater Below Top of Casing (ft)	6.55	6.78	7.89	8.6	9.1			
Drawdown (ft)	-1.15	-0.23	-1.11	-0.71	-0.5			
pH (S.U.)	7.71	7.41	7.14	7.11	7.02			
Sp. Cond. (mS/cm)	0.735	0.749	0.719	0.712	0.652			
Turbidity (NTUs)	17.91	6.88	4.9	4.73	2.04			
Dissolved Oxygen (mg/L)	7.25	4.99	5.23	5.19	5.75			
Water Temperature (°C)	11.82	11.63	11.75	11.69	11.44			
ORP (mV)	34.7	53.6	83.3	88.5	111			

Physical appearance at start — Color: no; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: no; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 13:00. Phone call at 14:05 - no parameters recorded between 13:20 and 14:05. Sample at 14:10.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 06/18/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-37S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 70
Total Depth (TWD) Below Top of Casing = 14.5 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.4 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.1 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 690.10 1/100 ft
Height of Riser (above land surface): 2.70 1/100 ft
Land Surface Elevation: 687.4 1/100 ft
Screened Interval (below land surface): 4.5-14.5 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	100	
Time (Military)	9:30	9:35	9:40	9:45	9:50	9:55	10:00	
Depth to Groundwater Below Top of Casing (ft)	4.41	4.9	5.2	5.48	5.6	5.8	6.01	
Drawdown (ft)	-1.01	-0.49	-0.3	-0.28	-0.12	-0.2	-0.21	
pH (S.U.)	6.87	6.75	6.71	6.68	6.67	6.67	6.66	
Sp. Cond. (mS/cm)	0.844	0.835	0.827	0.82	0.793	0.792	0.79	
Turbidity (NTUs)	8.8	4.1	3.61	2.99	1.9	1.98	1.7	
Dissolved Oxygen (mg/L)	8.66	8.16	8.08	8.96	9.1	9.61	10.1	
Water Temperature (°C)	12.37	12.59	12.77	12.85	12.99	13.31	13.35	
ORP (mV)	60.1	69	75.2	75.6	79.3	85	92	

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 09:27. Samples collected at 10:05.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 06/18/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-37D
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 70
Total Depth (TWD) Below Top of Casing = 20 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.35 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 15.65 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = _____ gal
3 Casing Volumes = _____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 690.05 1/100 ft
Height of Riser (above land surface): 2.45 1/100 ft
Land Surface Elevation: 687.6 1/100 ft
Screened Interval (below land surface): 15-20 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	100	
Time (Military)	8:15	8:20	8:25	8:30	8:35	8:40	8:45	
Depth to Groundwater Below Top of Casing (ft)	4.82	4.74	4.74	4.74	4.74	4.74	4.74	
Drawdown (ft)	-0.47	0.08	0	0	0	0	0	
pH (S.U.)	7.95	7.44	7.31	7.26	7.25	7.24	7.23	
Sp. Cond. (mS/cm)	0.806	0.803	0.801	0.802	0.802	0.802	0.802	
Turbidity (NTUs)	29.9	26.5	19.5	15.1	15.4	12.1	8.9	
Dissolved Oxygen (mg/L)	5.65	4.67	4.85	4.86	5.2	4.79	5.14	
Water Temperature (°C)	11.98	11.54	11.49	11.44	11.43	11.43	11.45	
ORP (mV)	-80.6	-73.7	-75.3	-77.2	-77.9	-78.6	-79	

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 09:12. Samples collected at 08:50.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/22/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-38D
____ Upgradient ____ Downgradient
Weather Conditions: Rain
Air Temperature: 75 ° F
Total Depth (TWD) Below Top of Casing = 21 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.79 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 15.21 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.66 1/100 ft
Height of Riser (above land surface): 2.72 1/100 ft
Land Surface Elevation: 687.5 1/100 ft
Screened Interval (below land surface): 16-21 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	11:15	11:20	11:25	11:30	11:35	11:40		
Depth to Groundwater Below Top of Casing (ft)	6.55	7.8	8.6	9.5	10.05	10.28		
Drawdown (ft)	-0.76	-1.25	-0.8	-0.9	-0.55	-0.23		
pH (S.U.)	7.05	6.99	7.02	7.09	7.05	7.05		
Sp. Cond. (S/cm)	0.719	0.723	0.725	0.722	0.717	0.716		
Turbidity (NTUs)	33.5	6.4	2.8	2.7	2.5	2.1		
Dissolved Oxygen (g/L)	2.9	1.33	1.21	1.18	1.12	1.1		
Water Temperature (°C)	14.03	14.2	14.43	14.36	14.25	14.23		
ORP (mV)	-5.6	10.4	10.2	13.7	19.5	20.5		

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging 11:11. Collect samples at 11:45.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/18/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-39D
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 75 ° F
Total Depth (TWD) Below Top of Casing = 20 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.00 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 16.00 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.72 1/100 ft
Height of Riser (above land surface): 2.57 1/100 ft
Land Surface Elevation: 687.4 1/100 ft
Screened Interval (below land surface): 15-20 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	4°C	
1 liter amber	PCB	2	4°C	
1 liter amber	Pest	2	4°C	
1 liter amber	SVOC	2	4°C	
250 plastic	Metals	1	HNO3	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	10:45	10:50	10:55	11:00	11:05	11:10		
Depth to Groundwater Below Top of Casing (ft)	4.1	4.1	4.1	4.1	4.1	4.1		
Drawdown (ft)	-0.1	0	0	0	0	0		
pH (S.U.)	7.35	7.15	7.11	7.1	7.11	7.1		
Sp. Cond. (mS/cm)	0.739	0.733	0.731	0.729	0.726	0.724		
Turbidity (NTUs)	19.3	31.1	20.3	17.1	12.23	12.09		
Dissolved Oxygen (mg/L)	7.8	4.55	5.55	4.55	4.75	4.93		
Water Temperature (°C)	12.52	11.85	11.93	11.8	11.88	11.89		
ORP (mV)	-7.5	-17.8	-34	-43.9	-47.4	-49.6		

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 10:43. Samples collected at 11:15.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/21/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-40D
Upgradient ____ Downgradient ____
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 22.8 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.53 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 19.27 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.19 1/100 ft
Height of Riser (above land surface): -0.3 1/100 ft
Land Surface Elevation: 689.5 1/100 ft
Screened Interval (below land surface): 17.8-22.8 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	Duplicate

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	100	
Time (Military)	10:05	10:10	10:15	10:20	10:25	10:30	10:35	
Depth to Groundwater Below Top of Casing (ft)	4.24	5.1	6.15	7.1	7.7	8.4	8.8	
Drawdown (ft)	-0.71	-0.86	-1.05	-0.95	-0.6	-0.7	-0.4	
pH (S.U.)	7.25	6.91	6.82	6.87	6.9	6.92	6.91	
Sp. Cond. (S/cm)	0.791	0.8	0.799	0.756	0.733	0.718	0.719	
Turbidity (NTUs)	11.9	5.7	4.52	3.7	4.2	3.46	3.74	
Dissolved Oxygen (g/L)	2.04	1.7	1.5	1.28	0.94	1.14	1.01	
Water Temperature (°C)	13.87	13.41	13.35	13.27	13.33	13.3	13.22	
ORP (mV)	23.1	54.4	69.3	71.2	68.4	68.7	69	

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 10:03. Samples collected at 10:40. Duplicate sample collected at 07:30.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 6/17/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-40D
____ Upgradient ____ Downgradient
Weather Conditions: Cloudy
Air Temperature: 60 ° F
Total Depth (TWD) Below Top of Casing = 34.8 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 9.18 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 25.62 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 4.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.78 1/100 ft
Height of Riser (above land surface): 2.22 1/100 ft
Land Surface Elevation: 687.8 1/100 ft
Screened Interval (below land surface): 24.8-34.8 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	
1 liter amber	SVOC	2	none	
1 liter amber	PCB	2	none	
1 liter amber	PEST	2	none	
250ml plastic	Metals	1	HNO3	

FIELD ANALYSES

Flow Rate (ml/min)	200	100	100	100	100	100	100	100
Time (Military)	16:05	16:10	16:15	16:20	16:25	16:30	16:35	16:40
Depth to Groundwater Below Top of Casing (ft)	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Drawdown (ft)	-0.22	0	0	0	0	0	0	0
pH (S.U.)	7.55	7.22	7.02	7.01	7.00	6.99	6.99	7.00
Sp. Cond. (S/cm)	1.165	1.26	1.297	1.298	1.299	1.301	1.305	1.299
Turbidity (NTUs)	40.1	172	161.5	122.4	76.8	52.1	21.1	17.5
Dissolved Oxygen (g/L)	6.65	4.91	5.1	5.27	5.41	5.69	5.85	5.91
Water Temperature (°C)	13.79	13.42	13.67	13.52	13.41	13.1	12.9	13.1
ORP (mV)	30.9	15.9	29.3	26.1	15.2	10.7	4.5	2.2

Physical appearance at start — Color: lt grey tint; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: lt grey tint; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 16:00. Samples collected at 16:45.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/4/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-01S
Upgradient ____ Downgradient ____
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.89 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.11 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 688.96 1/100 ft
Height of Riser (above land surface): 1.16 1/100 ft
Land Surface Elevation: 687.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	12:45	12:50	12:55	13:00	13:05			
Depth to Groundwater Below Top of Casing (ft)	7.43	10.1	NA	NA	15.6			
Drawdown (ft)	-1.54	-2.67	NA	NA	NA			
pH (S.U.)	6.77	6.68	NA	NA	6.93			
Sp. Cond. (S/cm)	2.139	2.007	NA	NA	2.064			
Turbidity (NTUs)	>500	>500	NA	NA	>500			
Dissolved Oxygen (g/L)	3.4	2.13	NA	NA	6.07			
Water Temperature (°C)	17.39	17.15	NA	NA	21.18			
ORP (mV)	-110.2	-105.1	NA	NA	-5.3			

Physical appearance at start — Color: very turbid; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: very turbid; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging 12:40. Collect samples at 13:10.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/4/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-2S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.9 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 10.1 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 1.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.82 1/100 ft
Height of Riser (above land surface): 2.52 1/100 ft
Land Surface Elevation: 687.3 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	75	75	75	75				
Time (Military)	11:30	11:35	11:40	11:45				
Depth to Groundwater Below Top of Casing (ft)	12.2	15.8	15.8	15.8				
Drawdown (ft)	-7.3	-3.6	0	0				
pH (S.U.)	6.99	6.78	6.77	6.82				
Sp. Cond. (S/cm)	1.122	1.128	1.142	1.17				
Turbidity (NTUs)	70	234.5	351.6	454				
Dissolved Oxygen (g/L)	3.51	2.82	3.3	4.37				
Water Temperature (°C)	18.31	19.68	20.31	21.27				
ORP (mV)	-36.4	-31.5	-31.4	-31.9				

Physical appearance at start — Color: sl turbid; Odor: no
Physical appearance at sampling — Color: turbid; Odor: no
Sheen/Free Product: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 11:25. Well drying at 11:35, lower tubing (purge rate cannot be adjusted lower). Sample at 11:50.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/4/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-3S
____ Upgradient ____ Downgradient
Weather Conditions: Sun and clouds
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 6.2 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 8.8 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 1.9 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.70 1/100 ft
Height of Riser (above land surface): 1.90 1/100 ft
Land Surface Elevation: 688.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	75	75	75	75	75			
Time (Military)	8:00	8:05	8:10	8:15	8:20			
Depth to Groundwater Below Top of Casing (ft)	9.5	11.3	13.9	15.8	16.4			
Drawdown (ft)	-3.3	-1.8	-2.6	-1.9	-0.6			
pH (S.U.)	6.96	6.87	6.75	6.76	6.77			
Sp. Cond. (S/cm)	1.195	1.154	1.139	1.137	1.129			
Turbidity (NTUs)	356	432	489	501	378			
Dissolved Oxygen (g/L)	4.44	2.98	1.75	1.54	1.41			
Water Temperature (°C)	17.52	17.03	16.51	16.51	16.45			
ORP (mV)	-83.2	-64.2	-55.5	-66.8	-73.1			

Physical appearance at start — Color: turbid; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: turbid; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 07:55. Well drying at 08:15…lower tubing. Sample collected at 08:25.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/4/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-4S
____ Upgradient ____ Downgradient
Weather Conditions: Sun and clouds
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 6.5 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 8.5 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 1.9 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.46 1/100 ft
Height of Riser (above land surface): 2.76 1/100 ft
Land Surface Elevation: 687.7 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	75	75	75	75	75			
Time (Military)	10:25	10:30	10:35	10:40	10:45			
Depth to Groundwater Below Top of Casing (ft)	9.95	11.45	12.9	14.5	15.7			
Drawdown (ft)	-3.45	-1.5	-1.45	-1.6	-1.2			
pH (S.U.)	6.24	7.11	7.05	6.99	6.98			
Sp. Cond. (S/cm)	1.177	1.104	1.111	1.128	1.127			
Turbidity (NTUs)	17.33	14.35	16.9	12.44	12.23			
Dissolved Oxygen (g/L)	6	3.9	3.1	2.53	2.21			
Water Temperature (°C)	18.42	17.5	18.13	18.21	18.17			
ORP (mV)	-73.5	-70.8	-61.8	-55.6	-52.2			

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 10:20. Well drying at 9:20. Recharge. Collect samples at 10:50.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/4/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
Earth Tech Job #: **60155991**
Well ID #: GP-5S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 6.55 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 8.45 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.38 1/100 ft
Height of Riser (above land surface): 2.78 1/100 ft
Land Surface Elevation: 687.6 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	200	100	100	100				
Time (Military)	9:10	9:15	9:20	9:25				
Depth to Groundwater Below Top of Casing (ft)	11.3	11.6	11.75	11.8				
Drawdown (ft)	-4.75	-0.3	-0.15	-0.05				
pH (S.U.)	7.28	7.2	7.18	7.18				
Sp. Cond. (mS/cm)	0.823	0.849	0.858	0.86				
Turbidity (NTUs)	26	164.4	133.8	124.4				
Dissolved Oxygen (mg/L)	2.04	3.43	4.12	4.39				
Water Temperature (°C)	18.15	18.9	19.09	19.15				
ORP (mV)	-67.2	-59.7	-56.9	-56.1				

Physical appearance at start: Color sl turbid; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color turbid; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 09:00. Well drying at 09:10. Lower purge rate. Well drying at 09:15, lower tubing. Well drying, allow to recharge and sample at 09:40 (20 NTU).

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/4/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-6S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.24 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.76 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.25 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 687.71 1/100 ft
Height of Riser (above land surface): -0.09 1/100 ft
Land Surface Elevation: 687.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	75	75	75			
Time (Military)	9:50	9:55	10:00	10:05	10:10			
Depth to Groundwater Below Top of Casing (ft)	7.25	8.2	8.1	8.1	8.1			
Drawdown (ft)	-4.01	-0.95	0.1	0	0			
pH (S.U.)	7.32	7.13	7.1	7.1	7.1			
Sp. Cond. (mS/cm)	0.709	0.735	0.753	0.788	0.793			
Turbidity (NTUs)	12.04	6.45	5.64	7.8	4.1			
Dissolved Oxygen (mg/L)	5.3	2.68	2.45	3.86	4.32			
Water Temperature (°C)	18.48	18.19	18.51	19.16	19.3			
ORP (mV)	-2.5	9	13.9	13	13.2			

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 09:45. Well drying at 09:55. Lower purge rate. Collect samples at 10:15.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/4/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-7
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 6.06 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 8.94 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.47 1/100 ft
Height of Riser (above land surface): 2.97 1/100 ft
Land Surface Elevation: 687.5 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	14:15	14:20	14:25	14:30	14:35			
Depth to Groundwater Below Top of Casing (ft)	12.6	13.2	15.1	NA	NA			
Drawdown (ft)	-6.54	-0.6	-1.9	NA	NA			
pH (S.U.)	7.17	6.99	6.9	6.89	6.89			
Sp. Cond. (S/cm)	0.947	0.901	0.895	0.894	0.893			
Turbidity (NTUs)	72.1	52.4	74.1	105.3	135.3			
Dissolved Oxygen (g/L)	9.09	5.32	2.97	2.82	2.78			
Water Temperature (°C)	18.6	18.01	17.64	18.35	18.6			
ORP (mV)	-133.5	-129.1	-102.2	-99.1	-97.2			

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: tan-turbid; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 14:10. Well drying at 14:25; allow to recharge. Collect samples at 14:40.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/4/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-8
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.3 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.7 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.68 1/100 ft
Height of Riser (above land surface): 3.18 1/100 ft
Land Surface Elevation: 686.5 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	13:40	13:45	13:50	13:55	14:00			
Depth to Groundwater Below Top of Casing (ft)	6.0	6.13	6.7	7.3	7.6			
Drawdown (ft)	-0.7	-0.1	-0.6	-0.6	-0.3			
pH (S.U.)	7.08	6.84	6.73	6.71	6.72			
Sp. Cond. (S/cm)	0.822	0.799	0.807	0.820	0.822			
Turbidity (NTUs)	23.4	47.8	35.1	28.2	21.3			
Dissolved Oxygen (g/L)	7.76	4.17	3.19	3.12	3.05			
Water Temperature (°C)	18.6	18.08	18.75	18.76	18.78			
ORP (mV)	-136.7	-135.9	-130.7	-125.1	-123.4			

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 13:35. Collect samples at 14:05.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/3/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-09
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.35 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.65 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.36 1/100 ft
Height of Riser (above land surface): 2.56 1/100 ft
Land Surface Elevation: 686.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	17:10	17:15	17:20	17:25	17:30			
Depth to Groundwater Below Top of Casing (ft)	10.15	11.9	NA	NA	NA			
Drawdown (ft)	-4.8	-1.75	NA	NA	NA			
pH (S.U.)	7	6.94	6.94	6.95	NA			
Sp. Cond. (mS/cm)	0.744	0.74	0.741	0.744	NA			
Turbidity (NTUs)	430	>500	>500	>500	NA			
Dissolved Oxygen (mg/L)	2.67	3.02	3.15	4.46	NA			
Water Temperature (°C)	16.11	16.15	16.35	16.7	NA			
ORP (mV)	-124.6	-118	-111.2	-108.3	NA			

Physical appearance at start — Color: turbid; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: turbid; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging 17:05.Well drying at 17:20, lower tubing. Well drying at 17:25, allow to recharge. Sample at 17:35.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/3/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-10S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.8 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.2 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.10 1/100 ft
Height of Riser (above land surface): -0.10 1/100 ft
Land Surface Elevation: 689.2 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100				
Time (Military)	12:20	12:25	12:30	12:35				
Depth to Groundwater Below Top of Casing (ft)	9.4	11.5	11.9	12.4				
Drawdown (ft)	-5.6	-2.1	-0.4	-0.5				
pH (S.U.)	6.77	6.8	6.69	6.64				
Sp. Cond. (mS/cm)	0.986	0.904	0.986	1.036				
Turbidity (NTUs)	55.8	143.2	121.1	115.7				
Dissolved Oxygen (mg/L)	2.87	3.01	2.71	2.61				
Water Temperature (°C)	20.01	19.59	20.05	20.32				
ORP (mV)	-76	-60.6	-57.4	-58.6				

Physical appearance at start: Color cloudy; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color turbid; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start puring at 12:15. Well drying at 12:35. Allow to recharge. Samples collected at 12:45.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/3/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-11S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.6 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 10.4 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.34 1/100 ft
Height of Riser (above land surface): -0.06 1/100 ft
Land Surface Elevation: 689.4 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	13:40	13:45	13:50	13:55	14:00			
Depth to Groundwater Below Top of Casing (ft)	7.75	10.9	12	12.9	NA			
Drawdown (ft)	-3.15	-3.15	-1.1	-0.9	NA			
pH (S.U.)	6.83	6.71	6.67	6.66	6.67			
Sp. Cond. (S/cm)	1.995	2.103	2.053	2.04	2.031			
Turbidity (NTUs)	82	79.3	250.6	349	455			
Dissolved Oxygen (g/L)	2.64	1.78	1.48	1.42	1.47			
Water Temperature (°C)	23.11	22.68	22.08	22.1	22.61			
ORP (mV)	-73.9	-65	-53.8	-53.8	-61.4			

Physical appearance at start — Color: sl turbid; Odor: no
Physical appearance at sampling — Color: turbid; Odor: no
Sheen/Free Product: no
Sheen/Free Product: sheen

COMMENTS/OBSERVATIONS: Start purging at 113:35. Well drying at 13:50, lower tubing. Well drying at 13:55, allow to recharge. Sample at 14:00.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/3/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-12S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.25 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.75 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.5 1/100 ft
Height of Riser (above land surface): 0.00 1/100 ft
Land Surface Elevation: 689.5 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	13:05	13:10	13:15	13:20	13:25			
Depth to Groundwater Below Top of Casing (ft)	4.3	4.9	5.05	5.09	5.19			
Drawdown (ft)	-1.05	-0.6	-0.15	-0.04	-0.1			
pH (S.U.)	7.07	6.93	6.83	6.81	6.8			
Sp. Cond. (S/cm)	1.409	1.393	1.4	1.412	1.432			
Turbidity (NTUs)	12.79	4.3	3.9	3.03	2.54			
Dissolved Oxygen (g/L)	2.17	2.39	1.92	1.62	1.31			
Water Temperature (°C)	18.94	18.59	19.27	20.25	21.04			
ORP (mV)	-142.8	-140.1	-134.3	-132	-128.2			

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 13:00. Sample at 13:30.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/3/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-13S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.65 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.35 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.69 1/100 ft
Height of Riser (above land surface): -0.11 1/100 ft
Land Surface Elevation: 689.8 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	10:40	10:45	10:50	10:55	11:00			
Depth to Groundwater Below Top of Casing (ft)	7.5	9.1	9.9	10.4	11			
Drawdown (ft)	-3.85	-1.6	-0.8	-0.5	-0.6			
pH (S.U.)	6.84	6.79	6.74	6.72	6.7			
Sp. Cond. (S/cm)	1.146	1.155	1.162	1.163	1.165			
Turbidity (NTUs)	3.63	2.37	6.54	6.41	5.91			
Dissolved Oxygen (g/L)	2.09	2.03	1.81	1.73	1.61			
Water Temperature (°C)	21.74	21.75	21.91	22	21.96			
ORP (mV)	-94	-90	-90.1	-86.4	-85.8			

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 10:35. Samples collected at 11:05.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/3/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-14S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.08 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 11.92 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 689.43 1/100 ft
Height of Riser (above land surface): -0.27 1/100 ft
Land Surface Elevation: 689.7 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	14:25	14:30	14:35	14:40	14:45	14:50		
Depth to Groundwater Below Top of Casing (ft)	4.25	4.9	5.7	NA	8.3	10.5		
Drawdown (ft)	-1.17	-0.65	-0.8	NA	-2.6	-2.2		
pH (S.U.)	7.08	7	6.95	NA	6.95	6.95		
Sp. Cond. (mS/cm)	1.64	1.502	1.435	NA	1.385	1.377		
Turbidity (NTUs)	18.28	48.9	105.4	NA	98.3	91.1		
Dissolved Oxygen (mg/L)	1.63	1.01	0.85	NA	0.76	0.78		
Water Temperature (°C)	20.04	21.43	21.79	NA	21.97	22.05		
ORP (mV)	-132.2	-132.9	-133.7	NA	-129	-125		

Physical appearance at start: Color sl turbid; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color sl turbid; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging 14:20. Collect samples at 14:55.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
Earth Tech Job #: **60155991**
Well ID #: GP-15S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 82 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.2 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 10.8 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 687.69 1/100 ft
Height of Riser (above land surface): -0.31 1/100 ft
Land Surface Elevation: 688.0 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	12:00	12:05	12:10	12:15	12:20			
Depth to Groundwater Below Top of Casing (ft)	7.2	10.15	10.7	10.9	11.1			
Drawdown (ft)	-3	-2.95	-0.55	-0.2	-0.2			
pH (S.U.)	7.09	6.93	6.95	6.96	6.97			
Sp. Cond. (mS/cm)	0.695	0.714	0.721	0.724	0.725			
Turbidity (NTUs)	12.8	9.95	7.95	7.76	6.1			
Dissolved Oxygen (mg/L)	2.43	2.05	1.46	1.65	1.71			
Water Temperature (°C)	18.32	18.9	20.65	20.52	20.69			
ORP (mV)	-64.4	-51.4	-26.2	-23	-21.2			

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 11:55. Well drying at 12:15. Lower tubing. Collect samples at 12:25.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-16S
____ Upgradient ____ Downgradient
Weather Conditions: sun and clouds
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.55 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.45 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 698.86 1/100 ft
Height of Riser (above land surface): 12.26 1/100 ft
Land Surface Elevation: 686.6 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	12:35	12:40	12:45	12:50	12:55			
Depth to Groundwater Below Top of Casing (ft)	8.9	9.55	9.6	9.6	9.6			
Drawdown (ft)	-3.35	-0.65	-0.05	0	0			
pH (S.U.)	6.72	6.64	6.66	6.69	6.69			
Sp. Cond. (mS/cm)	1.044	1.059	1.139	1.154	1.159			
Turbidity (NTUs)	27.3	38.1	34	32.2	28.2			
Dissolved Oxygen (mg/L)	2.21	1.19	0.94	0.96	0.97			
Water Temperature (°C)	18.92	20.44	20.54	20.48	20.52			
ORP (mV)	-74.2	-63.4	-54.2	-53.5	-52.2			

Physical appearance at start — Color: clear; Odor: no; Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no; Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 12:30. Samples collected at 13:00.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 08/03/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-17S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.50 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.5 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.11 1/100 ft
Height of Riser (above land surface): 3.11 1/100 ft
Land Surface Elevation: 687.0 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	125	100	100	100	100	100	100	
Time (Military)	15:25	15:30	15:35	15:40	15:45	15:50	15:55	
Depth to Groundwater Below Top of Casing (ft)	7.6	7.3	7.31	NA	NA	9.2	9.4	
Drawdown (ft)	-2.1	0.3	-0.01	NA	NA	NA	-0.2	
pH (S.U.)	7.2	6.9	6.83	NA	NA	6.78	6.78	
Sp. Cond. (mS/cm)	0.958	0.989	0.999	NA	NA	1.002	1	
Turbidity (NTUs)	350	258	450	NA	NA	498	434	
Dissolved Oxygen (mg/L)	3.29	1.8	1.5	NA	NA	1.29	1.36	
Water Temperature (°C)	17.52	17.87	18.04	NA	NA	18.1	18.03	
ORP (mV)	-0.4	1.77	46.8	NA	NA	67.3	68.9	

Physical appearance at start — Color: turbid; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: turbid; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 15:20. Samples collected at 16:00.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 08/02/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: GP-18S
____ Upgradient ____ Downgradient
Weather Conditions: Suny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.25 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.75 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2 liter

Casing Diameter: 3/4 inches
Casing Material: PVC
Measuring Point Elevation: 690.37 1/100 ft
Height of Riser (above land surface): 2.87 1/100 ft
Land Surface Elevation: 687.5 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100				
Time (Military)	17:45	17:50	17:55	18:00				
Depth to Groundwater Below Top of Casing (ft)	10.1	11.2	13.2	14.1				
Drawdown (ft)	-4.85	-1.1	-2	-0.9				
pH (S.U.)	7.3	7.23	7.14	7.12				
Sp. Cond. (mS/cm)	0.686	0.693	0.694	0.677				
Turbidity (NTUs)	10.85	6.61	6.32	5.1				
Dissolved Oxygen (mg/L)	5.28	4.96	4.43	3.36				
Water Temperature (°C)	17.24	17.76	16.32	16.29				
ORP (mV)	-89.7	-84.1	-62.7	-66.8				

Physical appearance at start: Color Clear; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color Clear; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 17:40. Well drying at 18:00…allow to recharge. Collect samples at 18:10.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: TP-1
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 5.76 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.65 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 0.11 1/100 ft
1 Casing Volume (OCV) = LWC x ____ = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: ____ liter

Casing Diameter: 1 inches
Casing Material: PVC
Measuring Point Elevation: 688.35 1/100 ft
Height of Riser (above land surface): 0.35 1/100 ft
Land Surface Elevation: 688.0 1/100 ft
Screened Interval (below land surface): 2.5' screen 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD

FIELD ANALYSES

Flow Rate (ml/min)	NA	NA	NA	NA	NA	NA	NA	NA
Time (Military)	NA	NA	NA	NA	NA	NA	NA	NA
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	NA
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NA	NA	NA	NA	NA	NA	NA	NA
Sp. Cond. (mS/cm)	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA
Water Temperature (°C)	NA	NA	NA	NA	NA	NA	NA	NA
ORP (mV)	NA	NA	NA	NA	NA	NA	NA	NA

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Trace water; insufficient water volume to collect samples.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: TP-2
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 5.5 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.2 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 1.3 1/100 ft
1 Casing Volume (OCV) = LWC x ____ = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed ____ liter

Casing Diameter: 1 inches
Casing Material: PVC
Measuring Point Elevation: 688.92 1/100 ft
Height of Riser (above land surface): 1.52 1/100 ft
Land Surface Elevation: 687.4 1/100 ft
Screened Interval (below land surface): 2.5' screen 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	NA	NA	NA	NA	NA	NA	NA	NA
Time (Military)	NA	NA	NA	NA	NA	NA	NA	NA
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	NA
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NA	NA	NA	NA	NA	NA	NA	NA
Sp. Cond. (mS/cm)	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA
Water Temperature (°C)	NA	NA	NA	NA	NA	NA	NA	NA
ORP (mV)	NA	NA	NA	NA	NA	NA	NA	NA

Physical appearance at start — Color: clear; Odor: no; Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no; Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Grab sample. No parameters collected. Samples collected at 11:50.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: TP-3
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 5.05 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.8 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 0.25 1/100 ft
1 Casing Volume (OCV) = LWC x ____ = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: ____ liter

Casing Diameter: 1.00 inches
Casing Material: PVC
Measuring Point Elevation: 688.54 1/100 ft
Height of Riser (above land surface): 1.14 1/100 ft
Land Surface Elevation: 687.4 1/100 ft
Screened Interval (below land surface): 2.5' screen 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD

FIELD ANALYSES

Flow Rate (ml/min)	NA	NA	NA	NA	NA	NA	NA	NA
Time (Military)	NA	NA	NA	NA	NA	NA	NA	NA
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	NA
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NA	NA	NA	NA	NA	NA	NA	NA
Sp. Cond. (mS/cm)	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA
Water Temperature (°C)	NA	NA	NA	NA	NA	NA	NA	NA
ORP (mV)	NA	NA	NA	NA	NA	NA	NA	NA

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Trace water; insufficient water volume to collect samples.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: TP-4
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 4.87 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.7 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 0.17 1/100 ft
1 Casing Volume (OCV) = LWC x ____ = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: ____ liter

Casing Diameter: 1.00 inches
Casing Material: PVC
Measuring Point Elevation: 689.07 1/100 ft
Height of Riser (above land surface): 1.87 1/100 ft
Land Surface Elevation: 687.2 1/100 ft
Screened Interval (below land surface): 2.5' screen 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD

FIELD ANALYSES

Flow Rate (ml/min)	NA	NA	NA	NA	NA	NA	NA	NA
Time (Military)	NA	NA	NA	NA	NA	NA	NA	NA
Depth to Groundwater Below Top of Casing (ft)	NA	NA	NA	NA	NA	NA	NA	NA
Drawdown (ft)	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NA	NA	NA	NA	NA	NA	NA	NA
Sp. Cond. (mS/cm)	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA
Water Temperature (°C)	NA	NA	NA	NA	NA	NA	NA	NA
ORP (mV)	NA	NA	NA	NA	NA	NA	NA	NA

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Trace water; insufficient water volume to collect samples.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/3/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-30
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = ____ 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 3.9 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.69 1/100 ft
Height of Riser (above land surface): -0.11 1/100 ft
Land Surface Elevation: 689.8 1/100 ft
Screened Interval (below land surface): ____ 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	75	75		
Time (Military)	10:00	10:05	10:10	10:15	10:20	10:25		
Depth to Groundwater Below Top of Casing (ft)	4.5	5.48	6.88	7.88	8.15	8.45		
Drawdown (ft)	-0.6	-0.98	-1.4	-1	-0.27	-0.3		
pH (S.U.)	7.36	7.18	7.09	7.07	7.7	7.7		
Sp. Cond. (mS/cm)	0.969	0.957	0.937	0.921	0.917	0.917		
Turbidity (NTUs)	8.4	4.74	2.23	2.7	3.17	2.22		
Dissolved Oxygen (mg/L)	4.19	2.27	1.4	1.11	1.06	1		
Water Temperature (°C)	20.29	19.61	19.24	19.16	19.2	19.27		
ORP (mV)	-134.3	-133.9	-130.4	-119.7	-121.2	-122.9		

Physical appearance at start — Color: clear. Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 09:55. Samples collected at 10:30.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM: **60155991**
Well ID #: MW-35S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 14.5 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.71 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 8.79 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 688.56 1/100 ft
Height of Riser (above land surface): -0.54 1/100 ft
Land Surface Elevation: 689.1 1/100 ft
Screened Interval (below land surface): 4.5-14.5 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	200	100	100	100	100	100		
Time (Military)	10:35	10:40	10:45	10:50	10:55	11:00		
Depth to Groundwater Below Top of Casing (ft)	6.15	6.38	6.6	6.89	7.12	7.29		
Drawdown (ft)	-0.44	-0.23	-0.22	-0.29	-0.23	-0.17		
pH (S.U.)	6.33	6.34	6.35	6.34	6.34	6.33		
Sp. Cond. (mS/cm)	0.963	0.953	0.945	0.949	0.95	0.955		
Turbidity (NTUs)	3.4	3.65	1.17	1.91	1.07	0.89		
Dissolved Oxygen (mg/L)	2.75	2.91	2.34	2	1.47	1.38		
Water Temperature (°C)	17.02	16.99	16.81	17.1	17.39	17.63		
ORP (mV)	-72.6	-49.3	-33.5	-19.2	-5.9	-3.9		

Physical appearance at start — Color: sl yellow tint; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: sl yellow tint; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 10:30. Samples collected at 11:05.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-35D
Upgradient ____ Downgradient ____
Weather Conditions: Sunny
Air Temperature: 80 ° F
Total Depth (TWD) Below Top of Casing = 26 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 7.83 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 18.17 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 698.66 1/100 ft
Height of Riser (above land surface): 2.83 1/100 ft
Land Surface Elevation: 687.1 1/100 ft
Screened Interval (below land surface): 21-26 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	11:15	11:20	11:25	11:30	11:35	11:40		
Depth to Groundwater Below Top of Casing (ft)	8.1	8.6	9.15	9.67	9.92	10.2		
Drawdown (ft)	-0.27	-0.5	-0.55	-0.52	-0.25	-0.28		
pH (S.U.)	7.3	7.1	7.02	7.04	7.05	7.06		
Sp. Cond. (mS/cm)	0.49	0.489	0.487	0.493	0.498	0.499		
Turbidity (NTUs)	12.9	10.2	8.49	9.96	8.52	7.23		
Dissolved Oxygen (mg/L)	1.2	0.89	0.74	0.75	0.71	0.68		
Water Temperature (°C)	16.02	16.87	17.17	17.78	18.2	18.46		
ORP (mV)	37.1	40.1	43.3	58.6	58.6	58.7		

Physical appearance at start: Color sl yellow tint; Odor no; Sheen/Free Product no

Physical appearance at sampling: Color sl yellow tint; Odor no; Sheen/Free Product no

COMMENTS/OBSERVATIONS: Start purging at 11:10. Samples collected at 11:45.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 08/02/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-36S
____ Upgradient ____ Downgradient
Weather Conditions: Sun and clouds
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 15 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.4 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.6 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.82 1/100 ft
Height of Riser (above land surface): 2.72 1/100 ft
Land Surface Elevation: 687.1 1/100 ft
Screened Interval (below land surface): 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	Dup
1 liter amber	SVOC	2	none	Dup
1 liter amber	PCB	2	none	Dup
1 liter amber	PEST	2	none	Dup
250ml plastic	Metals	1	HNO3	Dup

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	15:55	16:00	16:05	16:10	16:15	16:20		
Depth to Groundwater Below Top of Casing (ft)	5.98	6.25	7.81	8.11	8.18	8.2		
Drawdown (ft)	-0.58	-0.27	-1.56	-0.3	-0.07	-0.02		
pH (S.U.)	7.18	6.88	6.83	6.84	6.84	6.85		
Sp. Cond. (S/cm)	1.167	1.143	1.132	1.139	1.141	1.139		
Turbidity (NTUs)	8.7	5.02	2.1	1.49	3.2	2.7		
Dissolved Oxygen (g/L)	2.71	1.57	1.76	1.48	1.63	1.6		
Water Temperature (°C)	15.83	16.04	15.95	16.37	16.43	16.28		
ORP (mV)	-87.7	-50.5	-50	-79.1	-88	-85.7		

Physical appearance at start — Color: clear; Odor: no; Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no; Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 15:50. Samples collected at 16:20. Dupicate samples collected at "08:00"

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
Earth Tech Job #: **60155991**
Well ID #: MW-36D
____ Upgradient ____ Downgradient
Weather Conditions: sun and clouds
Air Temperature: 85
Total Depth (TWD) Below Top of Casing = 21 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 6.3 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 14.7 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.66 1/100 ft
Height of Riser (above land surface): 2.56 1/100 ft
Land Surface Elevation: 687.1 1/100 ft
Screened Interval (below land surface): 16-21 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	13:05	13:10	13:15	13:20	13:25			
Depth to Groundwater Below Top of Casing (ft)	7.35	7.8	8.1	8.3	8.39			
Drawdown (ft)	-1.05	-0.45	-0.3	-0.2	-0.09			
pH (S.U.)	7.05	6.97	6.93	6.92	6.92			
Sp. Cond. (mS/cm)	0.711	0.708	0.711	0.712	0.711			
Turbidity (NTUs)	13.3	10.1	16.2	15.5	13.2			
Dissolved Oxygen (mg/L)	2.53	1.92	1.58	1.47	1.41			
Water Temperature (°C)	15.2	19.5	16.08	17.4	29.2			
ORP (mV)	-136	-134.2	-129.3	-121.1	-118.3			

Physical appearance at start: Color no; Odor no
Sheen/Free Product: no

Physical appearance at sampling: Color no; Odor no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 13:00. Sample at 13:30.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 08/03/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-37S
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80
Total Depth (TWD) Below Top of Casing = 14.5 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.2 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.3 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 690.10 1/100 ft
Height of Riser (above land surface): 2.70 1/100 ft
Land Surface Elevation: 687.4 1/100 ft
Screened Interval (below land surface): 4.5-14.5 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	8:20	8:25	8:30	8:35	8:40	8:45		
Depth to Groundwater Below Top of Casing (ft)	6.2	6.5	6.99	7.5	7.8	8.1		
Drawdown (ft)	-1	-0.3	-0.49	-0.51	-0.3	-0.3		
pH (S.U.)	6.86	6.78	6.73	6.68	6.67	6.66		
Sp. Cond. (mS/cm)	0.887	0.874	0.869	0.868	0.867	0.867		
Turbidity (NTUs)	11.24	2.62	2.78	2.05	2.45	2.58		
Dissolved Oxygen (mg/L)	2.8	2.54	2.02	1.79	1.63	1.55		
Water Temperature (°C)	15.66	15.56	15.53	16.13	16.46	16.5		
ORP (mV)	-78.1	-78	-78.3	-72.9	-68.2	-69		

Physical appearance at start: Color sl yellow tint; Odor no; Sheen/Free Product no

Physical appearance at sampling: Color sl yellow tint; Odor no; Sheen/Free Product no

COMMENTS/OBSERVATIONS: Start purging at 08:15. Samples collected at 08:50.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 08/03/10
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-37D
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 80
Total Depth (TWD) Below Top of Casing = 20 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.3 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 14.7 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 690.05 1/100 ft
Height of Riser (above land surface): 2.45 1/100 ft
Land Surface Elevation: 687.6 1/100 ft
Screened Interval (below land surface): 15-20 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	7:40	7:45	7:50	7:55	8:00	8:05		
Depth to Groundwater Below Top of Casing (ft)	5.5	5.55	5.55	5.55	5.55	5.55		
Drawdown (ft)	-0.2	-0.05	0	0	0	0		
pH (S.U.)	7.5	7.28	7.23	7.21	7.15	71.5		
Sp. Cond. (mS/cm)	0.782	0.782	0.785	0.787	0.787	0.786		
Turbidity (NTUs)	3.68	3.31	2.87	2.94	3.06	2.98		
Dissolved Oxygen (mg/L)	2.15	1.17	1.19	1.13	1.11	1.08		
Water Temperature (°C)	14.49	14.93	15.06	15.24	15.2	15.21		
ORP (mV)	-162	-149.8	-146.9	-146.3	-139	-138.8		

Physical appearance at start — Color: sl yellow tint; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: sl yellow tint; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 07:35. Samples collected at 08:10.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/4/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
Earth Tech Job #: **60155991**
Well ID #: MW-38D
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 21 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 6.25 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 14.75 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 2.5 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.66 1/100 ft
Height of Riser (above land surface): 2.72 1/100 ft
Land Surface Elevation: 687.5 1/100 ft
Screened Interval (below land surface): 16-21 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	12:00	12:05	12:10	12:15	12:20			
Depth to Groundwater Below Top of Casing (ft)	7.4	8.5	9.4	9.9	10.2			
Drawdown (ft)	-1.15	-1.1	-0.9	-0.5	-0.3			
pH (S.U.)	7.13	6.95	6.91	6.91	6.92			
Sp. Cond. (S/cm)	0.75	0.743	0.722	0.718	0.718			
Turbidity (NTUs)	4.9	1.97	1.5	1.65	1.43			
Dissolved Oxygen (g/L)	3.18	1.4	0.91	0.8	0.79			
Water Temperature (°C)	17.67	17.86	17.77	17.96	18.1			
ORP (mV)	-65.2	-51.1	-46.7	-46.4	-46.9			

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging 11:55. Collect samples at 12:25.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/3/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-39D
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 84 ° F
Total Depth (TWD) Below Top of Casing = 20 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 5.0 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 15.0 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: ____ liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.72 1/100 ft
Height of Riser (above land surface): 2.57 1/100 ft
Land Surface Elevation: 687.4 1/100 ft
Screened Interval (below land surface): 15-20 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	4°C	
1 liter amber	PCB	2	4°C	
1 liter amber	Pest	2	4°C	
1 liter amber	SVOC	2	4°C	
250 plastic	Metals	1	HNO3	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	9:00	9:05	9:10	9:15	9:20	9:25		
Depth to Groundwater Below Top of Casing (ft)	5.1	5.1	5.1	5.1	5.1	5.1		
Drawdown (ft)	-0.1	0	0	0	0	0		
pH (S.U.)	7.29	7.2	7.24	7.22	7.22	7.1		
Sp. Cond. (mS/cm)	0.73	0.698	0.676	0.674	0.671	0.724		
Turbidity (NTUs)	21.5	49	48.8	35.8	26.3	18		
Dissolved Oxygen (mg/L)	3.98	2.61	2.23	1.82	1.66	1.57		
Water Temperature (°C)	16.85	16.98	15.41	16.22	15.51	15.89		
ORP (mV)	-132.2	-130	-142.4	-137.2	-141.5	-138.1		

Physical appearance at start: Color: sl cloudy; Odor: no
Sheen/Free Product: no

Physical appearance at sampling: Color: clear; Odor: no
Sheen/Free Product: no

COMMENTS/OBSERVATIONS: Start purging at 8:55. Samples collected at 9:30.

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/3/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-40D
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 22.8 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 4.3 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 18.5 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.19 1/100 ft
Height of Riser (above land surface): -0.3 1/100 ft
Land Surface Elevation: 689.5 1/100 ft
Screened Interval (below land surface): 17.8-22.8 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	Duplicate

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	11:40	11:45	11:50	11:55	12:00	12:05		
Depth to Groundwater Below Top of Casing (ft)	4.94	5.55	6.6	7.2	7.9	8.2		
Drawdown (ft)	-0.64	-0.61	-1.05	-0.6	-0.7	-0.3		
pH (S.U.)	7.49	7.22	7.15	7.17	7.19	7.2		
Sp. Cond. (S/cm)	0.871	0.795	0.725	0.713	0.702	0.693		
Turbidity (NTUs)	28.4	6.5	1.72	4.5	2.8	3.5		
Dissolved Oxygen (g/L)	4.35	3.27	2.69	2.24	2.13	1.95		
Water Temperature (°C)	19.46	18.26	17.75	17.74	17.38	17.37		
ORP (mV)	-188.4	-174.2	-173.5	-184	-193.9	-201.6		

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

COMMENTS/OBSERVATIONS: Start purging at 11:35. Samples collected at 12:10. Duplicate sample collected at "07:30".

AECOM

GROUNDWATER SAMPLING LOG

Date (mo/day/yr): 8/2/2010
Field Personnel: Dino Zack
Site Name: **Former Scott Aviation Site - Lancaster, NY**
AECOM Job #: **60155991**
Well ID #: MW-41B
____ Upgradient ____ Downgradient
Weather Conditions: Sunny
Air Temperature: 85 ° F
Total Depth (TWD) Below Top of Casing = 34.8 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = 9.1 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 25.7 1/100 ft
1 Casing Volume (OCV) = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ gal
Method of Well Evacuation: Peristaltic Pump
Method of Sample Collection: Peristaltic Pump/Poly Tubing
Total Volume of Water Removed: 3 liter

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation: 689.78 1/100 ft
Height of Riser (above land surface): 2.22 1/100 ft
Land Surface Elevation: 687.8 1/100 ft
Screened Interval (below land surface): 24.8-34.8 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	
1 liter amber	SVOC	2	none	
1 liter amber	PCB	2	none	
1 liter amber	PEST	2	none	
250ml plastic	Metals	1	HNO3	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	17:00	17:05	17:10	17:15	17:20	17:25		
Depth to Groundwater Below Top of Casing (ft)	9.2	9.25	9.25	9.25	9.25	9.25		
Drawdown (ft)	-0.1	-0.05	0	0	0	0		
pH (S.U.)	7.59	7.38	7.29	7.25	7.25	7.24		
Sp. Cond. (S/cm)	0.81	0.8	0.771	0.76	0.76	0.759		
Turbidity (NTUs)	17.5	22.1	22.1	28.5	24.4	21.1		
Dissolved Oxygen (g/L)	3.61	2.19	1.8	1.75	1.73	1.71		
Water Temperature (°C)	14.73	14.99	15.02	14.96	14.9	14.98		
ORP (mV)	-112.2	-104.2	-99.1	-96.2	-96	-95.6		

Physical appearance at start — Color: clear; Odor: no
Sheen/Free Product: no

Physical appearance at sampling — Color: clear; Odor: no
Sheen/Free Product: ____

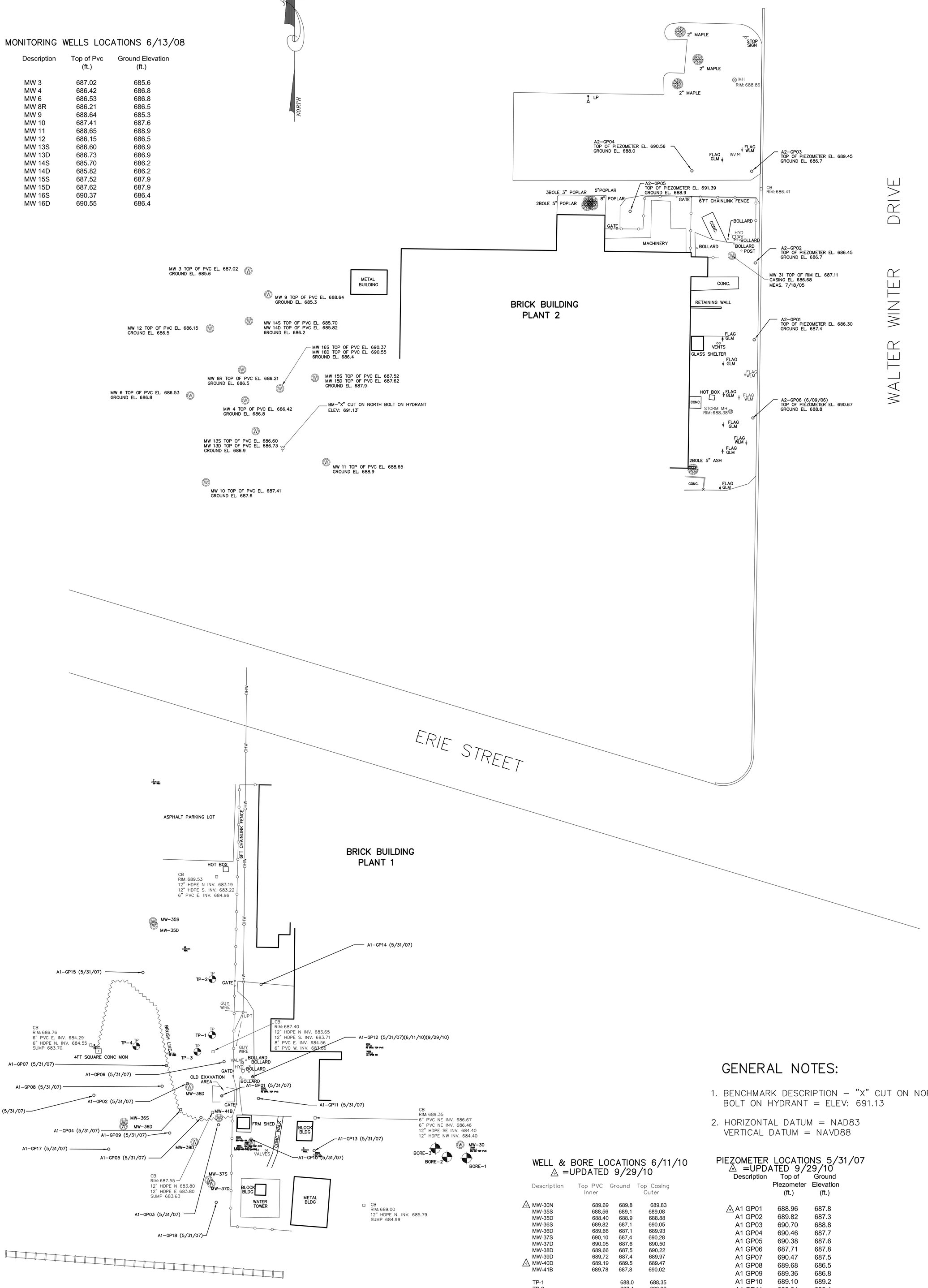
COMMENTS/OBSERVATIONS: Start purging at 16:55. Samples collected at 17:30.

Appendix D

Site Survey and ALTA Requirements

MONITORING WELLS LOCATIONS 6/13/08

Description	Top of Pvc (ft.)	Ground Elevation (ft.)
MW 3	687.02	685.6
MW 4	686.42	686.8
MW 6	686.53	686.8
MW 8R	686.21	686.5
MW 9	688.64	685.3
MW 10	687.41	687.6
MW 11	688.65	688.9
MW 12	686.15	686.5
MW 13S	686.60	686.9
MW 13D	686.73	686.9
MW 14S	685.70	686.2
MW 14D	685.82	686.2
MW 15S	687.52	687.9
MW 15D	687.62	687.9
MW 16S	690.37	686.4
MW 16D	690.55	686.4



GENERAL NOTES:

1. BENCHMARK DESCRIPTION – "X" CUT ON NORTH BOLT ON HYDRANT = ELEV: 691.13
2. HORIZONTAL DATUM = NAD83
   VERTICAL DATUM = NAVD88

WELL & BORE LOCATIONS 6/11/10
△ =UPDATED 9/29/10

Description	Top PVC Inner	Ground	Top Casing Outer
△ MW-30N	689.69	689.8	689.83
MW-35S	688.56	689.1	689.08
MW-35D	688.40	688.9	688.88
MW-36S	689.82	687.1	690.05
MW-36D	689.66	687.1	689.93
MW-37S	690.10	687.4	690.28
MW-37D	690.05	687.6	690.50
MW-38D	689.66	687.5	690.22
MW-39D	689.72	687.4	689.97
△ MW-40D	689.19	689.5	689.47
MW-41B	689.78	687.8	690.02
TP-1		688.0	688.35
TP-2		687.4	688.92
TP-3		687.4	688.54
TP-4		687.2	689.07
BORE-1		689.6	
BORE-2		689.7	
BORE-3		689.9	
△ AI GP12S	689.50	689.5	

PIEZOMETER LOCATIONS 5/31/07
△ =UPDATED 9/29/10

Description	Top of Piezometer (ft.)	Ground Elevation (ft.)
△ A1 GP01	688.96	687.8
A1 GP02	689.82	687.3
A1 GP03	690.70	688.8
A1 GP04	690.46	687.7
A1 GP05	690.38	687.6
A1 GP06	687.71	687.8
A1 GP07	690.47	687.5
A1 GP08	689.68	686.5
A1 GP09	689.36	686.8
A1 GP10	689.10	689.2
A1 GP11	689.34	689.4
A1 GP12	689.18	689.4
A1 GP13	689.69	689.8
A1 GP14	689.43	689.7
A1 GP15	687.69	688.0
A1 GP16	689.86	686.6
A1 GP17	690.11	687.0
A1 GP18	690.37	687.5

MAP NUMBER: **58608A**
Sheet 1 of 1

TOWN OF LANCASTER NEW YORK
2006.0030.00

PIEZOMETER LOCATION
SCOTT AVIATION SITE ERIE STREET
LANCASTER NEW YORK

TVGA CONSULTANTS
1000 MAPLE ROAD
ELMA, NEW YORK 14059-9530
P. 716.655.8842
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Designed by: DRH	Field Date: 3/3/06 Office Date: 3/7/06
Drawn by: △ RJN	Job No. 2006.0030.00
Checked by: DRH	Book: Page: Map: 58608A
Dwg Scale: Horiz: 1"=40' Vert:	File Name: 58608a-2d.dwg

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NOTE:
UNAUTHORIZED ALTERATION OR ADDITION TO ANY SURVEY, DRAWING, DESIGN SPECIFICATION PLAN OR REPORT IS A VIOLATION OF SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

REV	DESCRIPTION	DATE	BY
7	ADDITIONAL WELLS / BORES ADDED	9/29/10	WNW
6	ADDITIONAL WELLS / BORES ADDED	6/11/10	WNW
5	MONITORING WELL 31 PLOTTED	7/24/09	WNW
4	MONITORING WELLS LOCATED	6/13/08	RJN
3	PIEZOMETERS TABLE ADDED	6/19/07	WNW
2	ADDITIONAL PIEZOMETERS LOCATED	5/31/07	GEM
1	ADDITIONAL PIEZOMETERS LOCATED	6/09/06	RJN

2005 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS as adopted by American Land Title Association and National Society of Professional Surveyors

(a member organization of the American Congress on Surveying and Mapping)

It is recognized that members of the American Land Title Association (ALTA) have specific needs, peculiar to title insurance matters, which require particular information for acceptance by title insurance companies when said companies are asked to insure title to land without exception as to the many matters which might be discoverable from survey and inspection and not be evidenced by the public records. In the general interest of the public, the surveying profession, title insurers and abstracters, ALTA and the National Society of Professional Surveyors, Inc. (NSPS) jointly promulgate and set forth such details and criteria for standards. It is recognized and understood that local and state standards or standards of care, which surveyors in those respective jurisdictions are bound by, may augment, or even require variations to the standards outlined herein. Where conflicts between the standards outlined herein and any jurisdictional statutes or regulations occur, the more restrictive requirement shall apply. It is also recognized that title insurance companies are entitled to rely on the survey furnished to them to be of an appropriate professional quality, both as to completeness and as to accuracy. It is equally recognized that for the performance of a survey, the surveyor will be provided with appropriate data which can be relied upon in the preparation of the survey.

For a survey of real property and the plat or map of the survey to be acceptable to a title insurance company for purposes of insuring title to said real property free and clear of survey matters (except those matters disclosed by the survey and indicated on the plat or map), certain specific and pertinent information shall be presented for the distinct and clear understanding between the client (insured), the title insurance company (insurer), and the surveyor (the person professionally responsible for the survey). These requirements are:

1. The client shall request the survey or arrange for the survey to be requested and shall provide a written authorization to proceed with the survey from the person responsible for paying for the survey. Unless specifically authorized in writing by the insurer, the insurer shall not be responsible for any costs associated with the preparation of the survey. The request shall specify that an **"ALTA/ACSM LAND TITLE SURVEY"** is required and shall designate which of the optional items listed in Table A are to be incorporated. The request shall set forth the record description of the property to be surveyed or, in the case of an original survey, the record description of the parent parcel that contains the property to be surveyed. Complete copies of the record description of the property (or, in the case of an original survey, the parent parcel), any record easements benefiting the property; the record easements or servitudes and covenants burdening the property ("Record Documents"); documents of record referred to in the Record Documents; and any other documents containing desired appropriate information affecting the property being surveyed and to which the survey shall make reference shall be provided to the surveyor for notation on the plat or map of survey.

2. The plat or map of such survey shall bear the name, address, telephone number, and signature of the professional land surveyor who performed the survey, his or her official seal and registration number, the date the survey was completed, the dates of all of the surveyor's revisions and the caption "ALTA/ACSM Land Title Survey" with the certification set forth in paragraph 8.

3. An "**ALTA/ACSM LAND TITLE SURVEY**" shall be in accordance with the then-current "Accuracy Standards for Land Title Surveys" ("Accuracy Standards") as adopted, from time to time by the National Society of Professional Surveyors and the American Land Title Association and incorporated herein by reference.

4. On the plat or map of an "**ALTA/ACSM LAND TITLE SURVEY**," the survey boundary shall be drawn to a convenient scale, with that scale clearly indicated. A graphic scale, shown in feet or meters or both, shall be included. A north arrow shall be shown and when practicable, the plat or map of survey shall be oriented so that north is at the top of the drawing. Symbols or abbreviations used shall be identified on the face of the plat or map by use of a legend or other means. If necessary for clarity, supplementary or exaggerated diagrams shall be presented accurately on the plat or map. The plat or map shall be a minimum size of 8½ by 11 inches.

5. The survey shall be performed on the ground and the plat or map of an "**ALTA/ACSM LAND TITLE SURVEY**" shall contain, in addition to the required items already specified above, the following applicable information:

(a) All data necessary to indicate the mathematical dimensions and relationships of the boundary represented, with angles given directly or by bearings, and with the length and radius of each curve, together with elements necessary to mathematically define each curve. The point of beginning of the surveyor's description shall be shown as well as the remote point of beginning if different. A bearing base shall refer to some well-fixed line, so that the bearings may be easily re-established. The North arrow shall be referenced to its bearing base and should that bearing base differ from record title, that difference shall be noted.

(b) When record bearings or angles or distances differ from measured bearings, angles or distances, both the

record and measured bearings, angles, and distances shall be clearly indicated. If the record description fails to form a mathematically closed figure, the surveyor shall so indicate.

(c) Measured and record distances from corners of parcels surveyed to the nearest right-of-way lines of streets in urban or suburban areas, together with recovered lot corners and evidence of lot corners, shall be noted. For streets and highways abutting the property surveyed, the name, the width and location of pavement relative to the nearest boundary line of the surveyed tract, and the width of existing rights of way, where available from the controlling jurisdiction, shall be shown. Observable evidence of access (or lack thereof) to such abutting streets or highways shall be indicated. Observable evidence of private roads shall be so indicated. Streets abutting the premises, which have been described in Record Documents, but not physically opened, shall be shown and so noted.

(d) The identifying titles of all recorded plats, filed maps, right of way maps, or similar documents which the survey represents, wholly or in part, shall be shown with their appropriate recording data, filing dates and map numbers, and the lot, block, and section numbers or letters of the surveyed premises. For non-platted adjoining land, names, and recording data identifying adjoining owners as they appear of record shall be shown. For platted adjoining land, the recording data of the subdivision plat shall be shown. The survey shall indicate platted setback or building restriction lines which have been recorded in subdivision plats or which appear in Record Documents which have been delivered to the surveyor. Contiguity, gores, and overlaps along the exterior boundaries of the surveyed premises, where ascertainable from field evidence or Record Documents, or interior to those exterior boundaries, shall be clearly indicated or noted. Where only a part of a recorded lot or parcel is included in the survey, the balance of the lot or parcel shall be indicated.

(e) All evidence of monuments shall be shown and noted to indicate which were found and which were placed. All evidence of monuments found beyond the surveyed premises on which establishment of the corners of the surveyed premises are dependent, and their application related to the survey shall be indicated.

(f) The character of any and all evidence of possession shall be stated and the location of such evidence carefully given in relation to both the measured boundary lines and those established by the record. An absence of notation on the survey shall be presumptive of no observable evidence of possession.

(g) The location of all buildings upon the plot or parcel shall be shown and their locations defined by measurements perpendicular to the nearest perimeter boundaries. The precision of these measurements shall be commensurate with the Relative Positional Accuracy of the survey as specified in the current Accuracy Standards for ALTA/ACSM Land Title Surveys. If there are no buildings erected on the property being surveyed, the plat or map shall bear the statement, "No buildings." Proper street numbers shall be shown where available.

(h) All easements evidenced by Record Documents which have been delivered to the surveyor shall be shown, both those burdening and those benefiting the property surveyed, indicating recording information. If such an easement cannot be located, a note to this effect shall be included. Observable evidence of easements and/or servitudes of all kinds, such as those created by roads; rights-of-way; water courses; drains; telephone, telegraph, or electric lines; water, sewer, oil or gas pipelines on or across the surveyed property and on adjoining properties if they appear to affect the surveyed property, shall be located and noted. If the surveyor has knowledge of any such easements and/or servitudes, not observable at the time the present survey is made, such lack of observable evidence shall be noted. Surface indications, if any, of underground easements and/or servitudes shall also be shown.

(i) The character and location of all walls, buildings, fences, and other visible improvements within five feet of each side of the boundary lines shall be noted. Without expressing a legal opinion, physical evidence of all encroaching structural appurtenances and projections, such as fire escapes, bay windows, windows and doors that open out, flue pipes, stoops, eaves, cornices, areaways, steps, trim, etc., by or on adjoining property or on abutting streets, on any easement or over setback lines shown by Record Documents shall be indicated with the extent of such encroachment or projection. If the client wishes to have additional information with regard to appurtenances such as whether or not such appurtenances are independent, division, or party walls and are plumb, the client will assume the responsibility of obtaining such permissions as are necessary for the surveyor to enter upon the properties to make such determinations.

(j) Driveways, alleys and other ways of access on or crossing the property must be shown. Where there is evidence of use by other than the occupants of the property, the surveyor must so indicate on the plat or map. Where driveways or alleys on adjoining properties encroach, in whole or in part, on the property being surveyed, the surveyor must so indicate on the plat or map with appropriate measurements.

(k) As accurately as the evidence permits, the location of cemeteries and burial grounds (i) disclosed in the Record Documents provided by client or (ii) observed in the process of performing the field work for the survey, shall be shown.

(l) Ponds, lakes, springs, or rivers bordering on or running through the premises being surveyed shall be shown.

6. As a minimum requirement, the surveyor shall furnish two sets of prints of the plat or map of survey to

the title insurance company or the client. If the plat or map of survey consists of more than one sheet, the sheets shall be numbered, the total number of sheets indicated and match lines be shown on each sheet. The prints shall be on durable and dimensionally stable material of a quality standard acceptable to the title insurance company. The record title description of the surveyed tract, or the description provided by the client, and any new description prepared by the surveyor must appear on the face of the plat or map or otherwise accompany the survey. When, in the opinion of the surveyor, the results of the survey differ significantly from the record, or if a fundamental decision related to the boundary resolution is not clearly reflected on the plat or map, the surveyor may explain this information with notes on the face of the plat or map or in accompanying attachments. If the relative positional accuracy of the survey exceeds that allowable, the surveyor shall explain the site conditions that resulted in that outcome with a note on the face of the map or plat.

7. Water boundaries necessarily are subject to change due to erosion or accretion by tidal action or the flow of rivers and streams. A realignment of water bodies may also occur due to many reasons such as deliberate cutting and filling of bordering lands or by avulsion. Recorded surveys of natural water boundaries are not relied upon by title insurers for location of title.

When a property to be surveyed for title insurance purposes contains a natural water boundary, the surveyor shall measure the location of the boundary according to appropriate surveying methods and note on the plat or map the date of the measurement and the caveat that the boundary is subject to change due to natural causes and that it may or may not represent the actual location of the limit of title. When the surveyor is aware of changes in such boundaries, the extent of those changes shall be identified.

8. When the surveyor has met all of the minimum standard detail requirements for an ALTA/ACSM Land Title Survey, the following certification shall be made on the plat:

To (name of client), (name of lender, if known), (name of title insurance company, if known), (name of others as instructed by client):

This is to certify that this map or plat and the survey on which it is based were made in accordance with the "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA and NSPS in 2005, and includes Items _____ of Table A thereof. Pursuant to the Accuracy Standards as adopted by ALTA and NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of _____, the Relative Positional Accuracy of this survey does not exceed that which is specified therein.

Date: (signed) (seal)
Registration No.

NOTE: If, as otherwise allowed in the Accuracy Standards, the Relative Positional Accuracy exceeds that which is specified therein, the following certification shall be made on the plat:

To (name of client), (name of lender, if known), (name of title insurance company, if known), (name of others as instructed by client):

This is to certify that this map or plat and the survey on which it is based were made in accordance with the "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA and NSPS in 2005, and includes Items _____ of Table A thereof. Pursuant to the Accuracy Standards as adopted by ALTA and NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of _____, the maximum Relative Positional Accuracy is _____feet.

Date: (signed) (seal)
Registration No.

The 2005 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys are effective January 1, 2006. As of that date, all previous versions of the Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys are superseded by these 2005 standards.

Adopted by the American Land Title Association on October 5, 2005.
Adopted by the Board of Directors, National Society of Professional Surveyors on October 24, 2005.
American Land Title Association, 1828 L St., N.W., Suite 705, Washington, D.C. 20036.
National Society of Professional Surveyors, Inc., 6 Montgomery Village Avenue, Suite 403, Gaithersburg, MD 20879

TABLE A

OPTIONAL SURVEY RESPONSIBILITIES AND SPECIFICATIONS

NOTE: The items of Table A must be negotiated between the surveyor and client. It may be necessary for the surveyor to qualify or expand upon the description of these items, e.g., in reference to Item 6, there may be a need for an interpretation of a restriction. The surveyor cannot make a certification on the basis of an interpretation or opinion of another party. Items 16, 17 and 18 are only for use on projects for the U.S. Department of Housing and Urban Development (HUD).

If checked, the following optional items are to be included in the ALTA/ACSM LAND TITLE SURVEY, except as otherwise negotiated:

1. _____ *Monuments placed (or a reference monument or witness to the corner) at all major corners of the boundary of the property, unless already marked or referenced by an existing monument or witness to the corner.*

2. _____ *Vicinity map showing the property surveyed in reference to nearby highway(s) or major street intersection(s).*

3. _____ *Flood zone designation (with proper annotation based on federal Flood Insurance Rate Maps or the state or local equivalent, by scaled map location and graphic plotting only.)*

4. _____ *Gross land area (and other areas if specified by the client).*

5. _____ *Contours and the datum of the elevations.*

6. _____ *List setback, height, and floor space area restrictions disclosed by applicable zoning or building codes (beyond those required under paragraph 5d of these standards). If none, so state. The source of such information must be disclosed. See "Note" above.*

7. _____ *(a) Exterior dimensions of all buildings at ground level*

(b) Square footage of:

_____ *(1) exterior footprint of all buildings at ground level*

_____ *(2) gross floor area of all buildings; or*

_____ *(3) other areas to be defined by the client*

_____ *(c) Measured height of all buildings above grade at a defined location. If no defined location is provided, the point of measurement shall be shown.*

8. _____ *Substantial, visible improvements (in addition to buildings) such as billboards, signs, parking structures, swimming pools, etc.*

9. _____ *Parking areas and, if striped, the striping and the type (e.g. handicapped, motorcycle, regular, etc.) and number of parking spaces.*

10. _____ *Indication of access to a public way on land such as curb cuts and driveways, and to and from waters adjoining the surveyed tract, such as boat slips, launches, piers and docks..*

11. *Location of utilities (representative examples of which are shown below) existing on or serving the surveyed property as determined by:*

_____ *(a) Observed evidence*

_____ *(b) Observed evidence together with evidence from plans obtained from utility companies or provided by client, and markings by utility companies and other appropriate sources (with reference as to the source of information)*

- *railroad tracks and sidings;*
- *manholes, catch basins, valve vaults or other surface indications of subterranean uses;*
- *wires and cables (including their function, if readily identifiable) crossing the surveyed premises, all poles on or within ten feet of the surveyed premises, and the dimensions of all crossmembers or overhangs affecting the surveyed premises; and*
- *utility company installations on the surveyed premises.*

12. _____ *Governmental Agency survey-related requirements as specified by the client.*

13. _____ *Names of adjoining owners of platted lands.*

14. _____ *The distance to the nearest intersecting street as designated by the client*

15. _____ *Rectified orthophotography, photogrammetric mapping, laser scanning and other similar products, tools or technologies may be utilized as the basis for the location of certain features (excluding boundaries) where ground measurements are not otherwise necessary to locate those features to an appropriate and acceptable accuracy relative to a nearby boundary. The surveyor shall (a) discuss the ramifications of such methodologies (e.g. the potential accuracy and completeness of the data gathered thereby) with the title company, lender and client prior to the performance of the survey and, (b) place a note on the face of the survey explaining the source, date, relative accuracy and other relevant qualifications of any such data.*

16. _____ *Observable evidence of earth moving work, building construction or building additions within recent months.*

17. _____ *Any changes in street right of way lines either completed or proposed, and available from the controlling jurisdiction. Observable evidence of recent street or sidewalk construction or repairs.*

18. _____ *Observable evidence of site use as a solid waste dump, sump or sanitary landfill.*

19. _____

Accuracy Standards for ALTA/ACSM Land Title Surveys

Introduction

These Accuracy Standards address Relative Positional Accuracies for measurements that control land boundaries on ALTA/ACSM Land Title Surveys.

In order to meet these standards, the surveyor must assure and certify that the Relative Positional Accuracies resulting from the measurements made on the survey do not exceed that which is allowable.

If the size or configuration of the property to be surveyed, or the relief, vegetation or improvements on the property will result in survey measurements for which the allowable Relative Positional Accuracies will be exceeded, the surveyor must alternatively certify as to the Relative Positional Accuracy that was otherwise achieved on the survey.

Definition:

"Relative Positional Accuracy" means the value expressed in feet or meters that represents the uncertainty due to random errors in measurements in the location of any point on a survey relative to any other point on the same survey at the 95 percent confidence level.

Background

The lines and corners on any property survey have uncertainty in location which is the result of (1) availability and condition of reference monuments, (2) occupation or possession lines as they may differ from record lines, (3) clarity or ambiguity of the record descriptions or plats of the surveyed tracts and its adjoiners and (4) Relative Positional Accuracy.

The first three sources of uncertainty must be weighed as evidence in the determination of where, in the professional surveyor's opinion, the boundary lines and corners should be placed. Relative Positional Accuracy is related to how accurately the surveyor is able to monument or report those positions.

Of these four sources of uncertainty, only Relative Positional Accuracy is controllable, although due to the inherent error in any measurement, it cannot be eliminated. The first three can be estimated based on evidence; Relative Positional Accuracy can be estimated using statistical means.

The surveyor shall, to the extent necessary to achieve the standard contained herein, (1) compensate or correct for systematic errors, including those associated with instrument calibration, (2) select the appropriate equipment and methods, and use trained personnel and (3) use appropriate error propagation and other measurement design theory to select the proper instruments, field procedures, geometric layouts and computational procedures to control random errors.

If radial survey methods, GPS or other acceptable technologies or procedures are used to locate or establish points on the survey, the surveyor shall apply appropriate procedures in order to assure that the allowable Relative Positional Accuracy of such points is not exceeded.

Computation of Relative Positional Accuracy

Relative Positional Accuracy may be tested by:
(1) comparing the relative location of points in a survey as measured by an independent survey of higher accuracy or
(2) the results of a minimally constrained, correctly weighted least square adjustment of the survey.

Allowable Relative Positional Accuracy for Measurements Controlling Land Boundaries on ALTA/ACSM Land Title Surveys

0.07 feet (or 20 mm) + 50 ppm

Appendix E

NYSDOH Indoor Air Quality SVI Questionnaire

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name: Jesse Lloyd Sampling Date/Time: 6-1-10 to 6-2-10 / 16:00 to 16:00

Preparer's Affiliation: AECOM Environmental Phone No: 607-351-9543

Purpose of Investigation: To evaluate the potential for potentially contaminated groundwater to adversely impact the indoor air.

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Saskowski First Name: William

Address: 225 Erie Street, Lancaster, NY

County: Erie

Home Phone: (716)686-1589 cell Office Phone: (716)683-5100

Number of Occupants/persons at this location: approximately 360 people work at this facility
Age of Occupants: Of working age.

2. OWNER OR LANDLORD: (Check if same as occupant)

Interviewed: Y / (N)

Last Name: First Name:

Address:

County:

Home Phone: Office Phone:

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
(Industrial)	Church	Other:

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	(Other) Non-residential

If multiple units, how many? NA

If the property is commercial, type? Yes

Business Type(s): Produces aviation oxygen reactors

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors: 2 Building age: 1930's, but has many additions over the years

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow pattern and qualitatively describe:

Airflow between floors:
There was only a ground floor in the sampling areas. Smoke gently floated upwards. In the boiler room area where SS2 and IA2 were taken, the smoke was affected by wind coming under the doors.

Airflow near source:
There is no isolated, specific source area. The smoke generally gently floated upwards in sampling area.

Outdoor air infiltration:
There was not much outdoor air infiltration in the rooms where IA1/SS1 and IA3/SS3 were taken.
In the boiler room area where SS2 and IA2 were taken, the smoke was affected by wind coming under the doors.

Infiltration into air ducts: No air ducts were observed.

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

-There was no basement in the sampling areas.

a. Above grade construction: wood frame concrete stone brick (other: Cinder block)

b. Basement type: full crawlspace slab (other: No basement is present)

c. Basement floor: concrete dirt stone (other: No basement is present)

d. Basement floor: uncovered covered covered with: NA

e. Concrete floor: unsealed (sealed) sealed with:

f. Foundation walls: poured block stone other: NA

g. Foundation walls: unsealed sealed sealed with: NA

h. The basement is: wet damp dry moldy: NA

i. The basement is: finished unfinished partly finished: NA

j. Sump present? Y / (N)

k. Water in sump? Y / (N / not applicable)

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size. (e.g., cracks, utility ports, drains)

There is a utility duct in the room where SV1 was taken.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	(Hot water baseboard)	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood Stove	Outdoor wood boiler	(Other: Central air)

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement Outdoor (Main Floor) Other:

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? Y / (N)

Describe the supply and air return ductwork, and its condition where visible, including whether There is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram,

NA

7. OCCUPANCY

Is basement /lowest level occupied? Full-time (Occasionally) Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement: Offices - The area where offices are located in the basement is far from where the samples were taken.

1st Floor: Offices, production facilities and storage

2nd Floor: Offices

3rd Floor: NA

4th Floor: NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage? (e.g., lawnmower, atv, car) (Y) / N / NA Skid steer

d. Has the building ever had a fire? Y / (N) When?

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type?

g. Is there smoking in the building? Y / (N) How frequently?

h. Have cleaning products been used recently? Y (/ N) When & Type?

i. Have cosmetic products been used recently? Y / (N) When & Type?

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When?

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When?

l. Have air fresheners been used recently? Y / (N) When & Type?

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented?

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented?

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? (Y) / N When & Type?
-They spray for ants in the bathroom and cafeteria areas, these areas are not near the sampling area.

Are there odors in the building? Y / (N)

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Degreasers, thread lock and lubricants.

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation:
Is the system active or passive? Active / Passive - NA

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other:

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: Relocation is not recommended

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel -(**NA**)

c. Responsibility for costs associated with reimbursement explained? Y / N -(NA)

d. Relocation package provided and explained to residents? Y / N -(NA)

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter readings. If the building does not have a basement, please note.

Basement: Please refer to attached pages

First Floor:

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being samples. If applicable, provide information on spill locations, potential air contamination sources (industrial, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s), and PID meter readings.

Also indicate compass direction, wind direction, and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rea 3000 ppb Rea

No products containing VOCs were observed in the locker room area.

List specific products found in the residence that have the potential to affect indoor air quality

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Readings (units)	Photo** Y/N

*Describe the conditions of the product containers as **Unopened (UO),** or **Deteriorated (D)**

Photographs of the **front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredients labels must be legible.

Soil Vapor Sampling Log Sheet
Indoor Air Sample ID: SS-1 Indoor
Sub-slab Vapor Sample ID: SS-1 Sub-slab

Client: Tyco Safety Products
Project Name: Former Scott Aviation Facility
Location: Lancaster, New York
Date: 6-1-10 to 6-2-10
Sampler: Jesse Lloyd

Indoor Air Sample ID: SS-1 Indoor
Location: Compressor Room
Canister Number: 2910
Starting Time/Date: 16:55/6-1-10 **Starting Pressure**: -30.0
Finish Time/Date: 17:00/6-2-10 **Final Pressure**: -7.0

Comments: PID readings near sample fluctuated between 10-30 ppb.

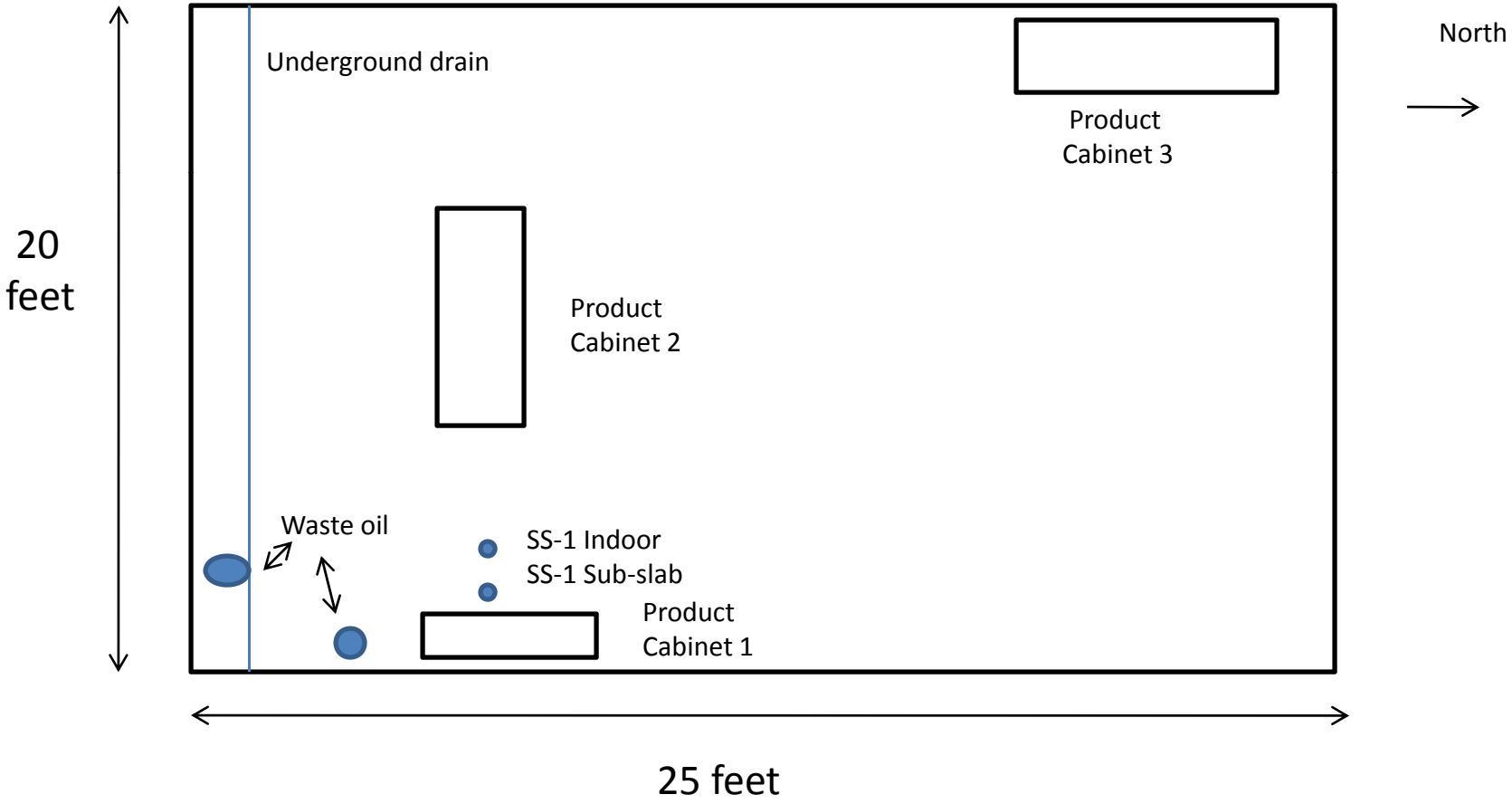
Sub-slab Sample ID: SS-1 Sub-slab
Canister Number: 4210
Core Diameter: ½ inch
Floor Thickness: 6.5 inches
Starting Time/Date: 16:55/6-1-10 **Starting Pressure**: -30.0
Finish Time/Date: 17:00/6-2-10 **Final Pressure**: -8.0

Comments: PID measurement in core through the floor was 2,200 ppb before sampling.

General Weather Conditions: Wind from the west, southwest at 5-15 mph, gusting up to 35 mph. Barometric pressure was steady at 29.8 in of Hg until noon on 6-2-10 when it dropped to 29.7 in of Hg by 17:00 on 6-2-10. There was no rain during sampling.

Chemical Inventory: See attached sheets.

Former Scott Aviation Facility, Lancaster, New York
Compressor Room
SVI samples SS-1 Indoor and SS-1 Sub-slab



Soil Vapor Sampling Log Sheet
Indoor Air Sample ID: SS-2 Indoor
Sub-slab Vapor Sample ID: SS-2 Sub-slab

Client: Tyco Safety Products
Project Name: Former Scott Aviation Facility
Location: Lancaster, New York
Date: 6-1-10 to 6-2-10
Sampler: Jesse Lloyd

Indoor Air Sample ID: SS-2 Indoor
Location: Boiler Room
Canister Number: 2565
Starting Time/Date: 16:50/6-1-10 **Starting Pressure**: -28.0
Finish Time/Date: 16:00/6-2-10 **Final Pressure**: -7.0

Comments: PID readings near sample were 0 ppb.

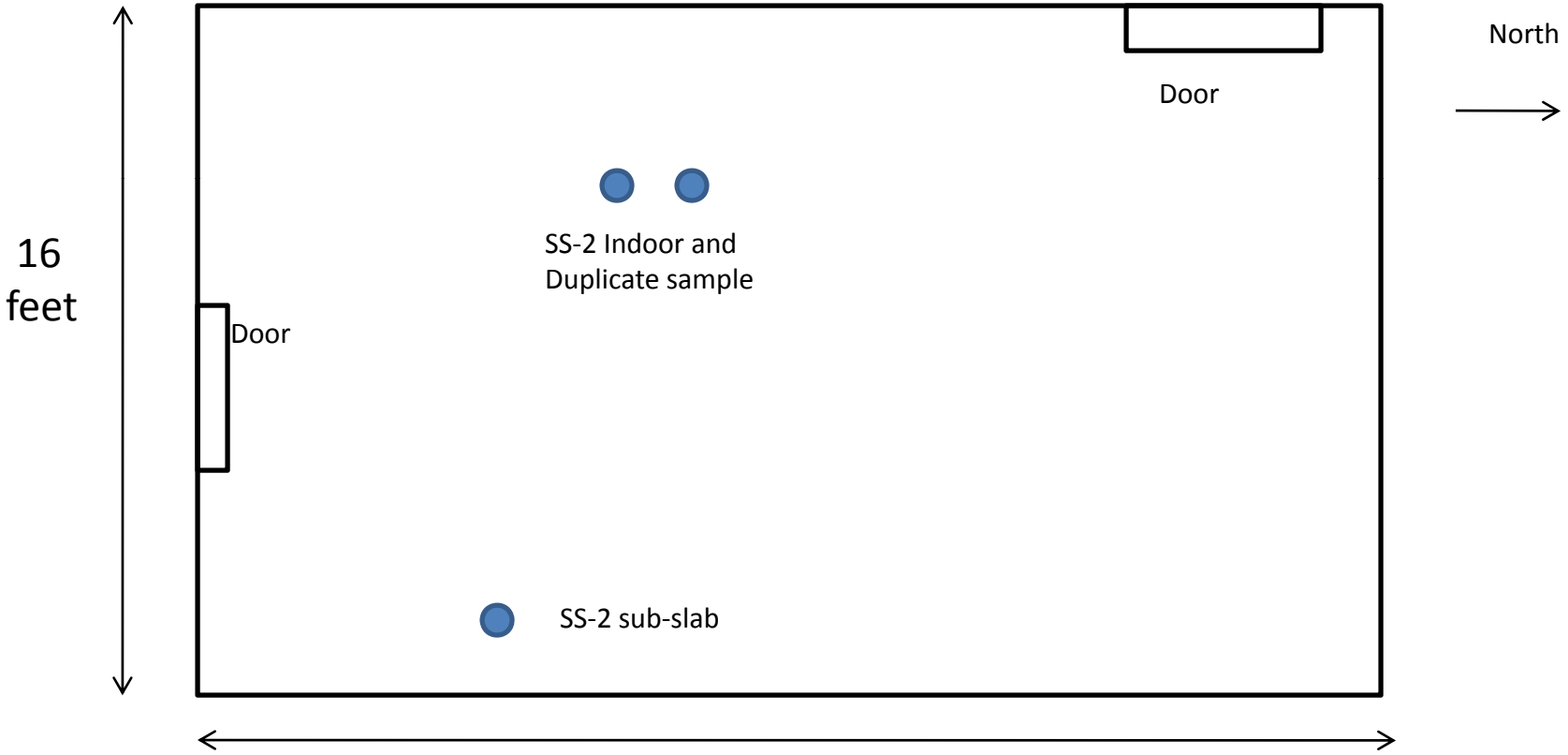
Sub-slab Sample ID: SS-2 Sub-slab
Canister Number: 3303
Core Diameter: ½ inch
Floor Thickness: 6.5 inches
Starting Time/Date: 16:50/6-1-10 **Starting Pressure**: -30.0
Finish Time/Date: 16:55/6-2-10 **Final Pressure**: -7.0

Comments: PID measurement in core through the floor was 8,500 ppb before sampling.

General Weather Conditions: Wind from the west, southwest at 5-15 mph, gusting up to 35 mph. Barometric pressure was steady at 29.8 in of Hg until noon on 6-2-10 when it dropped to 29.7 in of Hg by 17:00 on 6-2-10. There was no rain during sampling.

Chemical Inventory: See attached sheets.

Former Scott Aviation Facility, Lancaster, New York
Boiler Room
SVI samples SS-2 Indoor and SS-2 Sub-slab



-No VOC containing products observed in this room

Soil Vapor Sampling Log Sheet
Indoor Air Sample ID: SS-3 Indoor
Sub-slab Vapor Sample ID: SS-3 Sub-slab

Client: Tyco Safety Products
Project Name: Tyco Safety Products
Location: Lancaster, New York
Date: 6-1-10 to 6-2-10
Sampler: Jesse Lloyd

Indoor Air Sample ID: SS-3 Indoor
Location: Warehouse Room
Canister Number: 4996
Starting Time/Date: 16:53/6-1-10 **Starting Pressure**: -28.0
Finish Time/Date: 13:18/6-2-10 **Final Pressure**: -5.0

Comments: PID readings near sample were 0 ppb.

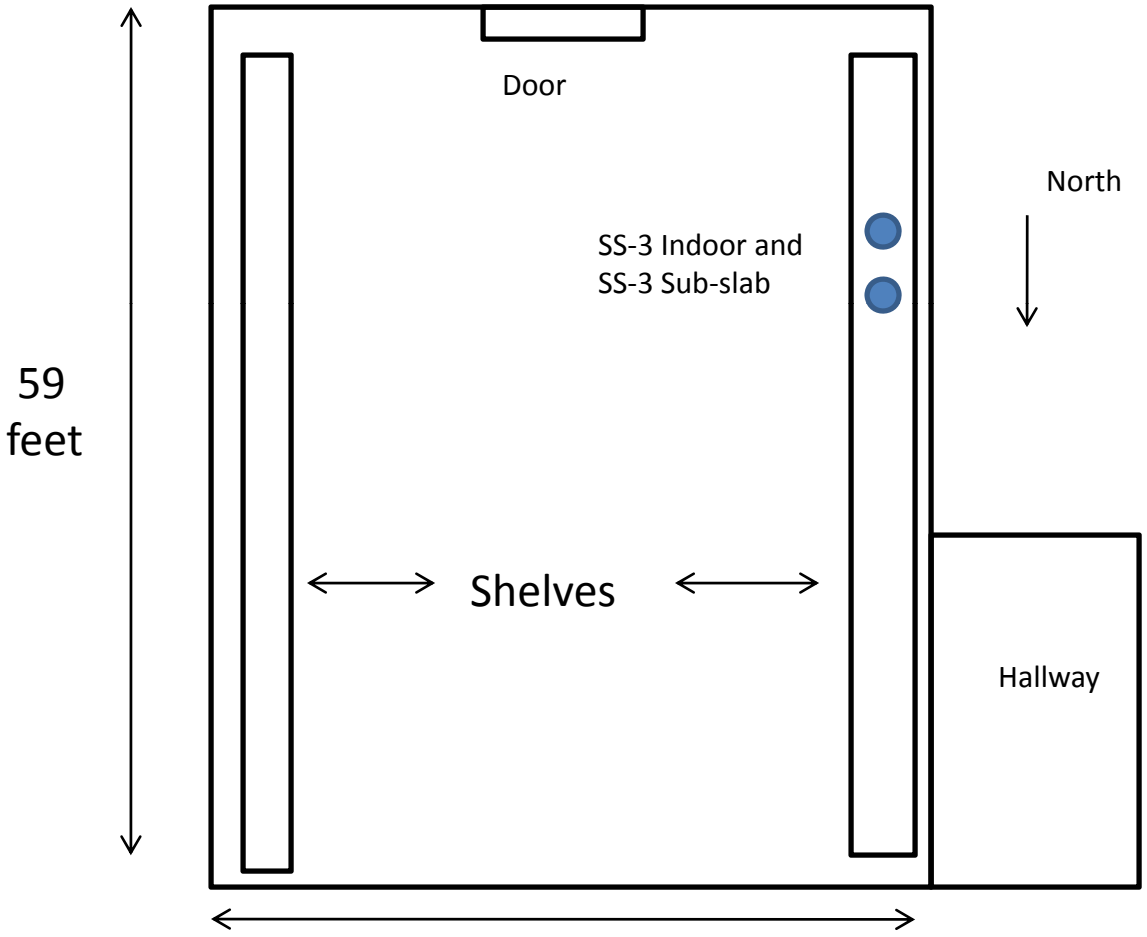
Sub-slab Sample ID: SS-3 Sub-slab
Canister Number: 4031
Core Diameter: ½ inch
Floor Thickness: 5.5 inches
Starting Time/Date: 16:53/6-1-10 **Starting Pressure**: -28.0
Finish Time/Date: 10:40/6-2-10 **Final Pressure**: -7.0

Comments: PID measurement in core through the floor was 2,500 ppb before sampling.

General Weather Conditions: Wind from the west, southwest at 5-15 mph, gusting up to 35 mph. Barometric pressure was steady at 29.8 in of Hg until noon on 6-2-10 when it dropped to 29.7 in of Hg by 17:00 on 6-2-10. There was no rain during sampling.

Chemical Inventory: See attached sheets.

Former Scott Aviation Facility, Lancaster, New York
Warehouse Room
SVI samples SS-3 Indoor and SS-3 Sub-slab



-No VOC containing products observed in this area

Former Scott Aviation Facility Chemical Inventory
Compressor Room
Sample Area for SS-1 Indoor and SS-1 Sub-slab

Product Cabinet 1

Product	Ingredients	Number of containers	Size	PID (ppb)
GRC Belt dressing	hexane butane	1	16oz	20
Pem-Kote - Gear, wire rope lubricant	petroleum distillates	1	22oz	20
IMS Silicone spray mold release	1,1 difluoroethane dimethyl ether petroleum distillates	1	16oz	20
STP Belt dressing	petroleum distillates heptane	1	16oz	20
CRC Heavy duty degreaser	tetrachloroethylene	1	19oz	1600
Rustoleum Primer	xylenes acetone	1	quart	40
McLube colorless hot mold release	heptane ethanol	1	12oz	20
Rustoleum metallic finish	toluene xylenes	1	quart	40
Permatex - Anti seize lube	petroleum distillates	1	16oz	10

There was one 55gal drum of waste oil and two open 5gal buckets of waster oil near Product Cabinet 1, measured 0 ppb.

Product Cabinet 2

Contained 19 one gallon cans of paint and enamel. Some said "No VOC containing"
PID readings in this area were fluxuated between 20 and 120 ppb.

Product	Ingredients	Number of containers	Size	PID (ppb)
Mirrolac WB - Enamel	naptha	4	1gal	40-60
Insl-X, Check rust	toluene	8	1gal	40-60
Rustoleum Proffesional Enamel	xylenes ethylbenzene	1	1gal	40-60
Pratt and Lambert Industrial Techgaurd Enamel	No ingredients could be found, can says "low VOC"	4	1gal	40-60

Former Scott Aviation Facility Chemical Inventory (cont.)
Compressor Room
Sample Area for SS-1 Indoor and SS-1 Sub-slab

Product Cabinet 3

Contained 38 one gallon cans of varius products. Some said "No VOC containing"

PID readings in this area were fluxuated between 10 and 100 ppb.

Product	Ingredients	Number of containers	Size	PID (ppb)
Ellicot Industrial Maintenance finish	No ingredients on cans, could not be found on the internet	6	1gal	
Pratt and Lambert (following products were manufactured by Pratt and Lambert)				
Enducryl Acrylic maintenance Enamel	No VOCs that were analyzed for	2	1gal	20
Interior Satin latex	No VOCs that were analyzed for	2	1gal	20
Accolate Interior semi gloss	No VOCs that were analyzed for	3	1gal	40
Palgard Gloss activator	No VOCs that were analyzed for	2	1gal	40
Glidden Drywall primer and sealer	No VOCs that were analyzed for	2	1gal	
Aquatile Water base epoxy enamel	No VOCs that were analyzed for	2	0.5gal	60
Thoro Water plug	No VOCs	1	1gal	10
Behr Enamel Undercoat primer and sealer	ethylene gylcol	2	1gal	10
Behr weater proofing woodstain	ethylene gylcol	1	1gal	10
Rustoleum High performance protective enamel	ethylbenzene mineral spirits	1	1gal	40
ProMar 200 interior latex	ethylene gylcol	2	1gal	20
Henry Cold cap roof cement 203	1,2,4 trimethylbenzene 1,2,4 trimethylbenzene petroeum asphalt xylenes	1	1gal	100
Devoe waterborne epoxy	2-butoxyethanol ethylene gylcol	1	1gal	20
Gardner Plastic roof cement	petroleum asphalt	2	5gal	30

Appendix F

Photograph Report

AECOM

REMEDIAL INVESTIGATION PHOTOGRAPH LOG

Client Name: Tyco Safety Products **Project No.:** 60155991	**Site Location:** Former Scott Aviation Facility Area - 1 BCP, Lancaster, New York	**NYSDEC Project No.: C915233**

Photo No.	**Date:**
1	5/26/10

Direction Photo Taken:

South

Description:

View of AECOM collecting equipment blank.

Photo No.	**Date:**
2	5/26/10

Direction Photo Taken:

East

Description:

View of QISI advancing augers at MW-35D.

Photo No. 3	Date: 5/26/10
Direction Photo Taken: Southeast	
Description: View of QISI advancing hollow stem augers at MW-35D.	

Photo No. 4	Date: 5/26/10
Direction Photo Taken: East	
Description: View of soil core from MW-35D (2-4' interval). Note pliability of reddish brown clay.	

Photo No. 5	Date: 5/26/10
Direction Photo Taken: East	
Description: View of soil core from MW-35D (6-8' interval). Note saturated zone at the top of the core.	

Photo No. 6	Date: 5/26/10
Direction Photo Taken: East	
Description: View of soil core from MW-35D (8-10' interval). Note homogeneous layer of stiff silty clay.	

Photo No. 7	Date: 5/26/10
Direction Photo Taken: East	
Description: View of soil core from MW-35D (12-14' interval). Note dark purple to medium brown layer of moist silty clay	

Photo No. 8	Date: 5/26/10
Direction Photo Taken: East	
Description: View of soil core from MW-35D (24-26' interval). Note medium grey sand and gravel (and rock chip) at the bottom of the core.	

Photo No. 9	Date: 5/26/10
Direction Photo Taken: Southeast	
Description: View of clay stuck in hollow stem auger fins at MW-35D.	

Photo No. 10	Date: 5/26/10
Direction Photo Taken: East	
Description: View of QISI advancing hollow stem auger at MW-35S.	

Photo No. 11	Date: 5/27/10
Direction Photo Taken: South	
Description: View of surface soil sample collection at MW-41B.	

Photo No. 12	Date: 5/27/10
Direction Photo Taken: South	
Description: View of existing piezometers (from right to left; GP07S, GP08S, GP02S, and GP04S) located along edge of grassy area.	

Photo No. 13	Date: 6/3/10
Direction Photo Taken: South	
Description: View of QISI moving drill rig.	

Photo No. 14	Date: 6/1/10
Direction Photo Taken: East	
Description: View of QISI coring bedrock at MW-41B.	

Photo No. 15	Date: 6/1/10
Direction Photo Taken: North	
Description: View of rock core from Run #1 (24.8 to 28.3 ft interval). Note one break is a fracture; other breaks are mechanical breaks formed while retrieving rock core from barrel.	

Photo No. 16	Date: 6/1/10
Direction Photo Taken: East	
Description: View of QISI removing rock core from core barrel (Run #3 – 32.8 to 34.8 ft interval).	

Photo No. 17	Date: 6/1/10
Direction Photo Taken: Southwest	
Description: View of QISI sealing Shelby tube from MW-41B (18 to 20 ft interval).	

Photo No. 18	Date: 6/2/10
Direction Photo Taken: West	
Description: View of temporary decontamination pad. Decontamination water was transferred to a 55-gallon drum at the end of each day.	

Photo No. 19	Date: 6/4/10
Direction Photo Taken: West	
Description: View of QISI decontaminating split spoon sampling equipment.	

Photo No. 20	Date: 6/2/10
Direction Photo Taken: East	
Description: View of the compressor room in AVOX Plant 1. SVI samples were collected in this room.	

Photo No. 21	Date: 6/2/10
Direction Photo Taken: East	
Description: View of paired SVI sub-slab/indoor air sample location SS-1. SVI SS-1 is located in the compressor room in AVOX Plant 1.	

Photo No. 22	Date: 6/2/10
Direction Photo Taken: Southeast	
Description: View of SVI sub-slab air sample location SS-2. SVI SS-2 is located in the boiler room in AVOX Plant 1. Note the indoor air sample location is approximately 5 feet west of the sub-sample location.	

Photo No. 23	Date: 6/2/10
Direction Photo Taken: Northwest	
Description: View of SVI indoor air sample location SS-2. SVI SS-2 is located in the boiler room in AVOX Plant 1. Note a duplicate sample is being collected at this location. Also note the sub-slab air sample location is approximately 5 feet east of the indoor air sample location.	

Photo No. 24	Date: 6/2/10
Direction Photo Taken: West	
Description: View of paired SVI sub-slab/indoor air sample location SS-3 (located on north side of room). SVI SS-3 is located in the warehouse room in AVOX Plant 1.	

Photo No. 25	Date: 6/2/10
Direction Photo Taken: North	
Description: View of paired SVI sub-slab/indoor air sample location SS-3. SVI SS-3 is located in the warehouse room in AVOX Plant 1.	

Photo No. 26	Date: 6/2/10
Direction Photo Taken: West	
Description: View of outdoor ambient air sample point AS-1.	

Photo No. 27	Date: 6/2/10
Direction Photo Taken: West	
Description: View of surface (0 to 0.2 ft interval) sample collection at DPT8-4.	

Photo No. 28	Date: 6/2/10
Direction Photo Taken: West	
Description: View of soil core from MW-40D (16 to 18 ft interval). Note reddish brown sitly clay and very fine medium grey sand layering.	

Photo No. 29	Date: 6/3/10
Direction Photo Taken: East	
Description: View of soil core from MW-39D (6 to 8 ft interval). Note reddish brown sitly clay and very fine medium grey sand to silt layering. Elevated PID readings (4 ppm) were recorded in layering between silty clay.	

Photo No. 30	Date: 6/3/10
Direction Photo Taken: East	
Description: Close up view of soil core from MW-39D (6 to 8 ft interval). Note reddish brown sitly clay and very fine medium grey sand to silt layering. Elevated PID readings (4 ppm) were recorded in layering between silty clay.	

Photo No. 31	Date: 6/3/10
Direction Photo Taken: North	
Description: View of clay collected from MW-38D (10 to 12 ft interval). Note high plasticity of clay and light olive colored silt layer. Elevated PID readings (4.5 ppm) were recorded in light olive colored silt.	

Photo No. 32	Date: 6/4/10
Direction Photo Taken: East	
Description: View of clay collected from MW-36D (12 to 14 ft interval). Note high plasticity of clay.	

Photo No. 33	Date: 6/3/10
Direction Photo Taken: North	
Description: View of core collected from MW-38D (18 to 20 ft interval). Note fine to medium gravel in reddish brown silt and clay.	

Photo No. 34	Date: 6/4/10
Direction Photo Taken: East	
Description: View of core collected from MW-36D (20 to 22 ft interval).	

Photo No. 35	Date: 6/4/10
Direction Photo Taken: East	
Description: View of bottom of split spoon from MW-36D (20 to 22 ft interval). Note bedrock (shale) in split spoon catch basket.	

Photo No. 36	Date: 6/3/10
Direction Photo Taken: North	
Description: View of rock fragments (shale) collected from MW-38D (20 to 22 ft interval).	

Photo No. 37	Date: 6/3/10
Direction Photo Taken: North	
Description: View of well pads at MW-35S and MW-35D.	

Photo No. 38	Date: 6/4/10
Direction Photo Taken: South	
Description: View of string line used to mark storm sewer pipe for installation of temporary piezometers.	

Photo No. 39	Date: 6/4/10
Direction Photo Taken: East	
Description: View of storm sewer bedding gravel at temporary piezometer TP-2.	

Photo No. 40	Date: 6/4/10
Direction Photo Taken: Northwest	
Description: View of storm sewer bedding gravel at temporary piezometer TP-1.	

Photo No. 41	Date: 6/4/10
Direction Photo Taken: North	
Description: View of IDW generated during RI well installation. Note drums are open for composite sampling for disposal characteristic analysis.	

Photo No. 42	Date: 6/9/10
Direction Photo Taken: West	
Description: View of well development activities at MW-35D.	

Photo No. 43	Date: 6/9/10
Direction Photo Taken: Northwest	
Description: View of well development activities at MW-38D. Note A1-GP02.	

Photo No. 44	Date: 6/17/10
Direction Photo Taken: South	
Description: View of groundwater sampling at MW-35D.	

Photo No. 45	Date: 6/18/10
Direction Photo Taken: South	
Description: View of groundwater sampling at MW-37S. Note MW-37D and A1GP18 in the background.	

Photo No. 46	Date: 6/18/10
Direction Photo Taken: South	
Description: View of groundwater sampling at MW-37D.	

Photo No. 47	Date: 6/18/10
Direction Photo Taken: South	
Description: View of groundwater sampling at MW-30.	

Photo No. 48	Date: 8/2/10
Direction Photo Taken: North	
Description: View of groundwater sampling at A1-GP15. Note MW-35S and MW-35D (flush mount completions) in the background.	

Photo No. 49	Date: 8/4/10
Direction Photo Taken: East	
Description: View of groundwater sampling at A1-GP04.	

Photo No. 50	Date: 9/2/10
Direction Photo Taken: South	
Description: View of hydraulic conductivity testing at MW-39D. Note solid PVC slug leaning against well and data transducer (blue cable) in well.	

Appendix G

Laboratory Analytical Data Packages (CD-ROM)

Appendix H

IDW Manifest and Disposal Certification

1245070 - 16314

HAZMAT BILL OF LADING/MANIFEST	1. Offeror's ID Number	2. Page 1 of	3. Emergency Response Phone	4. Tracking Number
	NYR000 [illegible]	1	[illegible]	1245070- 16314

OFFEROR

5. Offeror's Name and Mailing Address
SCOTT TECHNOLOGIES C.O TYCO SAFETY PRODUCTS / ONE TOWN CENTER ROAD BOCA RATON, FL 33486 (304)515-8536

Offeror's Site Address (if different than mailing address)
SCOTT [illegible] 25 A VAD[illegible] WINTER DRIVE LANCASTER, NY 14086 GEN: 99804

Offeror's Phone:

6. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC-ALBANY — U.S. EPA ID Number: IND058484114

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
WASTE RECOVERY SOLUTIONS, INC
343 KING STREET
MYERSTOWN, PA 17067
Facility's Phone: (717)866-3955

U.S. EPA ID Number: PAR000043026

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. NON-DOT/NON-RCRA REGULATED (SOIL CUTTINGS) (14x55)	014	DM	7000	P
	2.				
	3.				
	4.				
	5.				
	6.				
	7.				

13 Special Handling Instructions and Additional Information
1.LFI-12370_T#2502353

[1417538]

14 **OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Offeror's Printed/Typed Name: Dino Zack on behalf of TycoSafety — Signature: Dino Zack on behalf of Tyco — Month: 9 — Day: 2 — Year: 10

TRANSPORTER

15. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARK LUHR — Signature: [signature] — Month: 9 — Day: 2 — Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

16 Discrepancy

17. Designated Facility Owner or Operator: Certification of receipt of hazardous Bill of Lading/Manifest covered by the manifest except as noted in item 16

Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY TO OFFEROR

Deposit Date: 10/6/2010
Lockbox: 231987
Batch: 446
Transaction: 4

WASTE RECOVERY
solutions, inc.

343 King Street, Myerstown, PA 17067

PA DEP # 301333

CERTIFICATE OF DISPOSAL, RECYCLING, REUSE

Broker Name: **Heritage Environmental**

Generator Name: **Scott Technologies**

Document # **1245070-16314**

Date Received: **September 14, 2010**

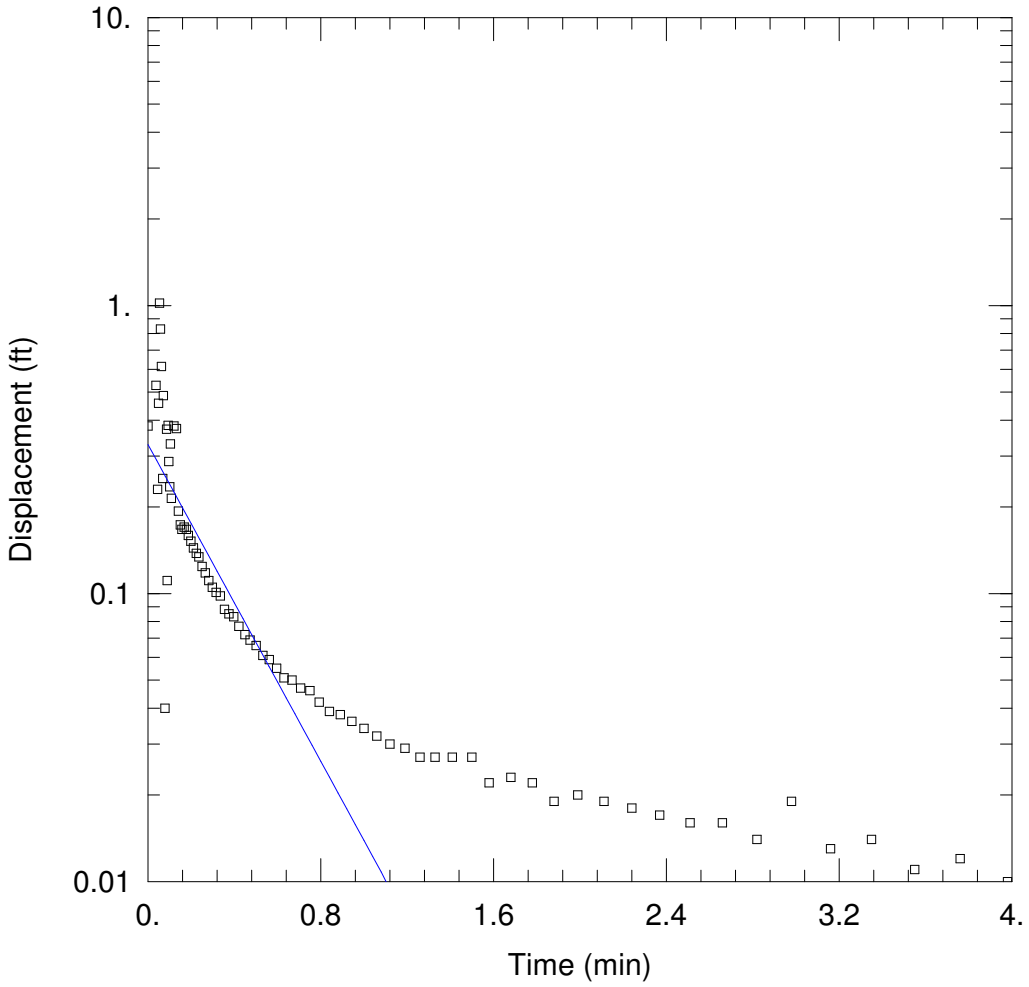
Volume Received: **3.91 Tons**

Material Description: **Soil Cuttings (14 DM)**

On the above date the material described was accepted at the Waste Recovery Solutions facility for the purpose of treatment, disposal or energy recovery. All materials accepted are managed in accordance with federal, state and local regulations.

Appendix I

Hydraulic Conductivity Testing Results



MW-35S FALLING HEAD TEST

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW35FH.aqt
Date: 10/20/10 Time: 14:51:10

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Well: MW-35S
Test Date: 09/02/2010

AQUIFER DATA

Saturated Thickness: 6.51 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-35S)

Initial Displacement: 0.382 ft
Total Well Penetration Depth: 15. ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.51 ft
Screen Length: 10. ft
Wellbore Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.002192 cm/sec
y0 = 0.329 ft

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW35FH.aqt
Title: MW-35S FALLING HEAD TEST
Date: 10/20/10
Time: 14:51:42

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Date: 09/02/2010
Test Well: MW-35S

AQUIFER DATA

Saturated Thickness: 6.51 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-35S

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.382 ft
Static Water Column Height: 6.51 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15. ft

No. of Observations: 114

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.004183	-0.357	0.708	0.047
0.009717	-0.356	0.75	0.046
0.01337	-0.356	0.794	0.042
0.01723	-0.36	0.841	0.039
0.02118	-0.359	0.891	0.038
0.02503	-0.361	0.9445	0.036
0.02918	-0.358	1.	0.034
0.03335	-0.36	1.06	0.032
0.03752	0.528	1.12	0.03
0.04168	-0.106	1.19	0.029
0.04585	0.23	1.26	0.027
0.05002	0.458	1.33	0.027
0.05418	1.019	1.41	0.027
0.05835	0.829	1.5	0.027
0.06252	0.615	1.58	0.022
0.06877	0.251	1.68	0.023
0.07243	0.487	1.78	0.022
0.07945	0.04	1.88	0.019
0.08648	0.372	1.99	0.02
0.09012	0.111	2.111	0.019
0.09377	0.384	2.24	0.018
0.09742	0.287	2.37	0.017
0.1011	0.235	2.51	0.016
0.1047	0.331	2.66	0.016
0.1085	0.214	2.82	0.014
0.1121	-0.052	2.98	0.019
0.1213	0.382	3.16	0.013
0.1291	0.	3.35	0.014
0.133	0.374	3.55	0.011
0.141	0.193	3.76	0.012

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.15	0.173	3.98	0.01
0.158	0.167	4.22	0.011
0.168	0.17	4.47	0.009
0.178	0.167	4.73	0.011
0.188	0.159	5.01	0.011
0.199	0.152	5.31	0.01
0.211	0.144	5.62	0.01
0.2241	0.138	5.96	0.009
0.237	0.134	6.31	0.01
0.251	0.124	6.68	0.009
0.266	0.118	7.08	0.007
0.2823	0.111	7.5	0.008
0.298	0.105	7.94	0.007
0.316	0.101	8.41	0.008
0.335	0.098	8.91	0.005
0.355	0.088	9.44	0.006
0.376	0.085	10.	0.006
0.398	0.083	10.6	0.005
0.422	0.077	11.2	0.005
0.449	0.072	11.9	0.005
0.473	0.069	12.6	0.003
0.501	0.066	13.3	0.009
0.5323	0.061	14.1	0.004
0.562	0.059	15.	0.003
0.596	0.055	15.8	0.003
0.631	0.051	16.8	0.
0.668	0.05	17.8	0.009

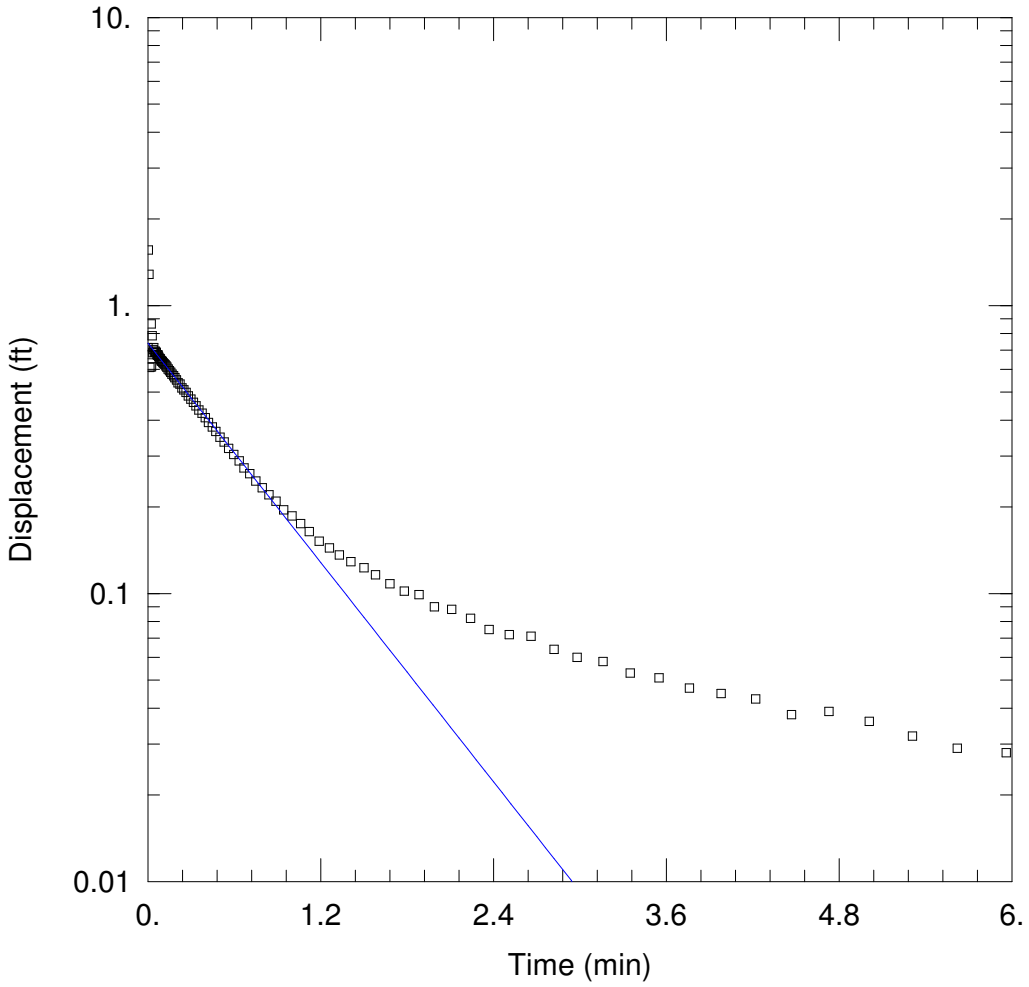
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.957

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.002192	cm/sec
y0	0.329	ft



MW035S RISING HEAD TEST

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW35RH.aqt
Date: 10/20/10 Time: 14:52:13

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Well: MW-35S
Test Date: 09/02/2010

AQUIFER DATA

Saturated Thickness: 6.51 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-35S)

Initial Displacement: 0.715 ft
Total Well Penetration Depth: 15. ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.51 ft
Screen Length: 10. ft
Wellbore Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.001012 cm/sec
y0 = 0.7398 ft

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW35RH.aqt
Title: MW035S RISING HEAD TEST
Date: 10/20/10
Time: 14:52:32

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Date: 09/02/2010
Test Well: MW-35S

AQUIFER DATA

Saturated Thickness: 6.51 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-35S

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.715 ft
Static Water Column Height: 6.51 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15. ft

No. of Observations: 118

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.004167	1.557	0.7943	0.233
0.008333	1.282	0.841	0.22
0.01522	0.609	0.891	0.209
0.01888	0.676	0.944	0.195
0.0227	0.863	1.	0.186
0.02638	0.613	1.06	0.175
0.03003	0.785	1.12	0.164
0.03368	0.686	1.19	0.152
0.0377	0.703	1.26	0.144
0.04167	0.715	1.33	0.136
0.04583	0.687	1.41	0.129
0.05	0.694	1.5	0.123
0.05417	0.69	1.58	0.116
0.05833	0.687	1.68	0.108
0.0625	0.675	1.78	0.102
0.06667	0.673	1.882	0.099
0.07083	0.673	1.99	0.09
0.075	0.666	2.11	0.088
0.07917	0.657	2.24	0.082
0.08333	0.655	2.37	0.075
0.0875	0.652	2.51	0.072
0.0917	0.644	2.66	0.071
0.09583	0.641	2.82	0.064
0.1	0.638	2.98	0.06
0.106	0.633	3.16	0.058
0.112	0.629	3.35	0.053
0.119	0.624	3.55	0.051
0.126	0.617	3.76	0.047
0.133	0.611	3.982	0.045
0.141	0.602	4.22	0.043

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.15	0.594	4.47	0.038
0.158	0.587	4.731	0.039
0.168	0.578	5.01	0.036
0.178	0.57	5.31	0.032
0.188	0.561	5.62	0.029
0.199	0.551	5.96	0.028
0.211	0.539	6.31	0.027
0.224	0.533	6.68	0.024
0.237	0.518	7.08	0.024
0.251	0.51	7.5	0.023
0.266	0.499	7.94	0.02
0.282	0.486	8.41	0.019
0.298	0.473	8.91	0.017
0.316	0.461	9.44	0.016
0.335	0.448	10.	0.015
0.355	0.434	10.6	0.015
0.376	0.423	11.2	0.011
0.398	0.408	11.9	0.01
0.422	0.393	12.6	0.008
0.447	0.379	13.3	0.009
0.473	0.365	14.1	0.007
0.501	0.349	15.	0.008
0.531	0.336	15.8	0.006
0.562	0.319	16.8	0.003
0.596	0.304	17.8	0.002
0.6343	0.289	18.8	0.003
0.668	0.273	19.8	0.003
0.708	0.261	20.8	0.001
0.75	0.246	21.8	0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.957

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.001012	cm/sec
y0	0.7398	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.001012	7.2E-6	cm/sec
y0	0.7398	0.001929	ft

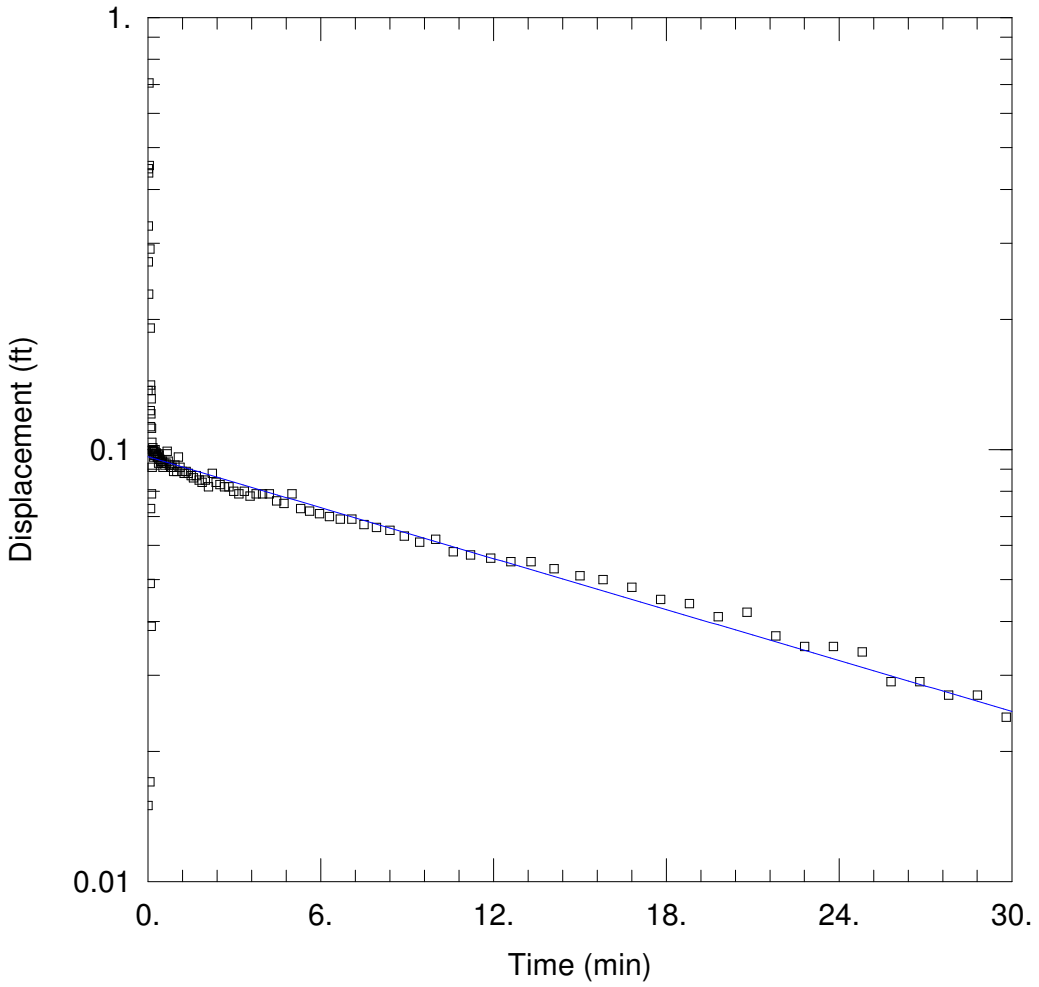
Parameter Correlations

	K	y0
K	1.00	0.73
y0	0.73	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.002722 ft^2
Variance . . . . . 4.861E-5 ft^2
Std. Deviation . . . . . 0.006972 ft
Mean . . . . . 0.0005102 ft
No. of Residuals 58



MW-37S FALLING HEAD TEST

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW37FH.aqt
Date: 10/20/10 Time: 14:52:57

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Well: MW-37S
Test Date: 09/02/2010

AQUIFER DATA

Saturated Thickness: 10.28 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-37S)

Initial Displacement: 0.137 ft
Total Well Penetration Depth: 15. ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.28 ft
Screen Length: 10. ft
Wellbore Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 3.133E-5 cm/sec
y0 = 0.09621 ft

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW37FH.aqt
Title: MW-37S Falling Head Test
Date: 10/20/10
Time: 14:53:12

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Date: 09/02/2010
Test Well: MW-37S

AQUIFER DATA

Saturated Thickness: 10.28 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-37S

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.137 ft
Static Water Column Height: 10.28 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15. ft

No. of Observations: 141

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.004167	-0.03	1.58	0.086
0.008333	0.015	1.68	0.087
0.0125	0.272	1.78	0.085
0.01667	0.447	1.88	0.084
0.02083	0.329	1.99	0.085
0.025	0.437	2.11	0.082
0.02917	0.229	2.24	0.088
0.03333	-0.747	2.37	0.084
0.0375	-0.012	2.51	0.083
0.04167	0.706	2.66	0.082
0.04583	-0.202	2.82	0.082
0.05	-0.066	2.98	0.08
0.05417	0.454	3.16	0.079
0.05833	-0.045	3.351	0.08
0.0625	0.002	3.55	0.078
0.06667	0.291	3.76	0.079
0.07448	0.017	3.98	0.079
0.07815	0.191	4.22	0.079
0.08182	0.123	4.47	0.076
0.08548	0.049	4.73	0.075
0.09075	0.141	5.01	0.079
0.0945	0.113	5.31	0.073
0.09833	0.073	5.62	0.072
0.1022	0.121	5.96	0.071
0.106	0.137	6.31	0.07
0.112	0.039	6.681	0.069
0.119	0.131	7.08	0.069
0.126	0.079	7.5	0.067
0.133	0.112	7.94	0.066
0.141	0.104	8.41	0.065

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.15	0.091	8.91	0.063
0.158	0.1	9.44	0.061
0.168	0.101	10.	0.062
0.178	0.099	10.6	0.058
0.188	0.099	11.2	0.057
0.199	0.099	11.9	0.056
0.211	0.096	12.6	0.055
0.224	0.097	13.3	0.055
0.237	0.099	14.1	0.053
0.251	0.1	15.	0.051
0.266	0.097	15.8	0.05
0.282	0.098	16.8	0.048
0.298	0.098	17.8	0.045
0.3246	0.096	18.8	0.044
0.335	0.096	19.8	0.041
0.3578	0.097	20.8	0.042
0.376	0.093	21.8	0.037
0.398	0.097	22.8	0.035
0.422	0.095	23.8	0.035
0.447	0.094	24.8	0.034
0.473	0.093	25.8	0.029
0.501	0.094	26.8	0.029
0.531	0.091	27.8	0.027
0.562	0.093	28.8	0.027
0.596	0.092	29.8	0.024
0.631	0.093	30.8	0.022
0.6685	0.099	31.8	0.02
0.708	0.094	32.8	0.018
0.75	0.092	33.8	0.018
0.794	0.091	34.8	0.014
0.841	0.091	35.8	0.013
0.891	0.089	36.8	0.011
0.944	0.092	37.8	0.01
1.	0.089	38.8	0.01
1.06	0.096	39.8	0.006
1.12	0.091	40.8	0.003
1.19	0.089	41.8	0.001
1.26	0.088	42.8	0.002
1.33	0.089	43.8	0.
1.41	0.088	44.8	0.001
1.5	0.087		

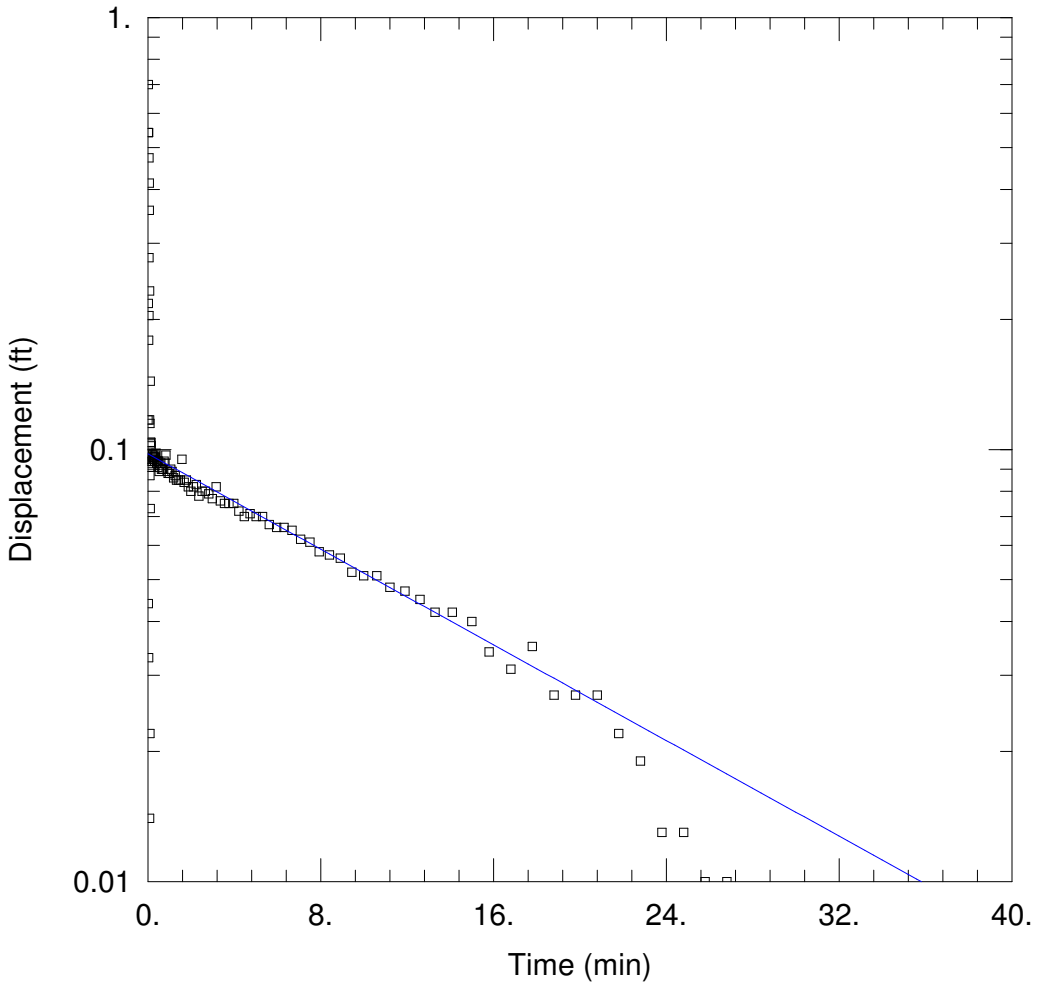
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.957

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	3.133E-5	cm/sec
y0	0.09621	ft



MW-38D FALLING HEAD TEST

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW38FH.aqt
Date: 10/20/10 Time: 14:53:32

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Well: MW-38D
Test Date: 09/02/2010

AQUIFER DATA

Saturated Thickness: 15.62 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-38D)

Initial Displacement: 0.117 ft
Total Well Penetration Depth: 21. ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.62 ft
Screen Length: 5. ft
Wellbore Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice
K = 8.964E-5 cm/sec
y0 = 0.09778 ft

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW38FH.aqt
Title: MW-38D FALLING HEAD TEST
Date: 10/20/10
Time: 14:53:48

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Date: 09/02/2010
Test Well: MW-38D

AQUIFER DATA

Saturated Thickness: 15.62 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-38D

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.117 ft
Static Water Column Height: 15.62 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 5. ft
Total Well Penetration Depth: 21. ft

No. of Observations: 127

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.004167	-0.948	1.06	0.09
0.008333	-0.926	1.12	0.089
0.0125	-0.205	1.19	0.086
0.01667	0.7	1.26	0.087
0.02083	0.542	1.33	0.085
0.025	0.044	1.41	0.085
0.02917	0.218	1.5	0.085
0.03333	0.542	1.583	0.095
0.0375	0.179	1.68	0.084
0.04167	0.033	1.78	0.085
0.04583	0.278	1.88	0.082
0.05	0.473	1.99	0.08
0.05417	0.204	2.11	0.082
0.05833	-0.369	2.24	0.083
0.0625	-0.342	2.37	0.078
0.06667	0.358	2.51	0.08
0.07083	0.414	2.66	0.08
0.075	0.014	2.82	0.079
0.07917	-0.113	2.98	0.077
0.08333	0.117	3.16	0.082
0.0875	0.233	3.35	0.076
0.09167	0.115	3.55	0.075
0.09583	0.022	3.76	0.075
0.1	0.087	3.98	0.075
0.106	0.144	4.22	0.072
0.112	0.073	4.47	0.07
0.119	0.104	4.73	0.071
0.126	0.103	5.01	0.07
0.133	0.091	5.31	0.07
0.141	0.104	5.62	0.067

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.15	0.091	5.96	0.066
0.158	0.102	6.31	0.066
0.168	0.094	6.68	0.065
0.178	0.093	7.08	0.062
0.188	0.095	7.5	0.061
0.199	0.094	7.94	0.058
0.211	0.096	8.41	0.057
0.224	0.097	8.91	0.056
0.237	0.097	9.44	0.052
0.251	0.095	10.	0.051
0.266	0.096	10.6	0.051
0.282	0.095	11.2	0.048
0.298	0.096	11.9	0.047
0.316	0.094	12.6	0.045
0.335	0.097	13.3	0.042
0.355	0.096	14.1	0.042
0.376	0.098	15.	0.04
0.4002	0.093	15.8	0.034
0.422	0.094	16.8	0.031
0.447	0.094	17.8	0.035
0.473	0.091	18.8	0.027
0.501	0.094	19.8	0.027
0.531	0.089	20.8	0.027
0.562	0.092	21.8	0.022
0.596	0.093	22.8	0.019
0.631	0.09	23.8	0.013
0.668	0.09	24.8	0.013
0.708	0.09	25.8	0.01
0.75	0.094	26.8	0.01
0.794	0.093	27.8	0.008
0.8428	0.097	28.8	0.006
0.891	0.089	29.8	-0.008
0.944	0.088	30.8	0.
1.	0.088		

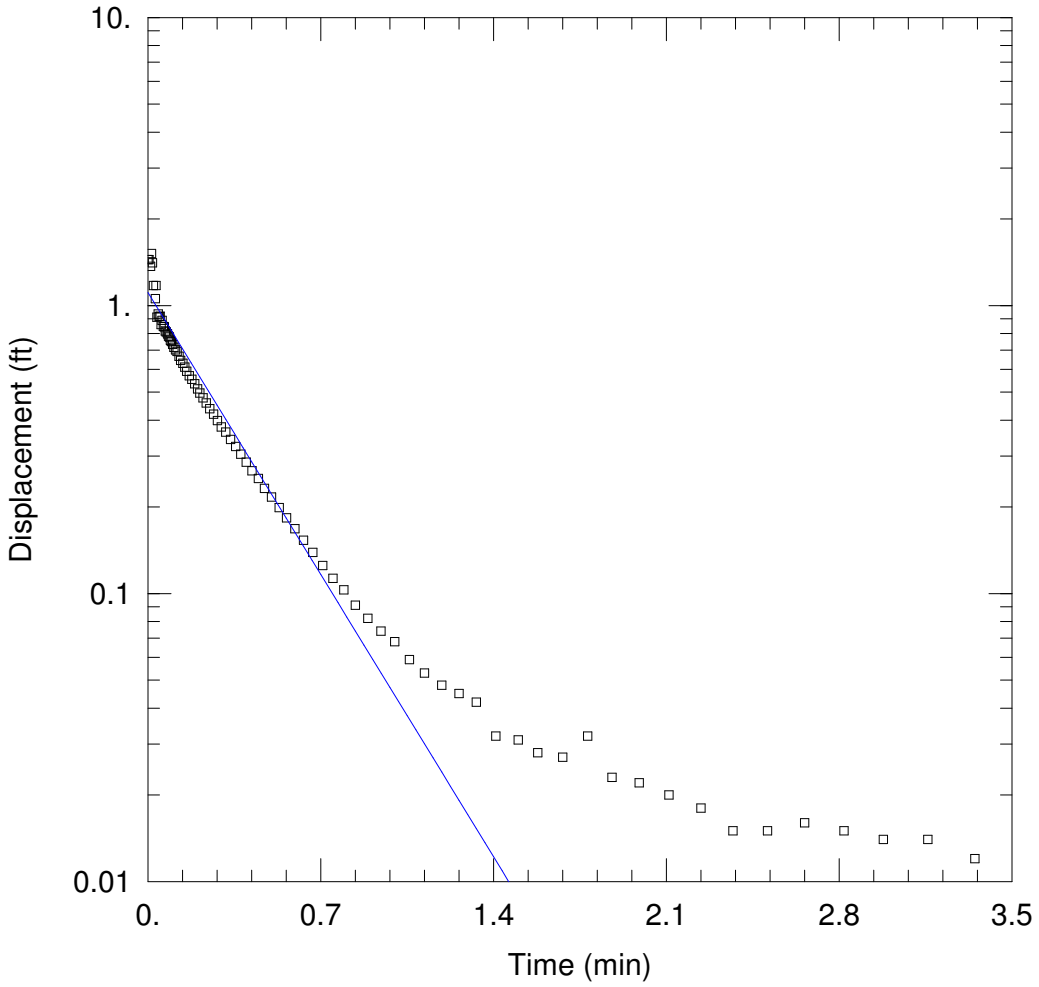
SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice
Shape Factor: 4.023

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	8.964E-5	cm/sec
y0	0.09778	ft



MW-39D FALLING HEAD TEST

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW39 FH.aqt
Date: 10/20/10 Time: 14:54:16

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Well: MW-39D
Test Date: 09/02/2010

AQUIFER DATA

Saturated Thickness: 16.32 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-39D)

Initial Displacement: 1.443 ft
Total Well Penetration Depth: 20. ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.32 ft
Screen Length: 5. ft
Wellbore Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice
K = 0.004505 cm/sec
y0 = 1.11 ft

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW39 FH.aqt
Title: MW-39D Falling Head Test
Date: 10/20/10
Time: 14:54:31

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Date: 09/02/2010
Test Well: MW-39D

AQUIFER DATA

Saturated Thickness: 16.32 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-39D

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.443 ft
Static Water Column Height: 16.32 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 5. ft
Total Well Penetration Depth: 20. ft

No. of Observations: 104

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0042	1.443	0.5317	0.199
0.01152	1.369	0.562	0.183
0.01518	1.516	0.596	0.168
0.01887	1.408	0.631	0.153
0.02277	1.173	0.668	0.139
0.02642	-0.139	0.708	0.125
0.03005	1.057	0.75	0.113
0.0337	1.173	0.794	0.103
0.03753	0.911	0.841	0.091
0.04167	0.935	0.891	0.082
0.04583	0.916	0.944	0.074
0.05	0.917	1.	0.068
0.05417	0.858	1.06	0.059
0.05833	0.887	1.12	0.053
0.0625	0.845	1.19	0.048
0.06667	0.844	1.26	0.045
0.07083	0.817	1.33	0.042
0.075	0.81	1.41	0.032
0.07917	0.797	1.5	0.031
0.08333	0.783	1.58	0.028
0.0875	0.778	1.68	0.027
0.09167	0.758	1.782	0.032
0.09583	0.749	1.88	0.023
0.1	0.732	1.99	0.022
0.106	0.716	2.111	0.02
0.112	0.701	2.24	0.018
0.119	0.692	2.37	0.015
0.126	0.666	2.51	0.015
0.133	0.645	2.66	0.016
0.1424	0.63	2.82	0.015

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.15	0.611	2.98	0.014
0.158	0.591	3.16	0.014
0.168	0.571	3.35	0.012
0.178	0.554	3.553	0.018
0.1901	0.535	3.76	0.01
0.2015	0.514	3.98	0.01
0.211	0.497	4.22	0.009
0.224	0.478	4.47	0.011
0.237	0.459	4.73	0.007
0.251	0.438	5.01	0.008
0.266	0.42	5.31	0.006
0.282	0.399	5.62	0.006
0.298	0.379	5.96	0.007
0.316	0.364	6.31	0.012
0.335	0.343	6.68	0.005
0.3562	0.324	7.08	0.003
0.376	0.305	7.5	0.003
0.398	0.286	7.94	0.003
0.422	0.267	8.41	0.
0.4482	0.251	8.91	0.
0.473	0.232	9.44	0.
0.501	0.216	10.	0.

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice
Shape Factor: 3.995

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.004505	cm/sec
y0	1.11	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.004505	0.0001477	cm/sec
y0	1.11	0.01535	ft

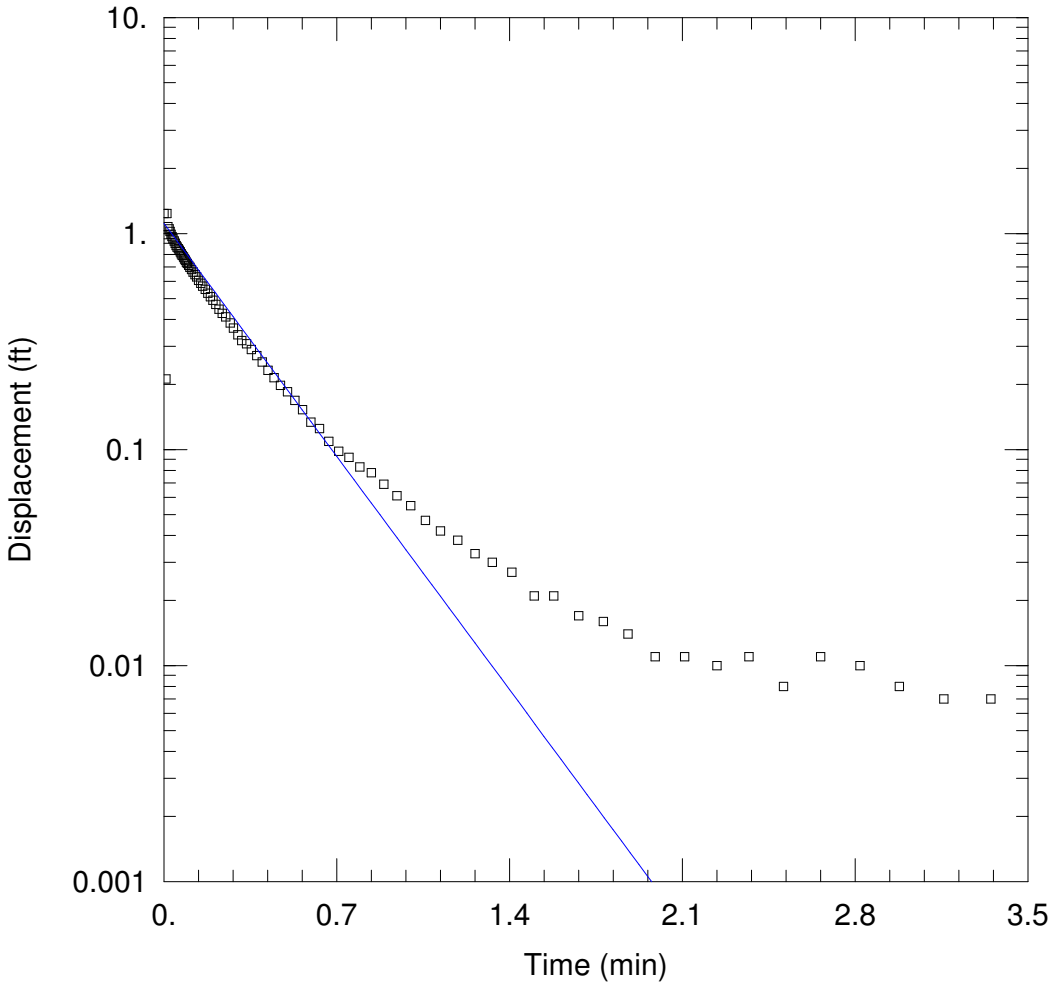
Parameter Correlations

	K	y0
K	1.00	0.79
y0	0.79	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.07824 ft^2
Variance . . . . . 0.001597 ft^2
Std. Deviation . . . . . 0.03996 ft
Mean . . . . . 0.002988 ft
No. of Residuals 51
No. of Estimates 2



MW-39D RISING HEAD TEST

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW39 RH.aqt
Date: 10/20/10 Time: 14:54:52

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Well: MW-39D
Test Date: 09/02/2010

AQUIFER DATA

Saturated Thickness: 16.32 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-39D)

Initial Displacement: 1.237 ft
Total Well Penetration Depth: 20. ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.32 ft
Screen Length: 5. ft
Wellbore Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice
K = 0.004963 cm/sec
y0 = 1.114 ft

Data Set: C:\Documents and Settings\david.scheuing\Desktop\temp\Aqtesolv data\MW39 RH.aqt
Title: MW-39D Rising Head Test
Date: 10/20/10
Time: 14:55:20

PROJECT INFORMATION

Company: AECOM
Client: Tyco Safety Products
Project: 60155991
Location: Lancaster NY
Test Date: 09/02/2010
Test Well: MW-39D

AQUIFER DATA

Saturated Thickness: 16.32 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-39D

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.237 ft
Static Water Column Height: 16.32 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 5. ft
Total Well Penetration Depth: 20. ft

No. of Observations: 92

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.004183	0.989	0.376	0.272
0.00835	0.212	0.398	0.254
0.01252	1.237	0.422	0.233
0.01668	1.075	0.447	0.215
0.02085	1.049	0.473	0.198
0.02502	1.021	0.501	0.185
0.02918	0.993	0.531	0.169
0.03335	0.968	0.562	0.153
0.03752	0.945	0.596	0.134
0.04168	0.922	0.631	0.125
0.04585	0.902	0.668	0.109
0.05002	0.879	0.708	0.098
0.05418	0.864	0.75	0.092
0.05835	0.85	0.794	0.083
0.06252	0.837	0.841	0.078
0.06668	0.821	0.891	0.069
0.07085	0.804	0.944	0.061
0.07502	0.791	1.	0.055
0.07918	0.777	1.06	0.047
0.08335	0.763	1.12	0.042
0.08752	0.751	1.19	0.038
0.09168	0.737	1.26	0.033
0.09585	0.726	1.33	0.03
0.1	0.713	1.41	0.027
0.106	0.697	1.5	0.021
0.112	0.682	1.58	0.021
0.119	0.664	1.68	0.017
0.126	0.645	1.78	0.016
0.133	0.629	1.88	0.014
0.141	0.606	1.99	0.011

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.15	0.589	2.11	0.011
0.158	0.57	2.24	0.01
0.168	0.552	2.37	0.011
0.178	0.53	2.51	0.008
0.188	0.51	2.66	0.011
0.199	0.491	2.82	0.01
0.211	0.47	2.98	0.008
0.224	0.446	3.16	0.007
0.237	0.427	3.35	0.007
0.251	0.411	3.55	0.005
0.2685	0.385	3.76	0.005
0.282	0.365	3.98	0.005
0.2998	0.34	4.22	0.004
0.316	0.319	4.47	0.004
0.335	0.309	4.73	0.001
0.355	0.29	5.01	0.004

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice
Shape Factor: 3.995

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.004963	cm/sec
y0	1.114	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.004963	0.0001335	cm/sec
y0	1.114	0.01197	ft

Parameter Correlations

	K	y0
K	1.00	0.75
y0	0.75	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.06358 ft^2
Variance . . . . . 0.001223 ft^2
Std. Deviation . . . . . 0.03497 ft
Mean . . . . . 0.003467 ft
No. of Residuals 54
No. of Estimates 2

Appendix J

Data Usability Summary Report

Appendix J

Data Usability Summary Report

Prepared by: **Helen Jones Parry and Gregory A. Malzone, AECOM Project Chemists**

Prepared for: **Dino Zack, AECOM Project Manager**

Project: **Former Scott Aviation Facility Area 1 Investigation, May-August 2010**

Date prepared: **October 2010**

This Data Usability Summary Report (DUSR) provides a discussion of the usability of the data collected during the Remedial Investigation (RI) of the former Scott Aviation Facility Area 1 Site located in Lancaster, NY. Our overall conclusion is that the data are usable for the intended purpose of assessing site conditions relative to regulatory screening values and available background data.

Data validation of the full dataset was completed in October 2010. The data packages were reviewed using the following USEPA Region 2 data validation Standard Operating Procedures (SOPs) as guidance:

- USEPA Region 2, SOP HW-2, Evaluation of Metals Data for the CLP Program (Revision 11, January 1992); and
- USEPA Region 2, SOP HW-6, CLP Organics Data Review and Preliminary Review (CLP/SOW OLM0 4.3) [Revision 14, September 2006]

Where necessary, the Region 2 SOPs were modified to incorporate project-specific or method-specific criteria. Data qualifiers applied were consistent with the Region 2 guidance and consisted of the following:

Qualifier	Definition
J	Estimated
U	Not detected
UJ	Not detected, estimated
NJ	Presumptively present at estimated quantity
R	Rejected

In addition to assigning one of the above qualifiers, reason codes have been added to each qualified result to facilitate review of the qualified data. The “reason codes” have been included in the summary tables included in the attachment to this DUSR and consist of the following:

Reason Code	Explanation
a	Concentration exceeded the calibration range. Use result from secondary dilution.
be	Equipment blank (or trip blank) contamination
bl	Laboratory blank contamination
c	Calibration issue
d	Reporting limit raised due to chromatographic interference
fd	Field duplicate RPDs
g	Chromatographic pattern match issue
h	Holding time(s) exceeded
i	Internal standard areas
ip	DDT/Endrin breakdown
l	LCS recoveries
ld	Laboratory duplicate RPDs (matrix duplicate, MSD, LCSD)
m	Matrix spike recovery
r	Dual column precision
q	Quantitation issue
s	Surrogate recovery
x	Low percent solids
y	ICP serial dilution results

Elements reviewed in preparing the DUSR were consistent with those specified in the NYSDEC guidance (NYSDEC, 2001).

Summary

Eight air samples, 21 soil samples, and 42 groundwater samples were collected at the site from May 26 through August 4, 2010 and submitted to TestAmerica Laboratory, Amherst, NY, a New York State certified laboratory (NYSDOH ELAP No. 10026). All analyses conducted by Test America were performed in accordance with New York State Department of Environmental Conservation (NYSDEC) 2000 Analytical Services Protocol (ASP 2000) with Category B deliverables. The analytical methods used in this program are summarized in Table 1.

Table 1: Analytical Procedures

Analysis Category	Analytical Method
Volatile Organics (VOCs)	EPA SW-846 Method 8260B, NYSDEC ASP 2000
Semivolatile Organics (SVOCs)	ASPB-8270
Organochlorine Pesticides	EPA SW-846 Method 8081, NYSDEC ASP 2000
Polychlorinated biphenyls as Aroclors (PCBs)	EPA SW-846 Method 8082, NYSDEC ASP 2000
Metals (except Mercury)	EPA SW-846 Method 6010B
Mercury	EPA SW-846 Method 7470/7471
Percent Moisture	ASTM D2216
Volatile Organics (VOCs)	USEPA Compendium Method TO-15

Air samples were analyzed for VOCs; soil and groundwater samples were analyzed for VOCs with a subset analyzed for SVOCs, pesticides, PCBs, and metals. One equipment blank was collected during the soil sampling event and two equipment blanks were collected during each of the two groundwater sampling events (for a total of 5 samples) and analyzed for all parameters. These data were reviewed in the same manner as the field samples. However, qualifications applied to these QC samples were not included in the discussion below.

The attachment to this DUSR is organized by laboratory sample delivery group (SDG), and provides a complete listing of samples and collection dates; summary of qualified data; and copies of nonconformances organized by analytical fraction within each SDG.

Air Data

Sample SS-1-SUBSLAB required analysis at a 24.90-fold dilution and sample SS-2-SUBSLAB required analysis at a five-fold dilution to bring the target compound concentrations into the calibration range. The dilutions elevated the detection and reporting limits for these samples.

No data qualifications were necessary for the air data with the exception of the field duplicate and its parent sample; all air results may be considered usable for decision making purposes.

Field Duplicates

The following field duplicate was collected during this investigation:

Parent Sample ID	Duplicate Sample ID
AS-1	AS-Duplicate

RPDs for detected results were evaluated using acceptance criteria of ≤ 25% for results greater than five times the sample quantitation limit, or the difference between the primary and field duplicate results must be less than or equal to the reporting limit for results less than five times the sample quantitation limit.

Overall, agreement between field duplicates was acceptable. The results for the parent and field duplicate samples were non-detects, with exception to those listed in Table 2 below. All RPDs were less than the maximum advisory limits or the difference criteria were met for all analytes/compounds except for those results listed below in bolded text. The bolded results were qualified "J/UJ," as estimates because of laboratory/field sampling imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

%RPD: Relative percent difference

NC: RPD could not be calculated

*: The difference between the parent and field duplicate results was less than the reporting limit for results less than five times the reporting limit. Variation of this magnitude is acceptable.

µg/m3: micrograms per cubic meter (ppb)

%: percent

Table 2 - Scott Aviation Field Precision (Air)

Method	Compound	AS-1	AS-DUPLICATE	Units	% RPD
TO-15	**1,1,1-Trichloroethane**	**1.1 UJ**	**3.4 J**	**µg/m3**	**NC**
TO-15	**1,1-Dichloroethene**	**0.79 UJ**	**0.83 J**	**µg/m3**	**NC**
TO-15	**1,2,4-Trimethylbenzene**	**0.98 UJ**	**1.4 J**	**µg/m3**	**NC**
TO-15	**1,2-Dichloropropane**	**0.92 UJ**	**1.6 J**	**µg/m3**	**NC**
TO-15	**Benzene**	**0.64 UJ**	**2.4 J**	**µg/m3**	**NC**
TO-15	Chloromethane	1.3	1.2	µg/m3	8
TO-15	**cis-1,2-Dichloroethene**	**0.79 UJ**	**1.5 J**	**µg/m3**	**NC**
TO-15	**Cyclohexane**	**0.69 UJ**	**1.1 J**	**µg/m3**	**NC**
TO-15	Dichlorodifluoromethane	3.0	4.0	µg/m3	29*
TO-15	**Ethylbenzene**	**0.87 UJ**	**1.3 J**	**µg/m3**	**NC**
TO-15	Freon TF	2.0	2.5	µg/m3	22
TO-15	**n-Heptane**	**0.82 UJ**	**1.1 J**	**µg/m3**	**NC**
TO-15	**n-Hexane**	**1.8 UJ**	**2.4 J**	**µg/m3**	**NC**
TO-15	**Toluene**	**1.1 J**	**11 J**	**µg/m3**	**164**
TO-15	**Trichloroethene**	**1.1 UJ**	**1.5 J**	**µg/m3**	**NC**
TO-15	Trichlorofluoromethane	1.4	1.7	µg/m3	19
TO-15	**m,p-Xylene**	**1.7 UJ**	**4.3 J**	**µg/m3**	**NC**
TO-15	**o-Xylene**	**0.87 UJ**	**1.4 J**	**µg/m3**	**NC**

Soil Data

In general, the data appear to be valid, and may be considered usable for decision making purposes.

Volatile Organic Compounds

In general, the VOC data appear to be valid, and may be considered usable for decision making purposes. No VOC data were rejected. Several of the VOC results were qualified as estimated due to nonconformances of one or more QC parameters. The primary reason for qualification of these data was blank contamination. Qualification is discussed in more detail below.

Holding Times

All VOC holding times were met.

Sample Preservation

All VOC samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of nonconformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and equipment blanks.

Low levels of acetone, cyclohexane, toluene, and/or methylene chloride were found in multiple laboratory method blanks, trip blanks, and equipment blanks. Consistent with the Region 2 validation guidelines, action levels were established at 10 times the concentration detected in the blank for acetone and

methylene chloride (designated as common laboratory contaminants). Tetrachloroethene was also detected in a method blank. Action levels were established at the reporting limit. These action levels were then compared to the associated sample results. Sample results falling below the action level were qualified "U," as non-detect.

Surrogates – Surrogate recoveries were generally acceptable. No systematic problems were identified.

Internal Standard Recoveries – Internal standard recoveries were generally acceptable. No systematic problems were identified.

MS/MSDs – MS/MSD percent recoveries (%Rs) and relative percent differences (RPDs) were generally acceptable. No systematic problems were identified.

Calibrations – Calibrations were generally acceptable. No systematic problems were identified.

Detection Limits and Sample Results

The percent solids were greater than 50% for all soil samples with the exception of SS-MW-41B2-0-0.2. All results for sample SS-MW-41B2 were qualified "J" or "UJ," as estimates, because of low percent solids.

In several instances, analytical dilutions were necessary to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range.

Semivolatile Organic Compounds

In general, the SVOC data appear to be valid, and may be considered usable for decision making purposes.

Holding Times

All SVOC holding times were met.

Sample Preservation

All SVOC samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of nonconformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and equipment blanks.

Low levels of di-n-butyl phthalate were found in the equipment blank. Consistent with the Region 2 validation guidelines, action levels were established at 10 times the concentration detected in the blank for di-n-butyl phthalate (designated as a common laboratory contaminant). This action level was then compared to the associated sample results. Sample results falling below the action level were qualified "U," as non-detect.

Surrogates – Surrogate recoveries were generally acceptable.

Internal Standard Recoveries –Internal standard recoveries were generally acceptable.

MS/MSDs – MS/MSD %Rs and RPDs were generally acceptable.

Calibrations – Calibrations were generally acceptable.

Laboratory Control Samples – Laboratory control sample (LCS) %Rs were generally acceptable. No systematic problems were noted.

Detection Limits and Sample Results

The percent solids were greater than 50% for all soil samples with the exception of SS-MW-41B2-0-0.2. All results for sample SS-MW-41B2 were qualified "J" or "UJ," as estimates, because of low percent solids.

In several instances, analytical dilutions were necessary to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range.

Organochlorine Pesticides

The organochlorine pesticide data is considered usable and are therefore acceptable for decision making purposes with two exceptions. Two pesticide results were qualified as undetected because of poor dual column precision indicating matrix interference.

Holding Times

Holding times were met for all organochlorine pesticide samples.

Sample Preservation

All organochlorine pesticides samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of non-conformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and equipment blanks. No target compounds were detected in any of the laboratory or equipment blanks analyzed for pesticides.

Surrogates – Surrogate recoveries were generally acceptable.

MS/MSDs – Low matrix spike recoveries for SS-MW-39D (5-6) cause the qualification of three non-detect pesticide results as estimates indicating matrix effects.

Calibrations – No data required qualification in response to calibration non-conformances.

Field Duplicates – The following field duplicates were collected during this investigation:

Parent Sample ID	Duplicate Sample ID
SS-MW-35S (0-0.2)	SS-DUPLICATE-1

RPDs for detected results were evaluated using acceptance criteria of ≤ 50% for results greater than five times the sample quantitation limit, or ≤ 100% for results less than five times the sample quantitation limit. Agreement between field duplicates was acceptable. See Table 3 below.

Laboratory Control Samples – LCS %Rs were acceptable.

Detection Limits and Sample Results

The percent solids measurement for sample SS-MW-41B2 was less than 50%. All pesticide results for sample SS-MW-41B2 were non-detect and were qualified "UJ," as estimates, because of low percent solids. All other soil percent solids measurements were greater than 50%.

The method 8081A criterion for RPD was used in lieu of percent difference (%D) as stipulated in the USEPA Region 2 guidance. The method 8081A criterion of 40% RPD was used in lieu of the 25%D criterion stipulated in the USEPA Region 2 guidance.

Results greater than or equal to the sample quantitation limit (SQL) with RPDs greater than 40%, but less than or equal to 70%, were qualified "J," as estimated; and results with RPDs greater than 70% were qualified "NJ," as presumptively present at an estimated concentration. Note that USEPA Region 2 guidance states that in the absence of interference, results with RPDs greater than 100% should be rejected (qualified "R"). However, interference was observed in all samples; no pesticide data were rejected on this basis.

Sample results less than the SQL with RPDs greater than 40%, but less than or equal to 50%, were qualified "J," as estimated; and results with RPDs greater than 50%, were qualified "U," as not detected at the SQL.

The RPDs were calculated for all positive pesticide results that were qualified "P" by TestAmerica using the USEPA Region 2 guidance. The results tabulated below were qualified using these criteria.

Field ID	Analyte	Original Results (µg/Kg)	Lab Qualifier	RPD	Reportable Results (µg/Kg)	Validation Qualifier	Reason Code
SS-MW-35S (0-2)	DDT,4,4-	1.4	JP	40	1.4	J	r
SS-MW-41B2 (0-0.2)	Endrin	17	JP	59.5	34	U	r
SS-DPT8-2C (0-0.2)	DDD,4,4-	1.6	JP	4	1.6	J	
SS-DPT8-2C (0-0.2)	delta-BHC	1.8	JP	29	1.8	J	
SS-DPT8-2C (0-0.2)	Endosulfan I	0.61	JP	116	3.9	U	r
SS-DPT8-2C (2-4)	DDT,4,4-	9.0	JP	36	9.0	J	
SS-DPT8-2C (2-4)	DDD,4,4-	0.99	JP	47	0.99	J	r
SS-DPT8-2A (0-2)	Dieldrin	6.0	JP	37	6.0	J	

Several soil pesticide samples required analysis at an initial dilution to minimize matrix interference. The dilutions elevated the reporting limits.

Polychlorinated Biphenyls (PCBs) as Aroclors

The PCB data are valid, and may be considered usable for decision making purposes.

Holding Times

Holding times were met for all PCB analyses.

Sample Preservation

All PCB samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of non-conformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and equipment blanks. No target compounds were detected in any of the laboratory or equipment blanks analyzed for PCBs.

Surrogates – Surrogate recoveries were generally acceptable.

MS/MSDs – Low matrix spike recoveries for SS-DPT8-2C (0-0.2) caused the qualification of the positive Aroclor-1260 result for SS-DPT8-2C as an estimated concentration indicating matrix effects.

Calibrations – Three positive Aroclor-1260 results required qualification as estimated concentrations in response to calibration non-conformances.

Field Duplicates – The following field duplicates were collected during this investigation:

Parent Sample ID	Duplicate Sample ID
SS-MW-35S (0-0.2)	SS-DUPLICATE-1

RPDs for detected results were evaluated using acceptance criteria of ≤ 50% for results greater than five times the sample quantitation limit, or ≤ 100% for results less than five times the sample quantitation limit. All parent and field duplicate results were non-detect. No data qualifications were required. See Table 3 below.

Detection Limits and Sample Results

The percent solids measurement for sample SS-MW-41B2 was less than 50%. All results for sample SS-MW-41B2 were non-detect and were qualified "UJ," as estimates, because of low percent solids. All other soil percent solids measurements were greater than 50%.

Many samples were found to contain more than one Aroclor. Aroclors are commercial mixtures of multiple PCB congeners. The primary difference between the Aroclors is the relative ratio of these congeners to each other, i.e., a given congener will be present in many Aroclors. Therefore, when multiple Aroclor mixtures are present, it is extremely difficult to accurately quantitate each of the Aroclors, with the most likely result being that components may be double counted leading to the potential for high bias. In addition, the overlap of peaks can make it difficult to determine exactly which Aroclors are present since it is impossible to have an exact pattern match in the presence of overlapping congeners. Therefore, positive results for samples believed to contain more than one Aroclor have been qualified "J," as estimated concentrations.

The method 8082 criterion for RPD was used in lieu of percent difference (%D) as stipulated in the USEPA Region 2 guidance. The method 8082 criterion of 40% RPD was used in lieu of the 25%D criterion stipulated in the USEPA Region 2 guidance.

Results greater than or equal to the sample quantitation limit (SQL) with RPDs greater than 40%, but less than or equal to 70%, were qualified "J," as estimated; and results with RPDs greater than 70% were qualified "NJ," as presumptively present at an estimated concentration. Note that USEPA Region 2 guidance states that in the absence of interference, results with RPDs greater than 100% should be rejected (qualified "R"). However, interference was observed in all samples; no pesticide data were rejected on this basis.

Sample results less than the SQL with RPDs greater than 40%, but less than or equal to 50%, were qualified "J," as estimated; and results with RPDs greater than 50%, were qualified "U," as not detected at the SQL.

The RPDs were calculated for all positive Aroclor results that were qualified "P" by TestAmerica using the USEPA Region 2 guidance. The results tabulated below were qualified using these criteria.

Field ID	Analyte	Original Results (µg/Kg)	Lab Qualifier	RPD	Reportable Results (µg/Kg)	Validation Qualifier	Reason Code
SS-MW-40D (0-0.2)	Aroclor-1254	21	P	28.5	21	J	g
SS-MW-40D (0-0.2)	Aroclor-1260	34	P	67	34	J	r, g
SS-DPT8-2C (0-0.2)	Aroclor-1260	38	P	33	38	No Qualifier	
SS-DPT8-1A (0-2)	Aroclor-1260	280	P	40	280	No Qualifier	
SS-DPT8-2A (0-0.2)	Aroclor-1260	99	P	58	99	J	r
SS-MW-41B2 (0-0.2)	Aroclor-1254	110	JP	31	110	J	g
SS-MW-41B2 (0-0.2)	Aroclor-1260	150	JP	42	150	J	r, g

Several soil PCB samples required analysis at an initial dilution to minimize matrix interference. The dilutions elevated the reporting limits.

TAL Metals

In general, the metals data appear to be valid, and may be considered usable for decision making purposes. Several of the metals results were qualified as estimated due to nonconformances of one or more QC parameters. The primary reason for qualification of these data was matrix spike recoveries. Qualifications are discussed in more detail below.

Holding Times

Holding times were met for all metals analyses.

Sample Preservation

All metals samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of nonconformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and equipment blanks. No target analytes were detected in any of the laboratory or equipment blanks analyzed for metals.

MS Recoveries – All antimony and manganese results for batch 10F0020 were qualified as estimated on the basis of nonconforming MS %Rs. No other systematic problems were identified.

Note that the validation guidelines for inorganics require that all samples of a given matrix within a sample delivery group (SDG) are qualified for MS non-conformances; whereas the validation guidelines for organic analyses require only the sample selected for MS/MSD analysis be qualified. Therefore, the greater percentage of metals data qualified on this basis should not be interpreted as an indication that metals data are of poorer quality than organics data.

Laboratory Duplicates – Laboratory duplicate precision was generally acceptable. See Table 3 below.

Calibration – Calibrations were generally acceptable.

Detection Limits and Sample Results

The percent solids were greater than 50% for all soil samples with the exception of SS-MW-41B2-0-0.2. All results for sample SS-MW-41B2 were qualified "J" or "UJ," as estimates, because of low percent solids.

In several instances, analytical dilutions were necessary to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range.

Field Duplicates

The following soil field duplicate was collected during this investigation:

Parent Sample ID	Duplicate Sample ID
SS-MW-35S (0-0.2)	SS-DUPLICATE-1

Note: No volatiles field duplicate sample was collected for the soil samples

Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 50% for soil or the difference between the parent and field duplicate results must be less than the reporting limit for results less than five times the reporting limit.

Inorganics: The RPD must be ≤ 35% for soil or the difference between the parent and field duplicate results must be less than twice the reporting limit for results less than five times the reporting limit.

The results for the parent and field duplicate samples were non-detects, with exception to those listed in Table 3 below. All RPDs were less than the maximum advisory limits or the difference criteria were met for all analytes/compounds except for those results listed below in bolded text. The bolded results were qualified "J/UJ," as estimates because of laboratory/field sampling imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

%RPD: Relative percent difference

NC: RPD could not be calculated

*: The difference between the parent and field duplicate results was less than the reporting limit (twice the reporting limit for metals) for results less than five times the reporting limit. Variation of this magnitude is acceptable.

µg/kg: micrograms per kilogram (ppb)
mg/kg: milligrams per kilogram (ppm)
%: percent

Table 3 - Scott Aviation Field Precision (Soil)

Method	Compound	SS-MW-35S-0-0.2	SS-DUPLICATE-1	Units	% RPD
8270C	Acenaphthylene	27 J	20 J	µg/kg	30
8270C	Anthracene	60 J	37 J	µg/kg	47
8270C	Benz(a)anthracene	240 J	170 J	µg/kg	34
8270C	Benzo(a)pyrene	240 J	190 J	µg/kg	23
8270C	Benzo(b)fluoranthene	280	210 J	µg/kg	29
8270C	Benzo(ghi)perylene	160 J	130 J	µg/kg	21
8270C	Benzo(k)fluoranthene	100 J	81 J	µg/kg	21
8270C	Carbazole	19 J	20 J	µg/kg	5
8270C	Chrysene	230 J	180 J	µg/kg	24
8270C	Dibenz(a,h)anthracene	36 J	27 J	µg/kg	29
8270C	Fluoranthene	510	350	µg/kg	37
8270C	Indeno(1,2,3-cd)pyrene	140 J	120 J	µg/kg	15
8270C	Phenanthrene	270	190 J	µg/kg	35
8270C	Pyrene	400	290 J	µg/kg	32
8081A	4,4'-DDT	1.4 J	2.3 U	µg/kg	NC*
6010B	Aluminium	12600	9380	mg/kg	29
6010B	Arsenic	6.5	4.3	mg/kg	41*
6010B	Barium	48.7	37.7	mg/kg	25
6010B	Beryllium	0.601	0.353	mg/kg	52*
6010B	Cadmium	0.293 U	0.381	mg/kg	NC*
6010B	Calcium	2670	2280	mg/kg	16
6010B	Chromium	14.6	11.3	mg/kg	25
6010B	Cobalt	6.01	4.60	mg/kg	27
6010B	Copper	15.1	11.8	mg/kg	25
6010B	Iron	17100	12500	mg/kg	31
6010B	Lead	37.9	28.5	mg/kg	28
6010B	Magnesium	2180	1710	mg/kg	24
6010B	Mangenese	152	124	mg/kg	20
6010B	Nickel	15.3	11.3	mg/kg	30
6010B	Potassium	827	641	mg/kg	25
6010B	Vanadium	21.7	15.2	mg/kg	35
6010B	Zinc	73.2	60.3	mg/kg	19
7471A	Mercury	0.0615	0.0409	mg/kg	40*
Dry Wt.	Percent Solids	67	72	%	7

Groundwater Data

The non-conformances associated with the groundwater analyses were minimal. All groundwater results may be considered usable for decision making purposes.

Volatile Organic Compounds

In general, the VOC data appear to be valid, and may be considered usable for decision making purposes. No VOC data were rejected. One sample was qualified due to equipment blank contamination.

Detection Limits and Sample Results

In several instances, analytical dilutions were necessary to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range.

Semivolatile Organic Compounds

In general, the SVOC data appear to be valid, and may be considered usable for decision making purposes.

Holding Times

All SVOC holding times were met.

Sample Preservation

All SVOC samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of nonconformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and equipment blanks.

Low levels of di-n-butyl phthalate were found in the equipment blank in SDG RTH0401. Consistent with the Region 2 validation guidelines, action levels were established at 10 times the concentration detected in the blank for di-n-butyl phthalate (designated as a common laboratory contaminant). This action level was then compared to the associated sample results. Sample results falling below the action level were qualified "U," as non-detect.

Low levels of bis(2-ethylhexyl)phthalate were found in the method blank for batch 10F1892. Associated sample results less than the reporting limit were qualified "U", as non-detect.

Surrogates – Surrogate recoveries were generally acceptable.

Internal Standard Recoveries – Internal standard recoveries were generally acceptable.

MS/MSDs – MS/MSD %Rs and RPDs were generally acceptable.

Calibrations – Calibrations were generally acceptable.

Field Duplicates – The following field duplicates were collected during this investigation:

Parent Sample	Field Duplicate	Matrix
MW-36S	GW-DUPLICATE-1	Groundwater (First Event)
MW-40D	GW-DUPLICATE-2	Groundwater (First Event)
MW-36S	GW-DUPLICATE-1	Groundwater (Second Event)
MW-40D	GW-DUPLICATE-2	Groundwater (Second Event)

RPDs for detected results were evaluated using acceptance criteria of ≤ 30% for results greater than five times the sample quantitation limit, or ≤ 100% for results less than five times the sample quantitation limit.

All parent and field duplicate results were non-detect. No data qualifications were required. See Tables 4 and 5 below.

Laboratory Control Samples – Laboratory control sample (LCS) %Rs were generally acceptable with the exception of indeno(1,2,3-cd)pyrene in batch 10F1892. The LCS recovery was less than the lower acceptance limit, but greater than 10%. All associated results were non-detect and were qualified "UJ", as estimates, due to low method bias.

Detection Limits and Sample Results

In several instances, analytical dilutions were necessary to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range.

Organochlorine Pesticides

The organochlorine pesticide data is considered usable and is therefore acceptable for decision making purposes with several exceptions. Four pesticide results were qualified as undetected because of poor dual column imprecision indicating matrix interference. One pesticide result was qualified as undetected because of field blank contamination.

Holding Times

Holding times were met for all organochlorine pesticide samples.

Sample Preservation

All organochlorine pesticides samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of non-conformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and equipment blanks. Alpha-BHC was detected in the equipment blank analyzed for pesticides. The positive alpha-BHC result for sample GW-DUPLICATE-1 was estimated below the reporting limit and was qualified "U," as undetected, at the reporting limit because of ambient contamination. Non-detect results were not qualified on this basis.

Surrogates – Surrogate recoveries were generally acceptable.

MS/MSDs – MS/MSD %Rs and RPDs were generally acceptable. No systematic problems were identified.

Calibrations – Minor calibration non-conformances were responsible for the qualification of several positive results.

Laboratory Control Samples – LCS %Rs were within the quality control limits.

Detection Limits and Sample Results

The method 8081A criterion for RPD was used in lieu of percent difference (%D) as stipulated in the USEPA Region 2 guidance. The method 8081A criterion of 40% RPD was used in lieu of the 25%D criterion stipulated in the USEPA Region 2 guidance.

Results greater than or equal to the sample quantitation limit (SQL) with RPDs greater than 40%, but less than or equal to 70%, were qualified "J," as estimated; and results with RPDs greater than 70% were qualified "NJ," as presumptively present at an estimated concentration. Note that USEPA Region 2 guidance states that in the absence of interference, results with RPDs greater than 100% should be rejected (qualified "R"). However, interference was observed in all samples; no pesticide data were rejected on this basis.

Sample results less than the SQL with RPDs greater than 40%, but less than or equal to 50%, were qualified "J," as estimated; and results with RPDs greater than 50%, were qualified "U," as not detected at the SQL.

The RPDs were calculated for all positive pesticide results that were qualified "P" by TestAmerica using the USEPA Region 2 guidance. The results tabulated below were qualified using these criteria.

Field ID (Round 1)	Analyte	Original Results (µg/L)	Lab Qualifier	RPD	Reportable Results (µg/L)	Validation Qualifier	Reason Code
GW-DUPLICATE-1	alpha-Chlordane	0.019	JP	44.9	0.019	J	r
GW-DUPLICATE-1	Dieldrin	0.022	JP	76	0.048	U	r
MW-36S	alpha-Chlordane	0.023	JP	49	0.023	J	r
Field ID (Round 2)	**Analyte**	**Original Results (µg/L)**	**Lab Qualifier**	**RPD**	**Reportable Results (µg/L)**	**Validation Qualifier**	**Reason Code**
MW-36S	DDT,4,4-	0.040	JP	93	0.049	U	r
MW-36S	beta-BHC	0.041	JP	62	0.049	U	r
MW-36S	Endosulfan I	0.093	P	58	0.093	NJ	r
MW-36S	Endosulfan II	0.015	JP	146	0.049	U	r
MW-36S	Heptachlor epoxide	0.049	P	90.5	0.049	NJ	r
MW-39D	delta-BHC	0.015	JP	33	0.015	J	
MW-39D	gamma-BHC	0.011	JP	76	0.011	NJ	r
GW-DUPLICATE-1	DDT,4,4-	0.040	JP	25	0.040	J	
GW-DUPLICATE-1	alpha-BHC	0.019	J	19	0.048	U	be
GW-DUPLICATE-1	delta-BHC	0.013	JP	135	0.013	NJ	r
GW-DUPLICATE-1	Endosulfan I	0.072	P	58	0.072	J	r
GW-DUPLICATE-1	gamma-BHC	0.011	JP	73	0.011	NJ	r
GW-DUPLICATE-1	gamma-chlordane	0.013	JP	104	0.013	NJ	r
GW-DUPLICATE-1	Hepatachlor epoxide	0.026	JP	114	0.026	NJ	r

Polychlorinated Biphenyls (PCBs) as Aroclors

The aqueous sample PCB data are valid, and may be considered usable for decision making purposes. No data qualifications were required.

TAL Metals

In general, the metals data appear to be valid, and may be considered usable for decision making purposes.

Detection Limits and Sample Results

In several instances, analytical dilutions were necessary to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range.

Field Duplicates

The samples listed in the table below were the parent and field duplicate samples collected for this sampling event. *Note: No volatiles field duplicate sample was collected for the surface soil samples.*

Parent Sample	Field Duplicate	Matrix
MW-36S	GW-DUPLICATE-1	Groundwater (First Event)
MW-40D	GW-DUPLICATE-2	Groundwater (First Event)
MW-36S	GW-DUPLICATE-1	Groundwater (Second Event)
MW-40D	GW-DUPLICATE-2	Groundwater (Second Event)

Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 30% for aqueous samples or the difference between the parent and field duplicate results must be less than the reporting limit for results less than five times the reporting limit.

Inorganics: The RPD must be ≤ 20% for aqueous samples or the difference between the parent and field duplicate results must be less than twice the reporting limit for results less than five times the reporting limit.

The results for the parent and field duplicate samples were non-detects, with exception to those listed in Tables 4 and 5 below. All RPDs were less than the maximum advisory limits or the difference criteria were met for all analytes/compounds except for those results listed below in bolded text. The bolded results were qualified "J/UJ," as estimates because of laboratory/field sampling imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

%RPD: Relative percent difference

NC: RPD could not be calculated

*: The difference between the parent and field duplicate results was less than the reporting limit (twice the reporting limit for metals) for results less than five times the reporting limit. Variation of this magnitude is acceptable.

µg/L: micrograms per liter (ppb)

mg/L: milligrams per liter (ppm)

%: percent

Table 4 - Scott Aviation Field Precision (First Groundwater Event)

Method	Compound	MW-36S	GW DUPLICATE-1	Units	% RPD
8260B	Acetone	25 U	4.2 J	µg/L	NC*
8260B	Carbon disulfide	1.2 J	1.2 J	µg/L	0
8260B	cis-1,2-Dichloroethene	2.6 J	2.4 J	µg/L	8
8260B	Trichloroethene	7.2	7.1	µg/L	1
8081A	alpha-Chlordane	0.023 J	0.019 J	µg/L	19
6010B	Barium	0.0814	0.0803	mg/L	1
6010B	Calcium	110	107	mg/L	3
6010B	Cobalt	0.0088	0.0090	mg/L	2
6010B	Iron	0.053	0.050 U	mg/L	NC*
6010B	Magnesium	109	105	mg/L	4
6010B	Manganese	0.0333	0.0316	mg/L	5
6010B	Potassium	1.23	1.12	mg/L	9
6010B	Sodium	50.0	49.0	mg/L	2
Method	**Compound**	**MW-40D**	**GW-DUPLICATE-2**	**Units**	**% RPD**
8260B	1,1,1-Trichloroethane	23	22 J	µg/L	4
8260B	1,1-Dichloroethane	260	240	µg/L	8
8260B	1,1-Dichloroethene	1.8 J	1.7 J	µg/L	6
8260B	Chloroethane	1.4 J	1.3 J	µg/L	7
8260B	cis-1,2-Dichloroethene	1.2 J	1.2 J	µg/L	0
8260B	Trichloroethene	2.8 J	2.8 J	µg/L	0
8260B	Total Xylenes	1.1 J	1.1 J	µg/L	0

Table 5 - Scott Aviation Field Precision (Second Groundwater Event)

Method	Compound	MW-36S	GW-DUPLICATE-1	Units	% RPD
8260B	cis-1,2-Dichloroethene	1.5 J	1.4 J	µg/L	7
8260B	Trichloroethene	0.58 J	0.58 J	µg/L	0
8081A	Endosulfan I	0.093 NJ	0.072 NJ	µg/L	25
6010B	Barium	0.0830	0.0850	mg/L	2
6010B	Calcium	107	110	mg/L	3
6010B	Cobalt	0.0072	0.0075	mg/L	4
6010B	**Lead**	**0.0050 U**	**0.0055**	**mg/L**	**NC**
6010B	Magnesium	111	114	mg/L	3
6010B	Manganese	0.0631	0.0659	mg/L	4
6010B	Potassium	3.27	3.40	mg/L	4
6010B	Sodium	48.8	50.3	mg/L	3
Method	**Compound**	**MW-40D**	**GW-DUPLICATE-2**	**Units**	**% RPD**
8260B	1,1,1-Trichloroethane	25	26	µg/L	4
8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	20 U	2.0 J	µg/L	NC*
8260B	**1,1-Dichloroethane**	**550**	**1100**	**µg/L**	**67**
8260B	1,1-Dichloroethene	6.0	3.9	µg/L	42
8260B	1,2-Dichloroethane	20 U	0.71 J	µg/L	NC*
8260B	Acetone	100 U	7.4 J	µg/L	NC*
8260B	Carbon disulfide	4.0	3.7	µg/L	8

Table 5 - Scott Aviation Field Precision (Second Groundwater Event Continued)

Method	Compound	MW-40D	GW-DUPLICATE-2	Units	% RPD
8260B	Chloroethane	20 U	2.9 J	µg/L	NC*
8260B	cis-1,2-Dichloroethene	20 U	2.0 J	µg/L	NC*
8260B	Trichloroethene	20 U	1.9 J	µg/L	NC*
8260B	Vinyl chloride	20 U	1.2 J	µg/L	NC*

Completeness of Deliverables

The data were reported as NYSDEC ASP Category B deliverables. No significant omissions or deficiencies were noted.

Conclusions

In general, the data are valid as reported and may be used for decision making purposes. Selected data points were qualified as estimated (J) based on certain QC nonconformances as described in the sections above.

Several results were estimated below the reporting limit and qualified "J" by the laboratory. These qualifiers were maintained in the data validation.

The complex matrix of many of these samples, coupled with the presence of Aroclors, posed significant challenges for the analyses of organochlorine pesticides. Each of these analyses was subject to severe chromatographic interferences, leading to an enhanced potential for elevated results and/or false positives. However, since these issues contribute to a positive bias (higher concentration) rather than a negative (lower concentration) bias, the reported results are considered to be accurate and usable for the intended purpose of assessing site conditions.

Attachments to Data Usability Summary Report (DUSR)

Former Scott Aviation DUSR
Complete Sample List

SDG	Matrix	Field ID	TestAmerica ID	Date Sampled	Time Sampled
RTF0696	Air	AS-1	RTF0696-01	6/2/2010	17:10
RTF0696	Air	SS-1 INDOOR	RTF0696-02	6/2/2010	17:00
RTF0696	Air	SS-1 SUBSLAB	RTF0696-03	6/2/2010	17:00
RTF0696	Air	SS-2 SUBSLAB	RTF0696-04	6/2/2010	16:55
RTF0696	Air	SS-2 INDOOR	RTF0696-05	6/2/2010	16:00
RTF0696	Air	AS-DUPLICATE	RTF0696-06	6/2/2010	15:50
RTF0696	Air	SS-3 INDOOR	RTF0696-07	6/2/2010	13:18
RTF0696	Air	SS-3 SUBSLAB	RTF0696-08	6/2/2010	10:40
RTE1487	Soil	IDW-1	RTF0544-01	6/4/2010	17:20
RTE1487	Soil	MW41B-18-20	RTF0708-02	5/27/2010	12:00
RTE1487	Soil	MW41B2-18-20	RTE1493-02	5/27/2010	11:30
RTE1487	Soil	MW-41B2-6-7	RTE1493-03	5/27/2010	10:00
RTE1487	Soil	MW41B2-8-10	RTE1493-01	5/27/2010	10:30
RTE1487	Soil	MW41B-8-10	RTF0708-01	5/27/2010	12:00
RTE1487	Soil	SS-DPT8-1A-(0-2)	RTF0541-02	6/2/2010	9:30
RTE1487	Soil	SS-DPT8-1B-(2-4)	RTF0541-03	6/2/2010	9:55
RTE1487	Soil	SS-DPT8-2A-(0-2)	RTF0541-04	6/2/2010	10:25
RTE1487	Soil	SS-DPT8-2B-(2-4)	RTF0541-05	6/2/2010	11:10
RTE1487	Soil	SS-DPT8-2C-(0-0.2)	RTF0541-01	6/2/2010	11:55
RTE1487	Soil	SS-DPT8-3A-(0-2)	RTF0541-07	6/2/2010	11:35
RTE1487	Soil	SS-DPT8-3B-(6-8)	RTF0541-06	6/2/2010	12:15
RTE1487	Soil	SS-DUPLICATE-1	RTE1487-03	5/26/2010	17:00
RTE1487	Soil	SS-MW35S-0-0.2	RTE1487-01	5/26/2010	12:30
RTE1487	Soil	SS-MW35S-6-7	RTE1487-02	5/26/2010	14:30
RTE1487	Soil	SS-MW36D-(8-9)	RTF0542-02	6/4/2010	--
RTE1487	Soil	SS-MW37D-6-7	RTE1487-08	5/28/2010	9:30
RTE1487	Soil	SS-MW38D-0-0.2	RTE1487-07	5/27/2010	13:15
RTE1487	Soil	SS-MW39D-(5-6)	RTF0542-01	6/3/2010	11:00
RTE1487	Soil	SS-MW40D-0-0.2	RTE1487-06	5/27/2010	13:30
RTE1487	Soil	SS-MW41B2-0-0.2	RTE1487-05	5/27/2010	8:00
RTE1487	Water	SS-RINSE BLANK-1	RTE1487-04	5/26/2010	8:00
RTE1487	Water	SS-TRIP BLANK-1	RTE1487-09	5/26/2010	8:00
RTE1487	Water	SS-TRIP BLANK-2	RTF0542-03	6/4/2010	8:00
RTF1140	Water	A1-GP01-S	RTF1213-18	6/22/2010	14:00
RTF1140	Water	A1-GP02-S	RTF1213-13	6/22/2010	12:35
RTF1140	Water	A1-GP03-S	RTF1213-15	6/21/2010	14:25
RTF1140	Water	A1-GP04-S	RTF1213-09	6/22/2010	9:45
RTF1140	Water	A1-GP05-S	RTF1213-17	6/21/2010	15:50
RTF1140	Water	A1-GP06-S	RTF1213-14	6/21/2010	17:30
RTF1140	Water	A1-GP07-S	RTF1213-08	6/22/2010	9:00
RTF1140	Water	A1-GP08-S	RTF1213-10	6/22/2010	10:25
RTF1140	Water	A1-GP09-S	RTF1213-11	6/22/2010	11:00
RTF1140	Water	A1-GP10-S	RTF1213-05	6/21/2010	11:20
RTF1140	Water	A1-GP11-S	RTF1213-01	6/21/2010	13:05
RTF1140	Water	A1-GP12-S	RTF1213-02	6/21/2010	11:40

Former Scott Aviation DUSR
Complete Sample List

SDG	Matrix	Field ID	TestAmerica ID	Date Sampled	Time Sampled
RTF1140	Water	A1-GP13-S	RTF1213-04	6/21/2010	9:50
RTF1140	Water	A1-GP14-S	RTF1213-03	6/21/2010	8:30
RTF1140	Water	A1-GP15-S	RTF1140-09	6/17/2010	11:10
RTF1140	Water	A1-GP16-S	RTF1140-08	6/17/2010	12:10
RTF1140	Water	A1-GP17-S	RTF1140-06	6/17/2010	16:05
RTF1140	Water	A1-GP18-S	RTF1140-18	6/18/2010	10:40
RTF1140	Water	GW-DUPLICATE-1	RTF1140-03	6/17/2010	8:00
RTF1140	Water	GW-DUPLICATE-2	RTF1213-07	6/21/2010	7:30
RTF1140	Water	GW-RINSE BLANK-1	RTF1140-01	6/17/2010	12:00
RTF1140	Water	GW-RINSE BLANK-2	RTF1213-16	6/21/2010	12:00
RTF1140	Water	GW-TRIP BLANK-1	RTF1140-02	6/17/2010	8:00
RTF1140	Water	GW-TRIP BLANK-2	RTF1213-19	6/21/2010	7:00
RTF1140	Water	MW-30	RTF1140-16	6/18/2010	12:00
RTF1140	Water	MW-35D	RTF1140-15	6/17/2010	9:35
RTF1140	Water	MW-35S	RTF1140-14	6/17/2010	10:15
RTF1140	Water	MW-36D	RTF1140-04	6/17/2010	14:10
RTF1140	Water	MW-36S	RTF1140-05	6/17/2010	14:45
RTF1140	Water	MW-37D	RTF1140-20	6/18/2010	8:50
RTF1140	Water	MW-37S	RTF1140-19	6/18/2010	10:05
RTF1140	Water	MW-38D	RTF1213-12	6/22/2010	11:45
RTF1140	Water	MW-39D	RTF1140-17	6/18/2010	11:15
RTF1140	Water	MW-40D	RTF1213-06	6/21/2010	10:40
RTF1140	Water	MW-41B2	RTF1140-07	6/17/2010	16:45
RTF1140	Water	TP-1	RTF1140-12	6/17/2010	10:20
RTF1140	Water	TP-2	RTF1140-13	6/17/2010	10:25
RTF1140	Water	TP-3	RTF1140-10	6/17/2010	10:30
RTF1140	Water	TP-4	RTF1140-11	6/17/2010	10:35
RTH0401	Water	A1-GP01-S	RTH0401-14	8/4/2010	13:10
RTH0401	Water	A1-GP02-S	RTH0401-15	8/4/2010	11:50
RTH0401	Water	A1-GP03-S	RTH0401-16	8/4/2010	8:25
RTH0401	Water	A1-GP04-S	RTH0401-17	8/4/2010	10:50
RTH0401	Water	A1-GP05-S	RTH0401-18	8/4/2010	9:40
RTH0401	Water	A1-GP06-S	RTH0401-19	8/4/2010	10:15
RTH0401	Water	A1-GP07-S	RTH0401-20	8/4/2010	14:40
RTH0401	Water	A1-GP08-S	RTH0402-01	8/4/2010	14:05
RTH0401	Water	A1-GP09-S	RTH0402-02	8/3/2010	17:35
RTH0401	Water	A1-GP10-S	RTH0402-03	8/3/2010	12:45
RTH0401	Water	A1-GP11-S	RTH0402-04	8/3/2010	14:00
RTH0401	Water	A1-GP12-S	RTH0402-05	8/3/2010	13:30
RTH0401	Water	A1-GP13-S	RTH0402-06	8/3/2010	11:05
RTH0401	Water	A1-GP14-S	RTH0402-07	8/3/2010	14:55
RTH0401	Water	A1-GP15-S	RTH0402-08	8/2/2010	12:25
RTH0401	Water	A1-GP16-S	RTH0402-09	8/2/2010	13:00
RTH0401	Water	A1-GP17-S	RTH0402-10	8/3/2010	16:00
RTH0401	Water	A1-GP18-S	RTH0402-11	8/2/2010	18:10

Former Scott Aviation DUSR
Complete Sample List

SDG	Matrix	Field ID	TestAmerica ID	Date Sampled	Time Sampled
RTH0401	Water	GW-DUPLICATE-1	RTH0401-06	8/2/2010	8:00
RTH0401	Water	GW-DUPLICATE-2	RTH0402-13	8/3/2010	7:30
RTH0401	Water	GW-RINSE BLANK-1	RTH0401-05	8/2/2010	19:30
RTH0401	Water	GW-RINSE BLANK-2	RTH0402-15	8/3/2010	18:00
RTH0401	Water	GW-TRIP BLANK-1	RTH0402-14	8/2/2010	7:30
RTH0401	Water	MW-30	RTH0401-01	8/3/2010	10:30
RTH0401	Water	MW-35D	RTH0401-08	8/2/2010	11:45
RTH0401	Water	MW-35S	RTH0401-07	8/2/2010	11:05
RTH0401	Water	MW-36D	RTH0401-09	8/2/2010	13:30
RTH0401	Water	MW-36S	RTH0401-02	8/3/2010	16:20
RTH0401	Water	MW-37D	RTH0401-11	8/3/2010	8:10
RTH0401	Water	MW-37S	RTH0401-10	8/3/2010	8:50
RTH0401	Water	MW-38D	RTH0401-12	8/4/2010	12:25
RTH0401	Water	MW-39D	RTH0401-03	8/3/2010	9:30
RTH0401	Water	MW-40D	RTH0401-13	8/3/2010	12:10
RTH0401	Water	MW-41B2	RTH0401-04	8/2/2010	17:30
RTH0401	Water	TP-2	RTH0402-12	8/2/2010	11:50

Former Scott Aviation DUSR
Summary of Qualified Data

Sample	Parameter	Result	Lab Qualifier	Validated Result	Validated Qualifier	Units	Reason Code
RTF0696							
AS-1	1,1,1-Trichloroethane	1.1	U	1.1	UJ	µg/m^3	fd
AS-1	1,1-Dichloroethene	0.79	U	0.79	UJ	µg/m^3	fd
AS-1	1,2,4-Trimethylbenzene	0.98	U	0.98	UJ	µg/m^3	fd
AS-1	1,2-Dichloropropane	0.92	U	0.92	UJ	µg/m^3	fd
AS-1	Benzene	0.64	U	0.64	UJ	µg/m^3	fd
AS-1	cis-1,2-Dichloroethene	0.79	U	0.79	UJ	µg/m^3	fd
AS-1	Cyclohexane	0.69	U	0.69	UJ	µg/m^3	fd
AS-1	Ethylbenzene	0.87	U	0.87	UJ	µg/m^3	fd
AS-1	n-Heptane	0.82	U	0.82	UJ	µg/m^3	fd
AS-1	n-Hexane	1.8	U	1.8	UJ	µg/m^3	fd
AS-1	Toluene	1.1		1.1	J	µg/m^3	fd
AS-1	Trichloroethene	1.1	U	1.1	UJ	µg/m^3	fd
AS-1	m,p-Xylene	1.7	U	1.7	UJ	µg/m^3	fd
AS-1	o-Xylene	0.87	U	0.87	UJ	µg/m^3	fd
AS-DUPLICATE	1,1,1-Trichloroethane	3.4		3.4	J	µg/m^3	fd
AS-DUPLICATE	1,1-Dichloroethene	0.83		0.83	J	µg/m^3	fd
AS-DUPLICATE	1,2,4-Trimethylbenzene	1.4		1.4	J	µg/m^3	fd
AS-DUPLICATE	1,2-Dichloropropane	1.6		1.6	J	µg/m^3	fd
AS-DUPLICATE	Benzene	2.4		2.4	J	µg/m^3	fd
AS-DUPLICATE	cis-1,2-Dichloroethene	1.5		1.5	J	µg/m^3	fd
AS-DUPLICATE	Cyclohexane	1.1		1.1	J	µg/m^3	fd
AS-DUPLICATE	Ethylbenzene	1.3		1.3	J	µg/m^3	fd
AS-DUPLICATE	n-Heptane	1.1		1.1	J	µg/m^3	fd
AS-DUPLICATE	n-Hexane	2.4		2.4	J	µg/m^3	fd
AS-DUPLICATE	Toluene	11		11	J	µg/m^3	fd
AS-DUPLICATE	Trichloroethene	1.5		1.5	J	µg/m^3	fd
AS-DUPLICATE	m,p-Xylene	4.3		4.3	J	µg/m^3	fd
AS-DUPLICATE	o-Xylene	1.4		1.4	J	µg/m^3	fd
RTE1487							
SS-DPT8-1A-(0-2)	acetone	30	J	34	U	µg/kg	be
SS-DPT8-1A-(0-2)	methylene chloride	17		19	U	µg/kg	be
SS-DPT8-1A-(0-2)	toluene	3.9	J	6.7	U	µg/kg	be
SS-DPT8-1A-(0-2)	Aroclor 1260	280		280	J	µg/kg	c
SS-DPT8-1B-(2-4)	acetone	40		40	U	µg/kg	be
SS-DPT8-1B-(2-4)	methylene chloride	15		19	U	µg/kg	be
SS-DPT8-1B-(2-4)	toluene	4.9	J	6	U	µg/kg	be
SS-DPT8-2A-(0-2)	acetone	12000	E	3800		µg/kg	a
SS-DPT8-2A-(0-2)	methylene chloride	140		140	J	µg/kg	be
SS-DPT8-2A-(0-2)	toluene	48		48	J	µg/kg	be
SS-DPT8-2A-(0-2)	Aroclor 1260	99		99	J	µg/kg	c, r
SS-DPT8-2B-(2-4)	cyclohexane	14	J	25	U	µg/kg	be
SS-DPT8-2B-(2-4)	methylene chloride	79		79	J	µg/kg	be
SS-DPT8-2B-(2-4)	toluene	41		41	J	µg/kg	be
SS-DPT8-2C-(0-2)	methylene chloride	15		19	U	µg/kg	be
SS-DPT8-2C-(0-2)	Aroclor 1260	38	P	38	J	µg/kg	c, m
SS-DPT8-3A-(0-2)	acetone	42		42	U	µg/kg	be

Former Scott Aviation DUSR
Summary of Qualified Data

Sample	Parameter	Result	Lab Qualifier	Validated Result	Validated Qualifier	Units	Reason Code
SS-DPT8-3A-(0-2)	methylene chloride	12		12	U	µg/kg	be
SS-DPT8-3A-(0-2)	toluene	6.1	J	6.2	U	µg/kg	be
SS-DPT8-3A-(0-2)	di-n-butyl phthalate	1300		1300	U	µg/kg	be
SS-DPT8-3B-(6-8)	acetone	9.8	J	29	U	µg/kg	be
SS-DPT8-3B-(6-8)	methylene chloride	13		19	U	µg/kg	be
SS-DPT8-3B-(6-8)	toluene	3.8	J	5.9	U	µg/kg	be
SS-DUPLICATE-1	methylene chloride	22	B	22	U	µg/kg	be
SS-DUPLICATE-1	antimony	21.9	U	21.9	UJ	mg/kg	m
SS-DUPLICATE-1	manganese	124		124	J	mg/kg	m
SS-MW-35S-0-0.2	4,4'-DDT	1.4	JP	1.4	J	µg/kg	r
SS-MW-35S-0-0.2	antimony	21.9	U	21.9	UJ	mg/kg	m
SS-MW-35S-0-0.2	manganese	152		152	J	mg/kg	m
SS-MW-35S-6-7	methylene chloride	19	B	19	U	µg/kg	be
SS-MW-35S-6-7	tetrachloroethene	2.7	JB	6	U	µg/kg	bl
SS-MW-35S-6-7	antimony	17.2	U	17.2	UJ	mg/kg	m
SS-MW-35S-6-7	manganese	337		337	J	mg/kg	m
SS-MW-36D-(8-9)	acetone	19		29	U	µg/kg	be
SS-MW-36D-(8-9)	methylene chloride	15		19	U	µg/kg	be
SS-MW-36D-(8-9)	toluene	2.6	J	5.8	U	µg/kg	be
SS-MW-37D-6-7	antimony	23.1	U	23.1	UJ	mg/kg	m
SS-MW-37D-6-7	manganese	473		473	J	mg/kg	m
SS-MW-38D-0-0.2	methylene chloride	3.8	JB	6.5	U	µg/kg	bl
SS-MW-38D-0-0.2	tetrachloroethene	2.7	JB	6.5	U	µg/kg	bl
SS-MW-38D-0-0.2	antimony	19.5	U	19.5	UJ	mg/kg	m
SS-MW-38D-0-0.2	manganese	366		366	J	mg/kg	m
SS-MW-39D-(5-6)	beta-BHC	2.0	U	2.0	UJ	µg/kg	m
SS-MW-39D-(5-6)	delta-BHC	2.0	U	2.0	UJ	µg/kg	m
SS-MW-39D-(5-6)	Endrin aldehyde	2.0	U	2.0	UJ	µg/kg	m
SS-MW-40D-0-0.2	4,4'-DDD	1.6	JP	1.6	J	µg/kg	c
SS-MW-40D-0-0.2	Endosulfan I	0.6	JP	3.9	U	µg/kg	r
SS-MW-40D-0-0.2	Aroclor-1254	21	P	21	J	µg/kg	g
SS-MW-40D-0-0.2	Aroclor-1260	34	P	34	J	µg/kg	g, r
SS-MW-40D-0-0.2	tetrachloroethene	2.6	JB	5.9	U	µg/kg	bl
SS-MW-40D-0-0.2	antimony	17.2	U	17.2	UJ	mg/kg	m
SS-MW-40D-0-0.2	manganese	309		309	J	mg/kg	m
SS-MW-41B2-0-0.2	methylene chloride	13	B	13	U	µg/kg	bl
SS-MW-41B2-0-0.2	tetrachloroethene	4.4	JB	9.4	U	µg/kg	bl
SS-MW-41B2-0-0.2	4,4'-DDD	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	4,4'-DDE	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	4,4'-DDT	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Aldrin	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	alpha-BHC	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	alpha-Chlordane	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	beta-BHC	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Chlordane	340	U	340	UJ	µg/kg	x
SS-MW-41B2-0-0.2	delta-BHC	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Dieldrin	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Endosulfan I	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Endosulfan II	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Endosulfan sulfate	17	JP	34	UJ	µg/kg	r, x
SS-MW-41B2-0-0.2	Endrin	34	U	34	UJ	µg/kg	x

Former Scott Aviation DUSR
Summary of Qualified Data

Sample	Parameter	Result	Lab Qualifier	Validated Result	Validated Qualifier	Units	Reason Code
SS-MW-41B2-0-0.2	Endrin aldehyde	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Endrin ketone	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	gamma-BHC	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	gamma-Chlordane	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Heptachlor	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Heptachlor epoxide	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Methoxychlor	34	U	34	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Toxaphene	340	U	340	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Aroclor 1016	170	U	170	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Aroclor 1221	170	U	170	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Aroclor 1232	170	U	170	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Aroclor 1242	170	U	170	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Aroclor 1248	170	U	170	UJ	µg/kg	x
SS-MW-41B2-0-0.2	Aroclor 1254	110	JP	110	J	µg/kg	g, x
SS-MW-41B2-0-0.2	Aroclor 1260	150	JP	150	J	µg/kg	g, r, x
SS-MW-41B2-0-0.2	antimony	28.3	U	28.3	UJ	mg/kg	m, x
SS-MW-41B2-0-0.2	manganese	607		607	J	mg/kg	m, x
SS-MW-41B2-0-0.2	all VOCs				J/UJ	µg/kg	x
SS-MW-41B2-0-0.2	all SVOCs				J/UJ	µg/kg	x
SS-MW-41B2-0-0.2	Aluminum	20900		20900	J	mg/kg	x
SS-MW-41B2-0-0.2	Antimony	28.3	U	28.3	UJ	mg/kg	x
SS-MW-41B2-0-0.2	Arsenic	12		12	J	mg/kg	x
SS-MW-41B2-0-0.2	Barium	142		142	J	mg/kg	x
SS-MW-41B2-0-0.2	Beryllium	0.776		0.776	J	mg/kg	x
SS-MW-41B2-0-0.2	Cadmium	19.9		19.9	J	mg/kg	x
SS-MW-41B2-0-0.2	Calcium	21800		21800	J	mg/kg	x
SS-MW-41B2-0-0.2	Chromium	322		322	J	mg/kg	x
SS-MW-41B2-0-0.2	Cobalt	12.2		12.2	J	mg/kg	x
SS-MW-41B2-0-0.2	Copper	123		123	J	mg/kg	x
SS-MW-41B2-0-0.2	Iron	34500		34500	J	mg/kg	x
SS-MW-41B2-0-0.2	Lead	305		305	J	mg/kg	x
SS-MW-41B2-0-0.2	Magnesium	8050		8050	J	mg/kg	x
SS-MW-41B2-0-0.2	Manganese	607		607	J	mg/kg	x
SS-MW-41B2-0-0.2	Total Mercury	0.569		0.569	J	mg/kg	x
SS-MW-41B2-0-0.2	Nickel	83.9		83.9	J	mg/kg	x
SS-MW-41B2-0-0.2	Potassium	2490		2490	J	mg/kg	x
SS-MW-41B2-0-0.2	Selenium	7.5	U	7.5	UJ	mg/kg	x
SS-MW-41B2-0-0.2	Silver	1.36		1.36	J	mg/kg	x
SS-MW-41B2-0-0.2	Sodium	264	U	264	UJ	mg/kg	x
SS-MW-41B2-0-0.2	Thallium	11.3	U	11.3	UJ	mg/kg	x
SS-MW-41B2-0-0.2	Vanadium	34.7		34.7	J	mg/kg	x
SS-MW-41B2-0-0.2	Zinc	646		646	J	mg/kg	x
SS-RINSE BLANK-1	methylene chloride	19	B	19	J	µg/L	bl
SS-TRIP BLANK-1	methylene chloride	20	B	20	J	µg/L	bl
RTH0401							
A1-GP02-S	trichloroethene	20000	E	20000		µg/L	a
A1-GP04-S	cis-1,2-Dichloroethene	2400	E	3100		µg/L	a
A1-GP04-S	trichloroethene	3500	E	13000		µg/L	a
A1-GP04-S	vinyl chloride	460	E	480	J	µg/L	a
A1-GP05-S	trichloroethene	16	N1,C07	2.4	J	µg/L	q
A1-GP06-S	1,1-Dichloroethane	3100	E	3200		µg/L	a

Former Scott Aviation DUSR
Summary of Qualified Data

Sample	Parameter	Result	Lab Qualifier	Validated Result	Validated Qualifier	Units	Reason Code
A1-GP11-S	cis-1,2-Dichloroethene	1100	E	1000		µg/L	a
A1-GP12-S	cis-1,2-Dichloroethene	3300	E	2900		µg/L	a
A1-GP13-S	methylene chloride	12	J	50	U	µg/L	be
A1-GP13-S	cis-1,2-Dichloroethene	1400	E	2200		µg/L	a
A1-GP13-S	vinyl chloride	1600	E	2200		µg/L	a
GW-DUPLICATE-1	1,1-Dichloroethane	5.0	U	5.0	UJ	µg/L	fd
GW-DUPLICATE-1	di-n-butyl phthalate	0.86	J	9.7	U	µg/L	be
GW-DUPLICATE-1	4,4'-DDT	0.040	JP	0.049	J	µg/L	c
GW-DUPLICATE-1	alpha-BHC	0.019	J	0.048	U	µg/L	be
GW-DUPLICATE-1	delta-BHC	0.013	JP	0.013	NJ	µg/L	r
GW-DUPLICATE-1	Endosulfan I	0.072	P	0.072	J	µg/L	r
GW-DUPLICATE-1	gamma-BHC	0.011	JP	0.011	NJ	µg/L	r
GW-DUPLICATE-1	gamma-Chlordane	0.013	JP	0.013	NJ	µg/L	r
GW-DUPLICATE-1	Hepatahlor epoxide	0.026	JP	0.026	NJ	µg/L	r
GW-DUPLICATE-1	Lead	5.5		5.5	J	µg/L	fd
GW-DUPLICATE-2	1,1-Dichloroethane	590	E	1100		µg/L	a
MW-30	Lead	5.0	U	5.0	UJ	µg/L	fd
MW-36S	1,1-Dichloroethane	5.0	U	5.0	UJ	µg/L	fd
MW-36S	di-n-butyl phthalate	0.35	J	9.6	U	µg/L	be
MW-36S	4,4'-DDT	0.040	JP	0.049	U	µg/L	r
MW-36S	beta-BHC	0.041	JP	0.049	U	µg/L	r
MW-36S	Endosulfan I	0.093	J	0.093	NJ	µg/L	r
MW-36S	Endosulfan II	0.015	JP	0.049	U	µg/L	r
MW-36S	Heptachlor epoxide	0.049	P	0.049	NJ	µg/L	r
MW-36S	Lead	5.0	U	5.0	UJ	µg/L	fd
MW-37S	1,1-Dichloroethane	440	E	440		µg/L	a
MW-39D	di-n-butyl phthalate	0.35	J	9.4	U	µg/L	be
MW-39D	gamma-BHC	0.011	JP	0.011	NJ	µg/L	r
MW-39D	Lead	5.0	U	5.0	UJ	µg/L	fd
MW-40D	1,1-Dichloroethane	520	E	550		µg/L	a
MW-41B2	di-n-butyl phthalate	0.49	J	9.6	U	µg/L	be
MW-41B2	delta-BHC	0.012	J	0.012	J	µg/L	c
MW-41B2	Lead	5.0	U	5.0	UJ	µg/L	fd
TP-2	1,1,2-Trichloro-1,2,2-trifluoroethane	1100	E	1200		µg/L	a
GW-RINSE BLANK-1	alpha-BHC	0.014	J	0.014	J	µg/L	c
RTF1140							
A1-GP01-S	1,1,1-Trichloroethane	42000	E	37000		µg/L	a
A1-GP01-S	cis-1,2-Dichloroethene	24000	E	22000		µg/L	a
A1-GP02-S	cis-1,2-Dichloroethene	7600	E	6400		µg/L	a
A1-GP02-S	trichloroethene	15000	E	11000		µg/L	a
A1-GP03-S	1,1,1-Trichloroethane	31000	E	18000		µg/L	a
A1-GP03-S	cis-1,2-Dichloroethene	9500	E	7100		µg/L	a
A1-GP04-S	trichloroethene	18000	E	14000		µg/L	a
A1-GP07-S	trichloroethene	5700	E	4900		µg/L	a
A1-GP10-S	1,1,1-Trichloroethane	5600	E	55000		µg/L	a
A1-GP10-S	1,1,2-Trichloro-1,2,2-trifluoroethane	1800	E	1400	J	µg/L	a
A1-GP10-S	1,1-Dichloroethane	4100	E	43000		µg/L	a
A1-GP10-S	1,1-Dichloroethene	3800	E	1300	J	µg/L	a
A1-GP10-S	chloroethane	300	E	10000	U	µg/L	a
A1-GP10-S	cis-1,2-Dichloroethene	180	E	10000	U	µg/L	a
A1-GP11-S	cis-1,2-Dichloroethene	510	E	520		µg/L	a

Former Scott Aviation DUSR
Summary of Qualified Data

Sample	Parameter	Result	Lab Qualifier	Validated Result	Validated Qualifier	Units	Reason Code
A1-GP11-S	trichloroethene	270	E	300		µg/L	a
A1-GP12-S	cis-1,2-Dichloroethene	1100	E	1100		µg/L	a
A1-GP12-S	trichloroethene	610	E	600		µg/L	a
A1-GP12-S	vinyl chloride	130	E	130		µg/L	a
A1-GP13-S	1,1-Dichloroethane	350	E	400		µg/L	a
A1-GP13-S	chloroethane	100	E	160		µg/L	a
A1-GP13-S	cis-1,2-Dichloroethene	520	E	550		µg/L	a
A1-GP13-S	vinyl chloride	800	E	770		µg/L	a
A1-GP13-S	xylenes, total	1700	E	1600		µg/L	a
GW-DUPLICATE-1	indeno(1,2,3-cd)pyrene	9.9	U	9.9	UJ	µg/L	l
GW-DUPLICATE-1	Dieldrin	0.022	JP	0.048	U	µg/L	r
GW-DUPLICATE-2	1,1-dichloroethane	240	E	240		µg/L	a
MW-36S	indeno(1,2,3-cd)pyrene	9.8	U	9.8	UJ	µg/L	l
MW-37S	1,1,1-trichloroethane	160	E	130		µg/L	a
MW-38D	trichloroethene	9500	E	11000		µg/L	a
MW-39D	indeno(1,2,3-cd)pyrene	9.4	U	9.4	UJ	µg/L	l
MW-40D	1,1-dichloroethane	270	E	260		µg/L	a
MW-41B2	indeno(1,2,3-cd)pyrene	9.6	U	9.6	UJ	µg/L	l
TP-1	1,1,2-trichloro-1,2,2-trifluoroethane	270	E	240		µg/L	a
TP-2	1,1,2-trichloro-1,2,2-trifluoroethane	260	E	290		µg/L	a

Support Documentation

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTE1487

Project: Scott Aviation site
Project Number: AECOM-0003

Received: 05/28/10-06/04/10
Reported: 06/22/10 10:17

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SS-RINSE BLANK-1 (RTE1487-04 - Water)						**Sampled: 05/26/10 08:00**		**Recvd: 05/28/10 13:30**		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.31	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,1-Dichloroethane	ND		5.0	0.38	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,1-Dichloroethene	ND		5.0	0.29	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,2,4-Trichlorobenzene	ND		5.0	0.41	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,2-Dibromo-3-chloropropane	ND		5.0	0.39	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,2-Dibromoethane	ND		5.0	0.73	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,2-Dichlorobenzene	ND		5.0	0.79	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,2-Dichloroethane	ND		5.0	0.21	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,2-Dichloropropane	ND		5.0	0.72	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
1,4-Dichlorobenzene	ND		5.0	0.84	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
2-Butanone	ND		25	1.3	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
2-Hexanone	ND		25	1.2	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
4-Methyl-2-pentanone	ND		25	2.1	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Acetone	**11**	J	25	3.0	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Benzene	ND		5.0	0.41	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Bromodichloromethane	ND		5.0	0.39	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Bromoform	ND		5.0	0.26	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Bromomethane	ND		5.0	0.69	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Carbon disulfide	ND		5.0	0.19	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Carbon Tetrachloride	ND		5.0	0.27	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Chlorobenzene	ND		5.0	0.75	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Dibromochloromethane	ND		5.0	0.32	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Chloroethane	ND		5.0	0.32	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Chloroform	ND		5.0	0.34	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Chloromethane	ND		5.0	0.35	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Cyclohexane	**2.4**	J	5.0	0.18	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Dichlorodifluoromethane	ND		5.0	0.68	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Ethylbenzene	ND		5.0	0.74	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Isopropylbenzene	ND		5.0	0.79	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Methyl Acetate	ND		5.0	0.50	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.16	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Methylcyclohexane	ND		5.0	0.16	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Methylene Chloride	**19**	B	5.0	0.44	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Styrene	ND		5.0	0.73	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Tetrachloroethene	ND		5.0	0.36	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Toluene	**6.1**		5.0	0.51	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Trichloroethene	ND		5.0	0.46	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Trichlorofluoromethane	ND		5.0	0.88	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B
Vinyl chloride	ND		5.0	0.90	ug/L	1.00	06/05/10 16:35	PQ	10F0469	8260B

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTE1487

Project: Scott Aviation site
Project Number: AECOM-0003

Received: 05/28/10-06/04/10
Reported: 06/22/10 10:17

Analytical Report

Client ID: SS-RINSE BLANK-1 (RTE1487-04 - Water) - cont. **Sampled: 05/26/10 08:00** **Recvd: 05/28/10 13:30**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics by GC/MS - cont.										
Butyl benzyl phthalate	ND		9.5	0.40	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Caprolactam	ND		9.5	2.1	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Carbazole	ND		4.8	0.29	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Chrysene	ND		9.5	0.31	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Dibenzo(a,h)anthracene	ND		9.5	0.40	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Dibenzofuran	ND		9.5	0.49	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Diethyl phthalate	ND		9.5	0.21	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Dimethyl phthalate	ND		9.5	0.34	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Di-n-butyl phthalate	**0.34**	J	9.5	0.30	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Di-n-octyl phthalate	ND		9.5	0.45	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Fluoranthene	ND		9.5	0.38	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Fluorene	ND		9.5	0.34	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Hexachlorobenzene	ND		9.5	0.49	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Hexachlorobutadiene	ND		9.5	0.65	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Hexachlorocyclopentadiene	ND		9.5	0.56	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Hexachloroethane	ND		9.5	0.56	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Indeno(1,2,3-cd)pyrene	ND		9.5	0.45	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Isophorone	ND		9.5	0.41	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Naphthalene	ND		9.5	0.72	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Nitrobenzene	ND		9.5	0.28	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
N-Nitrosodi-n-propylamine	ND		9.5	0.51	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
N-Nitrosodiphenylamine	ND		9.5	0.49	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Pentachlorophenol	ND		48	2.1	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Phenanthrene	ND		9.5	0.42	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Phenol	ND		9.5	0.37	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
Pyrene	ND		9.5	0.32	ug/L	1.00	06/03/10 18:50	MKP	10E2426	8270C
2,4,6-Tribromophenol	*99 %*		*Surr Limits: (52-132%)*				*06/03/10 18:50*	*MKP*	*10E2426*	*8270C*
2-Fluorobiphenyl	*78 %*		*Surr Limits: (48-120%)*				*06/03/10 18:50*	*MKP*	*10E2426*	*8270C*
2-Fluorophenol	*43 %*		*Surr Limits: (20-120%)*				*06/03/10 18:50*	*MKP*	*10E2426*	*8270C*
Nitrobenzene-d5	*76 %*		*Surr Limits: (46-120%)*				*06/03/10 18:50*	*MKP*	*10E2426*	*8270C*
Phenol-d5	*31 %*		*Surr Limits: (16-120%)*				*06/03/10 18:50*	*MKP*	*10E2426*	*8270C*
p-Terphenyl-d14	*85 %*		*Surr Limits: (24-136%)*				*06/03/10 18:50*	*MKP*	*10E2426*	*8270C*
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDD [2C]	ND	QSU	0.047	0.0087	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
4,4'-DDE [2C]	ND	QSU	0.047	0.011	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
4,4'-DDT [2C]	ND	QSU	0.047	0.010	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
Aldrin [2C]	ND	QSU	0.047	0.0062	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
alpha-BHC [2C]	ND	QSU	0.047	0.0062	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
alpha-Chlordane [2C]	ND	QSU	0.047	0.014	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
beta-BHC [2C]	ND	QSU	0.047	0.023	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
Chlordane [2C]	ND	QSU	0.47	0.027	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
delta-BHC [2C]	ND	QSU	0.047	0.0095	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
Dieldrin [2C]	ND	QSU	0.047	0.0092	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
Endosulfan I [2C]	ND	QSU	0.047	0.010	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
Endosulfan II [2C]	ND	QSU	0.047	0.011	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
Endosulfan sulfate [2C]	ND	QSU	0.047	0.015	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
Endrin [2C]	ND	QSU	0.047	0.013	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A
Endrin aldehyde [2C]	ND	QSU	0.047	0.015	ug/L	1.00	06/02/10 14:51	DGB	10E2471	8081A

AECOM - Amherst, NY
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Amherst, NY 14226

SDG Number: RTE1487

Project: Scott Aviation site
Project Number: AECOM-0003

Received: 05/28/10-06/04/10
Reported: 06/22/10 10:17

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SS-TRIP BLANK-1 (RTE1487-09 - Water)						**Sampled: 05/26/10 08:00**		**Recvd: 05/28/10 13:30**		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.31	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,1-Dichloroethane	ND		5.0	0.38	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,1-Dichloroethene	ND		5.0	0.29	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,2,4-Trichlorobenzene	ND		5.0	0.41	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,2-Dibromo-3-chloropropane	ND		5.0	0.39	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,2-Dibromoethane	ND		5.0	0.73	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,2-Dichlorobenzene	ND		5.0	0.79	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,2-Dichloroethane	ND		5.0	0.21	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,2-Dichloropropane	ND		5.0	0.72	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,4-Dichlorobenzene	ND		5.0	0.84	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
2-Butanone	ND		25	1.3	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
2-Hexanone	ND		25	1.2	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
4-Methyl-2-pentanone	ND		25	2.1	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Acetone	**9.8**	J	25	3.0	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Benzene	ND		5.0	0.41	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Bromodichloromethane	ND		5.0	0.39	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Bromoform	ND		5.0	0.26	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Bromomethane	ND		5.0	0.69	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Carbon disulfide	ND		5.0	0.19	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Carbon Tetrachloride	ND		5.0	0.27	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Chlorobenzene	ND		5.0	0.75	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Dibromochloromethane	ND		5.0	0.32	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Chloroethane	ND		5.0	0.32	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Chloroform	ND		5.0	0.34	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Chloromethane	ND		5.0	0.35	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Cyclohexane	**2.8**	J	5.0	0.18	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Dichlorodifluoromethane	ND		5.0	0.68	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Ethylbenzene	ND		5.0	0.74	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Isopropylbenzene	ND		5.0	0.79	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Methyl Acetate	ND		5.0	0.50	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.16	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Methylcyclohexane	ND		5.0	0.16	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Methylene Chloride	**20**	B	5.0	0.44	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Styrene	ND		5.0	0.73	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Tetrachloroethene	ND		5.0	0.36	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Toluene	**6.0**		5.0	0.51	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Trichloroethene	ND		5.0	0.46	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Trichlorofluoromethane	ND		5.0	0.88	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
Vinyl chloride	ND		5.0	0.90	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B

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SDG Number: RTE1487

Project: Scott Aviation site
Project Number: AECOM-0003

Received: 05/28/10-06/04/10
Reported: 06/22/10 10:17

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SS-TRIP BLANK-1 (RTE1487-09 - Water) - cont.						**Sampled: 05/26/10 08:00**		**Recvd: 05/28/10 13:30**		
Volatile Organic Compounds by EPA 8260B - cont.										
Xylenes, total	ND		15	0.66	ug/L	1.00	06/05/10 17:01	PQ	10F0469	8260B
1,2-Dichloroethane-d4	*103 %*		*Surr Limits: (66-137%)*				*06/05/10 17:01*	*PQ*	*10F0469*	*8260B*
4-Bromofluorobenzene	*110 %*		*Surr Limits: (73-120%)*				*06/05/10 17:01*	*PQ*	*10F0469*	*8260B*
Toluene-d8	*110 %*		*Surr Limits: (71-126%)*				*06/05/10 17:01*	*PQ*	*10F0469*	*8260B*

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 06/05/10 (Lab Number:10F0469-BLK1, Batch: 10F0469)											
Methyl-t-Butyl Ether (MTBE)			5.0	0.16	ug/L	ND					
Methylcyclohexane			5.0	0.16	ug/L	ND					
Methylene Chloride			5.0	0.44	ug/L	3.5					J
Styrene			5.0	0.73	ug/L	ND					
Tetrachloroethene			5.0	0.36	ug/L	ND					
Toluene			5.0	0.51	ug/L	ND					
trans-1,2-Dichloroethene			5.0	0.90	ug/L	ND					
trans-1,3-Dichloropropene			5.0	0.37	ug/L	ND					
Trichloroethene			5.0	0.46	ug/L	ND					
Trichlorofluoromethane			5.0	0.88	ug/L	ND					
Vinyl chloride			5.0	0.90	ug/L	ND					
Xylenes, total			15	0.66	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*96*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*104*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*106*	*71-126*			
LCS Analyzed: 06/05/10 (Lab Number:10F0469-BS1, Batch: 10F0469)											
1,1,1-Trichloroethane			5.0	0.82	ug/L	ND		73-126			
1,1,2,2-Tetrachloroethane			5.0	0.21	ug/L	ND		70-126			
1,1,2-Trichloroethane			5.0	0.23	ug/L	ND		76-122			
1,1,2-Trichloro-1,2,2-trifluoroethane			5.0	0.31	ug/L	ND		60-140			
1,1-Dichloroethane		50.0	5.0	0.38	ug/L	48.1	96	71-129			
1,1-Dichloroethene		50.0	5.0	0.29	ug/L	50.4	101	65-138			
1,2,4-Trichlorobenzene			5.0	0.41	ug/L	ND		70-122			
1,2-Dibromo-3-chloropropane			5.0	0.39	ug/L	ND		56-134			
1,2-Dibromoethane			5.0	0.73	ug/L	ND		77-120			
1,2-Dichlorobenzene		50.0	5.0	0.79	ug/L	51.5	103	77-120			
1,2-Dichloroethane		50.0	5.0	0.21	ug/L	48.6	97	75-127			
1,2-Dichloropropane			5.0	0.72	ug/L	ND		76-120			
1,3-Dichlorobenzene			5.0	0.78	ug/L	ND		77-120			
1,4-Dichlorobenzene			5.0	0.84	ug/L	ND		75-120			
2-Butanone			25	1.3	ug/L	ND		57-140			
2-Hexanone			25	1.2	ug/L	ND		65-127			
4-Methyl-2-pentanone			25	2.1	ug/L	ND		71-125			
Acetone			25	3.0	ug/L	ND		56-142			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 06/07/10 (Lab Number:10F0513-BLK1, Batch: 10F0513)											
Methyl Acetate			5.0	0.93	ug/kg wet	ND					
Methyl tert-Butyl Ether			5.0	0.49	ug/kg wet	ND					
Methylcyclohexane			5.0	0.76	ug/kg wet	ND					
Methylene Chloride			5.0	2.3	ug/kg wet	3.4					J
Styrene			5.0	0.25	ug/kg wet	ND					
Tetrachloroethene			5.0	0.67	ug/kg wet	2.2					J
Toluene			5.0	0.38	ug/kg wet	ND					
trans-1,2-Dichloroethene			5.0	0.52	ug/kg wet	ND					
trans-1,3-Dichloropropene			5.0	2.2	ug/kg wet	ND					
Trichloroethene			5.0	1.1	ug/kg wet	ND					
Trichlorofluoromethane			5.0	0.47	ug/kg wet	ND					
Vinyl chloride			5.0	0.61	ug/kg wet	ND					
Xylenes, total			10	0.84	ug/kg wet	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/kg wet*		*106*	*64-126*			
Surrogate: 4-Bromofluorobenzene					*ug/kg wet*		*102*	*72-126*			
Surrogate: Toluene-d8					*ug/kg wet*		*106*	*71-125*			
LCS Analyzed: 06/07/10 (Lab Number:10F0513-BS1, Batch: 10F0513)											
1,1,1-Trichloroethane			5.0	0.36	ug/kg wet	ND		77-121			
1,1,2,2-Tetrachloroethane			5.0	0.81	ug/kg wet	ND		80-120			
1,1,2-Trichloroethane			5.0	0.65	ug/kg wet	ND		78-122			
1,1,2-Trichlorotrifluoroethane			5.0	1.1	ug/kg wet	ND		60-140			
1,1-Dichloroethane		50.0	5.0	0.61	ug/kg wet	44.9	90	79-126			
1,1-Dichloroethene		50.0	5.0	0.61	ug/kg wet	45.5	91	65-153			
1,2,4-Trichlorobenzene			5.0	0.30	ug/kg wet	ND		64-120			
1,2-Dibromo-3-chloropropane			5.0	2.5	ug/kg wet	ND		63-124			
1,2-Dibromoethane (EDB)			5.0	0.64	ug/kg wet	ND		78-120			
1,2-Dichlorobenzene		50.0	5.0	0.39	ug/kg wet	49.2	98	75-120			
1,2-Dichloroethane		50.0	5.0	0.25	ug/kg wet	45.1	90	77-122			
1,2-Dichloropropane			5.0	2.5	ug/kg wet	ND		75-124			
1,3-Dichlorobenzene			5.0	0.26	ug/kg wet	ND		74-120			
1,4-Dichlorobenzene			5.0	0.70	ug/kg wet	ND		73-120			
2-Butanone (MEK)			25	1.8	ug/kg wet	ND		70-134			
2-Hexanone			25	2.5	ug/kg wet	ND		59-130			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 06/12/10 (Lab Number:10F1020-BLK1, Batch: 10F1020)											
Isopropylbenzene			97	15	ug/kg wet	ND					
Methyl Acetate			97	46	ug/kg wet	ND					
Methyl tert-Butyl Ether			97	37	ug/kg wet	ND					
Methylcyclohexane			97	46	ug/kg wet	ND					
Methylene Chloride			97	19	ug/kg wet	73					J
Styrene			97	23	ug/kg wet	ND					
Tetrachloroethene			97	13	ug/kg wet	ND					
Toluene			97	26	ug/kg wet	ND					
trans-1,2-Dichloroethene			97	23	ug/kg wet	ND					
trans-1,3-Dichloropropene			97	4.7	ug/kg wet	ND					
Trichloroethene			97	27	ug/kg wet	ND					
Trichlorofluoromethane			97	46	ug/kg wet	ND					
Vinyl chloride			97	33	ug/kg wet	ND					
Xylenes, total			190	16	ug/kg wet	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/kg wet*		*112*	*53-146*			
Surrogate: 4-Bromofluorobenzene					*ug/kg wet*		*100*	*49-148*			
Surrogate: Toluene-d8					*ug/kg wet*		*108*	*50-149*			
LCS Analyzed: 06/12/10 (Lab Number:10F1020-BS1, Batch: 10F1020)											
1,1-Dichloroethene		2470	99	34	ug/kg wet	2880	117	54-144			
1,2-Dichloroethene, Total			200	52	ug/kg wet	5530		75-120			
Benzene		2470	99	4.7	ug/kg wet	2750	111	75-131			
Chlorobenzene		2470	99	13	ug/kg wet	2820	114	80-127			
Toluene		2470	99	26	ug/kg wet	2760	112	76-133			
Trichloroethene		2470	99	27	ug/kg wet	2820	114	77-130			
Surrogate: 1,2-Dichloroethane-d4					*ug/kg wet*		*111*	*53-146*			
Surrogate: 4-Bromofluorobenzene					*ug/kg wet*		*105*	*49-148*			
Surrogate: Toluene-d8					*ug/kg wet*		*109*	*50-149*			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Blank Analyzed: 06/02/10 (Lab Number:10F0020-BLK1, Batch: 10F0020)											
Antimony			14.7	NR	mg/kg wet	ND					
Arsenic			2.0	NR	mg/kg wet	ND					B
Barium			0.490	NR	mg/kg wet	ND					B
Beryllium			0.196	NR	mg/kg wet	ND					B
Cadmium			0.196	NR	mg/kg wet	ND					
Calcium			49.0	NR	mg/kg wet	ND					
Chromium			0.490	NR	mg/kg wet	ND					
Cobalt			0.490	NR	mg/kg wet	ND					
Copper			1.0	NR	mg/kg wet	ND					
Lead			1.0	NR	mg/kg wet	ND					
Manganese			0.2	NR	mg/kg wet	ND					B
Nickel			4.90	NR	mg/kg wet	ND					
Potassium			29.4	NR	mg/kg wet	ND					B
Selenium			3.9	NR	mg/kg wet	ND					
Sodium			137	NR	mg/kg wet	ND					B
Vanadium			0.490	NR	mg/kg wet	ND					B
Zinc			2.0	NR	mg/kg wet	ND					B
Blank Analyzed: 06/03/10 (Lab Number:10F0020-BLK2, Batch: 10F0020)											
Aluminum			9.8	NR	mg/kg wet	ND					
Iron			9.8	NR	mg/kg wet	ND					
Magnesium			19.6	NR	mg/kg wet	ND					
Silver			0.490	NR	mg/kg wet	ND					
Thallium			5.9	NR	mg/kg wet	ND					
Matrix Spike Analyzed: 06/02/10 (Lab Number:10F0020-MS1, Batch: 10F0020)											
QC Source Sample: RTE1487-01											
Antimony	ND	59.1	22.2	NR	mg/kg dry	17.5	30	75-125			M1
Arsenic	6.54	59.1	3.0	NR	mg/kg dry	56.0	84	75-125			
Barium	48.7	59.1	0.738	NR	mg/kg dry	103	92	75-125			
Beryllium	0.601	59.1	0.295	NR	mg/kg dry	53.8	90	75-125			
Cadmium	0.260	59.1	0.295	NR	mg/kg dry	58.8	99	75-125			
Calcium	2670	2950	73.8	NR	mg/kg dry	5630	100	75-125			
Chromium	14.6	59.1	0.738	NR	mg/kg dry	69.5	93	75-125			
Cobalt	6.01	59.1	0.738	NR	mg/kg dry	61.0	93	75-125			
Copper	15.1	59.1	1.5	NR	mg/kg dry	68.5	90	75-125			
Lead	37.9	59.1	1.5	NR	mg/kg dry	91.9	91	75-125			
Manganese	152	59.1	0.3	NR	mg/kg dry	193	69	75-125			M1
Nickel	15.3	59.1	7.38	NR	mg/kg dry	72.0	96	75-125			

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTE1487

Project: Scott Aviation site
Project Number: AECOM-0003

Received: 05/28/10-06/04/10
Reported: 06/22/10 10:17

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Matrix Spike Analyzed: 06/02/10 (Lab Number:10F0020-MS1, Batch: 10F0020)											
QC Source Sample: RTE1487-01											
Potassium	827	2950	44.3	NR	mg/kg dry	3950	106	75-125			
Selenium	1.35	59.1	5.9	NR	mg/kg dry	55.9	92	75-125			
Sodium	57.7	2950	207	NR	mg/kg dry	2870	95	75-125			
Vanadium	21.7	59.1	0.738	NR	mg/kg dry	77.4	94	75-125			
Zinc	73.2	59.1	3.0	NR	mg/kg dry	122	83	75-125			
Matrix Spike Analyzed: 06/03/10 (Lab Number:10F0020-MS2, Batch: 10F0020)											
QC Source Sample: RTE1487-01											
Aluminum	12600	2950	14.8	NR	mg/kg dry	15300	92	75-125			
Iron	17100	2950	14.8	NR	mg/kg dry	19500	80	75-125			
Magnesium	2180	2950	29.5	NR	mg/kg dry	4990	95	75-125			
Silver	0.108	14.8	0.738	NR	mg/kg dry	13.3	89	75-125			
Thallium	2.61	59.1	8.9	NR	mg/kg dry	58.1	94	75-125			
Matrix Spike Dup Analyzed: 06/02/10 (Lab Number:10F0020-MSD1, Batch: 10F0020)											
QC Source Sample: RTE1487-01											
Antimony	ND	57.1	21.4	NR	mg/kg dry	15.5	27	75-125	12	20	M1
Arsenic	6.54	57.1	2.9	NR	mg/kg dry	55.4	86	75-125	1	20	
Barium	48.7	57.1	0.713	NR	mg/kg dry	103	96	75-125	0.4	20	
Beryllium	0.601	57.1	0.285	NR	mg/kg dry	53.0	92	75-125	2	20	
Cadmium	0.260	57.1	0.285	NR	mg/kg dry	57.1	100	75-125	3	20	
Calcium	2670	2850	71.3	NR	mg/kg dry	5530	100	75-125	2	20	
Chromium	14.6	57.1	0.713	NR	mg/kg dry	69.3	96	75-125	0.4	20	
Cobalt	6.01	57.1	0.713	NR	mg/kg dry	60.2	95	75-125	1	20	
Copper	15.1	57.1	1.4	NR	mg/kg dry	68.2	93	75-125	0.4	20	
Lead	37.9	57.1	1.4	NR	mg/kg dry	91.7	94	75-125	0.2	20	
Manganese	152	57.1	0.3	NR	mg/kg dry	196	76	75-125	1	20	
Nickel	15.3	57.1	7.13	NR	mg/kg dry	71.8	99	75-125	0.3	20	
Potassium	827	2850	42.8	NR	mg/kg dry	3630	98	75-125	8	20	
Selenium	1.35	57.1	5.7	NR	mg/kg dry	54.8	94	75-125	2	20	
Sodium	57.7	2850	200	NR	mg/kg dry	2800	96	75-125	3	20	
Vanadium	21.7	57.1	0.713	NR	mg/kg dry	77.1	97	75-125	0.4	20	
Zinc	73.2	57.1	2.9	NR	mg/kg dry	126	93	75-125	4	20	
Matrix Spike Dup Analyzed: 06/03/10 (Lab Number:10F0020-MSD2, Batch: 10F0020)											
QC Source Sample: RTE1487-01											
Aluminum	12600	2850	14.3	NR	mg/kg dry	15700	108	75-125	2	20	
Iron	17100	2850	14.3	NR	mg/kg dry	19200	73	75-125	1	20	MHA
Magnesium	2180	2850	28.5	NR	mg/kg dry	4910	96	75-125	2	20	

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: SS-MW-35S-0-0.2

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTE1487-01 Date(s) Analyzed: 06/03/2010 06/03/2010

Instrument ID (1): HP6890-25Column 1 Instrument ID (HP6890-25Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

RPD

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	17.81	17.85	17.95	2.1	
	2	20.26	20.32	20.42	1.4	47

40

$RPD = \frac{0.7}{1.75} \times 100 = 40\%$.

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: SS-MW-41B2-0-0.2

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTE1487-05 Date(s) Analyzed: 06/03/2010 06/03/2010

Instrument ID (1): HP6890-25Column 1 Instrument ID (HP6890-25Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin	1	17.02	17.08	17.18	9.2	
	2	19.47	19.46	19.56	17	85

$RPD = \frac{7.8}{13.1} \times 100 = 59.5$

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: SS-MW-40D-0-0.2

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTE1487-06 Date(s) Analyzed: 06/03/2010 06/03/2010

Instrument ID (1): HP6890-25Column 1 Instrument ID (HP6890-25Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDD	1	17.27	17.25	17.35	2.1	
	2	19.60	19.62	19.72	1.6	33
delta-BHC	1	12.44	12.46	12.56	2.4	
	2	14.81	14.88	14.98	1.8	31
Endosulfan I	1	15.97	16.03	16.13	2.3	
	2	18.10	18.15	18.25	0.61	269

RPDs

$\frac{0.5}{11.3} \times 100 = 4.4$ J ✓

$\frac{0.6}{2.1} \times 100 = 28.6$ ✓ J

$\frac{1.69}{1.455} \times 100 = 116$ U

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: SS-DPT8-2C-(0-0.2

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTF0541-01 Date(s) Analyzed: 06/10/2010 06/10/2010

Instrument ID (1): HP6890-25Column 1 Instrument ID (HP6890-25Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	17.81	17.85	17.95	13	
	2	20.26	20.32	20.42	9.0	43

RPD

$\frac{4}{11} \times 100 = 36$

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: SS-DPT8-1B-(2-4)

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTF0541-03 Date(s) Analyzed: 06/10/2010 06/10/2010

Instrument ID (1): HP6890-25Column 1 Instrument ID (HP6890-25Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	17.21	17.25	17.35	1.6	
	2	19.54	19.62	19.72	0.99	58

RPD

$\frac{0.61}{1.29} \times 100 = 47$

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: SS-DPT8-2A-(0-2)

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTF0541-04 Date(s) Analyzed: 06/10/2010 06/10/2010

Instrument ID (1): HP6890-25Column 1 Instrument ID (HP6890-25Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Dieldrin	1	16.55	16.57	16.67	8.7	
	2	18.67	18.77	18.87	6.0	45

RPD

$\frac{2.7}{7.35} \times 100 = 37$

Form 10C
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

SS-MW-40D-0-0.2

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTE1487-06 Date(s) Analyzed: 06/03/2010 06/03/2010

Instrument ID (1): HP6890-7 Instrument ID (HP6890-7

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor 1254	1	3.86	-0.05	0.05	23		
	2	3.93	-0.05	0.05	15		
COLUMN 1	3	4.13	-0.05	0.05	25		
	4	4.35	-0.05	0.05	21		
						21	
Aroclor 1254	1	3.57	-0.05	0.05	9.1		
	2	3.79	-0.05	0.05	29		
COLUMN 2	3	3.90	-0.05	0.05	50		
	4	4.09	-0.05	0.05	26		
						28	36
Aroclor 1260	1	4.48	4.48	4.58	8.7		
	2	5.04	4.99	5.09	54		
COLUMN 1	3	5.27	5.23	5.33	31		
	4	5.77	5.72	5.82	42		
						34	
Aroclor 1260	1	4.21	4.16	4.26	110		
	2	4.51	4.46	4.56	58		
COLUMN 2	3	4.65	4.60	4.70	37		
	4	4.97	4.92	5.02	70		
						69	102

RPDs

$\frac{7}{24.5} \times 100 = 28.5$

$\frac{35}{51.5} \times 100 = 67$

At least three peaks for each column are required for identification of multicomponent analytes.

Form 10C
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

SS-MW-38D-0-0.2

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTE1487-07 Date(s) Analyzed: 06/03/2010 06/03/2010

Instrument ID (1):HP6890-7 Instrument ID (HP6890-7

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor 1254	1	3.85	-0.05	0.05	34		
	2	3.93	-0.05	0.05	34		
COLUMN 1	3	4.13	-0.05	0.05	36		
	4	4.34	-0.05	0.05	32		
						34	
Aroclor 1254	1	3.57	-0.05	0.05	19		
	2	3.79	-0.05	0.05	33		
COLUMN 2	3	3.90	-0.05	0.05	55		
	4	4.09	-0.05	0.05	27		
						33	2

RPD = 3

At least three peaks for each column are required for identification of multicomponent analytes.

Form 10C
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

SS-DPT8-2C-(0-0.2)

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTF0541-01 Date(s) Analyzed: 06/08/2010 06/08/2010

Instrument ID (1): HP6890-7 Instrument ID (HP6890-7

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor 1260	1	4.49	4.49	4.59	9.7		
	2	5.07	5.00	5.10	91		
COLUMN 1	3	5.28	5.24	5.34	28		
	4	5.78	5.73	5.83	21		
						38	
Aroclor 1260	1	4.22	4.17	4.27	97		
	2	4.52	4.47	4.57	43		
COLUMN 2	3	4.67	4.61	4.71	27		
	4	4.99	4.94	5.04	46		
						53	41

RPD = $\frac{15}{45.5} \times 100 = 33$

At least three peaks for each column are required for identification of multicomponent analytes.

Form 10C
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

SS-DPT8-1A-(0-2)

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTF0541-02 Date(s) Analyzed: 06/08/2010 06/08/2010

Instrument ID (1): HP6890-7 Instrument ID (HP6890-7

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor 1260	1	4.54	4.49	4.59	570		
	2	5.05	5.00	5.10	200		
COLUMN 1	3	5.28	5.24	5.34	140		
	4	5.78	5.73	5.83	230		
						280	
Aroclor 1260	1	4.22	4.17	4.27	720		
	2	4.52	4.47	4.57	400		
COLUMN 2	3	4.66	4.61	4.71	230		
	4	4.99	4.94	5.04	350		
						420	49

RPD = $\frac{140}{350} \times 100 = 40$

No qualifier.

At least three peaks for each column are required for identification of multicomponent analytes.

Form 10C
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

SS-DPT8-2A-(0-2)

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTF0541-04 Date(s) Analyzed: 06/08/2010 06/08/2010

Instrument ID (1):HP6890-7 Instrument ID (HP6890-7

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor 1242	1	0.00	-0.05	0.05	0.0		
	2	0.00	-0.05	0.05	0.0		
COLUMN 1	3	0.00	-0.05	0.05	0.0		
	4	2.95	-0.05	0.05	4.2		
						4.2	
Aroclor 1242	1	0.00	-0.05	0.05	0.0		
	2	0.00	-0.05	0.05	0.0		
COLUMN 2	3	2.41	-0.05	0.05	5.9		
	4	2.46	-0.05	0.05	17		
						0.0	0
Aroclor 1248	1	3.15	-0.05	0.05	16		
	2	0.00	-0.05	0.05	0.0		
COLUMN 1	3	0.00	-0.05	0.05	0.0		
	4	0.00	-0.05	0.05	0.0		
						0.0	
Aroclor 1248	1	2.89	-0.05	0.05	5.7		
	2	0.00	-0.05	0.05	0.0		
COLUMN 2	3	3.12	-0.05	0.05	7.4		
	4	3.34	-0.05	0.05	13		
						14	0
Aroclor 1260	1	4.49	4.49	4.59	9.8		
	2	5.05	5.00	5.10	120		
COLUMN 1	3	5.29	5.24	5.34	87		
	4	5.78	5.73	5.83	180		
						99	
Aroclor 1260	1	4.22	4.17	4.27	230		
	2	4.52	4.47	4.57	190		
COLUMN 2	3	4.66	4.61	4.71	130		
	4	4.99	4.94	5.04	170		
						180	82

RPD = 81 / 139.5 × 100 = 58

= J

At least three peaks for each column are required for identification of multicomponent analytes.

Form 10C
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

SS-MW-41B2-0-0.2

Lab Name: TestAmerica Buffalo SDG No.: RTE1487

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTE1487-05 Date(s) Analyzed: 06/03/2010 06/03/2010

Instrument ID (1): HP6890-7 Instrument ID (HP6890-7

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor 1254	1	3.86	-0.05	0.05	58		
	2	3.93	-0.05	0.05	150		
COLUMN 1	3	4.12	-0.05	0.05	130		
	4	4.34	-0.05	0.05	92		
						110	
Aroclor 1254	1	3.57	-0.05	0.05	43		
	2	3.79	-0.05	0.05	160		
COLUMN 2	3	3.90	-0.05	0.05	250		
	4	4.09	-0.05	0.05	150		
						150	41
Aroclor 1260	1	4.48	4.48	4.58	45		
	2	5.04	4.99	5.09	170		
COLUMN 1	3	5.27	5.23	5.33	130		
	4	5.77	5.72	5.82	250		
						150	
Aroclor 1260	1	4.18	4.16	4.26	160		
	2	4.51	4.46	4.56	300		
COLUMN 2	3	4.65	4.60	4.70	220		
	4	4.97	4.92	5.02	260		
						230	59

RPDs = $\frac{40}{130} \times 100 = 31$ "J"

RPD = $\frac{80}{190} \times 100 = 42$ "J"

At least three peaks for each column are required for identification of multicomponent analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Client ID: GW-RINSE BLANK-1 (RTF1140-01 - Water) **Sampled: 06/17/10 12:00** **Recvd: 06/18/10 17:20**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.31	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,1-Dichloroethane	ND		5.0	0.38	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,1-Dichloroethene	ND		5.0	0.29	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,2,4-Trichlorobenzene	ND		5.0	0.41	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,2-Dibromo-3-chloropropane	ND		5.0	0.39	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,2-Dibromoethane	ND		5.0	0.73	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,2-Dichlorobenzene	ND		5.0	0.79	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,2-Dichloroethane	ND		5.0	0.21	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,2-Dichloropropane	ND		5.0	0.72	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,4-Dichlorobenzene	ND		5.0	0.84	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
2-Butanone	ND		25	1.3	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
2-Hexanone	ND		25	1.2	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
4-Methyl-2-pentanone	ND		25	2.1	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Acetone	ND		25	3.0	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Benzene	ND		5.0	0.41	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Bromodichloromethane	ND		5.0	0.39	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Bromoform	ND		5.0	0.26	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Bromomethane	ND		5.0	0.69	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Carbon disulfide	ND		5.0	0.19	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Carbon Tetrachloride	ND		5.0	0.27	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Chlorobenzene	ND		5.0	0.75	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Dibromochloromethane	ND		5.0	0.32	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Chloroethane	ND		5.0	0.32	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Chloroform	ND		5.0	0.34	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Chloromethane	ND		5.0	0.35	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Cyclohexane	ND		5.0	0.18	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Dichlorodifluoromethane	ND		5.0	0.68	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Ethylbenzene	ND		5.0	0.74	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Isopropylbenzene	ND		5.0	0.79	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Methyl Acetate	ND		5.0	0.50	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.16	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Methylcyclohexane	ND		5.0	0.16	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Methylene Chloride	ND		5.0	0.44	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Styrene	ND		5.0	0.73	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Tetrachloroethene	ND		5.0	0.36	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Toluene	ND		5.0	0.51	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Trichloroethene	ND		5.0	0.46	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Trichlorofluoromethane	ND		5.0	0.88	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
Vinyl chloride	ND		5.0	0.90	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-1 (RTF1140-01 - Water) - cont.						**Sampled: 06/17/10 12:00**		**Recvd: 06/18/10 17:20**		
Volatile Organic Compounds by EPA 8260B - cont.										
Xylenes, total	ND		15	0.66	ug/L	1.00	06/25/10 12:33	LH	10F2205	8260B
1,2-Dichloroethane-d4	*87 %*		*Surr Limits: (66-137%)*				*06/25/10 12:33*	*LH*	*10F2205*	*8260B*
4-Bromofluorobenzene	*85 %*		*Surr Limits: (73-120%)*				*06/25/10 12:33*	*LH*	*10F2205*	*8260B*
Toluene-d8	*87 %*		*Surr Limits: (71-126%)*				*06/25/10 12:33*	*LH*	*10F2205*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND		24	0.46	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2,4,6-Trichlorophenol	ND		9.5	0.58	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2,4-Dichlorophenol	ND		9.5	0.49	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2,4-Dimethylphenol	ND		9.5	0.48	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2,4-Dinitrophenol	ND		48	2.1	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2,4-Dinitrotoluene	ND		9.5	0.43	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2,6-Dinitrotoluene	ND		9.5	0.38	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2-Chloronaphthalene	ND		9.5	0.44	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2-Chlorophenol	ND		9.5	0.50	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2-Methylnaphthalene	ND		9.5	0.57	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2-Methylphenol	ND		9.5	0.38	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2-Nitroaniline	ND		48	0.40	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2-Nitrophenol	ND		9.5	0.46	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
3,3'-Dichlorobenzidine	ND		19	0.38	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
3-Nitroaniline	ND		48	0.46	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
4,6-Dinitro-2-methylphenol	ND		48	2.1	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
4-Bromophenyl phenyl ether	ND		9.5	0.43	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
4-Chloro-3-methylphenol	ND		9.5	0.43	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
4-Chloroaniline	ND		9.5	0.56	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
4-Chlorophenyl phenyl ether	ND		9.5	0.33	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
4-Methylphenol	ND		4.8	0.34	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
4-Nitroaniline	ND		48	0.24	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
4-Nitrophenol	ND		48	1.4	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Acenaphthene	ND		9.5	0.39	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Acenaphthylene	ND		9.5	0.36	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Acetophenone	ND		9.5	0.51	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Anthracene	ND		9.5	0.27	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Atrazine	ND		9.5	0.44	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Benzaldehyde	ND		48	0.25	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Benzo(a)anthracene	ND		9.5	0.34	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Benzo(a)pyrene	ND		9.5	0.45	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Benzo(b)fluoranthene	ND		9.5	0.32	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Benzo(ghi)perylene	ND		9.5	0.33	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Benzo(k)fluoranthene	ND		9.5	0.70	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Biphenyl	ND		9.5	0.62	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Bis(2-chloroethoxy)methane	ND		9.5	0.33	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Bis(2-chloroethyl)ether	ND		9.5	0.38	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2,2'-Oxybis(1-Chloropropane)	ND		9.5	0.50	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Bis(2-ethylhexyl) phthalate	ND		9.5	1.7	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C

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Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-1 (RTF1140-01 - Water) - cont.						**Sampled: 06/17/10 12:00**		**Recvd: 06/18/10 17:20**		
Semivolatile Organics by GC/MS - cont.										
Butyl benzyl phthalate	ND		9.5	0.40	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Caprolactam	ND		9.5	2.1	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Carbazole	ND		4.8	0.29	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Chrysene	ND		9.5	0.31	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Dibenzo(a,h)anthracene	ND		9.5	0.40	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Dibenzofuran	ND		9.5	0.49	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Diethyl phthalate	ND		9.5	0.21	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Dimethyl phthalate	ND		9.5	0.34	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Di-n-butyl phthalate	ND		9.5	0.30	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Di-n-octyl phthalate	ND		9.5	0.45	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Fluoranthene	ND		9.5	0.38	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Fluorene	ND		9.5	0.34	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Hexachlorobenzene	ND		9.5	0.49	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Hexachlorobutadiene	ND		9.5	0.65	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Hexachlorocyclopentadiene	ND		9.5	0.56	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Hexachloroethane	ND		9.5	0.56	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Indeno(1,2,3-cd)pyrene	ND	L4	9.5	0.45	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Isophorone	ND		9.5	0.41	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Naphthalene	ND		9.5	0.72	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Nitrobenzene	ND		9.5	0.28	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
N-Nitrosodi-n-propylamine	ND		9.5	0.51	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
N-Nitrosodiphenylamine	ND		9.5	0.49	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Pentachlorophenol	ND		48	2.1	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Phenanthrene	ND		9.5	0.42	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Phenol	ND		9.5	0.37	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
Pyrene	ND		9.5	0.32	ug/L	1.00	06/23/10 12:43	MKP	10F1892	8270C
2,4,6-Tribromophenol	*109 %*		*Surr Limits: (52-132%)*				*06/23/10 12:43*	*MKP*	*10F1892*	*8270C*
2-Fluorobiphenyl	*92 %*		*Surr Limits: (48-120%)*				*06/23/10 12:43*	*MKP*	*10F1892*	*8270C*
2-Fluorophenol	*44 %*		*Surr Limits: (20-120%)*				*06/23/10 12:43*	*MKP*	*10F1892*	*8270C*
Nitrobenzene-d5	*89 %*		*Surr Limits: (46-120%)*				*06/23/10 12:43*	*MKP*	*10F1892*	*8270C*
Phenol-d5	*33 %*		*Surr Limits: (16-120%)*				*06/23/10 12:43*	*MKP*	*10F1892*	*8270C*
p-Terphenyl-d14	*73 %*		*Surr Limits: (24-136%)*				*06/23/10 12:43*	*MKP*	*10F1892*	*8270C*
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDD [2C]	ND	QSU	0.048	0.0088	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
4,4'-DDE [2C]	ND	QSU	0.048	0.011	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
4,4'-DDT [2C]	ND	QSU	0.048	0.010	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Aldrin [2C]	ND	QSU	0.048	0.0063	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
alpha-BHC [2C]	ND	QSU	0.048	0.0063	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
alpha-Chlordane [2C]	ND	QSU	0.048	0.014	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
beta-BHC [2C]	ND	QSU	0.048	0.024	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Chlordane [2C]	ND	QSU	0.48	0.028	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
delta-BHC [2C]	ND	QSU	0.048	0.0096	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Dieldrin [2C]	ND	QSU	0.048	0.0093	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Endosulfan I [2C]	ND	QSU	0.048	0.010	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Endosulfan II [2C]	ND	QSU	0.048	0.011	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Endosulfan sulfate [2C]	ND	QSU	0.048	0.015	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Endrin [2C]	ND	QSU	0.048	0.013	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Endrin aldehyde [2C]	ND	QSU	0.048	0.016	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-1 (RTF1140-01 - Water) - cont.						**Sampled: 06/17/10 12:00**		**Recvd: 06/18/10 17:20**		
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endrin ketone [2C]	ND	QSU	0.048	0.011	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
gamma-BHC (Lindane) [2C]	ND	QSU	0.048	0.0057	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
gamma-Chlordane [2C]	ND	QSU	0.048	0.010	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Heptachlor [2C]	ND	QSU	0.048	0.0081	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Heptachlor epoxide [2C]	ND	QSU	0.048	0.0050	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Methoxychlor [2C]	ND	QSU	0.048	0.013	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Toxaphene [2C]	ND	QSU	0.48	0.11	ug/L	1.00	06/22/10 13:01	LMW	10F1724	8081A
Decachlorobiphenyl [2C]	*74 %*	*QSU*	*Surr Limits: (15-139%)*				*06/22/10 13:01*	*LMW*	*10F1724*	*8081A*
Tetrachloro-m-xylene [2C]	*77 %*	*QSU*	*Surr Limits: (30-139%)*				*06/22/10 13:01*	*LMW*	*10F1724*	*8081A*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	0.48	0.17	ug/L	1.00	06/22/10 07:09	JxM	10F1725	8082
Aroclor 1221	ND	QSU	0.48	0.17	ug/L	1.00	06/22/10 07:09	JxM	10F1725	8082
Aroclor 1232	ND	QSU	0.48	0.17	ug/L	1.00	06/22/10 07:09	JxM	10F1725	8082
Aroclor 1242	ND	QSU	0.48	0.17	ug/L	1.00	06/22/10 07:09	JxM	10F1725	8082
Aroclor 1248	ND	QSU	0.48	0.17	ug/L	1.00	06/22/10 07:09	JxM	10F1725	8082
Aroclor 1254	ND	QSU	0.48	0.24	ug/L	1.00	06/22/10 07:09	JxM	10F1725	8082
Aroclor 1260	ND	QSU	0.48	0.24	ug/L	1.00	06/22/10 07:09	JxM	10F1725	8082
Decachlorobiphenyl	*65 %*	*QSU*	*Surr Limits: (12-137%)*				*06/22/10 07:09*	*JxM*	*10F1725*	*8082*
Tetrachloro-m-xylene	*69 %*	*QSU*	*Surr Limits: (35-121%)*				*06/22/10 07:09*	*JxM*	*10F1725*	*8082*
Total Metals by SW 846 Series Methods										
Aluminum	ND		0.200	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Antimony	ND		0.0200	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Arsenic	ND		0.0100	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Barium	ND		0.0020	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Beryllium	ND		0.0020	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Cadmium	ND		0.0010	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Calcium	ND		0.5	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Chromium	ND		0.0040	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Cobalt	ND		0.0040	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Copper	ND		0.0100	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Iron	ND		0.050	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Lead	ND		0.0050	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Magnesium	ND		0.200	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Manganese	ND		0.0030	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Nickel	ND		0.0100	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Potassium	ND		0.500	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Selenium	ND		0.0150	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Silver	ND		0.0030	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Sodium	ND		1.0	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Thallium	ND		0.0200	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Vanadium	ND		0.0050	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Zinc	ND		0.0100	NR	mg/L	1.00	06/22/10 20:41	DAN	10F1806	6010B
Mercury	ND		0.0002	NR	mg/L	1.00	06/24/10 17:44	MXM	10F2097	7470A

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Client ID: GW-RINSE BLANK-1 (RTF1140-01RE1 - Water) **Sampled: 06/17/10 12:00** **Recvd: 06/18/10 17:20**

Semivolatile Organics by GC/MS

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
2,4,5-Trichlorophenol	ND	MNR1, H4	24	0.46	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2,4,6-Trichlorophenol	ND	MNR1, H4	9.5	0.58	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2,4-Dichlorophenol	ND	MNR1, H4	9.5	0.49	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2,4-Dimethylphenol	ND	MNR1, H4	9.5	0.48	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2,4-Dinitrophenol	ND	MNR1, H4	48	2.1	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2,4-Dinitrotoluene	ND	MNR1, H4	9.5	0.43	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2,6-Dinitrotoluene	ND	MNR1, H4	9.5	0.38	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2-Chloronaphthalene	ND	MNR1, H4	9.5	0.44	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2-Chlorophenol	ND	MNR1, H4	9.5	0.50	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2-Methylnaphthalene	ND	MNR1, H4	9.5	0.57	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2-Methylphenol	ND	MNR1, H4	9.5	0.38	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2-Nitroaniline	ND	MNR1, H4	48	0.40	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2-Nitrophenol	ND	MNR1, H4	9.5	0.46	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
3,3'-Dichlorobenzidine	ND	MNR1, H4	19	0.38	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
3-Nitroaniline	ND	MNR1, H4	48	0.46	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
4,6-Dinitro-2-methylphenol	ND	MNR1, H4	48	2.1	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
4-Bromophenyl phenyl ether	ND	MNR1, H4	9.5	0.43	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
4-Chloro-3-methylphenol	ND	MNR1, H4	9.5	0.43	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
4-Chloroaniline	ND	MNR1, H4	9.5	0.56	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
4-Chlorophenyl phenyl ether	ND	MNR1, H4	9.5	0.33	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
4-Methylphenol	ND	MNR1, H4	4.8	0.34	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
4-Nitroaniline	ND	MNR1, H4	48	0.24	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
4-Nitrophenol	ND	MNR1, H4	48	1.4	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Acenaphthene	ND	MNR1, H4	9.5	0.39	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Acenaphthylene	ND	MNR1, H4	9.5	0.36	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Acetophenone	ND	MNR1, H4	9.5	0.51	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Anthracene	ND	MNR1, H4	9.5	0.27	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Atrazine	ND	MNR1, H4	9.5	0.44	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Benzaldehyde	ND	MNR1, H4	48	0.25	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Benzo(a)anthracene	ND	MNR1, H4	9.5	0.34	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Benzo(a)pyrene	ND	MNR1, H4	9.5	0.45	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Benzo(b)fluoranthene	ND	MNR1, H4	9.5	0.32	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Benzo(ghi)perylene	ND	MNR1, H4	9.5	0.33	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Benzo(k)fluoranthene	ND	MNR1, H4	9.5	0.70	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Biphenyl	ND	MNR1, H4	9.5	0.62	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Bis(2-chloroethoxy)methane	ND	MNR1, H4	9.5	0.33	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Bis(2-chloroethyl)ether	ND	MNR1, H4	9.5	0.38	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2,2'-Oxybis(1-Chloropropane)	ND	MNR1, H4	9.5	0.50	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Bis(2-ethylhexyl) phthalate	ND	MNR1, H4	9.5	1.7	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Butyl benzyl phthalate	ND	MNR1, H4	9.5	0.40	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Caprolactam	ND	MNR1, H4	9.5	2.1	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Carbazole	ND	MNR1, H4	4.8	0.29	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Chrysene	ND	MNR1, H4	9.5	0.31	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Dibenzo(a,h)anthracene	ND	MNR1, H4	9.5	0.40	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Dibenzofuran	ND	MNR1, H4	9.5	0.49	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C

AECOM - Amherst, NY
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Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-1 (RTF1140-01RE1 - Water) - cont.						**Sampled: 06/17/10 12:00**		**Recvd: 06/18/10 17:20**		
Semivolatile Organics by GC/MS - cont.										
Diethyl phthalate	ND	MNR1, H4	9.5	0.21	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Dimethyl phthalate	ND	MNR1, H4	9.5	0.34	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Di-n-butyl phthalate	**0.47**	MNR1, H4,J, B	9.5	0.30	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Di-n-octyl phthalate	ND	MNR1, H4	9.5	0.45	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Fluoranthene	ND	MNR1, H4	9.5	0.38	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Fluorene	ND	MNR1, H4	9.5	0.34	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Hexachlorobenzene	ND	MNR1, H4	9.5	0.49	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Hexachlorobutadiene	ND	MNR1, H4	9.5	0.65	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Hexachlorocyclopentadiene	ND	MNR1, H4	9.5	0.56	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Hexachloroethane	ND	MNR1, H4	9.5	0.56	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Indeno(1,2,3-cd)pyrene	ND	MNR1, H4,L4	9.5	0.45	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Isophorone	ND	MNR1, H4	9.5	0.41	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Naphthalene	ND	MNR1, H4	9.5	0.72	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Nitrobenzene	ND	MNR1, H4	9.5	0.28	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
N-Nitrosodi-n-propylamine	ND	MNR1, H4	9.5	0.51	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
N-Nitrosodiphenylamine	ND	MNR1, H4	9.5	0.49	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Pentachlorophenol	ND	MNR1, H4	48	2.1	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Phenanthrene	ND	MNR1, H4	9.5	0.42	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Phenol	ND	MNR1, H4	9.5	0.37	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
Pyrene	ND	MNR1, H4	9.5	0.32	ug/L	1.00	06/28/10 15:26	MAF	10F2179	8270C
2,4,6-Tribromophenol	*54 %*	*MNR1, H4*	*Surr Limits: (52-132%)*				*06/28/10 15:26*	*MAF*	*10F2179*	*8270C*
2-Fluorobiphenyl	*59 %*	*MNR1, H4*	*Surr Limits: (48-120%)*				*06/28/10 15:26*	*MAF*	*10F2179*	*8270C*
2-Fluorophenol	*26 %*	*MNR1, H4*	*Surr Limits: (20-120%)*				*06/28/10 15:26*	*MAF*	*10F2179*	*8270C*
Nitrobenzene-d5	*58 %*	*MNR1, H4*	*Surr Limits: (46-120%)*				*06/28/10 15:26*	*MAF*	*10F2179*	*8270C*
Phenol-d5	*19 %*	*MNR1, H4*	*Surr Limits: (16-120%)*				*06/28/10 15:26*	*MAF*	*10F2179*	*8270C*
p-Terphenyl-d14	*58 %*	*MNR1, H4*	*Surr Limits: (24-136%)*				*06/28/10 15:26*	*MAF*	*10F2179*	*8270C*

AECOM - Amherst, NY
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Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Client ID: GW-RINSE BLANK-1 (RTF1140-01RE2 - Water) **Sampled: 06/17/10 12:00** **Recvd: 06/18/10 17:20**

Semivolatile Organics by GC/MS

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
2,4,5-Trichlorophenol	ND	H4	24	0.46	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2,4,6-Trichlorophenol	ND	H4	9.6	0.59	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2,4-Dichlorophenol	ND	H4	9.6	0.49	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2,4-Dimethylphenol	ND	H4	9.6	0.48	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2,4-Dinitrophenol	ND	H4	48	2.1	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2,4-Dinitrotoluene	ND	H4	9.6	0.43	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2,6-Dinitrotoluene	ND	H4	9.6	0.38	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2-Chloronaphthalene	ND	H4	9.6	0.44	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2-Chlorophenol	ND	H4	9.6	0.51	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2-Methylnaphthalene	ND	H4	9.6	0.58	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2-Methylphenol	ND	H4	9.6	0.38	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2-Nitroaniline	ND	H4	48	0.40	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2-Nitrophenol	ND	H4	9.6	0.46	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
3,3'-Dichlorobenzidine	ND	H4	19	0.38	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
3-Nitroaniline	ND	H4	48	0.46	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
4,6-Dinitro-2-methylphenol	ND	H4	48	2.1	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
4-Bromophenyl phenyl ether	ND	H4	9.6	0.43	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
4-Chloro-3-methylphenol	ND	H4	9.6	0.43	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
4-Chloroaniline	ND	H4	9.6	0.57	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
4-Chlorophenyl phenyl ether	ND	H4	9.6	0.34	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
4-Methylphenol	ND	H4	4.8	0.35	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
4-Nitroaniline	ND	H4	48	0.24	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
4-Nitrophenol	ND	H4	48	1.5	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Acenaphthene	ND	H4	9.6	0.39	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Acenaphthylene	ND	H4	9.6	0.37	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Acetophenone	ND	H4	9.6	0.52	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Anthracene	ND	H4	9.6	0.27	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Atrazine	ND	H4	9.6	0.44	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Benzaldehyde	ND	H4	48	0.26	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Benzo(a)anthracene	ND	H4	9.6	0.35	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Benzo(a)pyrene	ND	H4	9.6	0.45	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Benzo(b)fluoranthene	ND	H4	9.6	0.33	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Benzo(ghi)perylene	ND	H4	9.6	0.34	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Benzo(k)fluoranthene	ND	H4	9.6	0.70	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Biphenyl	ND	H4	9.6	0.63	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Bis(2-chloroethoxy)methane	ND	H4	9.6	0.34	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Bis(2-chloroethyl)ether	ND	H4	9.6	0.38	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2,2'-Oxybis(1-Chloropropane)	ND	H4	9.6	0.50	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Bis(2-ethylhexyl) phthalate	ND	H4	9.6	1.7	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Butyl benzyl phthalate	ND	H4	9.6	0.40	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Caprolactam	ND	H4	9.6	2.1	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Carbazole	ND	H4	4.8	0.29	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Chrysene	ND	H4	9.6	0.32	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Dibenzo(a,h)anthracene	ND	H4	9.6	0.40	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Dibenzofuran	ND	H4	9.6	0.49	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Client ID: GW-RINSE BLANK-1 (RTF1140-01RE2 - Water) - cont. **Sampled: 06/17/10 12:00** **Recvd: 06/18/10 17:20**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Diethyl phthalate	ND	H4	9.6	0.21	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Dimethyl phthalate	ND	H4	9.6	0.35	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Di-n-butyl phthalate	ND	H4	9.6	0.30	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Di-n-octyl phthalate	ND	H4	9.6	0.45	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Fluoranthene	ND	H4	9.6	0.38	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Fluorene	ND	H4	9.6	0.35	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Hexachlorobenzene	ND	H4	9.6	0.49	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Hexachlorobutadiene	ND	H4	9.6	0.65	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Hexachlorocyclopentadiene	ND	H4	9.6	0.57	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Hexachloroethane	ND	H4	9.6	0.57	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Indeno(1,2,3-cd)pyrene	ND	H4	9.6	0.45	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Isophorone	ND	H4	9.6	0.41	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Naphthalene	ND	H4	9.6	0.73	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Nitrobenzene	ND	H4	9.6	0.28	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
N-Nitrosodi-n-propylamine	ND	H4	9.6	0.52	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
N-Nitrosodiphenylamine	ND	H4	9.6	0.49	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Pentachlorophenol	ND	H4	48	2.1	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Phenanthrene	ND	H4	9.6	0.42	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Phenol	ND	H4	9.6	0.38	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
Pyrene	ND	H4	9.6	0.33	ug/L	1.00	06/30/10 13:08	MKP	10F2512	8270C
2,4,6-Tribromophenol	*104 %*	*H4*	*Surr Limits: (52-132%)*				*06/30/10 13:08*	*MKP*	*10F2512*	*8270C*
2-Fluorobiphenyl	*93 %*	*H4*	*Surr Limits: (48-120%)*				*06/30/10 13:08*	*MKP*	*10F2512*	*8270C*
2-Fluorophenol	*44 %*	*H4*	*Surr Limits: (20-120%)*				*06/30/10 13:08*	*MKP*	*10F2512*	*8270C*
Nitrobenzene-d5	*93 %*	*H4*	*Surr Limits: (46-120%)*				*06/30/10 13:08*	*MKP*	*10F2512*	*8270C*
Phenol-d5	*31 %*	*H4*	*Surr Limits: (16-120%)*				*06/30/10 13:08*	*MKP*	*10F2512*	*8270C*
p-Terphenyl-d14	*66 %*	*H4*	*Surr Limits: (24-136%)*				*06/30/10 13:08*	*MKP*	*10F2512*	*8270C*

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Client ID: GW-RINSE BLANK-2 (RTF1213-16 - Water) **Sampled: 06/21/10 12:00** **Recvd: 06/22/10 14:10**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.31	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,1-Dichloroethane	ND		5.0	0.38	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,1-Dichloroethene	ND		5.0	0.29	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,2,4-Trichlorobenzene	ND		5.0	0.41	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,2-Dibromo-3-chloropropane	ND		5.0	0.39	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,2-Dibromoethane	ND		5.0	0.73	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,2-Dichlorobenzene	ND		5.0	0.79	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,2-Dichloroethane	ND		5.0	0.21	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,2-Dichloropropane	ND		5.0	0.72	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,4-Dichlorobenzene	ND		5.0	0.84	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
2-Butanone	ND		25	1.3	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
2-Hexanone	ND		25	1.2	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
4-Methyl-2-pentanone	ND		25	2.1	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Acetone	ND		25	3.0	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Benzene	ND		5.0	0.41	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Bromodichloromethane	ND		5.0	0.39	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Bromoform	ND		5.0	0.26	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Bromomethane	ND		5.0	0.69	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Carbon disulfide	ND		5.0	0.19	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Carbon Tetrachloride	ND		5.0	0.27	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Chlorobenzene	ND		5.0	0.75	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Dibromochloromethane	ND		5.0	0.32	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Chloroethane	ND		5.0	0.32	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Chloroform	ND		5.0	0.34	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Chloromethane	ND		5.0	0.35	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Cyclohexane	ND		5.0	0.18	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Dichlorodifluoromethane	ND		5.0	0.68	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Ethylbenzene	ND		5.0	0.74	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Isopropylbenzene	ND		5.0	0.79	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Methyl Acetate	ND		5.0	0.50	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.16	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Methylcyclohexane	ND		5.0	0.16	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Methylene Chloride	ND		5.0	0.44	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Styrene	ND		5.0	0.73	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Tetrachloroethene	ND		5.0	0.36	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Toluene	ND		5.0	0.51	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Trichloroethene	ND		5.0	0.46	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Trichlorofluoromethane	ND		5.0	0.88	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
Vinyl chloride	ND		5.0	0.90	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-2 (RTF1213-16 - Water) - cont.						**Sampled: 06/21/10 12:00**		**Recvd: 06/22/10 14:10**		
Volatile Organic Compounds by EPA 8260B - cont.										
Xylenes, total	ND		15	0.66	ug/L	1.00	06/28/10 18:39	LH	10F2360	8260B
1,2-Dichloroethane-d4	*103 %*		*Surr Limits: (66-137%)*				*06/28/10 18:39*	*LH*	*10F2360*	*8260B*
4-Bromofluorobenzene	*93 %*		*Surr Limits: (73-120%)*				*06/28/10 18:39*	*LH*	*10F2360*	*8260B*
Toluene-d8	*116 %*		*Surr Limits: (71-126%)*				*06/28/10 18:39*	*LH*	*10F2360*	*8260B*

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100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Client ID: GW-TRIP BLANK-1 (RTF1140-02 - Water) **Sampled: 06/17/10 08:00** **Recvd: 06/18/10 17:20**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.31	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,1-Dichloroethane	ND		5.0	0.38	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,1-Dichloroethene	ND		5.0	0.29	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,2,4-Trichlorobenzene	ND		5.0	0.41	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,2-Dibromo-3-chloropropane	ND		5.0	0.39	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,2-Dibromoethane	ND		5.0	0.73	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,2-Dichlorobenzene	ND		5.0	0.79	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,2-Dichloroethane	ND		5.0	0.21	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,2-Dichloropropane	ND		5.0	0.72	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,4-Dichlorobenzene	ND		5.0	0.84	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
2-Butanone	ND		25	1.3	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
2-Hexanone	ND		25	1.2	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
4-Methyl-2-pentanone	ND		25	2.1	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Acetone	ND		25	3.0	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Benzene	ND		5.0	0.41	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Bromodichloromethane	ND		5.0	0.39	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Bromoform	ND		5.0	0.26	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Bromomethane	ND		5.0	0.69	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Carbon disulfide	ND		5.0	0.19	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Carbon Tetrachloride	ND		5.0	0.27	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Chlorobenzene	ND		5.0	0.75	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Dibromochloromethane	ND		5.0	0.32	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Chloroethane	ND		5.0	0.32	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Chloroform	ND		5.0	0.34	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Chloromethane	ND		5.0	0.35	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Cyclohexane	ND		5.0	0.18	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Dichlorodifluoromethane	ND		5.0	0.68	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Ethylbenzene	ND		5.0	0.74	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Isopropylbenzene	ND		5.0	0.79	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Methyl Acetate	ND		5.0	0.50	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.16	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Methylcyclohexane	ND		5.0	0.16	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Methylene Chloride	ND		5.0	0.44	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Styrene	ND		5.0	0.73	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Tetrachloroethene	ND		5.0	0.36	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Toluene	ND		5.0	0.51	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Trichloroethene	ND		5.0	0.46	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Trichlorofluoromethane	ND		5.0	0.88	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
Vinyl chloride	ND		5.0	0.90	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-TRIP BLANK-1 (RTF1140-02 - Water) - cont.						**Sampled: 06/17/10 08:00**		**Recvd: 06/18/10 17:20**		
Volatile Organic Compounds by EPA 8260B - cont.										
Xylenes, total	ND		15	0.66	ug/L	1.00	06/25/10 12:57	LH	10F2205	8260B
1,2-Dichloroethane-d4	*88 %*		*Surr Limits: (66-137%)*				*06/25/10 12:57*	*LH*	*10F2205*	*8260B*
4-Bromofluorobenzene	*85 %*		*Surr Limits: (73-120%)*				*06/25/10 12:57*	*LH*	*10F2205*	*8260B*
Toluene-d8	*88 %*		*Surr Limits: (71-126%)*				*06/25/10 12:57*	*LH*	*10F2205*	*8260B*

AECOM - Amherst, NY
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SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-TRIP BLANK-2 (RTF1213-19 - Water)						**Sampled: 06/21/10 07:00**		**Recvd: 06/22/10 14:10**		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.31	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,1-Dichloroethane	ND		5.0	0.38	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,1-Dichloroethene	ND		5.0	0.29	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,2,4-Trichlorobenzene	ND		5.0	0.41	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,2-Dibromo-3-chloropropane	ND		5.0	0.39	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,2-Dibromoethane	ND		5.0	0.73	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,2-Dichlorobenzene	ND		5.0	0.79	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,2-Dichloroethane	ND		5.0	0.21	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,2-Dichloropropane	ND		5.0	0.72	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
1,4-Dichlorobenzene	ND		5.0	0.84	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
2-Butanone	ND		25	1.3	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
2-Hexanone	ND		25	1.2	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
4-Methyl-2-pentanone	ND		25	2.1	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Acetone	ND		25	3.0	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Benzene	ND		5.0	0.41	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Bromodichloromethane	ND		5.0	0.39	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Bromoform	ND		5.0	0.26	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Bromomethane	ND		5.0	0.69	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Carbon disulfide	ND		5.0	0.19	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Carbon Tetrachloride	ND		5.0	0.27	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Chlorobenzene	ND		5.0	0.75	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Dibromochloromethane	ND		5.0	0.32	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Chloroethane	ND		5.0	0.32	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Chloroform	ND		5.0	0.34	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Chloromethane	ND		5.0	0.35	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Cyclohexane	ND		5.0	0.18	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Dichlorodifluoromethane	ND		5.0	0.68	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Ethylbenzene	ND		5.0	0.74	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Isopropylbenzene	ND		5.0	0.79	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Methyl Acetate	ND		5.0	0.50	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.16	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Methylcyclohexane	ND		5.0	0.16	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Methylene Chloride	ND		5.0	0.44	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Styrene	ND		5.0	0.73	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Tetrachloroethene	ND		5.0	0.36	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Toluene	ND		5.0	0.51	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Trichloroethene	ND		5.0	0.46	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Trichlorofluoromethane	ND		5.0	0.88	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B
Vinyl chloride	ND		5.0	0.90	ug/L	1.00	06/29/10 12:12	LH	10F2441	8260B

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Blank Analyzed: 06/23/10 (Lab Number:10F1892-BLK1, Batch: 10F1892)											
Bis(2-chloroethoxy)methane			10	0.35	ug/L	ND					
Bis(2-chloroethyl)ether			10	0.40	ug/L	ND					
2,2'-Oxybis(1-Chloropropane)			10	0.52	ug/L	ND					
Bis(2-ethylhexyl) phthalate			10	1.8	ug/L	3.3					J
Butyl benzyl phthalate			10	0.42	ug/L	ND					
Caprolactam			10	2.2	ug/L	ND					
Carbazole			5.0	0.30	ug/L	ND					
Chrysene			10	0.33	ug/L	ND					
Dibenzo(a,h)anthracene			10	0.42	ug/L	ND					
Dibenzofuran			10	0.51	ug/L	ND					
Diethyl phthalate			10	0.22	ug/L	ND					
Dimethyl phthalate			10	0.36	ug/L	ND					
Di-n-butyl phthalate			10	0.31	ug/L	ND					
Di-n-octyl phthalate			10	0.47	ug/L	ND					
Fluoranthene			10	0.40	ug/L	ND					
Fluorene			10	0.36	ug/L	ND					
Hexachlorobenzene			10	0.51	ug/L	ND					
Hexachlorobutadiene			10	0.68	ug/L	ND					
Hexachlorocyclopentadiene			10	0.59	ug/L	ND					
Hexachloroethane			10	0.59	ug/L	ND					
Indeno(1,2,3-cd)pyrene			10	0.47	ug/L	ND					
Isophorone			10	0.43	ug/L	ND					
Naphthalene			10	0.76	ug/L	ND					
Nitrobenzene			10	0.29	ug/L	ND					
N-Nitrosodi-n-propylamine			10	0.54	ug/L	ND					
N-Nitrosodiphenylamine			10	0.51	ug/L	ND					
Pentachlorophenol			50	2.2	ug/L	ND					
Phenanthrene			10	0.44	ug/L	ND					
Phenol			10	0.39	ug/L	ND					
Pyrene			10	0.34	ug/L	ND					
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*111*	*52-132*			
Surrogate: 2-Fluorobiphenyl					*ug/L*		*89*	*48-120*			
Surrogate: 2-Fluorophenol					*ug/L*		*48*	*20-120*			

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
LCS Analyzed: 06/23/10 (Lab Number:10F1892-BS1, Batch: 10F1892)											
Acenaphthene		100	10	0.41	ug/L	98.3	98	60-120			
Acenaphthylene			10	0.38	ug/L	ND		63-120			
Acetophenone			10	0.54	ug/L	ND		45-120			
Anthracene			10	0.28	ug/L	ND		69-131			
Atrazine			10	0.46	ug/L	ND		70-129			
Benzaldehyde			50	0.27	ug/L	ND		30-140			
Benzo(a)anthracene			10	0.36	ug/L	ND		73-138			
Benzo(a)pyrene			10	0.47	ug/L	ND		74-126			
Benzo(b)fluoranthene			10	0.34	ug/L	ND		75-133			
Benzo(ghi)perylene			10	0.35	ug/L	ND		66-152			
Benzo(k)fluoranthene			10	0.73	ug/L	ND		75-133			
Biphenyl			10	0.65	ug/L	ND		30-140			
Bis(2-chloroethoxy)methane			10	0.35	ug/L	ND		62-120			
Bis(2-chloroethyl)ether			10	0.40	ug/L	ND		51-120			
2,2'-Oxybis(1-Chloropropane)			10	0.52	ug/L	ND		47-120			
Bis(2-ethylhexyl) phthalate		100	10	1.8	ug/L	89.2	89	69-136			B
Butyl benzyl phthalate			10	0.42	ug/L	ND		62-149			
Caprolactam			10	2.2	ug/L	ND		30-140			
Carbazole			5.0	0.30	ug/L	ND		68-133			
Chrysene			10	0.33	ug/L	ND		69-140			
Dibenzo(a,h)anthracene			10	0.42	ug/L	ND		67-144			
Dibenzofuran			10	0.51	ug/L	ND		66-120			
Diethyl phthalate			10	0.22	ug/L	ND		78-128			
Dimethyl phthalate			10	0.36	ug/L	ND		73-127			
Di-n-butyl phthalate			10	0.31	ug/L	ND		67-132			
Di-n-octyl phthalate			10	0.47	ug/L	ND		72-145			
Fluoranthene			10	0.40	ug/L	ND		67-133			
Fluorene			10	0.36	ug/L	ND		66-129			
Hexachlorobenzene			10	0.51	ug/L	ND		38-131			
Hexachlorobutadiene			10	0.68	ug/L	ND		30-120			
Hexachlorocyclopentadiene			10	0.59	ug/L	ND		23-120			
Hexachloroethane		100	10	0.59	ug/L	71.0	71	25-120			
Indeno(1,2,3-cd)pyrene		100	10	0.47	ug/L	55.8	56	69-146			L2
Isophorone			10	0.43	ug/L	ND		64-120			
Naphthalene			10	0.76	ug/L	ND		48-120			

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
Blank Analyzed: 06/28/10 (Lab Number:10F2179-BLK1, Batch: 10F2179)											
Diethyl phthalate			10	0.22	ug/L	ND					
Dimethyl phthalate			10	0.36	ug/L	ND					
Di-n-butyl phthalate			10	0.31	ug/L	0.44					J
Di-n-octyl phthalate			10	0.47	ug/L	ND					
Fluoranthene			10	0.40	ug/L	ND					
Fluorene			10	0.36	ug/L	ND					
Hexachlorobenzene			10	0.51	ug/L	ND					
Hexachlorobutadiene			10	0.68	ug/L	ND					
Hexachlorocyclopentadiene			10	0.59	ug/L	ND					
Hexachloroethane			10	0.59	ug/L	ND					
Indeno(1,2,3-cd)pyrene			10	0.47	ug/L	ND					
Isophorone			10	0.43	ug/L	ND					
Naphthalene			10	0.76	ug/L	ND					
Nitrobenzene			10	0.29	ug/L	ND					
N-Nitrosodi-n-propylamine			10	0.54	ug/L	ND					
N-Nitrosodiphenylamine			10	0.51	ug/L	ND					
Pentachlorophenol			50	2.2	ug/L	ND					
Phenanthrene			10	0.44	ug/L	ND					
Phenol			10	0.39	ug/L	ND					
Pyrene			10	0.34	ug/L	ND					
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*36*	*52-132*			*Z6*
Surrogate: 2-Fluorobiphenyl					*ug/L*		*60*	*48-120*			
Surrogate: 2-Fluorophenol					*ug/L*		*36*	*20-120*			
Surrogate: Nitrobenzene-d5					*ug/L*		*62*	*46-120*			
Surrogate: Phenol-d5					*ug/L*		*27*	*16-120*			
Surrogate: p-Terphenyl-d14					*ug/L*		*67*	*24-136*			
LCS Analyzed: 06/28/10 (Lab Number:10F2179-BS1, Batch: 10F2179)											
1,2,4-Trichlorobenzene		100	10	0.44	ug/L	55.4	55	40-120			
1,2-Dichlorobenzene			10	0.40	ug/L	ND		33-120			
1,3-Dichlorobenzene			10	0.48	ug/L	ND		28-120			
2,4,5-Trichlorophenol			25	0.48	ug/L	ND		65-126			
2,4,6-Trichlorophenol			10	0.61	ug/L	ND		64-120			
2,4-Dichlorophenol			10	0.51	ug/L	ND		64-120			
2,4-Dimethylphenol			10	0.50	ug/L	ND		57-120			

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
LCS Analyzed: 06/28/10 (Lab Number:10F2179-BS1, Batch: 10F2179)											
Bis(2-ethylhexyl) phthalate		100	10	1.8	ug/L	103	103	69-136			
Butyl benzyl phthalate			10	0.42	ug/L	0.540		62-149			J
Caprolactam			10	2.2	ug/L	ND		30-140			
Carbazole			5.0	0.30	ug/L	ND		68-133			
Chrysene			10	0.33	ug/L	ND		69-140			
Dibenzo(a,h)anthracene			10	0.42	ug/L	ND		67-144			
Dibenzofuran			10	0.51	ug/L	ND		66-120			
Diethyl phthalate			10	0.22	ug/L	ND		78-128			
Dimethyl phthalate			10	0.36	ug/L	ND		73-127			
Di-n-butyl phthalate			10	0.31	ug/L	0.560		67-132			J,B
Di-n-octyl phthalate			10	0.47	ug/L	ND		72-145			
Fluoranthene			10	0.40	ug/L	ND		67-133			
Fluorene			10	0.36	ug/L	ND		66-129			
Hexachlorobenzene			10	0.51	ug/L	ND		38-131			
Hexachlorobutadiene			10	0.68	ug/L	ND		30-120			
Hexachlorocyclopentadiene			10	0.59	ug/L	ND		23-120			
Hexachloroethane		100	10	0.59	ug/L	48.4	48	25-120			
Indeno(1,2,3-cd)pyrene		100	10	0.47	ug/L	60.3	60	69-146			L2
Isophorone			10	0.43	ug/L	ND		64-120			
Naphthalene			10	0.76	ug/L	ND		48-120			
Nitrobenzene			10	0.29	ug/L	ND		52-120			
N-Nitrosodi-n-propylamine		100	10	0.54	ug/L	66.8	67	56-120			
N-Nitrosodiphenylamine			10	0.51	ug/L	ND		25-125			
Pentachlorophenol		100	50	2.2	ug/L	55.2	55	39-136			
Phenanthrene			10	0.44	ug/L	ND		67-130			
Phenol		100	10	0.39	ug/L	25.9	26	17-120			
Pyrene		100	10	0.34	ug/L	88.2	88	58-136			
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*60*	*52-132*			
Surrogate: 2-Fluorobiphenyl					*ug/L*		*67*	*48-120*			
Surrogate: 2-Fluorophenol					*ug/L*		*33*	*20-120*			
Surrogate: Nitrobenzene-d5					*ug/L*		*66*	*46-120*			
Surrogate: Phenol-d5					*ug/L*		*25*	*16-120*			
Surrogate: p-Terphenyl-d14					*ug/L*		*80*	*24-136*			

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTF1140

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 06/18/10-06/22/10
Reported: 07/07/10 17:07

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Semivolatile Organics by GC/MS											
LCS Dup Analyzed: 06/28/10 (Lab Number:10F2179-BSD1, Batch: 10F2179)											
Benzo(k)fluoranthene			10	0.73	ug/L	ND		75-133		22	
Biphenyl			10	0.65	ug/L	ND		30-140		20	
Bis(2-chloroethoxy)methane			10	0.35	ug/L	ND		62-120		17	
Bis(2-chloroethyl)ether			10	0.40	ug/L	ND		51-120		21	
2,2'-Oxybis(1-Chloropropane)			10	0.52	ug/L	ND		47-120		24	
Bis(2-ethylhexyl) phthalate		100	10	1.8	ug/L	96.4	96	69-136	7	15	
Butyl benzyl phthalate			10	0.42	ug/L	ND		62-149		16	
Caprolactam			10	2.2	ug/L	ND		30-140		20	
Carbazole			5.0	0.30	ug/L	ND		68-133		20	
Chrysene			10	0.33	ug/L	ND		69-140		15	
Dibenzo(a,h)anthracene			10	0.42	ug/L	ND		67-144		15	
Dibenzofuran			10	0.51	ug/L	ND		66-120		15	
Diethyl phthalate			10	0.22	ug/L	ND		78-128		15	
Dimethyl phthalate			10	0.36	ug/L	ND		73-127		15	
Di-n-butyl phthalate			10	0.31	ug/L	0.520		67-132	7	15	J,B
Di-n-octyl phthalate			10	0.47	ug/L	ND		72-145		16	
Fluoranthene			10	0.40	ug/L	ND		67-133		15	
Fluorene			10	0.36	ug/L	ND		66-129		15	
Hexachlorobenzene			10	0.51	ug/L	ND		38-131		15	
Hexachlorobutadiene			10	0.68	ug/L	ND		30-120		44	
Hexachlorocyclopentadiene			10	0.59	ug/L	ND		23-120		49	
Hexachloroethane		100	10	0.59	ug/L	58.1	58	25-120	18	46	
Indeno(1,2,3-cd)pyrene		100	10	0.47	ug/L	57.5	58	69-146	5	15	L2
Isophorone			10	0.43	ug/L	ND		64-120		17	
Naphthalene			10	0.76	ug/L	ND		48-120		29	
Nitrobenzene			10	0.29	ug/L	ND		52-120		24	
N-Nitrosodi-n-propylamine		100	10	0.54	ug/L	75.2	75	56-120	12	31	
N-Nitrosodiphenylamine			10	0.51	ug/L	ND		25-125		15	
Pentachlorophenol		100	50	2.2	ug/L	69.2	69	39-136	22	37	
Phenanthrene			10	0.44	ug/L	ND		67-130		15	
Phenol		100	10	0.39	ug/L	30.4	30	17-120	16	34	
Pyrene		100	10	0.34	ug/L	99.7	100	58-136	12	19	
Surrogate: 2,4,6-Tribromophenol					*ug/L*		*72*	*52-132*			

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: MW-36S

Lab Name: TestAmerica Buffalo SDG No.: RTF1140

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTF1140-05 Date(s) Analyzed: 06/22/2010 06/22/2010

Instrument ID (1): HP6890-25Column 1 Instrument ID (HP6890-25Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-Chlordane	1	15.98	15.73	15.83	0.038	
	2	18.26	18.00	18.10	0.023	65

49 J r

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

AFT: GW-DUPLICATI

Lab Name: TestAmerica Buffalo SDG No.: RTF1140

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTF1140-03 Date(s) Analyzed: 06/22/2010 06/22/2010

Instrument ID (1): HP6890-25Column 1 Instrument ID (HP6890-25Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-Chlordane	1	15.98	15.73	15.83	0.030	
	2	18.26	18.00	18.10	0.019	60
Dieldrin	1	16.86	16.57	16.67	0.049	
	2	18.95	18.77	18.87	0.022	121

RPDs

44.9 J

76 U r

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-1 (RTH0401-05 - Water)						**Sampled: 08/02/10 19:30**		**Recvd: 08/04/10 15:50**		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.31	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,1-Dichloroethane	ND		5.0	0.38	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,1-Dichloroethene	ND		5.0	0.29	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,2,4-Trichlorobenzene	ND		5.0	0.41	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,2-Dibromo-3-chloropropane	ND		5.0	0.39	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,2-Dibromoethane	ND		5.0	0.73	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,2-Dichlorobenzene	ND		5.0	0.79	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,2-Dichloroethane	ND		5.0	0.21	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,2-Dichloropropane	ND		5.0	0.72	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,4-Dichlorobenzene	ND		5.0	0.84	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
2-Butanone	ND		25	1.3	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
2-Hexanone	ND		25	1.2	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
4-Methyl-2-pentanone	ND		25	2.1	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Acetone	ND		25	3.0	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Benzene	ND		5.0	0.41	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Bromodichloromethane	ND		5.0	0.39	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Bromoform	ND		5.0	0.26	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Bromomethane	ND		5.0	0.69	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Carbon disulfide	ND		5.0	0.19	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Carbon Tetrachloride	ND		5.0	0.27	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Chlorobenzene	ND		5.0	0.75	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Dibromochloromethane	ND		5.0	0.32	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Chloroethane	ND		5.0	0.32	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Chloroform	ND		5.0	0.34	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Chloromethane	ND		5.0	0.35	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Cyclohexane	ND		5.0	0.18	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Dichlorodifluoromethane	ND		5.0	0.68	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Ethylbenzene	ND		5.0	0.74	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Isopropylbenzene	ND		5.0	0.79	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Methyl Acetate	ND		5.0	0.50	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.16	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Methylcyclohexane	ND		5.0	0.16	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Methylene Chloride	**1.8**	J	5.0	0.44	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Styrene	ND		5.0	0.73	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Tetrachloroethene	ND		5.0	0.36	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Toluene	ND		5.0	0.51	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Trichloroethene	ND		5.0	0.46	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Trichlorofluoromethane	ND		5.0	0.88	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
Vinyl chloride	ND		5.0	0.90	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-1 (RTH0401-05 - Water) - cont.						**Sampled: 08/02/10 19:30**		**Recvd: 08/04/10 15:50**		
Volatile Organic Compounds by EPA 8260B - cont.										
Xylenes, total	ND		15	0.66	ug/L	1.00	08/07/10 15:26	NMD	10H0516	8260B
1,2-Dichloroethane-d4	*87 %*		*Surr Limits: (66-137%)*				*08/07/10 15:26*	*NMD*	*10H0516*	*8260B*
4-Bromofluorobenzene	*84 %*		*Surr Limits: (73-120%)*				*08/07/10 15:26*	*NMD*	*10H0516*	*8260B*
Toluene-d8	*84 %*		*Surr Limits: (71-126%)*				*08/07/10 15:26*	*NMD*	*10H0516*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND		24	0.46	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2,4,6-Trichlorophenol	ND		9.6	0.59	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2,4-Dichlorophenol	ND		9.6	0.49	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2,4-Dimethylphenol	ND		9.6	0.48	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2,4-Dinitrophenol	ND		48	2.1	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2,4-Dinitrotoluene	ND		9.6	0.43	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2,6-Dinitrotoluene	ND		9.6	0.38	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2-Chloronaphthalene	ND		9.6	0.44	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2-Chlorophenol	ND		9.6	0.51	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2-Methylnaphthalene	ND		9.6	0.58	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2-Methylphenol	ND		9.6	0.38	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2-Nitroaniline	ND		48	0.40	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2-Nitrophenol	ND		9.6	0.46	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
3,3'-Dichlorobenzidine	ND		19	0.38	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
3-Nitroaniline	ND		48	0.46	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
4,6-Dinitro-2-methylphenol	ND		48	2.1	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
4-Bromophenyl phenyl ether	ND		9.6	0.43	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
4-Chloro-3-methylphenol	ND		9.6	0.43	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
4-Chloroaniline	ND		9.6	0.57	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
4-Chlorophenyl phenyl ether	ND		9.6	0.34	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
4-Methylphenol	ND		4.8	0.35	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
4-Nitroaniline	ND		48	0.24	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
4-Nitrophenol	ND		48	1.5	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Acenaphthene	ND		9.6	0.39	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Acenaphthylene	ND		9.6	0.37	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Acetophenone	ND		9.6	0.52	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Anthracene	ND		9.6	0.27	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Atrazine	ND		9.6	0.44	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Benzaldehyde	ND		48	0.26	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Benzo(a)anthracene	ND		9.6	0.35	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Benzo(a)pyrene	ND		9.6	0.45	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Benzo(b)fluoranthene	ND		9.6	0.33	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Benzo(ghi)perylene	ND		9.6	0.34	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Benzo(k)fluoranthene	ND		9.6	0.70	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Biphenyl	ND		9.6	0.63	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Bis(2-chloroethoxy)methane	ND		9.6	0.34	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Bis(2-chloroethyl)ether	ND		9.6	0.38	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2,2'-Oxybis(1-Chloropropane)	ND		9.6	0.50	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Bis(2-ethylhexyl) phthalate	ND		9.6	1.7	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-1 (RTH0401-05 - Water) - cont.						**Sampled: 08/02/10 19:30**		**Recvd: 08/04/10 15:50**		
Semivolatile Organics by GC/MS - cont.										
Butyl benzyl phthalate	ND		9.6	0.40	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Caprolactam	ND		9.6	2.1	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Carbazole	ND		4.8	0.29	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Chrysene	ND		9.6	0.32	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Dibenzo(a,h)anthracene	ND		9.6	0.40	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Dibenzofuran	ND		9.6	0.49	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Diethyl phthalate	ND		9.6	0.21	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Dimethyl phthalate	ND		9.6	0.35	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Di-n-butyl phthalate	**0.34**	J	9.6	0.30	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Di-n-octyl phthalate	ND		9.6	0.45	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Fluoranthene	ND		9.6	0.38	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Fluorene	ND		9.6	0.35	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Hexachlorobenzene	ND		9.6	0.49	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Hexachlorobutadiene	ND		9.6	0.65	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Hexachlorocyclopentadiene	ND		9.6	0.57	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Hexachloroethane	ND		9.6	0.57	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Indeno(1,2,3-cd)pyrene	ND		9.6	0.45	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Isophorone	ND		9.6	0.41	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Naphthalene	ND		9.6	0.73	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Nitrobenzene	ND		9.6	0.28	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
N-Nitrosodi-n-propylamine	ND		9.6	0.52	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
N-Nitrosodiphenylamine	ND		9.6	0.49	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Pentachlorophenol	ND		48	2.1	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Phenanthrene	ND		9.6	0.42	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Phenol	ND		9.6	0.38	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
Pyrene	ND		9.6	0.33	ug/L	1.00	08/09/10 21:42	JLG	10H0411	8270C
2,4,6-Tribromophenol	*99 %*		*Surr Limits: (52-132%)*				*08/09/10 21:42*	*JLG*	*10H0411*	*8270C*
2-Fluorobiphenyl	*80 %*		*Surr Limits: (48-120%)*				*08/09/10 21:42*	*JLG*	*10H0411*	*8270C*
2-Fluorophenol	*42 %*		*Surr Limits: (20-120%)*				*08/09/10 21:42*	*JLG*	*10H0411*	*8270C*
Nitrobenzene-d5	*78 %*		*Surr Limits: (46-120%)*				*08/09/10 21:42*	*JLG*	*10H0411*	*8270C*
Phenol-d5	*31 %*		*Surr Limits: (16-120%)*				*08/09/10 21:42*	*JLG*	*10H0411*	*8270C*
p-Terphenyl-d14	*66 %*		*Surr Limits: (24-136%)*				*08/09/10 21:42*	*JLG*	*10H0411*	*8270C*
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDD	ND		0.048	0.0088	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
4,4'-DDE	ND		0.048	0.011	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
4,4'-DDT [2C]	ND		0.048	0.011	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Aldrin	ND		0.048	0.0063	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
alpha-BHC	**0.014**	J	0.048	0.0063	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
alpha-Chlordane	ND		0.048	0.014	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
beta-BHC	ND		0.048	0.024	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Chlordane	ND		0.48	0.028	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
delta-BHC	ND		0.048	0.0097	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Dieldrin	ND		0.048	0.0094	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Endosulfan I	ND		0.048	0.011	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Endosulfan II	ND		0.048	0.012	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Endosulfan sulfate	ND		0.048	0.015	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Endrin	ND		0.048	0.013	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Endrin aldehyde	ND		0.048	0.016	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-1 (RTH0401-05 - Water) - cont.						**Sampled: 08/02/10 19:30**		**Recvd: 08/04/10 15:50**		
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endrin ketone	ND		0.048	0.012	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
gamma-BHC (Lindane)	ND		0.048	0.0058	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
gamma-Chlordane	ND		0.048	0.011	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Heptachlor	ND		0.048	0.0082	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Heptachlor epoxide	ND		0.048	0.0051	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Methoxychlor	ND		0.048	0.014	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Toxaphene	ND		0.48	0.12	ug/L	1.00	08/06/10 17:11	MAN	10H0368	8081A
Decachlorobiphenyl	*58 %*		*Surr Limits: (15-139%)*				*08/06/10 17:11*	*MAN*	*10H0368*	*8081A*
Tetrachloro-m-xylene	*72 %*		*Surr Limits: (30-139%)*				*08/06/10 17:11*	*MAN*	*10H0368*	*8081A*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	0.48	0.17	ug/L	1.00	08/06/10 16:22	JxM	10H0369	8082
Aroclor 1221	ND	QSU	0.48	0.17	ug/L	1.00	08/06/10 16:22	JxM	10H0369	8082
Aroclor 1232	ND	QSU	0.48	0.17	ug/L	1.00	08/06/10 16:22	JxM	10H0369	8082
Aroclor 1242	ND	QSU	0.48	0.17	ug/L	1.00	08/06/10 16:22	JxM	10H0369	8082
Aroclor 1248	ND	QSU	0.48	0.17	ug/L	1.00	08/06/10 16:22	JxM	10H0369	8082
Aroclor 1254	ND	QSU	0.48	0.24	ug/L	1.00	08/06/10 16:22	JxM	10H0369	8082
Aroclor 1260	ND	QSU	0.48	0.24	ug/L	1.00	08/06/10 16:22	JxM	10H0369	8082
Decachlorobiphenyl	*60 %*	*QSU*	*Surr Limits: (12-137%)*				*08/06/10 16:22*	*JxM*	*10H0369*	*8082*
Tetrachloro-m-xylene	*71 %*	*QSU*	*Surr Limits: (35-121%)*				*08/06/10 16:22*	*JxM*	*10H0369*	*8082*
Total Metals by SW 846 Series Methods										
Aluminum	ND		0.200	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Antimony	ND		0.0200	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Arsenic	ND		0.0100	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Barium	ND		0.0020	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Beryllium	ND		0.0020	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Cadmium	ND		0.0010	NR	mg/L	1.00	08/14/10 14:56	DAN	10H0392	6010B
Calcium	ND		0.5	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Chromium	ND		0.0040	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Cobalt	ND		0.0040	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Copper	ND		0.0100	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Iron	ND		0.050	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Lead	ND		0.0050	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Magnesium	ND		0.200	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Manganese	ND		0.0030	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Nickel	ND		0.0100	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Potassium	ND		0.500	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Selenium	ND		0.0150	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Silver	ND		0.0030	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Sodium	ND		1.0	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Thallium	ND		0.0200	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Vanadium	ND		0.0050	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Zinc	ND		0.0100	NR	mg/L	1.00	08/11/10 21:07	LMH	10H0392	6010B
Mercury	ND		0.0002	NR	mg/L	1.00	08/09/10 19:24	MXM	10H0504	7470A

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

Analytical Report

Client ID: GW-RINSE BLANK-2 (RTH0402-15 - Water) **Sampled: 08/03/10 18:00** **Recvd: 08/04/10 15:50**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.31	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,1-Dichloroethane	ND		5.0	0.38	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,1-Dichloroethene	ND		5.0	0.29	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,2,4-Trichlorobenzene	ND		5.0	0.41	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,2-Dibromo-3-chloropropane	ND		5.0	0.39	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,2-Dibromoethane	ND		5.0	0.73	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,2-Dichlorobenzene	ND		5.0	0.79	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,2-Dichloroethane	ND		5.0	0.21	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,2-Dichloropropane	ND		5.0	0.72	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,4-Dichlorobenzene	ND		5.0	0.84	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
2-Butanone	ND		25	1.3	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
2-Hexanone	ND		25	1.2	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
4-Methyl-2-pentanone	ND		25	2.1	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Acetone	ND		25	3.0	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Benzene	ND		5.0	0.41	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Bromodichloromethane	ND		5.0	0.39	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Bromoform	ND		5.0	0.26	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Bromomethane	ND		5.0	0.69	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Carbon disulfide	ND		5.0	0.19	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Carbon Tetrachloride	ND		5.0	0.27	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Chlorobenzene	ND		5.0	0.75	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Dibromochloromethane	ND		5.0	0.32	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Chloroethane	ND		5.0	0.32	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Chloroform	ND		5.0	0.34	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Chloromethane	ND		5.0	0.35	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Cyclohexane	ND		5.0	0.18	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Dichlorodifluoromethane	ND		5.0	0.68	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Ethylbenzene	ND		5.0	0.74	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Isopropylbenzene	ND		5.0	0.79	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Methyl Acetate	ND		5.0	0.50	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.16	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Methylcyclohexane	ND		5.0	0.16	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Methylene Chloride	**1.7**	J	5.0	0.44	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Styrene	ND		5.0	0.73	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Tetrachloroethene	ND		5.0	0.36	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Toluene	ND		5.0	0.51	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Trichloroethene	ND		5.0	0.46	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Trichlorofluoromethane	ND		5.0	0.88	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
Vinyl chloride	ND		5.0	0.90	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-RINSE BLANK-2 (RTH0402-15 - Water) - cont.						**Sampled: 08/03/10 18:00**		**Recvd: 08/04/10 15:50**		
Volatile Organic Compounds by EPA 8260B - cont.										
Xylenes, total	ND		15	0.66	ug/L	1.00	08/06/10 19:19	TRB	10H0440	8260B
1,2-Dichloroethane-d4	*122 %*		*Surr Limits: (66-137%)*				*08/06/10 19:19*	*TRB*	*10H0440*	*8260B*
4-Bromofluorobenzene	*103 %*		*Surr Limits: (73-120%)*				*08/06/10 19:19*	*TRB*	*10H0440*	*8260B*
Toluene-d8	*107 %*		*Surr Limits: (71-126%)*				*08/06/10 19:19*	*TRB*	*10H0440*	*8260B*

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: GW-TRIP BLANK-1 (RTH0402-14 - Water)						**Sampled: 08/02/10 07:30**		**Recvd: 08/04/10 15:50**		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.31	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,1-Dichloroethane	ND		5.0	0.38	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,1-Dichloroethene	ND		5.0	0.29	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,2,4-Trichlorobenzene	ND		5.0	0.41	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,2-Dibromo-3-chloropropane	ND		5.0	0.39	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,2-Dibromoethane	ND		5.0	0.73	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,2-Dichlorobenzene	ND		5.0	0.79	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,2-Dichloroethane	ND		5.0	0.21	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,2-Dichloropropane	ND		5.0	0.72	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
1,4-Dichlorobenzene	ND		5.0	0.84	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
2-Butanone	ND		25	1.3	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
2-Hexanone	ND		25	1.2	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
4-Methyl-2-pentanone	ND		25	2.1	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Acetone	ND		25	3.0	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Benzene	ND		5.0	0.41	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Bromodichloromethane	ND		5.0	0.39	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Bromoform	ND		5.0	0.26	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Bromomethane	ND		5.0	0.69	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Carbon disulfide	ND		5.0	0.19	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Carbon Tetrachloride	ND		5.0	0.27	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Chlorobenzene	ND		5.0	0.75	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Dibromochloromethane	ND		5.0	0.32	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Chloroethane	ND		5.0	0.32	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Chloroform	ND		5.0	0.34	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Chloromethane	ND		5.0	0.35	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Cyclohexane	ND		5.0	0.18	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Dichlorodifluoromethane	ND		5.0	0.68	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Ethylbenzene	ND		5.0	0.74	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Isopropylbenzene	ND		5.0	0.79	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Methyl Acetate	ND		5.0	0.50	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.16	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Methylcyclohexane	ND		5.0	0.16	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Methylene Chloride	ND		5.0	0.44	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Styrene	ND		5.0	0.73	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Tetrachloroethene	ND		5.0	0.36	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Toluene	ND		5.0	0.51	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Trichloroethene	ND		5.0	0.46	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Trichlorofluoromethane	ND		5.0	0.88	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B
Vinyl chloride	ND		5.0	0.90	ug/L	1.00	08/06/10 18:57	TRB	10H0440	8260B

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Matrix Spike Analyzed: 08/06/10 (Lab Number:10H0440-MS1, Batch: 10H0440)											
QC Source Sample: RTH0402-12											
1,1,1-Trichloroethane	226	125	25	4.1	ug/L	324	78	73-126			D08
1,1,2,2-Tetrachloroethane	ND	125	25	1.1	ug/L	129	103	70-126			D08
1,1,2-Trichloroethane	ND	125	25	1.2	ug/L	128	103	76-122			D08
1,1,2-Trichloro-1,2,2-trifluoroethane	1060	125	25	1.5	ug/L	830	-182	60-140			D08,MHA
1,1-Dichloroethane	ND	125	25	1.9	ug/L	145	116	71-129			D08
1,1-Dichloroethene	20.2	125	25	1.5	ug/L	160	112	65-138			D08
1,2,4-Trichlorobenzene	ND	125	25	2.0	ug/L	123	98	70-122			D08
1,2-Dibromo-3-chloropropane	ND	125	25	2.0	ug/L	118	94	56-134			D08
1,2-Dibromoethane	ND	125	25	3.6	ug/L	131	105	77-120			D08
1,2-Dichlorobenzene	ND	125	25	4.0	ug/L	127	101	77-120			D08
1,2-Dichloroethane	ND	125	25	1.1	ug/L	147	118	75-127			D08
1,2-Dichloropropane	ND	125	25	3.6	ug/L	138	110	76-120			D08
1,3-Dichlorobenzene	ND	125	25	3.9	ug/L	131	105	77-120			D08
1,4-Dichlorobenzene	ND	125	25	4.2	ug/L	132	106	75-120			D08
2-Butanone	ND	625	120	6.6	ug/L	760	122	57-140			D08
2-Hexanone	ND	625	120	6.2	ug/L	729	117	65-127			D08
4-Methyl-2-pentanone	ND	625	120	10	ug/L	722	116	71-125			D08
Acetone	ND	625	120	15	ug/L	786	126	56-142			D08
Benzene	ND	125	25	2.0	ug/L	138	110	71-124			D08
Bromodichloromethane	ND	125	25	1.9	ug/L	132	106	80-122			D08
Bromoform	ND	125	25	1.3	ug/L	88.8	71	66-128			D08
Bromomethane	ND	125	25	3.4	ug/L	123	98	36-150			D08
Carbon disulfide	ND	125	25	0.97	ug/L	117	94	59-134			D08
Carbon Tetrachloride	ND	125	25	1.3	ug/L	152	121	72-134			D08
Chlorobenzene	ND	125	25	3.8	ug/L	134	107	72-120			D08
Dibromochloromethane	ND	125	25	1.6	ug/L	111	89	75-125			D08
Chloroethane	ND	125	25	1.6	ug/L	147	117	69-136			D08
Chloroform	ND	125	25	1.7	ug/L	147	118	73-127			D08
Chloromethane	ND	125	25	1.7	ug/L	142	114	49-142			D08
cis-1,2-Dichloroethene	ND	125	25	4.0	ug/L	141	113	74-124			D08
cis-1,3-Dichloropropene	ND	125	25	1.8	ug/L	109	87	74-124			D08
Cyclohexane	ND	125	25	0.90	ug/L	149	119	70-130			D08
Dichlorodifluoromethane	ND	125	25	3.4	ug/L	152	121	33-157			D08
Ethylbenzene	ND	125	25	3.7	ug/L	132	106	77-123			D08
Isopropylbenzene	ND	125	25	4.0	ug/L	128	103	77-122			D08
Methyl Acetate	ND	125	25	2.5	ug/L	149	119	60-140			D08

AECOM - Amherst, NY
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SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Matrix Spike Analyzed: 08/06/10 (Lab Number:10H0440-MS1, Batch: 10H0440)											
QC Source Sample: RTH0402-12											
Methyl-t-Butyl Ether (MTBE)	ND	125	25	0.80	ug/L	134	107	64-127			D08
Methylcyclohexane	ND	125	25	0.80	ug/L	137	110	60-140			D08
Methylene Chloride	ND	125	25	2.2	ug/L	132	105	57-132			D08
Styrene	ND	125	25	3.6	ug/L	125	100	70-130			D08
Tetrachloroethene	ND	125	25	1.8	ug/L	133	106	74-122			D08
Toluene	ND	125	25	2.6	ug/L	129	103	70-122			D08
trans-1,2-Dichloroethene	ND	125	25	4.5	ug/L	148	118	73-127			D08
trans-1,3-Dichloropropene	ND	125	25	1.8	ug/L	112	90	72-123			D08
Trichloroethene	ND	125	25	2.3	ug/L	140	112	74-123			D08
Trichlorofluoromethane	ND	125	25	4.4	ug/L	163	130	62-152			D08
Vinyl chloride	ND	125	25	4.5	ug/L	140	112	65-133			D08
Xylenes, total	ND	375	75	3.3	ug/L	392	104	76-122			D08
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*119*	*66-137*			*D08*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*102*	*73-120*			*D08*
Surrogate: Toluene-d8					*ug/L*		*103*	*71-126*			*D08*
Matrix Spike Dup Analyzed: 08/06/10 (Lab Number:10H0440-MSD1, Batch: 10H0440)											
QC Source Sample: RTH0402-12											
1,1,1-Trichloroethane	226	125	25	4.1	ug/L	311	68	73-126	4	15	D08,M8
1,1,2,2-Tetrachloroethane	ND	125	25	1.1	ug/L	127	102	70-126	1	15	D08
1,1,2-Trichloroethane	ND	125	25	1.2	ug/L	129	103	76-122	0.5	15	D08
1,1,2-Trichloro-1,2,2-trifluoroethane	1060	125	25	1.5	ug/L	783	-220	60-140	6	20	D08,MHA
1,1-Dichloroethane	ND	125	25	1.9	ug/L	141	112	71-129	3	20	D08
1,1-Dichloroethene	20.2	125	25	1.5	ug/L	155	108	65-138	3	16	D08
1,2,4-Trichlorobenzene	ND	125	25	2.0	ug/L	123	98	70-122	0.3	20	D08
1,2-Dibromo-3-chloropropane	ND	125	25	2.0	ug/L	118	94	56-134	0.04	15	D08
1,2-Dibromoethane	ND	125	25	3.6	ug/L	131	105	77-120	0.04	15	D08
1,2-Dichlorobenzene	ND	125	25	4.0	ug/L	128	103	77-120	1	20	D08
1,2-Dichloroethane	ND	125	25	1.1	ug/L	143	114	75-127	3	20	D08
1,2-Dichloropropane	ND	125	25	3.6	ug/L	133	107	76-120	3	20	D08
1,3-Dichlorobenzene	ND	125	25	3.9	ug/L	129	103	77-120	2	20	D08
1,4-Dichlorobenzene	ND	125	25	4.2	ug/L	128	103	75-120	3	20	D08
2-Butanone	ND	625	120	6.6	ug/L	741	118	57-140	3	20	D08
2-Hexanone	ND	625	120	6.2	ug/L	732	117	65-127	0.5	15	D08

AECOM - Amherst, NY
100 Corporate Pkwy-Univ Centre
Amherst, NY 14226

SDG Number: RTH0401

Project: Scott Aviation site
Project Number: AECOM-0001

Received: 08/04/10
Reported: 08/26/10 09:25

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Matrix Spike Analyzed: 08/09/10 (Lab Number:10H0566-MS1, Batch: 10H0566)											
QC Source Sample: RTH0402-13RE1											
Methyl-t-Butyl Ether (MTBE)	ND	500	100	3.2	ug/L	513	103	64-127			D08
Methylcyclohexane	ND	500	100	3.2	ug/L	541	108	60-140			D08
Methylene Chloride	ND	500	100	8.8	ug/L	518	104	57-132			D08
Styrene	ND	500	100	15	ug/L	499	100	70-130			D08
Tetrachloroethene	ND	500	100	7.3	ug/L	534	107	74-122			D08
Toluene	ND	500	100	10	ug/L	507	101	70-122			D08
trans-1,2-Dichloroethene	ND	500	100	18	ug/L	580	116	73-127			D08
trans-1,3-Dichloropropene	ND	500	100	7.4	ug/L	469	94	72-123			D08
Trichloroethene	ND	500	100	9.2	ug/L	559	112	74-123			D08
Trichlorofluoromethane	ND	500	100	18	ug/L	644	129	62-152			D08
Vinyl chloride	ND	500	100	18	ug/L	525	105	65-133			D08
Xylenes, total	ND	1500	300	13	ug/L	1550	103	76-122			D08
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*115*	*66-137*			*D08*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*100*	*73-120*			*D08*
Surrogate: Toluene-d8					*ug/L*		*102*	*71-126*			*D08*
Matrix Spike Dup Analyzed: 08/09/10 (Lab Number:10H0566-MSD1, Batch: 10H0566)											
QC Source Sample: RTH0402-13RE1											
1,1,1-Trichloroethane	34.6	500	100	16	ug/L	588	111	73-126	5	15	D08
1,1,2,2-Tetrachloroethane	ND	500	100	4.3	ug/L	493	99	70-126	2	15	D08
1,1,2-Trichloroethane	ND	500	100	4.6	ug/L	499	100	76-122	3	15	D08
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	500	100	6.2	ug/L	582	116	60-140	9	20	D08
1,1-Dichloroethane	1150	500	100	7.7	ug/L	1420	54	71-129	6	20	D08,M8
1,1-Dichloroethene	ND	500	100	5.9	ug/L	545	109	65-138	7	16	D08
1,2,4-Trichlorobenzene	ND	500	100	8.2	ug/L	477	95	70-122	2	20	D08
1,2-Dibromo-3-chloropropane	ND	500	100	7.9	ug/L	442	88	56-134	5	15	D08
1,2-Dibromoethane	ND	500	100	15	ug/L	496	99	77-120	2	15	D08
1,2-Dichlorobenzene	ND	500	100	16	ug/L	487	97	77-120	5	20	D08
1,2-Dichloroethane	ND	500	100	4.3	ug/L	558	112	75-127	5	20	D08
1,2-Dichloropropane	ND	500	100	14	ug/L	525	105	76-120	3	20	D08
1,3-Dichlorobenzene	ND	500	100	16	ug/L	491	98	77-120	6	20	D08
1,4-Dichlorobenzene	ND	500	100	17	ug/L	493	99	75-120	3	20	D08
2-Butanone	ND	2500	500	26	ug/L	2830	113	57-140	3	20	D08
2-Hexanone	ND	2500	500	25	ug/L	2750	110	65-127	2	15	D08

Form 10A
IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: MW-36S

Lab Name: TestAmerica Buffalo SDG No.: RTH0401

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTH0401-02 Date(s) Analyzed: 08/06/2010 08/06/2010

Instrument ID (1): HP6890-5Column 1 Instrument ID (HP6890-5Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	18.35	18.28	18.38	0.11	
	2	20.36	20.37	20.47	0.040	165
beta-BHC	1	12.49	12.42	12.52	0.041	
	2	14.17	14.17	14.27	0.078	91
Endosulfan I	1	16.50	16.47	16.57	0.093	
	2	18.28	18.20	18.30	0.051	82
Endosulfan II	1	18.03	18.02	18.12	0.015	
	2	20.02	19.97	20.07	0.096	536
Heptachlor epoxide	1	15.61	15.57	15.67	0.049	
	2	17.29	17.29	17.39	0.13	163

RPDs

0.07 / 0.075 x100 = 93 0.049U

0.037 / 0.0595 x100 = 62 0.049U

0.042 / 0.072 x100 = 58 NJ

0.081 / 0.0555 x100 = 146 0.049U

0.081 / 0.0895 x100 = 90.5

NJ

instead of R.

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: MW-39D

Lab Name: TestAmerica Buffalo SDG No.: RTH0401

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTH0401-03 Date(s) Analyzed: 08/06/2010 08/06/2010

Instrument ID (1): HP6890-5Column 1 Instrument ID (HP6890-5Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
delta-BHC	1	12.90	12.86	12.96	0.015	
	2	14.99	14.93	15.03	0.021	43
gamma-BHC (Lindane)	1	12.21	12.18	12.28	0.011	
	2	13.97	13.96	14.06	0.025	136

RPDs

$\frac{0.006}{0.018} \times 100 = 33$ J

$\frac{0.014}{0.018} \times 100 = 76$ NJ

Form 10A
IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: MW-41B2

Lab Name: TestAmerica Buffalo SDG No.: RTH0401

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTH0401-04 Date(s) Analyzed: 08/06/2010 08/06/2010

Instrument ID (1): HP6890-5Column 1 Instrument ID (HP6890-5Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
delta-BHC	1	12.87	12.86	12.96	0.012	
	2	14.95	14.93	15.03	0.013	6

RPD

$\frac{0.001}{0.0125} \times 100 = 8.$

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

AFT: GW-RINSE BLAN

Lab Name: TestAmerica Buffalo SDG No.: RTH0401

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTH0401-05 Date(s) Analyzed: 08/06/2010 08/06/2010

Instrument ID (1): HP6890-5Column 1 Instrument ID (HP6890-5Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	11.37	11.33	11.43	0.014	
	2	13.01	12.99	13.09	0.015	11

RPD = 6.9.

Form 10A

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DRAFT: GW-DUPLICATE

Lab Name: TestAmerica Buffalo SDG No.: RTH0401

Client: AECOM - Amherst, NY Project: AECOM, Inc. - Scott Aviation site - NY3A9023

Lab Sample ID: RTH0401-06 Date(s) Analyzed: 08/06/2010 08/06/2010

Instrument ID (1): HP6890-5Column 1 Instrument ID (HP6890-5Column 2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	18.28	18.28	18.38	0.031	
	2	20.36	20.37	20.47	0.040	29
alpha-BHC	1	11.32	11.33	11.43	0.019	
	2	13.00	12.99	13.09	0.023	19
alpha-Chlordane	1	16.23	16.16	16.26	0.016	
	2	18.06	18.06	18.16	0.016	1
delta-BHC	1	12.91	12.86	12.96	0.013	
	2	14.96	14.93	15.03	0.067	423
Endosulfan I	1	16.50	16.47	16.57	0.072	
	2	18.27	18.20	18.30	0.038	88
gamma-BHC (Lindane)	1	12.20	12.18	12.28	0.011	
	2	13.97	13.96	14.06	0.028	152
gamma-Chlordane	1	15.92	15.85	15.95	0.013	
	2	17.74	17.72	17.82	0.041	225
Heptachlor epoxide	1	15.61	15.57	15.67	0.026	
	2	17.28	17.29	17.39	0.095	267

RPD

$\frac{0.009}{0.0355} \times 100 = 25$ ✓

$\frac{0.004}{0.021} \times 100 = 19$ ✓

Ø

$\frac{0.054}{0.04} \times 100 = 135$ NJ. Not R.

$\frac{0.034}{0.055} \times 100 = 62$ J

$\frac{0.015}{0.0205} \times 100 = 73$ NJ

$\frac{0.028}{0.027} \times 100 = 104$ NJ

$\frac{0.069}{0.0605} \times 100 = 114$ NJ

Appendix K

Fish and Wildlife Impact Analysis

AECOM Environment

Prepared for:
Scott Technologies, Inc.
Boca Raton, FL

Prepared by:
AECOM
Amherst, NY
60155991
October 2010

APPENDIX K

FISH AND WILDLIFE IMPACT ANALYSIS

FORMER SCOTT AVIATION FACILITY AREA 1
225 ERIE STREET
LANCASTER, NEW YORK

BROWNFIELD CLEANUP SITE NO. C915233

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1.0 INTRODUCTION

On behalf of Scott Technologies, Inc., AECOM Technical Services, Inc. (AECOM)[1] completed a Remedial Investigation (RI) under the guidance of the New York State Department of Environmental Conservation's (NYSDEC) Brownfield Cleanup Program (BCP) at the former Scott Aviation Facility Area 1 site (Site) located at 225 Erie Street, Village of Lancaster, Erie County, New York (**Figure 1**). Scott Technologies, Inc. submitted an application on September 11, 2008 to enter the NYSDEC BCP per Title 6 New York State Official Compilation of Codes, Rules, and Regulations (NYCRR) Part 375-3.4 for the Site. On September 1, 2004, the former Scott Aviation Facility was sold by Scott Technologies, Inc. to the current facility owner/operator, AVOX Systems Inc. (AVOX). Scott Technologies, Inc. has applied for entry into the NYSDEC BCP as a participant to investigate and remediate, as appropriate, potential areas of environmental concern associated with the Site.

Previous investigations at the Site include a Phase I Environmental Site Assessment (ESA) completed by Earth Tech in April 2004, Phase II Environmental Site Investigation (ESI) completed by Earth Tech in June 2004, a Preliminary Groundwater Assessment completed by Earth Tech in 2007. The previous investigations identified the presence of volatile organic compounds (VOCs) at the Site at concentrations exceeding 6 NYCRR part 375 Soil Cleanup Objectives (SCOs) for restricted use and VOCs in groundwater samples at concentrations exceeding 6 NYCRR Part 703.5 Class GA Groundwater standards.

AECOM, on behalf of Scott Technologies, Inc. has developed this Fish and Wildlife Impact Analysis (FWIA) following the guidance requirements in NYSDEC Technical Guidance for Site Investigation and Remediation (DER-10), effective June 18, 2010.

The Plant 1 Area is currently used as a manufacturing, development, testing, and distribution facility for aircraft and military supplied-air systems. The Plant 1 Area also has a small pre-fabricated storage shed for hazardous materials and wastes, a record retention building, a paint storage shed, and a grounds keeping equipment shed in its southern portion; a 3,000-gallon steel aboveground storage tank (AST) on legs containing liquid oxygen, in the parking lot to the east of Plant 1; and a 100,000-gallon water tower southwest of Plant 1 that supplies water for both process use and fire protection. The Property also includes asphalt-paved driveways and parking areas east and west of Plant 1. Buildings and pavement cover roughly 65% of the Plant 1 Area. Maintained lawns and a small undeveloped area comprise the remainder of the Property.

1.1 PURPOSE

This Fish and Wildlife Impact Analysis (FWIA) follows the requirements as set forth in the *Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites* guidance of the New York State Department of Environmental Conservation (NYSDEC, 1994). The objectives of the FWIA were to: identify the fish and wildlife resources that presently exist and that existed before contaminant introduction; provide information necessary for the design of a remedial investigation; determine

[1] Earth Tech was acquired by AECOM during July 2008, and merged its name to AECOM as of January 1, 2009.

the impacts of Site-related contaminants on fish and wildlife resources; and evaluate the effects of the remedial alternatives on the productivity and diversity of fish and wild resources.

Generally, this FWIA follows the requirements as set forth in the *Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites* guidance issued by NYSDEC. The objectives of the guidance are identified via a five-step process. An identification of these steps is the following:

- **Step I Site Description -** The objectives of Step I are the following: (1) to identify the fish and wildlife resources that presently exist and that existed before contaminant introduction, and (2) to provide information necessary for the design of a remedial investigation (NYSDEC, 1994).

- **Step II Contaminant-Specific Impact Assessment -** The objective of Step II is to determine the impacts of site-related contaminants on fish and wildlife resources. These impacts depend upon the contaminants of concern, the concentrations of contaminants in the media, the exposure of biota to the contaminants, and the toxic effects of the exposures (NYSDEC, 1994).

- **Step III Ecological Effects of Remedial Alternatives -** The objective of Step III is to evaluate the effects of the remedial alternatives on the productivity and diversity of fish and wildlife resources. This requires consideration of the potential non-contaminant related impacts of remedial activity, as well as consideration of the efficacy of remedial alternatives in correcting contaminant-specific effects (NYSDEC, 1994).

- **Step IV Fish & Wildlife Requirements For Implementation of Remedial Actions -** This phase of a remedial action involves fish and wildlife requirements for implementation of the selected remedial alternative. It requires the accurate location of areas to be remediated or protected and the formulation of design plans for remedial construction. If appropriate, fish and wildlife resources may require delineation, and plans for restoration and/or protection may need to be developed. Specific information should be included on project plans and in construction specifications (NYSDEC, 1994).

- **Step V - Monitoring Program -** The objectives of the monitoring program include insuring that the work performed complies with design specifications as they pertain to fish and wildlife resources, evaluating the efficacy of the remedial actions in minimizing risk to fish and wildlife, and determining the effectiveness of remedial measures over time (NYSDEC, 1994).

If no resources are associated with the Site or if there is no potential for contaminant migration to the resources, then only Step 1 of the FWIA must be completed with all the necessary information to support these conclusions. It is anticipated that only Step I is necessary due to the highly developed character of the Site and surrounding parcels, the limited and confined area of contamination, and the characteristics of site geology and topography that inhibit offsite migration.

1.2 PRIOR ENVIRONMENTAL INVESTIGATIONS

1.2.1 PHASE I and II INVESTIGATIONS

1.2.1.1 Phase I Environmental Site Assessment

In 2004, a Phase I Environmental Site Assessment (ESA) was conducted at a level of effort consistent with American Society for Testing Materials (ASTM) Standard Practice E1527-00 to evaluate the environmental status of the entire former Scott Aviation property. A detailed study of historical aerial photographs of the Phase I ESA Report indicated an area of potentially disturbed soil on the west side of Plant 1, south of the existing visitor parking area, and just outside the Plant 1 western perimeter fence line on the adjacent vacant parcel (Earth Tech, April 2004).

1.2.1.2 Phase II Environmental Site Investigation

A Phase II Environmental Site Investigation (ESI) was completed in 2004 for the entire former Scott Aviation property to address environmental concerns described in the Phase I ESA Report, including the area of potentially disturbed soil on the west side of Plant 1. The Phase II ESI was conducted at a level of effort consistent with ASTM Standard Practice E1903-97, Guide for Environmental Site Assessments.

On March 29, 2004, seven test pits were excavated on the west side of the Plant 1 perimeter fence to investigate the extent of the miscellaneous debris. In two of the test pits near the fence line in the western portion of the site, what appeared to be residual paint sludge (yellow, amber, and green colors detected in the soil) of unknown origin, was observed (Photo 1). The paint sludge was located approximately 18 to 24 inches below ground surface (bgs), was less than one foot thick (typically six inches), and encompassed approximately 150 square feet in area (determined from a visual inspection of the test pits). Grab samples of the soil located below the observed paint sludge were collected and submitted for laboratory analysis, including VOCs, SVOCs, and metals plus cyanide. Subsequent laboratory analysis indicated elevated concentrations of VOCs and SVOCs within the grab soil samples.

1.2.2 INTERIM REMEDIAL MEASURE FOR SOIL AT AREA 1

On June 28, 2005, AECOM, in accordance with the IRM/Supplemental Site Investigation Work Plan, performed an initial excavation of the buried paint sludge material located to the west of Plant 1. AECOM removed all residual paint sludge material and a minimum 1-foot buffer of soil vertically and horizontally around the visible material. The initial excavation footprint was approximately 14 feet by 18 feet, and the depth of the excavation ranged between 3.5 and 4 feet bgs. A total of 40 cubic yards of material (two roll-off boxes) were removed for subsequent off-Site disposal.

Three sidewall (sample identification numbers S-1, S-2, and S-3) and one floor (B-1) confirmation soil samples were collected and submitted for analysis of VOCs and phenols by Severn Trent Laboratories, Inc. (STL) of Amherst, New York. All sidewall sample results were below New York State Technical and Administrative Guidance Memorandum (TAGM) 4046 soil criteria, which was the appropriate screening criterion to be used for soil at the time the IRM was performed. In the excavation floor confirmation soil sample (B-1), ethyl benzene (14 parts per million [ppm]), toluene (15 ppm), trichloroethene (TCE; 1.2 ppm), Xylenes (130 ppm), and phenol (54 parts per billion [ppb]) were detected at levels above their respective TAGM 4046 soil criteria.

As a result of the soil concentration exceedances for confirmation soil sample number B-1, AECOM excavated an additional two feet of soil vertically within the existing excavation footprint on July 11, 2005, extending the total excavation depth to approximately 5.5 to 6 feet bgs. An additional 20 cubic yards of soil (one roll-off box) were removed for subsequent off-Site disposal.

One confirmation soil sample (sample identification number B-1A) was collected at the bottom of the excavation and analyzed for VOCs and phenol by STL. Analytical results indicated TAGM 4046 soil criteria exceedances for toluene (17 ppm), 1,1,1-trichloroethane (1,1,1-TCA; 51 ppm), TCE (43 ppm), and Xylenes (41 ppm) in the sample. Further excavation was not completed during the IRM because groundwater was encountered at approximately 6 feet bgs, and the scope of work for the IRM only addressed vadose zone soil. In addition, no remaining visible paint sludge material was observed in the soil excavation footprint.

The 60 cubic yards of soil that was excavated to the west of Plant 1 was characterized for disposal. The resulting analytical data indicated that the excavated soil was non-hazardous. The soil was subsequently disposed at a Waste Management landfill located in Lewiston, New York (Earth Tech, January 2008).

1.2.3 PRELIMINARY GROUNDWATER ASSESSMENT

As a result of the elevated VOC and SVOC (phenol only) soil concentrations detected in the excavation bottom at Area 1 during the 2005 IRM, a Preliminary Groundwater Assessment (PGA) was performed in 2006 and 2007. The purpose of the PGA was to assess the nature and extent of VOCs in groundwater in the vicinity of Area 1 and an additional area (Area 2) located to the northeast of AVOX Plant 2. The PGA Report was provided to NYSDEC in November 2007 with revised pages provided to the NYSDEC in January 2008 (Earth Tech, January 2008). The PGA Report was developed in accordance with the Draft DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, December 2002). A summary of the PGA results for Area 1 is provided below.

As part of the PGA, eighteen one-inch diameter temporary piezometers were installed and screened across the water table (shallow overburden groundwater) at each boring location following the collection of a deep overburden groundwater sample using a Geoprobe® SP-15 sampling tool. Deep overburden groundwater piezometers were not installed for the PGA at Area 1.

Groundwater surface elevations were measured periodically at Area 1 during and following each phase of the PGA. A total of 26 VOCs and four SVOCs were detected in groundwater at Area 1. Eighteen of the 26 VOCs were detected at concentrations exceeding their respective Title 6 NYCRR Part 703 Class GA Groundwater Standards. TCE was detected in the shallow overburden groundwater (90,000 micrograms per liter [µg/L]) and deep overburden groundwater (6,600 µg/L) at the highest concentration and largest areal extent of all chemical constituents detected in groundwater at Area 1. The lateral extent of TCE was delineated in both overburden groundwater units during the PGA and was limited in aerial extent to within the existing facility property boundary southwest of Plant 1.

1.3 REPORT ORGANIZATION

This report presents the findings of the RI activities and is organized as follows:

i) Section 1.0 – Introduction: The introduction presents an overview of the project to date and the purpose of the FWIA.

ii) Section 2.0 – Environmental Resources: Description of the site ecology as well as the potential presence of regulated habitats and threatened and endangered species on and/or adjacent to the site.

iii) Section 3.0 – Topography, Geology, and Hydrogeology: The characterization of Site's topography, geology and hydrogeology and nearby surface waters is presented in Section 3.0

iv) Section 4.0 –Habitat Value: A summary of the Site's ecology is presented in Section 4.0.

v) Section 6.0 – Contaminant Pathway Analysis: The characterization of potential offsite migration routes of contaminants is presented in Section 5.0

vi) Section 6.0 – Ecologic Effects of Remedial Actions: The characterization of what, if any, effects remedial actions may have of the site and regional ecology is presented in Section 6.0.

vii) Section 7.0 – Fish and Wildlife Requirements of Remedial Actions: The Fish and Wildlife Requirements of Remedial Actions during the RI are presented in Section 7.0

viii) Section 8.0 – Monitoring: An assessment of the need for ecological monitoring during the is presented in Section 8.0

ix) Section 9.0 – Summary: A summary of the conclusions of the investigation is presented in Section 9.0

x) Section 10.0 – References: A list of references materials utilized in the preparation of this RIR is presented in Section 10.0

xi) Section 11 Exhibits – Figures and photographs referenced in the report are presented in this section.

2.0 ENVIRONMENTAL RESOURCES

2.1 ECOLOGY, FLORA, and FAUNA

2.1.1 REGIONAL HABITATS

The Site lies with the Village of Lancaster on a flat parcel of land. The Site is located in a multi-use neighborhood comprised of industrial, commercial, and residential properties. Figure 3 identifies the major covertypes within a 0.5 mile radius of the site. Large contiguous vegetated habitats that would support large numbers of wildlife and threatened and endangered species are not present within and/or adjacent to the site. However, approximately 500 feet northeast of the site there is the boundary a large young field associated with the former airfield facility (Figure 3). This field continues to the northeast for approximately 0.5 miles. The field is bisected by small stream channel lined with scrub-shrub vegetation. This young field habitat is separated from the Site by Erie Street and residential properties. West and south of the Site within the 0.5-mile radius, the covertypes are dominated by large residential areas, parks and institution with maintained lawns, and industrial sites.

2.1.2 ON-SITE HABITATS

The development immediately surrounding the site has resulted in a high degree of habitat fragmentation. Review of aerial photography (Figure 4) indicates that habitats on and/or adjacent to the site consist of residential and industrial developments, roads, an active rail line (Photo 2), mowed lawns, and small, discontiguous parcels of young fields and scrub-shrub areas.

On Site, vegetated habitats occur in the western portion of the property. These habitats consist of a mowed lawn, a small scrub-shrub area that measures approximately 100 ft by 40 ft and a small depressional area that measures approximately 60 ft by 60 ft (Photo 3). The depressional area is approximately several inches lower in elevation than the rest of the property. Hydrophytic vegetation cattails (*Typha* sp.) have been observed in this depression, and during wetter times of the year small puddles areas of standing water (<2 inches in depth) may collect in tire ruts within the area. Though, it should be noted this depressional feature does not have a hydrologic outlet. It is surrounded by a lawn on its north and south boundaries, buildings and development o to the east, and an upland old field to the south. South of the old field there is an active rail line (Photo 2). Species within the scrub/shrub area and along the rail lines consisted of common species: teasel, *Dipsacus fullonum*; foxtail *Setaria* sp;goldenrod, *Solidago* sp.; birch, *Betula* sp; dogwoods, *Cornus* sp.; and maples, *Acer* sp. It should be noted that the vegetation on site exhibited signs of good vigor and showed no evidence from the effects of contamination (Photo 4).

Resident fauna on site would likely be limited to those species adapted to an urban disturbed environment (e.g., small rodents [mice, *Mus sp.*; grey squirrels, *Sciurus carolinensis*; etc.] house sparrows, *Passer domesticus* etc.). It is likely that larger species (e.g., raccoons, *Procyon lotor*; deer, *Odocoileus virginianus*, etc.) may occasionally transit through the site; however, the onsite habitat would not be capable of supporting these species or attractive habitat.

There are no aquatic resources on and/or immediately adjacent to the site. Hydrology from precipitation events collects in the depression and dissipates via infiltration, evaporation or

transpiration. The hydrology is not present for a long enough period to support fish or herptofauna associated with vernal pools or similar habitats.

2.2 REGULATED HABITATS AND SPECIES

This subchapter identifies wetlands and surface water resources within proximity to the site. This subchapter also identifies the results of a search performed of federal and state agencies' online resources for the potential for regulated habitats and species to be present on and/or adjacent to the site.

2.2.1 WETLANDS AND WATERBODIES

2.2.1.1 Wetlands

In October 2010, the United States Fish and Wildlife Service's (USFWS's) website was consulted to determine if National Wetland Inventory (NWI) wetlands are present within and/or adjacent to the site. Figure 5 identifies the results of search and shows that no NWI wetlands were identified on and/or adjacent to the site. The search results further indicate that the nearest wetland is a forested wetland parcel located approximately 0.2 miles east of the site.

In October 2010, the NYSDEC's Environmental Resource Mapper (ERM) online tool was utilized to determine the presence of wetlands on and/or adjacent to the site. Review of the ERM output (Figure 6) indicated that there are no state regulated wetlands, wetland check zones, or water bodies located on and/or immediately adjacent to the site.

The depressional area in the southwest portion of the site may contain hydric features allowing it to be classified as a wetland; however, as the wetland is an isolated basin it would be likely be considered a non-jurisdictional wetland with limited potential habitat value.

2.2.1.2 Water Bodies

The nearest water bodies to the site are tributaries of the Plum Bottom Creek that are located over 750 feet from the site. The tributaries are small, narrow drainage ways that flow east to west. During normal flow conditions, these tributaries have less than 0.5 ft of water in them.

NYSDEC is charged with classifying all surface waters of the state pursuant to Article 17, Title 3, of the Environmental Conservation Law (ECL). To implement this charge, NYSDEC developed a surface-water classification system and promulgated a set of rules and regulations (6 NYCRR, Parts 800-940) under which to administer the surface water quality and purity program. Each part pertains to a specific drainage basin.

As a result, surface waters in the state are classified according to their "best usages" (e.g., drinking, bathing, level of recreational contact, and fish propagation and survival). These classifications include designations for both fresh surface waters and saline surface waters.

Review of the NYSDEC ERM indicated that the tributaries of the Plum bottom Creek are Class "C" water bodies. Class C is the second lowest classification for a fresh water body. Review of the NYSDEC regulations indicates that for Class C "*Best usage is fishing. These waters shall be suitable for fish propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes*."

2.2.2 THREATENED AND ENDANGERED SPECIES, SPECIES OF CONCERN, AND CRITICAL HABITATS

In 2010, the USFWS website was accessed (USFWS, 2010) to determine the presence of threatened and endangered species (TES) in the project area. Review of the website determined that in Erie County "*Except for occasional transient individuals, no Federally-listed or proposed endangered or threatened species, or candidate species under our jurisdiction are known to exist in these counties*."

In October 2010, the NYSDEC's ERM was utilized to determine the presence of threatened and endangered species on and/or adjacent to the site. Review of the ERM output (Figure 6) indicated that there are no natural communities or rare plants and/or animals within a 0.5 mile radius of the site.

In 2008, a FWIA prepared for the Former Buffalo China Site, which is located south of this site, identified that two New York State threatened bird species, the least bittern (*Ixobrychus exilis*) and pied billed grebe (*Podilymbus podiceps*), were reported by the New York Natural Heritage Program as occurring within two miles of the Former Buffalo China Site. Neither of these species is expected to occur on and/or adjacent to near 225 Erie Street, as suitable habitat for these species does not occur.

3.0 TOPOGRAPHY, GEOLOGY, AND HYDROGEOLOGY

Subsurface materials encountered in Area 1 during past investigations were primarily comprised of laminated lacustrine silts and clays interbedded with thin sand lenses, underlain by a thin coarser grained (silt, sand, and gravel) layer immediately above bedrock. Bedrock in the area of the Site consists of middle Devonian age shale of the Hamilton Group. Black shale, Marcellus Formation, has been identified at the Site at approximately 21.5 feet below ground surface.

3.1 TOPOGRAPHY AND SURFAE WATER DRAINAGE

3.1.1 TOPOGRAPHY

The USGS 7.5-minute Topographic Quadrangle Map of Lancaster, New York indicates that the Site's ground surface is generally level (Figure 1). A visual inspection and survey data collected from monitoring wells confirmed that the Site is generally flat with an average elevation of 689 feet above mean sea level.

3.1.2 SURFACE WATER DRAINAGE

The general direction of on-Site surface water drainage appears to be toward a series of storm catch basins. The on-Site storm sewer system is connected to the Town of Lancaster separate municipal storm sewer system located within the adjacent Erie Street right-of-way. The stormwater drainage is ultimately discharged to Cayuga Creek via the separate municipal storm sewer system. The Norfolk Southern Corporation railroad tracks situated immediately south of Plant 1 provides an additional surface water drainage barrier/divide for the local Site area.

The site is located in the immediate watershed of Plum Bottom Brook which ultimately discharges to Cayuga Creek approximately one mile southwest of the Site. The nearest natural body of water is an unnamed sub-tributary of Plum Bottom Brook located approximately 750 feet north of Erie Street. This sub-tributary flows in a westerly direction approximately 0.25 miles to Plum Bottom Brook.

Due to the flat topography, surface water from the area of contamination does not travel via sheet flow to the Plum Bottom Brook Tributary. Moreover, the area of contamination is adjacent to a small depression; it is assumed that during periods of increased hydrology, sheet flow from the contaminated area may migrate to the depressional area.

3.2 REGIONAL and LOCAL HYDROGEOLOGY

3.2.1 REGIONAL HYDROGEOLOGY

The soil, lake deposits, and till (surficial deposits) and the bedrock differ in the types of water-bearing openings they contain. The surficial deposits are composed of grains packed together with open spaces, between the grains (primary porosity). Water permeates the surficial deposits because it can fill the pore spaces between the grains.

The sediments composing the bedrock initially contained pore spaces. However, these pore spaces were closed when the sediments were compacted and cemented. Groundwater in bedrock is encountered mostly within joints and fractures (secondary porosity). In Erie County, only small

amounts of water are contained within the till (LaSala, 1968) due to the low permeability of the material. Large diameter wells obtain only small water supplies.

Lakebed deposits consist of horizontally bedded sand, silt and clay. The permeability of the clay beds is, in general, so low as to yield no water to wells. The lakebed deposits also contain thick sections of water bearing fine sands that can be utilized for water supply. In general, lakebed deposits are not commonly used as a source of potable water.

Shale formations in the Erie-Niagara basin typically contain small volumes of water. However, large volumes of groundwater are present within the limestone interbeds which have been enlarged by solution openings. Recharge to the shale occurs via percolation through the overlying glacial deposits. In general, the water table lies within the surficial deposits above the bedrocks. The water table exists within the shale only where glacial deposits are thin or absent. The fractured zone in the upper bedrock is, in general, hydrologically connected to the glacial deposits. The glacial deposits and the fracture zone, therefore, act as a single water bearing zone. The vertical joints and bedding planes, which extend into shale at depth, receive water where they intersect the overlying surficial deposits.

3.2.2 LOCAL HYDROGEOLOGY AND SITE DRAINAGE

Groundwater is first encountered at the Site in the shallow overburden. The average depth to groundwater in the shallow overburden is approximately 3ft bgs across the Site based on the most recent comprehensive round of water level measurements obtained in August 2010.

As depicted on Figures 7 and 8, groundwater flow (deep overburden) direction is generally to the northwest. Seasonal variations in groundwater elevations between June 2010 and August 2010 ranged from several tenths of a foot to over a foot. From a seasonal perspective, it is anticipated that water levels would rise and fall congruently across the Site. Based on the results of groundwater well tests, the contamination does not migrate off site.

Figure 9 and 10 show groundwater flow (shallow overburden) in June and August. As can be observed in the figure there is minimal directional flow. Throughout the developed portions of the site there are a series of catch basins (Figures 7 -10) that collect and convey stormwater to municipal CSOs. Rainwater is not captured in the vegetated areas.

4.0 HABITAT VALUE

The area surrounding the Site consists of residential, commercial, and industrial developments. There are some areas of mowed lawn and a small scrub-shrub area located in the southwest portion of the Site. However, because food, shelter, and breeding/roosting habitat features are limited on Site, use by wildlife is very limited. Moreover, large contiguous vegetated parcels with surface water resources are located northeast of the site on the other side of Eire Street and adjacent residences. Wildlife would find these large contiguous vegetated parcels as attractive habitat. It is unlikely that wildlife would transit through residential area and/or along an active rail line to utilize the limited habitat resources that occur on site.

Due to the Site and regional geology and flat topography, precipitation within the contaminated area remains onsite. Hydrogeologic tests conducted in August of 2010 indicate that the contaminants do not migrate off site and/or do not interact with the hydrology that collects in the depressional area and are unlikely to impact Plum Bottom Creek because of the distance from the site.

5.0 CONTAMINANT SPECIFIC IMPACT – PATHWAY ANALYSIS

Typically, contaminants migrate off site by either groundwater and/or surface water runoff or through direct exposure and bioaccumulation of soil contamination. As identified in Chapter 3, due to the Site's geology and topography, it is unlikely contaminants migrate off site. In order to reach the Plum Bottom Tributaries, the on Site contaminants would need to travel (>750 ft) over flat terrain and/or migrate through dense clays; thus it is unlikely they reach the tributary. During storm events any discharges from CSOs would take place during heavy precipitation events when upstream dilution rate is high. Review of groundwater well data indicates that areas of groundwater contamination (at 3 feet bgs) does not interact with the depressional area in the southwest portion of the site. Thus, it is not believed that onsite contaminants interact or impact wildlife resources.

Finally, a FWIA prepared for another facility across the street (Versar, 1993) with similar geology and topography, found no evidence of, overland transport of surface water, or discharge to groundwater of on-site contaminants.

With respect to soil exposure and bioaccumulation, although there were a few isolated exceedences of metals and SVOCs within the vegetated area's soils, there are few organisms that utilize the onsite habitat that would risk direct exposure. As such, due to the limited number of organisms on site, it is anticipated that the onsite contaminants do not pose a significant risk to the ecological resources of the area.

6.0 ECOLOGICAL EFFECTS OF REMEDIAL ACTIONS

It is anticipated that any future remedial action will not have an adverse ecological impact on the Site. Remediation of the Site will result in eliminating any future potential pathways to ecological receptors. Also, the environmental resources in the area of mitigation are limited and of low ecological value and generally exhibit evidence of previous and/or ongoing disturbance (e.g., mowed lawns, etc.).

7.0 FISH AND WILDLIFE REQUIREMENTS OF REMEDIAL ACTIONS

Implementation of erosion control and stormwater management measures on the Site during any future remediation activity(s) will reduce the potential for contaminants to migrate off the Site.

8.0 MONITORING

The lack of fish and wildlife habitat and lack of evidence of a contaminant pathway for offsite migration in the vicinity of the Site indicate that monitoring of fish and wildlife habitats is not required. It is recommended that during any active remedial measures that best management practices (e.g., erosion control measures, stormwater management and treatment system operations, etc.) be monitored in accordance with stipulations set forth in regulatory agency permits.

9.0 SUMMARY AND CONCLUSIONS

The degree of urbanization and development on and surrounding the site provides limited habitat for wildlife. The contamination on site is largely limited to a small confined area below the ground surface (Photo 1) and the Site geology and topography inhibits offsite migration of these contaminants. Moreover, the vegetated areas on site are showing no stress due to the contaminants. As such, standard soil erosion control and storm water management measures during future remediation activities should prohibit any offsite migration of contaminants.

10.0 REFERENCES

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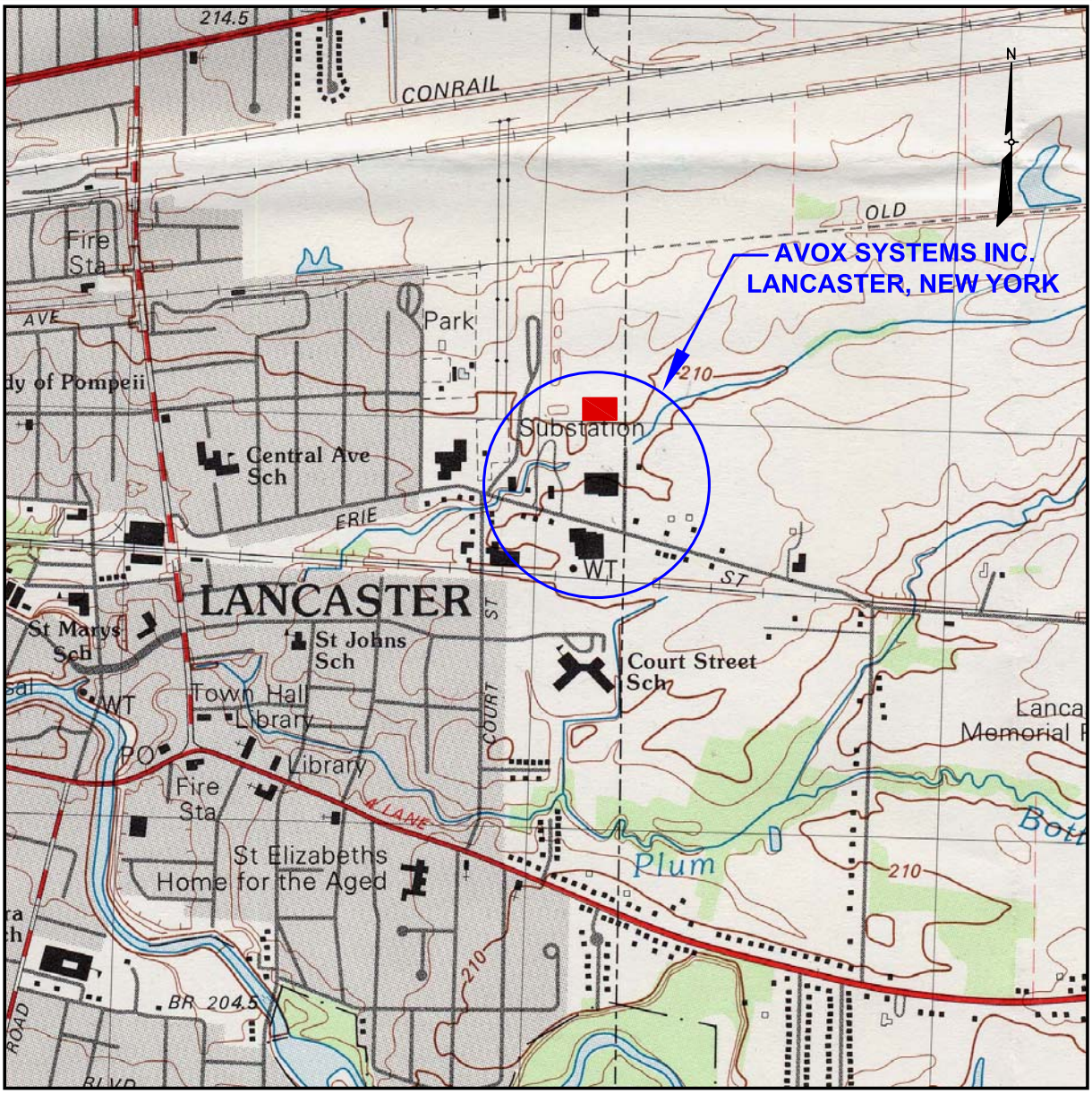
11.0 EXHIBITS

Photo 1 – Residual paint sluge within the test pit.

Photo 2 – Looking west near the Site's southern boundary. In the background note the level of development along the rail line corridor.

Photo 3 – Looking southeast at the vegetated area on Site. The grass lawns in the foreground surround an herbaceous area (comprised of an old field and emergent wetland) and small scrub/shrub wooded area. The line of trees in the background are growing along an elevated rail line (see Photo 2).

Photo 4 – Vegetation within the area of highest contaminant concentrations. Note the dense growth and good vigor exhibited by the vegetation.



SOURCE:
1982 GEOLOGIC SURVEY 7.5 X 15 MINUTE TOPOGRAPHIC QUADRANGLE
LANCASTER, NEW YORK

LEGEND

AVOX PLANT 3 ADDED AFTER PUBLICATION OF LANCASTER, NEW YORK TOPOGRAPHIC QUADRANGLE.

0 1000 2000
SCALE IN FEET

AECOM

FIGURE 1
SITE LOCATION MAP

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\71149\CADD\71149_000 Site Loc Map.dwg, 5/11/2010 9:07:50 AM, Splawnm

AVOX PLANT 3

ASPHALT PARKING LOT

ASPHALT PARKING LOT

APPROXIMATE PROPERTY BOUNDARY

MACHINERY

HYDRANT

RETAINING WALL

VENTS

HOT BOX

STORM MH

AVOX PLANT 2

RETAINING WALL

WALTER WINTER DRIVE

QUICK-CUT

HYDRANT

GRAVEL PARKING LOT

ASPHALT PARKING LOT

APPROXIMATE PROPERTY BOUNDARY

ERIE STREET

RESIDENCE

RESIDENCE

RESIDENCE GARAGE

APPROXIMATE PROPERTY BOUNDARY

ASPHALT PARKING LOT

CB

AREA 1

AVOX PLANT 1

ASPHALT PARKING LOT

CB

CB

CB

BRUSH LINE

SHED

BLOCK BUILDING

CONCRETE WALKWAY

METAL BUILDING

HAZARDOUS MATERIALS STORAGE SHED

SCOTT WATER TOWER

BLOCK BUILDING

APPROXIMATE PROPERTY BOUNDARY

N

LEGEND

- BROWNFIELD CLEANUP BOUNDARY FOR AREA 1
- FENCE
- GATE
- BRUSH LINE
- RAILROAD TRACKS
- STORM SEWER AND FLOW DIRECTION
- CB — CATCH BASIN
- 4-FT SQUARE CONCRETE MONUMENT
- INTERIM REMEDIAL MEASURE SOIL EXCAVATION AREA

0 50 100 200

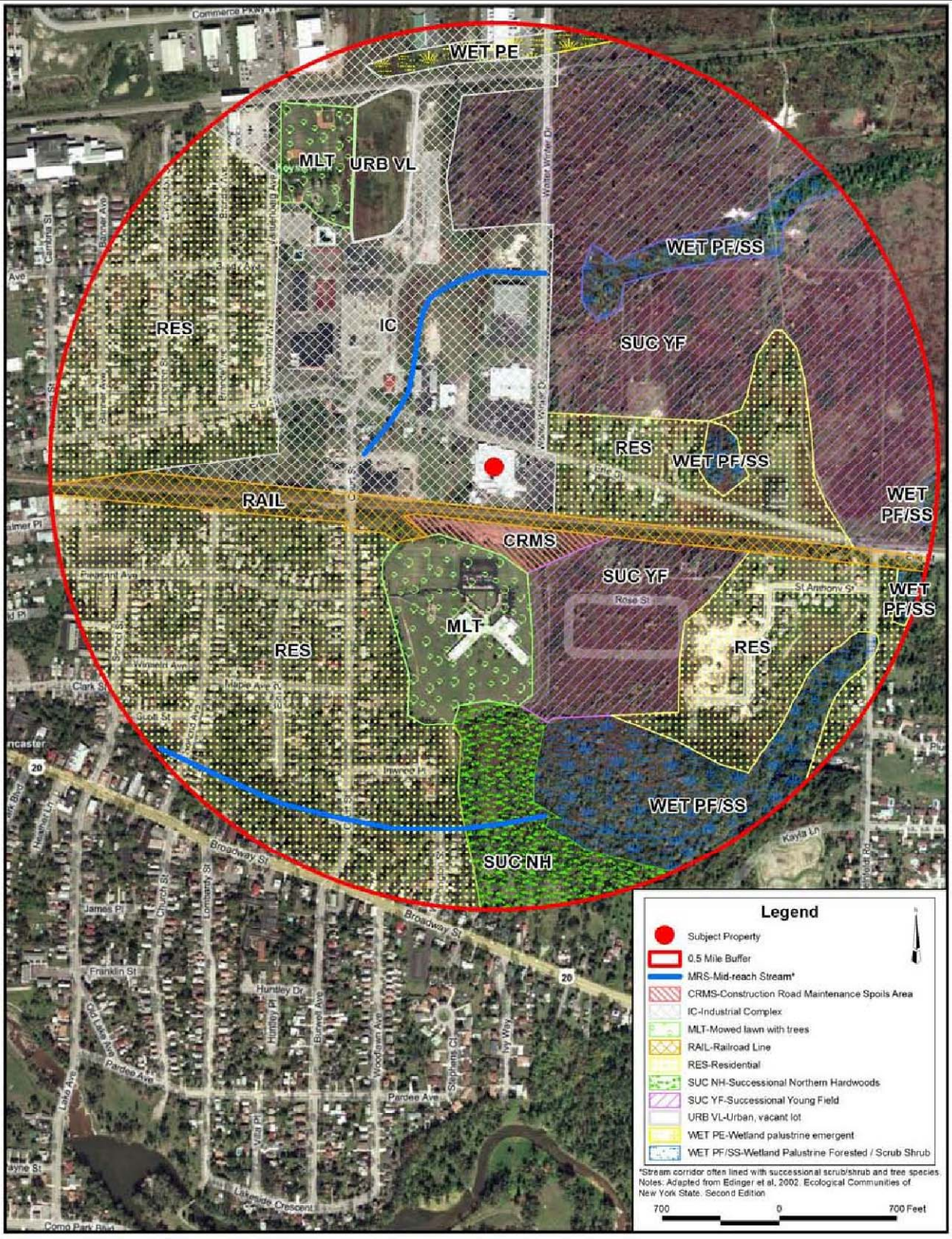
SCALE IN FEET

AECOM

FIGURE 2
FACILITY LAYOUT MAP

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_064 Facility Layout Map.dwg, 10/18/2010 5:57:54 PM, splawnm



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Greenville, SC 29615
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FIGURE 3
COVERTYPE MAP
(0.5-MILE RADIUS)

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

AECOM

FIGURE 4
AERIAL PHOTO 225 ERIE STREET AND SURROUNDING ENVIRONMENTS

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_082 Erie St and Surrounding Enviroments.dwg, 10/21/2010 6:24:21 PM, splawnm

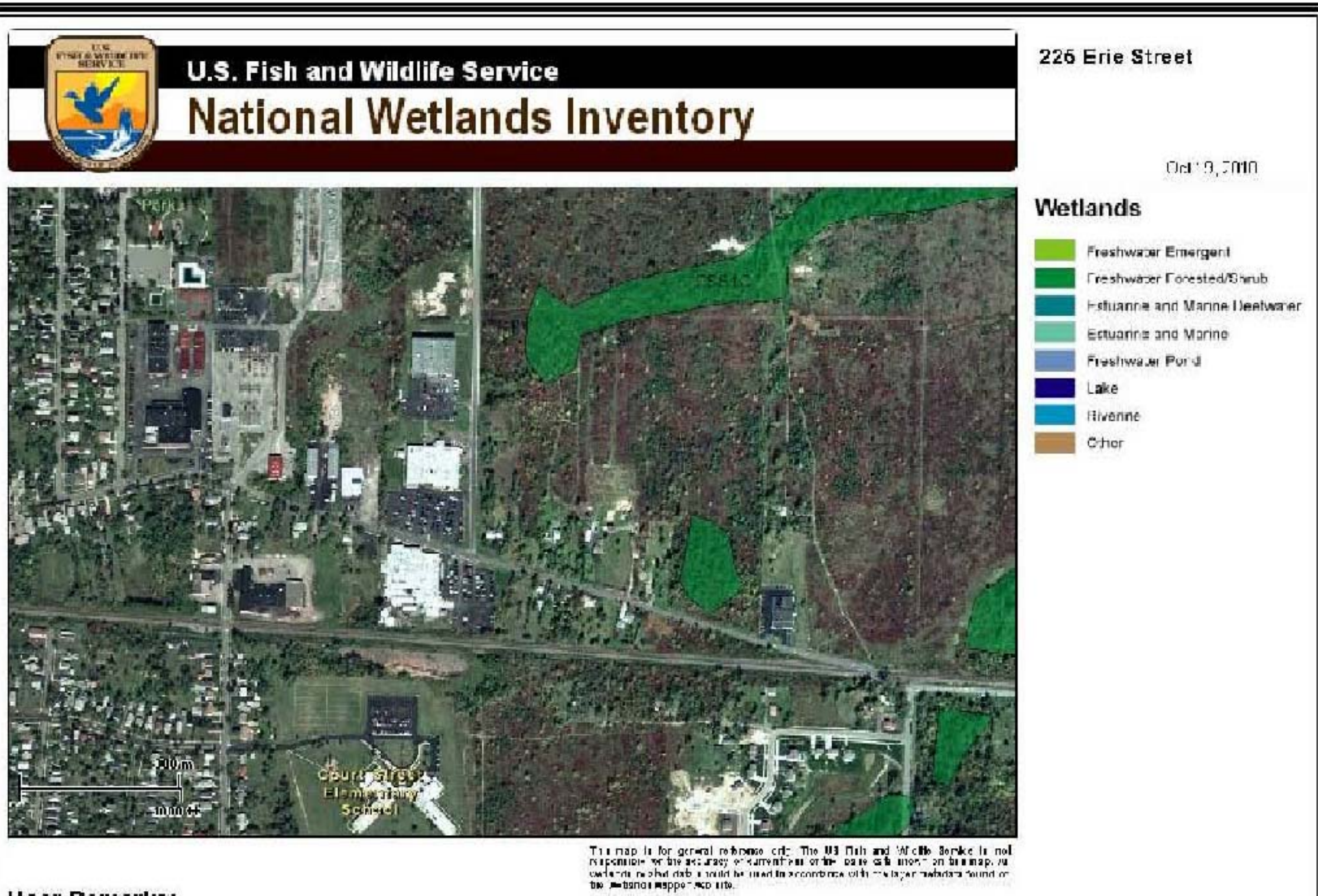

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FIGURE 5
USFWS NATIONAL WETLANDS
INVENTORY MAP

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_083 USFWS National Wetlands Inventory Map.dwg, 10/21/2010 6:12:42 PM, splawnm

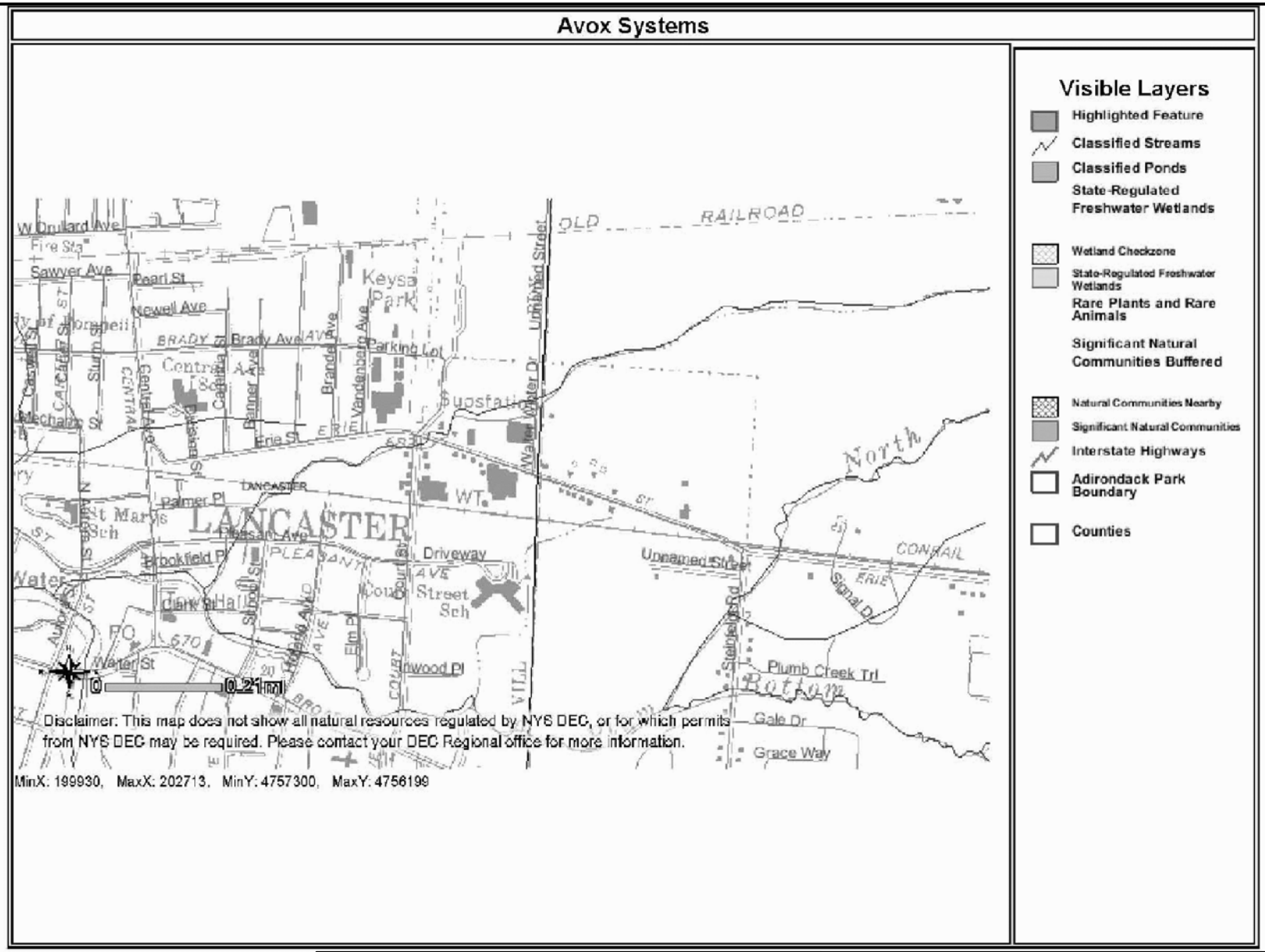

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FIGURE 6
NYSDEC ENVIRONMENTAL RESOURCE MAPPER

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

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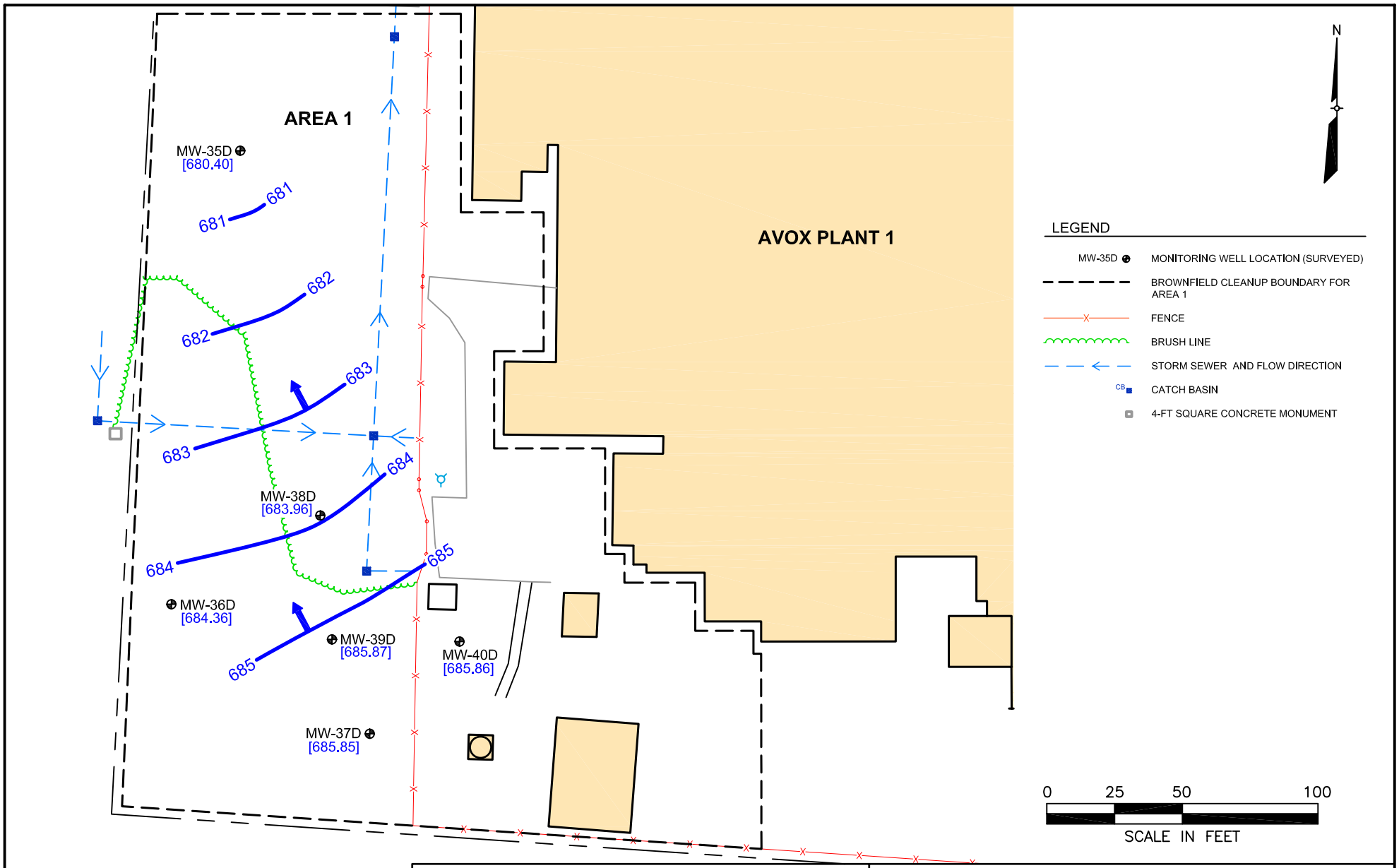
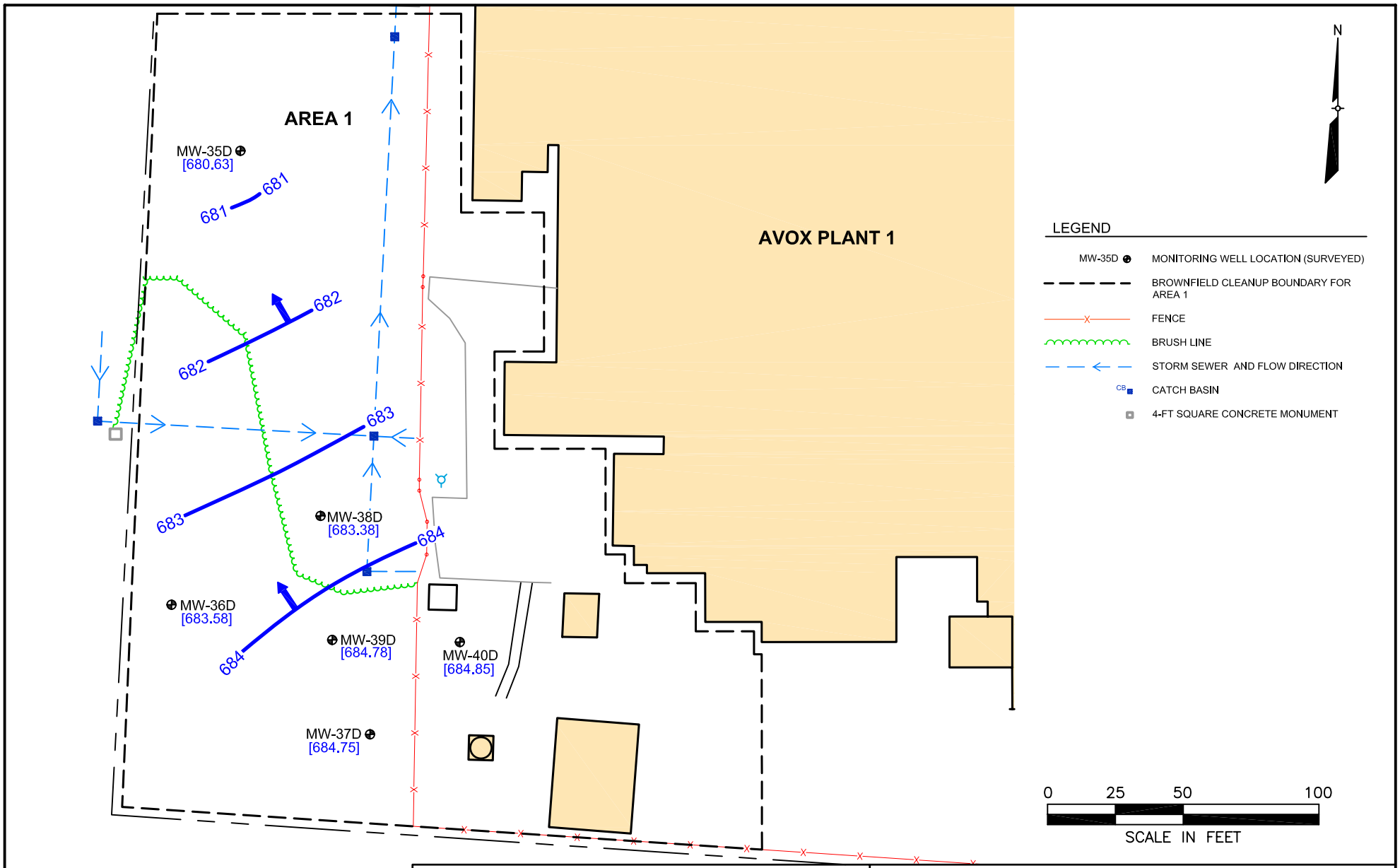


AECOM

FIGURE 7
DEEP OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS JUNE 10, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_070 Deep Overburden GW Surface Conts_June2010.dwg, 10/21/2010 6:18:59 PM, splawnm

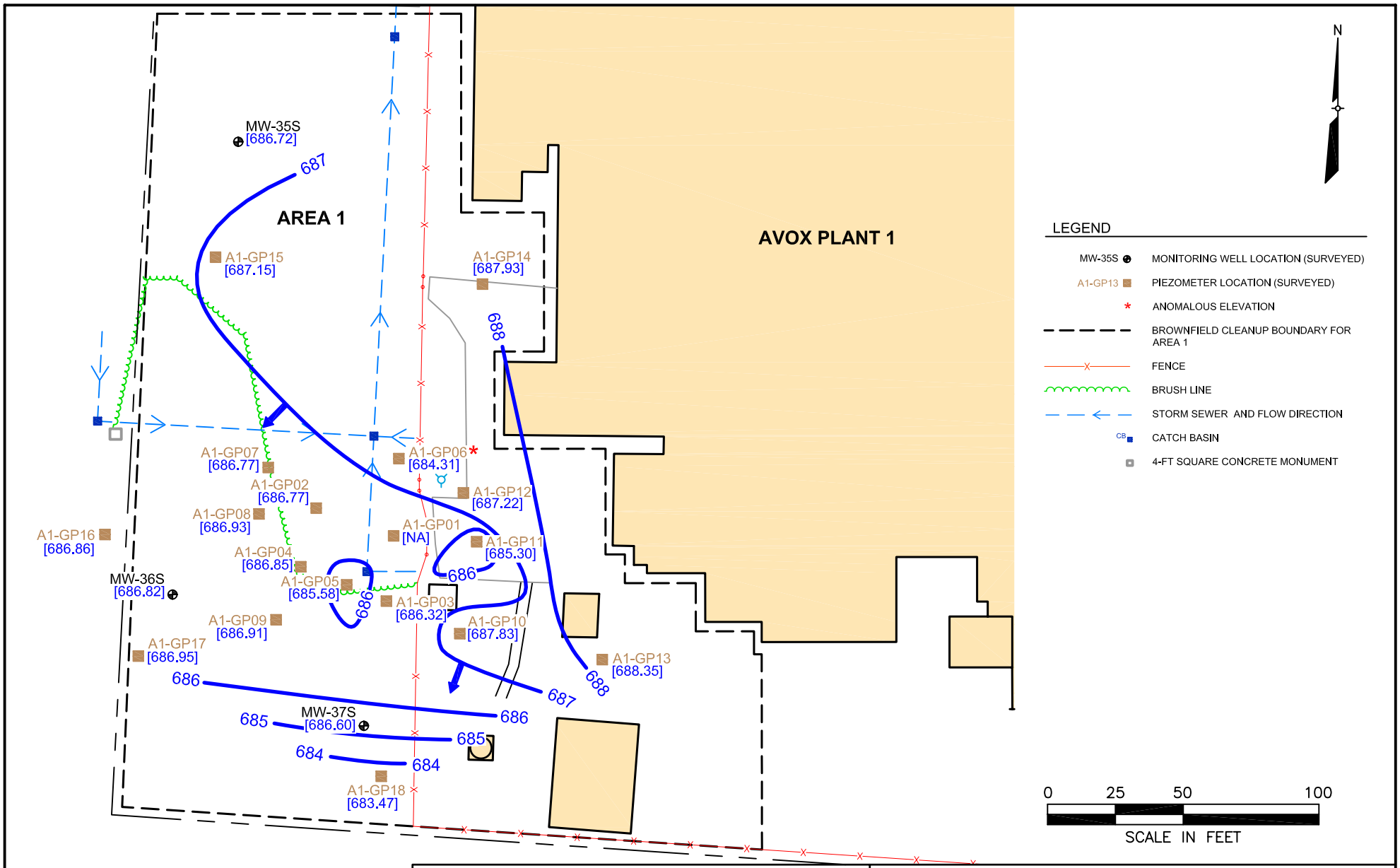


AECOM

FIGURE 8
DEEP OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS AUGUST 2, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_071 Deep Overburden GW Surface Conts_August2010.dwg, 10/21/2010 6:19:47 PM, splawnm



AECOM

FIGURE 9
SHALLOW OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS JUNE 10, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_068 Shallow Overburden GW Surface Conts_June2010.dwg, 10/21/2010 6:20:26 PM, splawnm

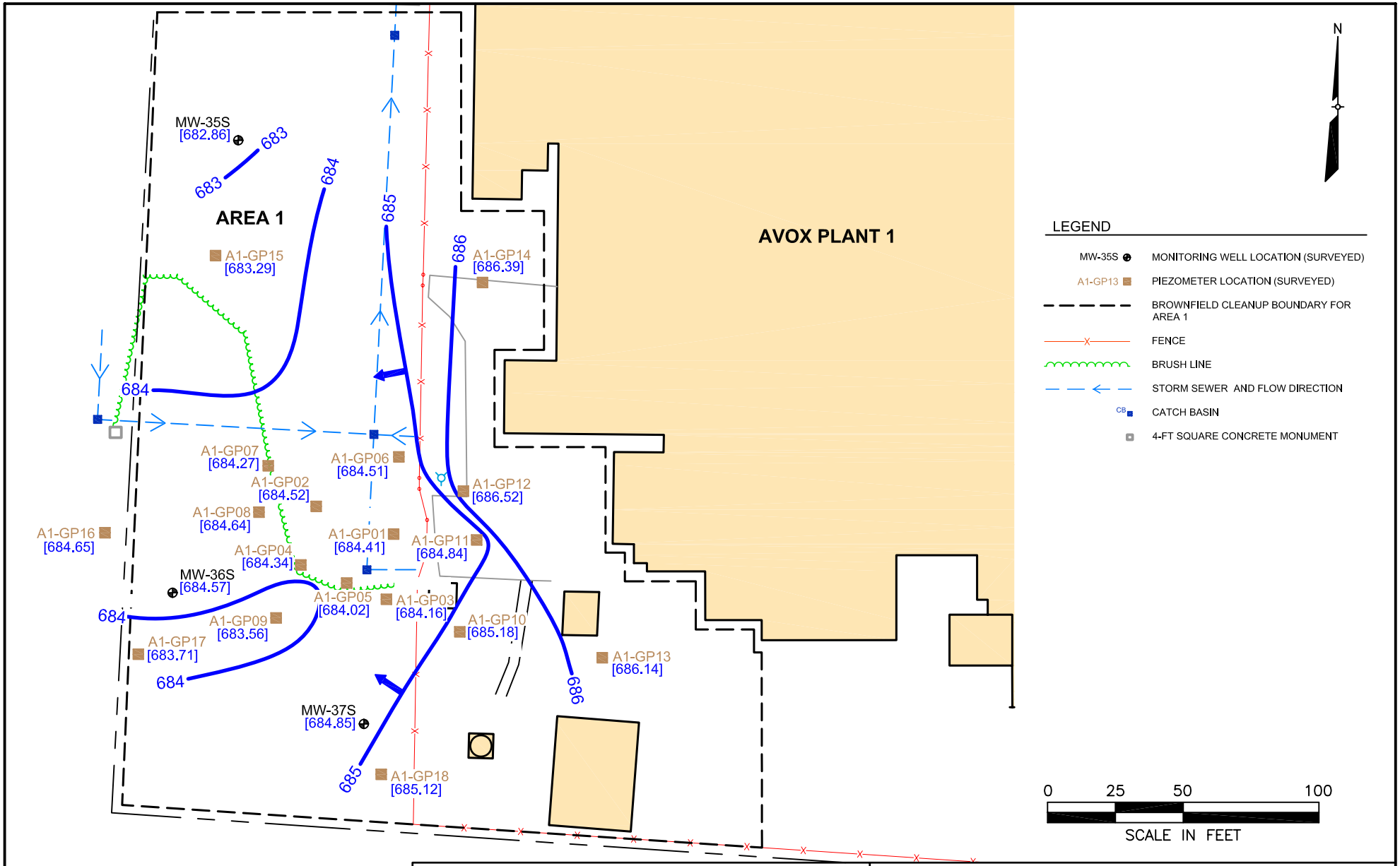


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FIGURE 10
SHALLOW OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS AUGUST 2, 2010

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

\\USGRNS01\data\work\60147012\CADD\60147012_069 Shallow Overburden GW Surface Conts_August2010.dwg, 10/21/2010 6:21:02 PM, splawnm