

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 | F: (585) 226-8139
www.dec.ny.gov

Via E-mail

August 28, 2019

Mr. Kevin Krueger, PE
Unisys Corporation
Corporate Environmental Affairs
3199 Pilot Knob Road
Eagan, MN 55121

Dear Mr. Krueger:

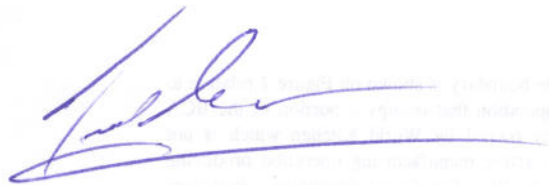
**Re: Site Characterization Work Plan Addendum #3
Former Scott Technologies Site #808049
Elmira, Chemung County**

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have reviewed "Site Characterization Work Plan Addendum #3" for the Former Scott Technologies Site #808049, updated 9 Dec 2019 and find the document to be consistent with the Department's 28 August 2019 conditional approval and inclusive of an acceptable work plan schedule.

Notice to proceed with field activities is authorized as soon as the document repository is appropriately updated.

If you have any questions, please contact me.

Sincerely,



Timothy Schneider, P.E.
Professional Engineer 1

P. Brookner
A. Krasnopoler
D. Pratt
M. Cruden
D. Hettrick
J. Deming



Department of
Environmental
Conservation

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3199 Pilot Knob Road
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Dear Mr. Krueger:

**Re: Site Characterization Work Plan Addendum #3
Former Scott Technologies Site #808049
Elmira, Chemung County**

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have completed the review of "Site Characterization Work Plan Addendum #3" for the Former Scott Technologies Site #808049, dated 20 December 2018 and approve contingent upon the following:

1. Figures are appropriately titled for the 0.17 to 2-ft. below ground soil sampling interval.
2. PAHs in excess of 100 ppm are delineated vertically (below 2')
3. Surface and shallow soil samples are delineated to residential use SCOs.

Please provide the requested information and an updated work plan schedule within 20 days. Additionally, a copy of the work plan, this approval and the updated schedule must be placed in the document repository for the site before proceeding with work.

Sincerely,

Timothy Schneider, P.E.
Professional Engineer 1

P. Brookner
A. Krasnopoler
B. Schilling
M. Cruden



Department of
Environmental
Conservation

9 December 2019

Mr. Timothy Schneider
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-9519

**Subject: Site Characterization Work Plan Addendum #3
Former Scott Technologies Site (#808049)
1051 South Main Street, City of Elmira, Chemung County, NY**

Dear Mr. Schneider:

On behalf of Unisys Corporation (Unisys), Geosyntec Consultants, Inc. and its New York engineering affiliate, Beech and Bonaparte Engineering, P.C. (collectively, Geosyntec) are submitting this Addendum #3 to the Site Characterization Work Plan (SC Work Plan) for the Former Scott Technologies Site (Site #808049) (Site) in Elmira, New York. Unisys has been conducting Site Characterization (SC) activities at the Site in accordance with an Order on Consent and Administrative Settlement (Order) with New York State Department of Environmental Conservation (NYSDEC or agency) dated 16 July 2014, the SC Work Plan dated 5 December 2014 and subsequent SC Work Plan Addendum #1 (Addendum #1) dated 1 August 2016 and SC Work Plan Addendum #2 (Addendum #2) dated 3 March 2017. The objective of this SC Work Plan addendum is to delineate constituents of potential concern (COPCs) in soils, addressing data gaps identified following implementation of Addendum #2. This Addendum # 3 has been revised in response to agency comments received on 28 August 2019 (Attachment 1) and additional comments received by electronic mail on 21 November 2019.

BACKGROUND

The Site is located at 1051 South Main Street in Elmira, Chemung County, New York (see **Figure 1**) and is currently occupied by Southern Tier Commerce Center (STCC). A Preliminary Site Assessment (PSA) for the entire Former Sperry Remington Site was completed in 1988 on behalf of Unisys and submitted to NYSDEC (Dames & Moore, 1988). The Site has been the subject of additional environmental investigations between 1992 and 2012. In June 2013, NYSDEC identified potential areas of concern (PAOCs) at the Site based on new information related to historical use of the property and previous environmental investigations results.

Scott Technologies Inc. (STI), a former owner of the Site, entered into a Voluntary Cleanup Agreement with NYSDEC in January 1999 to conduct investigation and remedial activities at the Site. Prior actions included the removal of four (4) registered underground storage tanks (USTs) in 1993 (Versar, 1993) and voluntary investigations. STI conducted a voluntary remedial action between October 1999 and March 2000 (URS, 2000) that included removal and disposal of low voltage PCB capacitors, cleaning or

decommissioning of tanks/vessels, concrete clarification chambers or above ground storage tanks (ASTs), and excavation of polycyclic aromatic hydrocarbons (PAHs) in soil. PAHs in soils identified as exceeding the NYSDEC-approved cleanup goal total PAH concentration of less than or equal to 100 milligrams per kilogram (mg/kg) were excavated to depth of up to three (3) feet in areas north and east of Building 88 as shown on **Figure 2**. The total excavated area was approximately 0.75 acres. Supplemental investigation of the holding pond on the north side of the Site was conducted in 2002 (URS, 2002). Remedial activities for the holding pond were deemed unnecessary by NYSDEC due to a determination of low risk to wildlife and human health as documented in the 2004 NYSDEC fact sheet for the voluntary cleanup (NYSDEC, 2004). Holding pond sediments were identified as a PAOC by NYSDEC in June 2013.

STI conducted an additional voluntary remedial action in the former recreation area (FRA) in October 2004 following pre-characterization of soils in March 2004. The constituents of potential concern (COPCs) and approved clean up goals by NYSDEC for the FRA relevant to this Site Characterization were lead (1,000 mg/kg) and total PAHs (100 mg/kg). Shallow soils were excavated to depths of two (2) to eight (8) inches as shown on **Figure 2**. Approximately eighty-six (86) tons of hazardous fill material and one hundred and four (104) tons of non-hazardous fill material were excavated and transported off-Site for appropriate disposal. Deed restrictions were filed with Chemung County Clerk's Office in July 2005 that limited potential future use of the Site to commercial or industrial uses with the exception of day care facilities and also required maintenance of the vegetative cover. In August 2005, STI submitted a Site Management Plan (SMP) for the FRA that described procedures for excavation and maintenance of the existing vegetative cover, fencing and signage. The SMP was approved by NYSDEC in correspondence dated 13 October 2005. Voluntary cleanup activities at the Site were declared by NYSDEC to have been satisfactorily completed in October 2006.

In May 2017, Unisys reached an agreement with STCC to use a portion of the Site located south of Building 88 as a Material Staging Area (MSA) to stockpile soils excavated as part of an interim remedial measures (IRMs) conducted on the Former Sperry Remington Site – North Portion (NYSDEC #c808022) as shown on **Figure 2**. It is anticipated that the MSA will be decommissioned by May 2020.

PREVIOUS SITE CHARACTERIZATION ACTIVITIES

Previous Site Characterization activities included inspection of the former combined industrial sewer, soil investigation, groundwater investigation, and holding pond investigation. Surface (zero to two [0-2] inches below ground surface [bgs]) and shallow subsurface (two to twenty-four [2-24] inches bgs) soil samples were collected to characterize PAOCs not addressed by previous investigations and voluntary actions. Soil analytical results were compared to NYSDEC-approved cleanup goals for previous voluntary remedial actions at the STCC facility and the FRA. Previously approved cleanup goals for the voluntary remedial actions conducted by STI are applicable and relevant for consistency with prior actions at the Site. Those

criteria are total PAH¹ concentrations equal to or less than one hundred (100) mg/kg for the STCC facility and the FRA and lead concentrations equal to or less than one thousand (1,000) mg/kg for the FRA. For COPCs that are the focus of this Site Characterization where cleanup goals were not previously established, screening criteria are Soil Cleanup Objectives (SCOs) presented in 6 NYCRR Subpart 375 as appropriate based on current and potential land use. The current land use of the STCC facility and surrounding areas is considered to be industrial. The area outside the fenced portion of the FRA to the southwest is adjacent to residential properties. As discussed with NYSDEC and the New York State Department of Health (NYSDOH), residential screening criteria are also relevant to unfenced areas south of Building 88 that are adjacent to residential properties. Screening criteria, including NYSDEC SCOs and previous voluntary remedial action cleanup goals, are not being presented as cleanup goals for the Site. Cleanup goals will be proposed for IRMs or as part of a remedy selection process, as necessary.

PCB, PAH and metal COPCs were detected in soils above screening criteria, as noted above, were identified in the unfenced area south of Building 88 and the FRA. COPCs were not detected above screening criteria within the fenced areas east and north of Building 88. Additional soil investigations were conducted under Addendum #1 and Addendum #2 between 7 September and 16 September 2016 and between 18 and 19 May 2017, respectively. Validated analytical results are presented in **Tables 1** and **2** for soil samples collected to date in the unfenced areas south of Building 88 and outside of the fenced area of the FRA, respectively. The extent of COPC exceedances in surface and shallow subsurface soils in those unfenced areas are presented in **Figures 3A/D, 4A/D** and **5A/B**, respectively, for PCBs, PAHs and metals and include the following:

- Concentrations of total PCBs in surface soils south of Building 88 exceeded the Industrial SCO of twenty-five (25) mg/kg as shown in **Figure 3A** but not in shallow subsurface soils as shown in **Figure 3B**;
- Concentrations of total PCBs in surface soils and shallow subsurface soils south of Building 88 exceeded the Residential SCO of one (1) mg/kg as shown in **Figure 3C** and **3D**, respectively;
- Concentrations of total PAHs in surface and shallow subsurface soils south of Building 88 exceeded the previously approved cleanup goal of one hundred (100) mg/kg as shown in **Figures 4A** and **4B**, respectively;
- Concentrations of total PAHs in surface and shallow subsurface soils south of Building 88 exceeded Residential SCOs as shown in **Figures 4C** and **4D**, respectively;

¹ Total PAH concentrations: sum of naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, debenzo(a,h)anthracene, and benzo(g,h,i)perylene based on PAHs reported for confirmatory samples collected during the voluntary remedial action conducted by STI in 1999-2000.

- Concentrations of metals in surface and shallow subsurface soils south of Building 88 exceeded Residential SCOs for barium, total chromium, copper, and lead as shown in **Figures 5A** and **5B**, respectively. Concentrations of metals in surface and shallow subsurface soils south of Building 88 did not exceed Industrial SCOs as shown on **Tables 1** and **2**; and
- Concentrations of metals, including hexavalent chromium, in surface and shallow subsurface soils outside the fenced area of the FRA did not exceed Residential SCOs as shown in **Figures 5A** and **5B**, respectively, bounding the previously detected exceedance of metal COPCs in surface soil shown in **Figure 5A**.

PROPOSED SCOPE OF WORK

Additional delineation of COPCs in soils is recommended in the area south of Building 88 and outside the fenced portion of the FRA to address data gaps in horizontal and vertical delineation. Site Characterization data may be used to design potential IRMs. The proposed scope for soil investigation will include:

- Additional horizontal delineation of PCBs in surface soil (0-2 inches) in the vicinities of STI-B27, STI-B34, STI-B35, STI-B36, STI-B37 and STI-B49 where PCB concentrations exceeded the Residential SCO of one (1) mg/kg as shown in **Figure 3C**;
- Additional horizontal delineation of PCBs in shallow subsurface (2-24 inches) soil in the vicinity of STI-B27 and STI-B37 where PCB concentrations where PCB concentrations exceeded the Residential SCO of one (1) mg/kg as shown in **Figure 3D**;
- Vertical delineation of PCBs below two (2) ft bgs at STI-B27 and STI-B37 as shown in **Figure 3B**;
- Additional horizontal delineation of PAHs in surface soil (0- 2 inches) in the vicinity of STI-B56, STI-B57, STI-B58, STI-B59, STI-B60, STI-B61, STI-B62, and STI-B63 which had PAH concentrations greater than Residential SCOs as shown in **Figure 4C**;
- Additional horizontal delineation of PAHs in surface soil (0-2 inches) in the vicinity of STI-B43, STI-B51, STI-B53, STI-B54 and STI-B55 which had PAH concentrations greater than Residential SCOs as shown in **Figure 4C**;
- Additional horizontal delineation of PAHs in surface soil (0-2 inches) in the vicinity of STI-B26, STI-B27 and STI-B28 which had PAH concentrations greater than Residential SCOs as shown in **Figure 4C**;
- Additional horizontal delineation of PAHs in shallow subsurface soil (2-24 inches) in the vicinity of STI-B24, STI-B40, STI-B41, STI-B56, and STI-B62 which had total PAH concentrations greater Residential SCOs as shown in **Figure 4D**;

- Additional horizontal delineation of PAHs in shallow subsurface soil (2-24 inches) in the vicinity of STI-B42, STI-B43, STI-B44, and STI-B45 which had total PAH concentrations greater than Residential SCOs as shown in **Figure 4D**;
- Additional horizontal delineation of PAHs in surface soil (2-24 inches) in the vicinity of STI-B26, STI-B27 and STI-B28 which had PAH concentrations greater than Residential SCOs as shown in **Figure 4D**;
- Vertical delineation of PAHs below two (2) ft bgs in the vicinity of STI-B24, STI-B62, STI-B41 and STI-B56 which had total PAH concentrations greater than one hundred (100) ppm as shown in **Figure 4B**;
- Additional horizontal delineation of metals including hexavalent chromium in surface soil (0-2 inches) in the vicinity of STI-B24 and STI-B29 which had metals concentrations exceeding Residential SCOs as shown on **Figure 5A**;
- Additional horizontal delineation of metals including hexavalent chromium in shallow subsurface soil (2-24 inches) in the vicinity of STI-B24, STI-B28 and STI-B30 which had metals concentrations exceeding residential criteria as shown on **Figure 5B**; and
- Vertical delineation of metals including hexavalent chromium i below two (2) ft bgs in the vicinity of STI-B24, STI-B28 and STI-B30 which had total metals concentrations exceeding Residential SCOs as shown in **Figure 5B**; and
- Additional horizontal delineation to residential SCO's of metals including hexavalent chromium in surface soil (0-2 inches) outside the fenced portion of the FRA as shown in **Figure 5A**.

Proposed primary soil sample locations are presented on **Table 3** for each investigation area with sampling intervals. Soil samples will be collected to address identified data gaps in horizontal and vertical delineation. Soil boring locations are shown on **Figure 6** with boring depths. Soil borings will be advanced using direct push technology (DPT) or hand augering (where appropriate or necessary) in accordance with the SC Work Plan's Quality Assurance Project Plan/Field Sampling Plan (QAPP/FSP). Surface soil samples will be collected from the soil interval 0-2 inches bgs. Shallow subsurface soil samples will be collected from the soil interval 2-24 inches bgs. Subsurface soil samples will be collected from the 2-4 ft bgs interval for vertical delineation. Soil samples will be submitted to a fixed laboratory for COPC analyses with a standard ten-day (10-day) turnaround time (TAT) in accordance with the QAPP/FSP. Select samples will be held for analyses pending receipt of initial unvalidated results as shown on **Table 3**.

QUALITY ASSURANCE

Sample handling, including sample custody and sample control, will be conducted in accordance with the QAPP/FSP. Quality control samples, including field duplicates, matrix spike/matrix spike duplicates, trip blanks, and equipment blanks, will be collected at the frequency specified in the QAPP/FSP.

HEALTH AND SAFETY

A Site-specific Health and Safety Plan (HASP) was presented in the SC Work Plan. Each contractor will be required to prepare a project-specific HASP in accordance with DER-10 to be followed during implementation of the field program.

IDM MANAGEMENT

Solid investigation-derived material (IDM) that will be generated may include disposable personal protection equipment (PPE), disposable sampling equipment, and excavated material. Liquid IDM that will be generated will consist of water generated during decontamination of field equipment. Solid and liquid IDM will be stored in on-site fifty-five (55) gallon drums for waste characterization (if necessary) and appropriate off-site disposal in accordance with the QAPP/FSP.

SCHEDULE AND DELIVERABLES

A project schedule is provided in **Table 4**. Unisys will commence the implementation of this SC Work Plan Addendum upon receipt of written approval by NYSDEC, weather permitting and pending access granted by the property owner. Completion of the work will be dependent on weather conditions and access. Once initiated, Unisys anticipates that soil sample collection will take approximately two (2) days to complete. Samples will be analyzed on ten-day (10-day) TAT and will be reviewed upon receipt. Samples on hold for analysis will be released for analyses as indicated by the unvalidated results.

Unisys will provide NYSDEC with unvalidated laboratory analytical reports in monthly progress reports following receipt from the laboratory. Summary tables and maps of unvalidated soil and groundwater results will be provided to NYSDEC and NYSDOH following receipt of all analytical data. Data validation will begin upon receipt of all analytical data packages.

Validated results will be presented in a Shallow Soil IRM Work Plan to address COPCs in unfenced areas south of Building 88 and outside the fenced portion of the FRA. Pending agency approval, IRM construction is anticipated in Spring 2020 in coordination with MSA decommissioning.

Site Characterization and IRM activities will be documented in a Site Characterization Report.

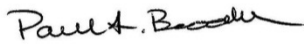
Mr. Timothy Schneider
9 December 2019
Page 7

CLOSING

Geosyntec appreciates the opportunity to submit this work plan to the NYSDEC and NYSDOH. If you have any questions, please contact Mr. Kevin Krueger of Unisys at (651) 687-2210.

Sincerely,

Geosyntec Consultants, Inc.



Paul Brookner
Senior Principal/Project Director
Geosyntec Consultants, Inc.



Aron Krasnopoler, Ph.D., P.E.
Project Engineer/Project Manager
Beech and Bonaparte Engineering P.C.

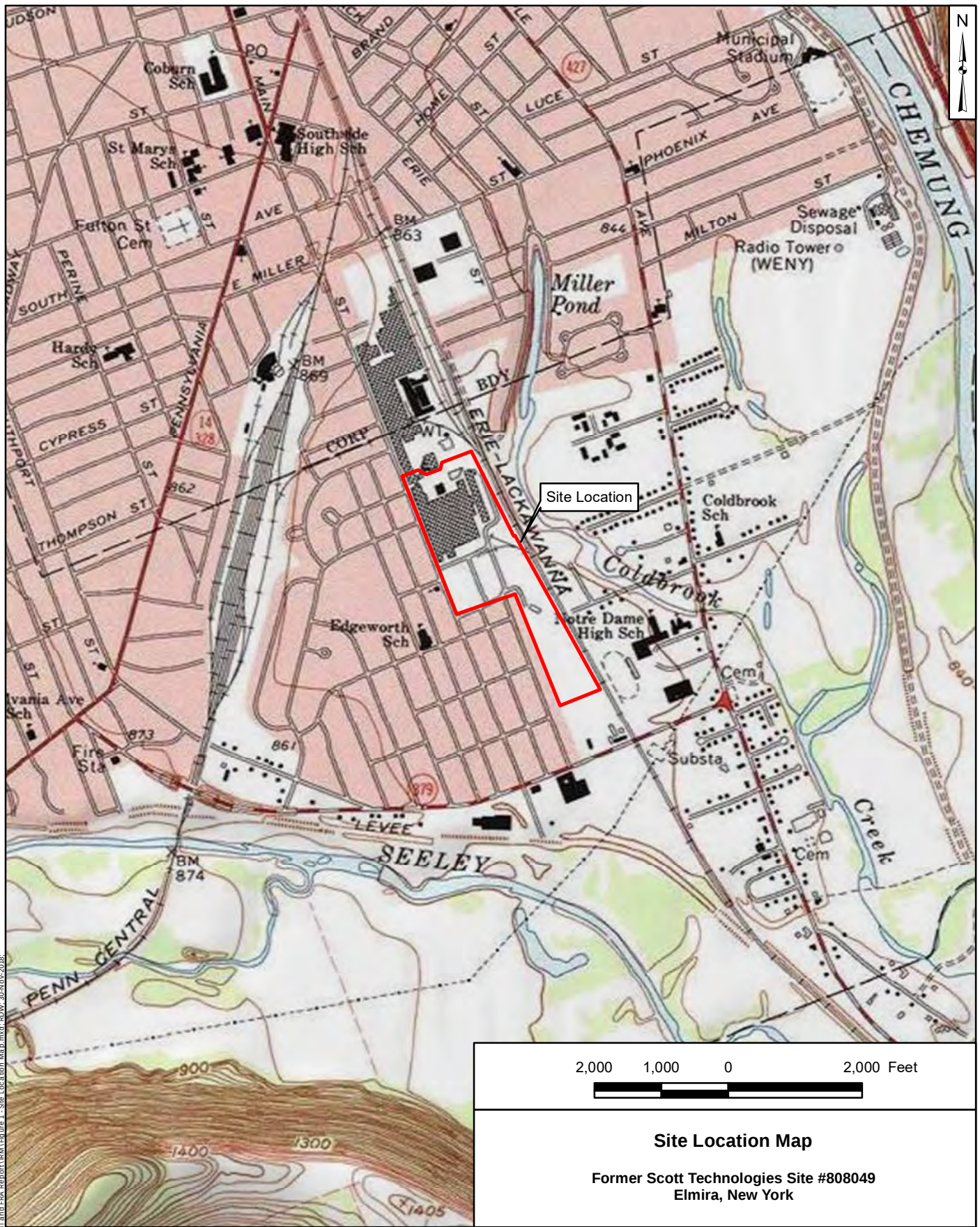
Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Site Map
- Figure 3A – Total PCBs in Surface Soils (0-0.17 ft bgs) Compared to Industrial SCO
- Figure 3B – Total PCBs in Shallow Subsurface Soils (0.17-2 ft bgs) Compared to Industrial SCO
- Figure 3C – Total PCBs in Surface Soils (0-0.17 ft bgs) Compared to Residential SCO
- Figure 3D – Total PCBs in Shallow Subsurface Soils (0.17-2 ft bgs) Compared to Residential SCO
- Figure 4A – Extent of Screening Criteria Exceedances for PAHs in Surface Soil (0-0.17 ft bgs)
- Figure 4B – Extent of Screening Criteria Exceedances for PAHs in in Shallow Subsurface Soil (0.17-2 ft bgs)
- Figure 4C – Extent of Screening Criteria Exceedances of Residential SCOs for PAHs in in Surface Soil (0-0.17 ft bgs)
- Figure 4D – Extent of Screening Criteria Exceedances of Residential SCOs for PAHs in in Shallow Subsurface Soil (0.17-2 ft bgs)
- Figure 5A – Extent of Screening Criteria Exceedances for Metals in Surface Soil (0-0.17 ft bgs)
- Figure 5B – Extent of Screening Criteria Exceedances for Metals in in Shallow Subsurface Soil (0.17-2 ft bgs)
- Figure 6 - Proposed Soil Boring Locations
- Table 1 – Summary of Analytical Result for Soils South of Building 88
- Table 2 – Summary of Analytical Result for Soils Outside of FRA Fence
- Table 3 – Proposed Soil Sampling
- Table 4 – Project Schedule
- Attachment 1 – NYSDEC Correspondence

Mr. Timothy Schneider
9 December 2019
Page 8

Copies to:	Bernette Schilling, NYSDEC	Adam Meinstein, STCC
	Benjamin Conlon, NYSDEC	Kevin Murphy, Wladis Law Firm
	Dawn Hettrick, NYSDOH	Kevin Krueger, Unisys
	Michael Cruden, NYSDEC	Beth Parker Unisys
	Heidi Dudek, NYSDEC	Michael G. Murphy, Beveridge & Diamond

FIGURES



Notes:

Topographic map accessed via ArcGIS Online and provided by National Geographic Society and i-cubed on 30 November 2018. Elmira, New York Quadrangle (1971, photorevised 1976) is shown.

2,000 1,000 0 2,000 Feet

Site Location Map

Former Scott Technologies Site #808049
Elmira, New York

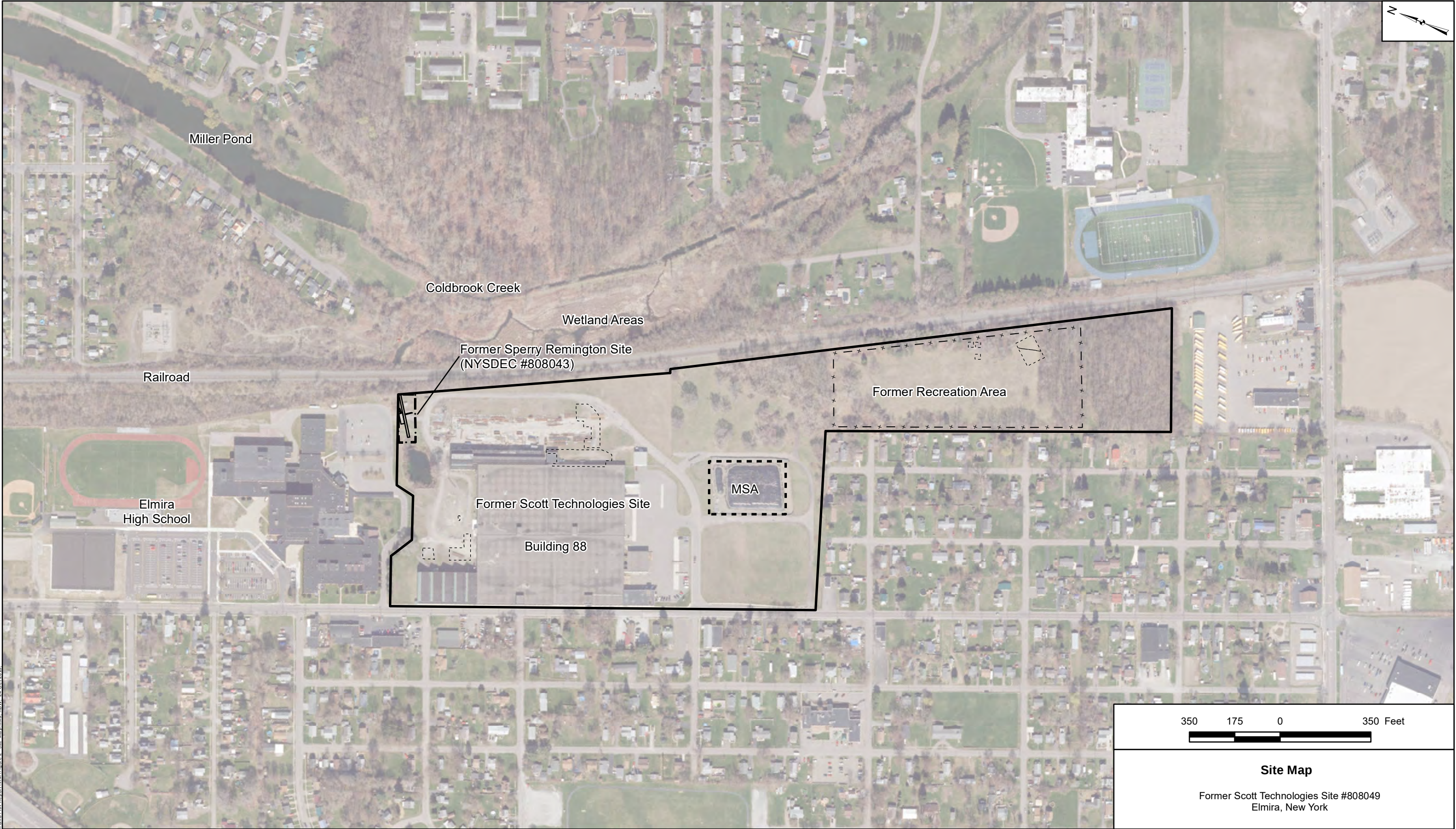
Geosyntec
consultants

Figure

1

Columbia, Maryland

October 2019



P:\GIS\Elmira - M00824 Map\151 and FRA Report\151\Figure 2 - Site Map.mxd; RDW: 24-Oct-2019

Legend

- - - Site Boundary - Former Sperry Remington
- - - Site Boundary - STCC
- - - Approximate Areas of Excavation
- x - FRA Fence
- - - MSA

Notes

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 24 October 2019. Image is dated 2 June 2010.
FRA - Former Recreation Area
MSA footprint is approximate.

350 175 0 350 Feet

Site Map

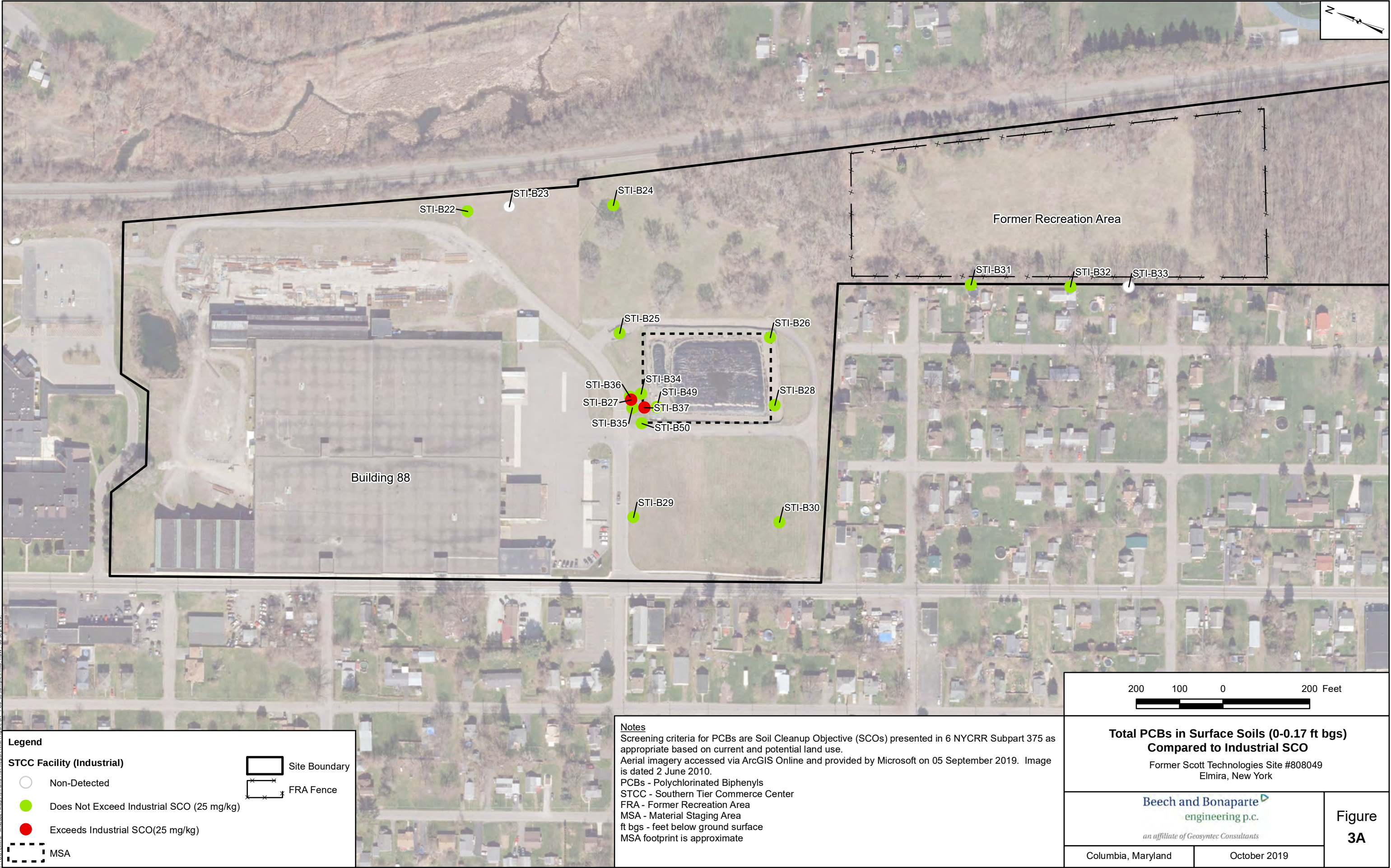
Former Scott Technologies Site #808049
Elmira, New York

Geosyntec
consultants

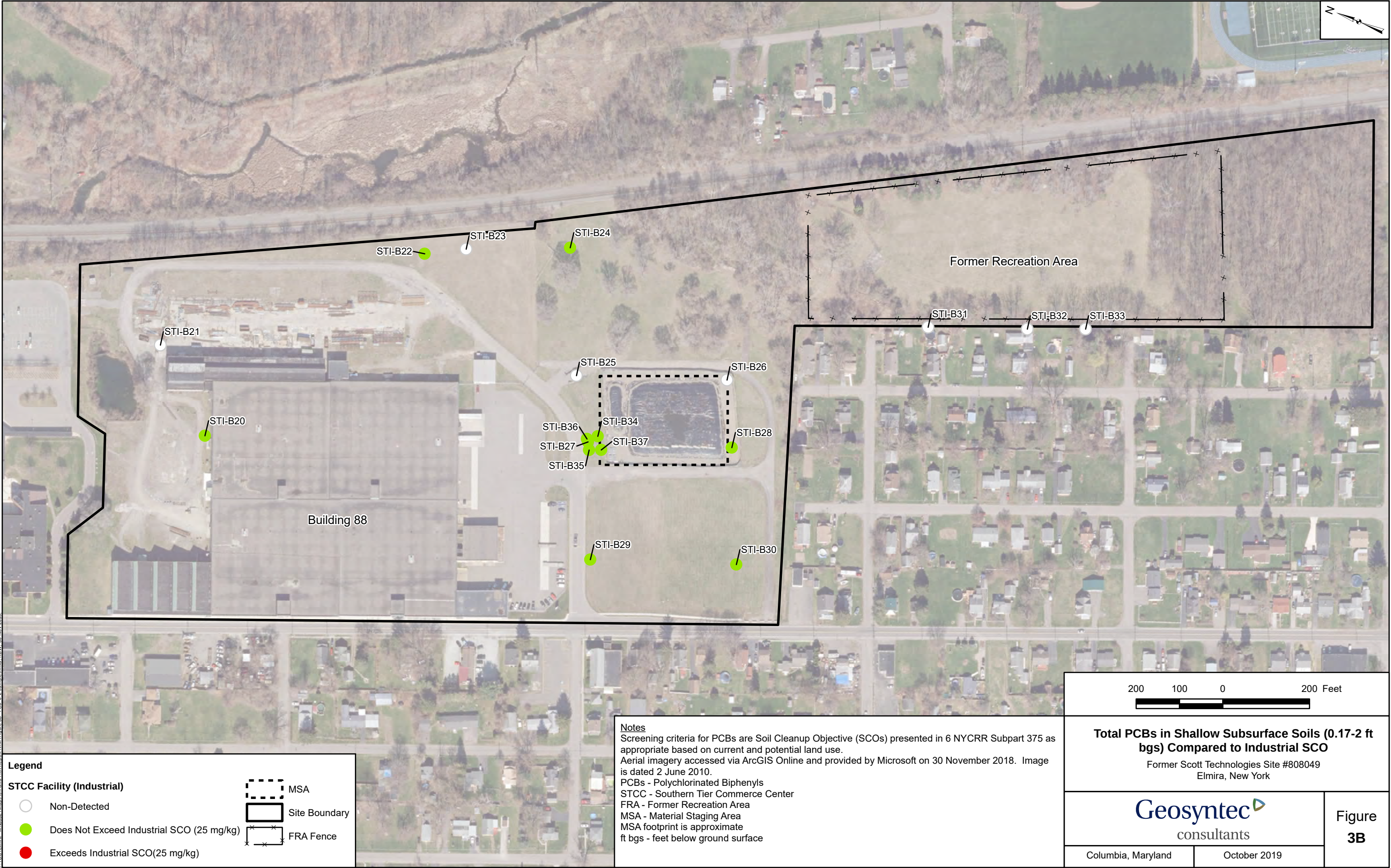
Columbia, Maryland

October 2019

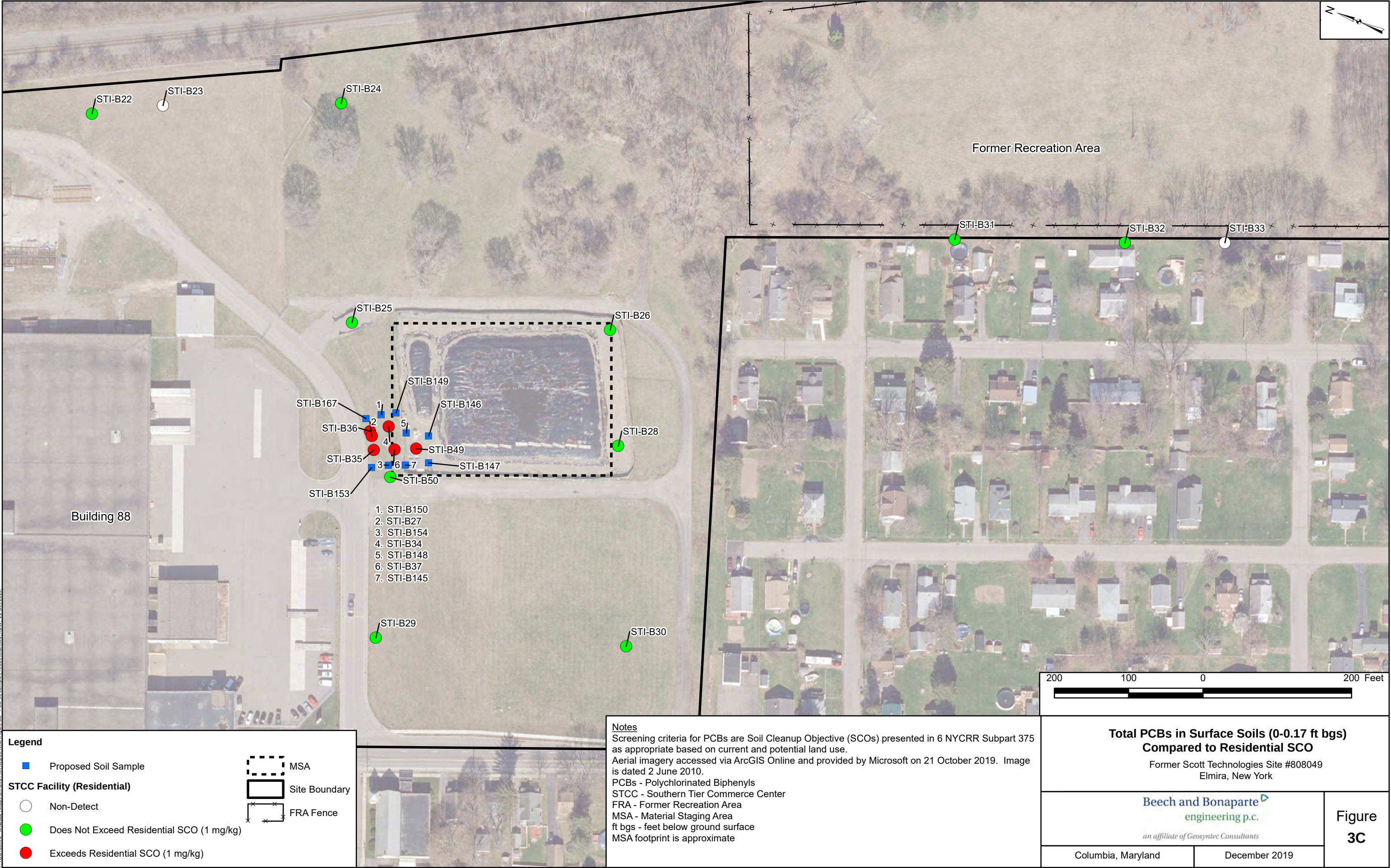
**Figure
2**



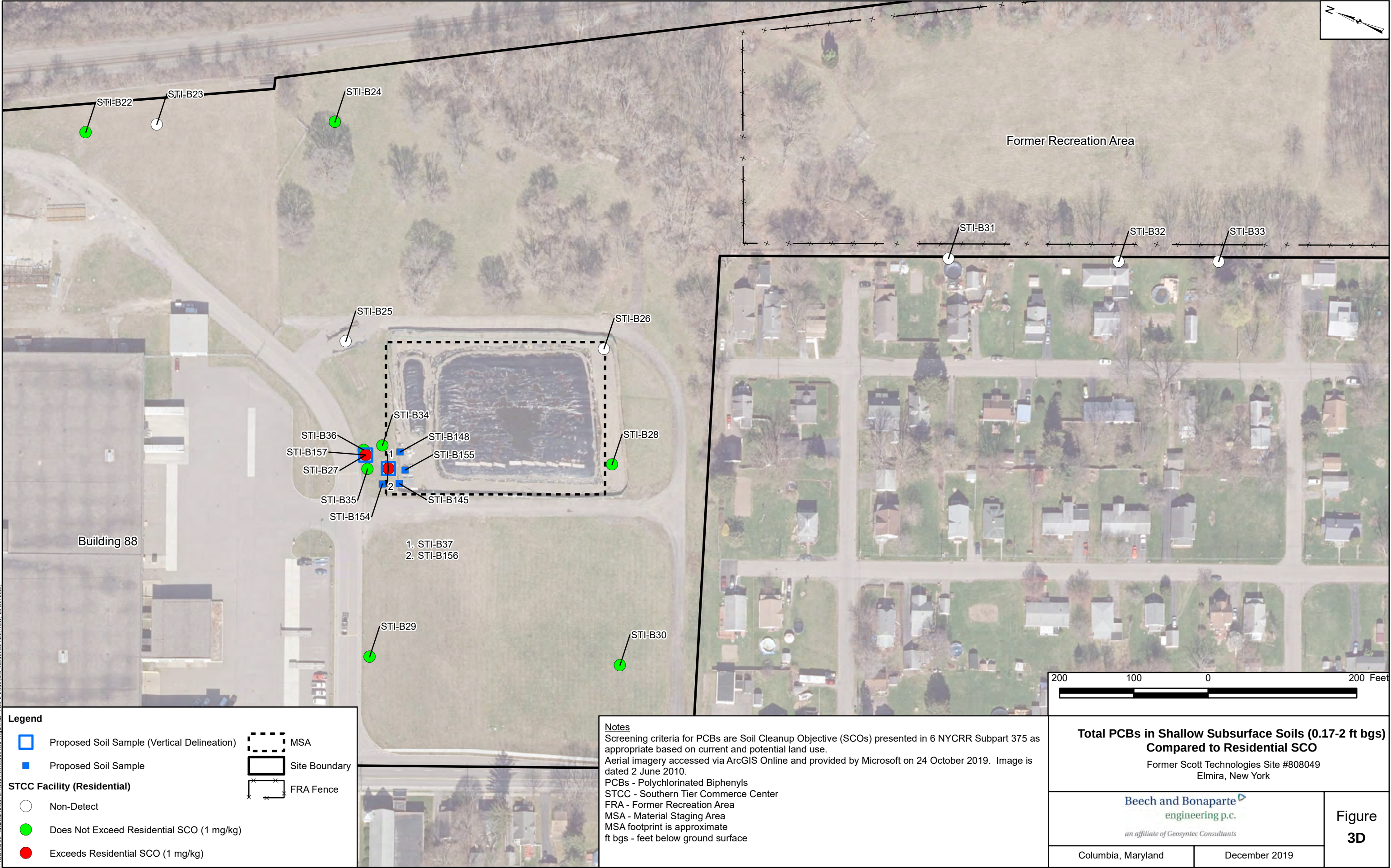
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FIGS/Elmira - M00802 Map of STI and FRA Report VLM/Elmira SC - PCB SS Samples residential.mxd RDW: 21 Oct 2019.



P:\GIS\Elmira - MNO\8082 Maps\STI and FRA Report\ElmFigure 3D - PCB 0.25 samples Residential.mxd RDW: 24-Oct-2019



Legend

Total PAHs Concentration

Non-Detect

0-100 mg/kg

> 100mg/kg

Site Boundary

FRA Fence

MSA

Notes and Disclaimer

Screening criteria for the STCC facility and the FRA are the previously approved cleanup goals for voluntary remedial actions (total PAHs less than or equal to 100 mg/kg). See text for details. Areas of concern georeferenced from PDF drawings provided by New York State Department of Environmental Conservation (NYSDEC). Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided. MSA footprint is approximate

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 21 October 2019. Image is dated 2 June 2010.

STCC - Southern Tier Commerce Center

FRA - Former Recreation Area

PAHs - polycyclic aromatic hydrocarbons

ft bgs - feet below ground surface

MSA - Material Staging Area

2001000200 Feet

Extent of Screening Criteria Exceedances for PAHs in Surface Soil (0-0.17 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

Beech and Bonaparte
engineering p.c.
an affiliate of Geosyntec Consultants

Figure 4A

Columbia, Maryland

December 2019



Legend

Total PAHs Concentration

● Non-Detect

● 0-100 mg/kg

● > 100mg/kg

Site Boundary

FRA Fence

MSA

Proposed Soil Sample (Vertical Delineation)

Notes and Disclaimer

Screening criteria for the STCC facility and the FRA are the previously approved cleanup goals for voluntary remedial actions (total PAHs less than or equal to 100 mg/kg). See text for details. Areas of concern georeferenced from PDF drawings provided by New York State Department of Environmental Conservation (NYSDEC). Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided. MSA footprint is approximate.

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 24 October 2019. Image is dated 2 June 2010.

STCC - Southern Tier Commerce Center FRA - Former Recreation Area PAHs - polycyclic aromatic hydrocarbons ft bgs - feet below ground surface MSA - Material Staging Area

Extent of Screening Criteria Exceedances
for PAHs in Shallow Subsurface Soil (0.17-2 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

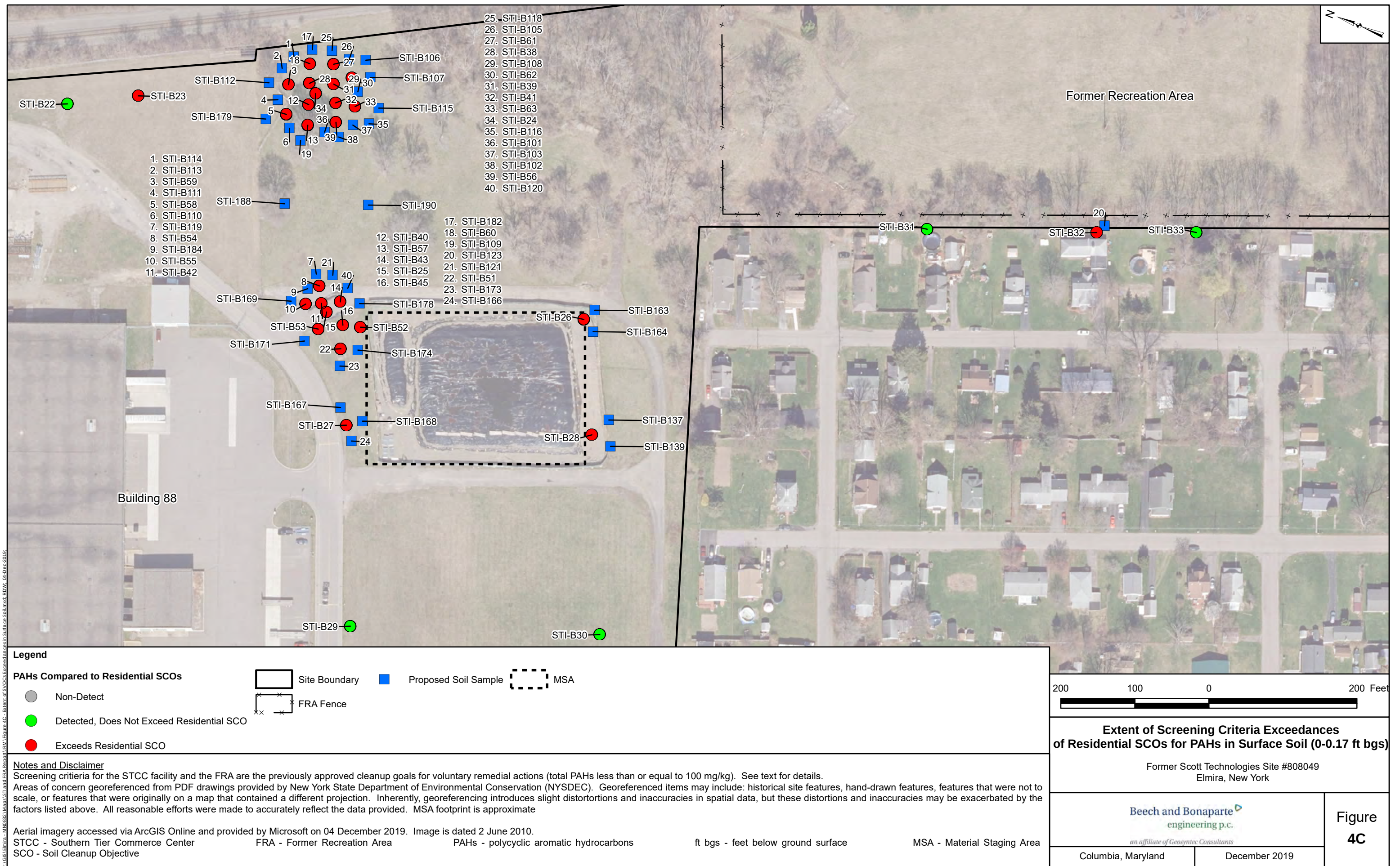
Beech and Bonaparte
engineering p.c.

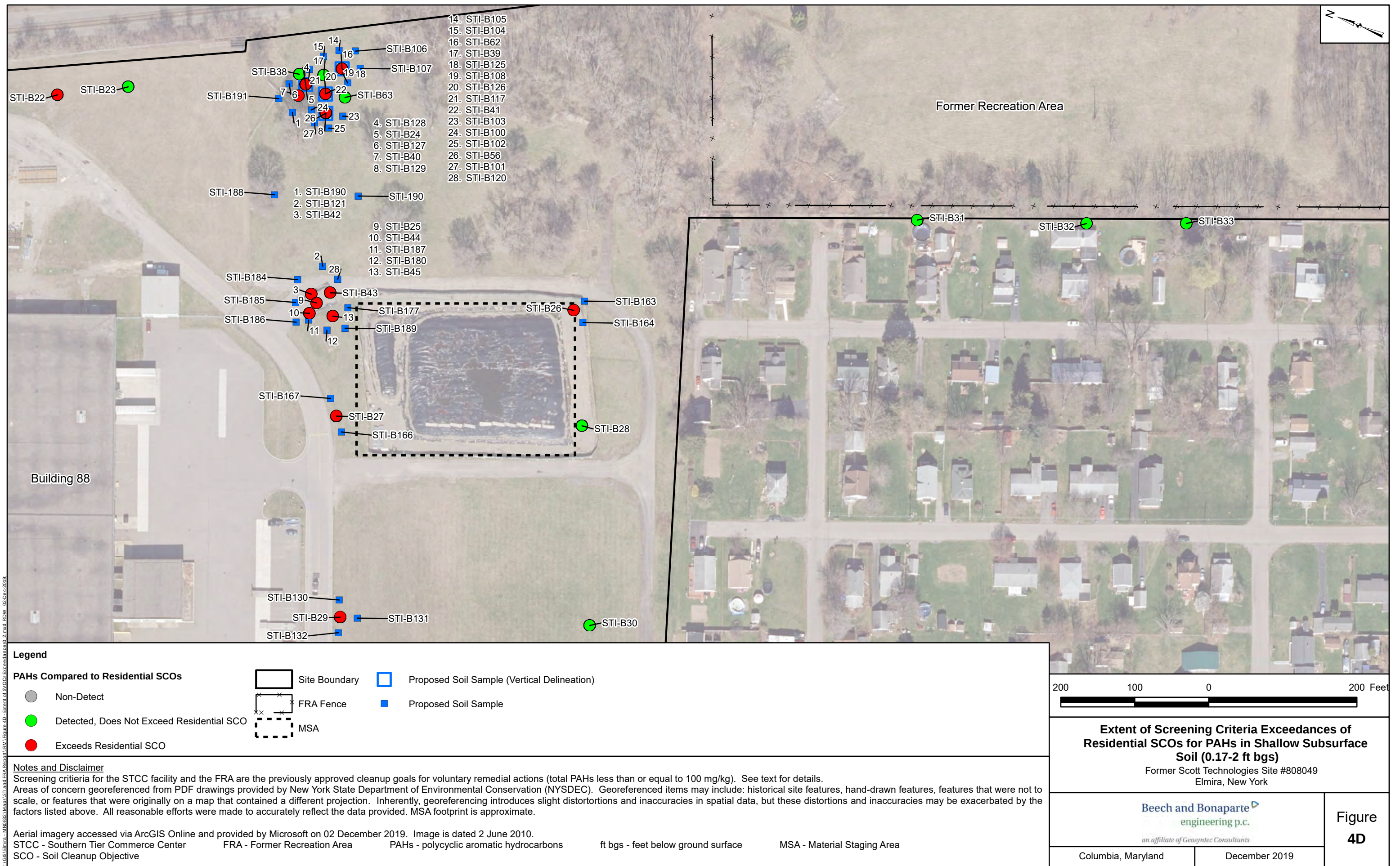
an affiliate of Geosyntec Consultants

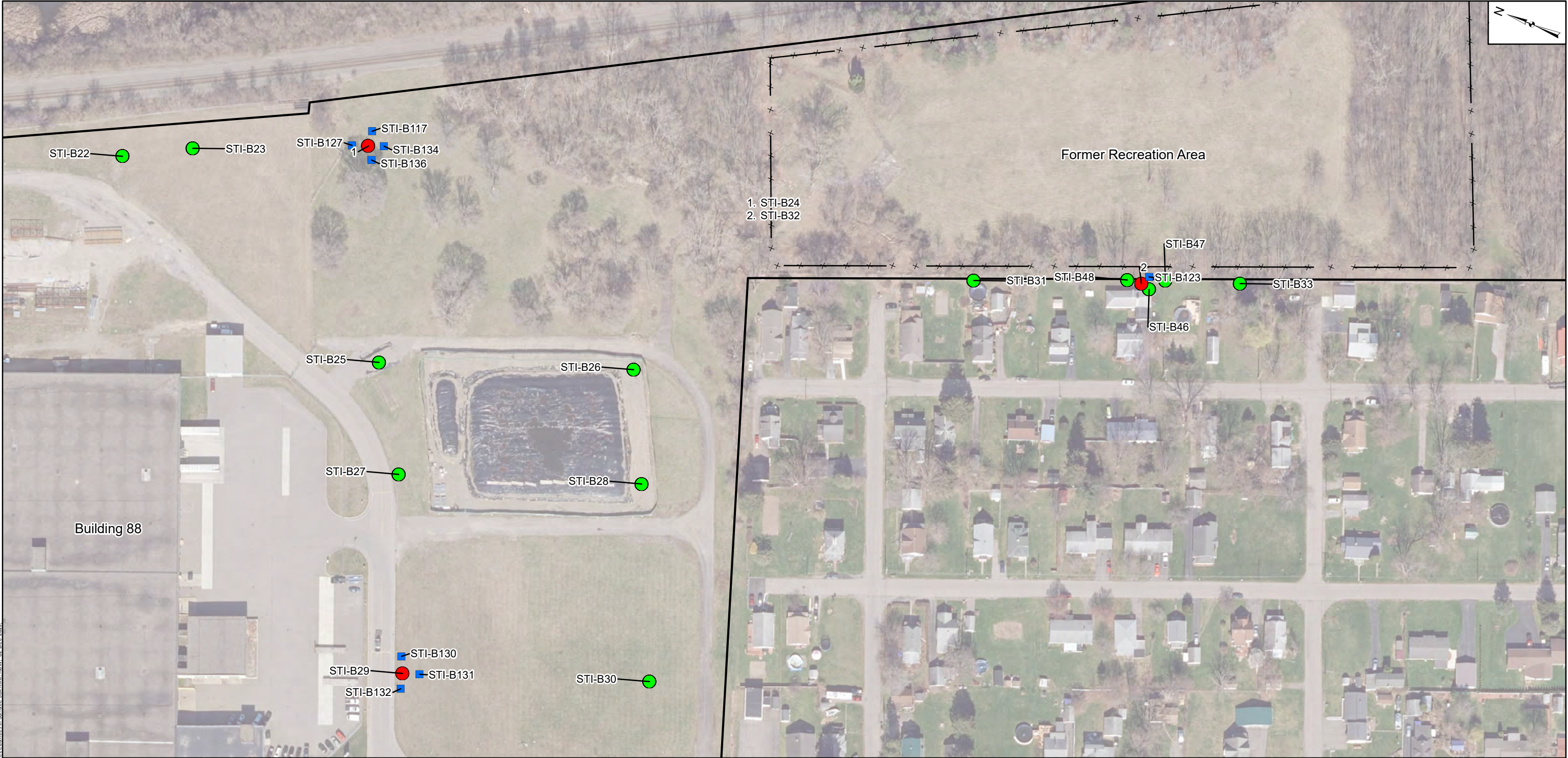
Columbia, Maryland

December 2019

Figure
4B

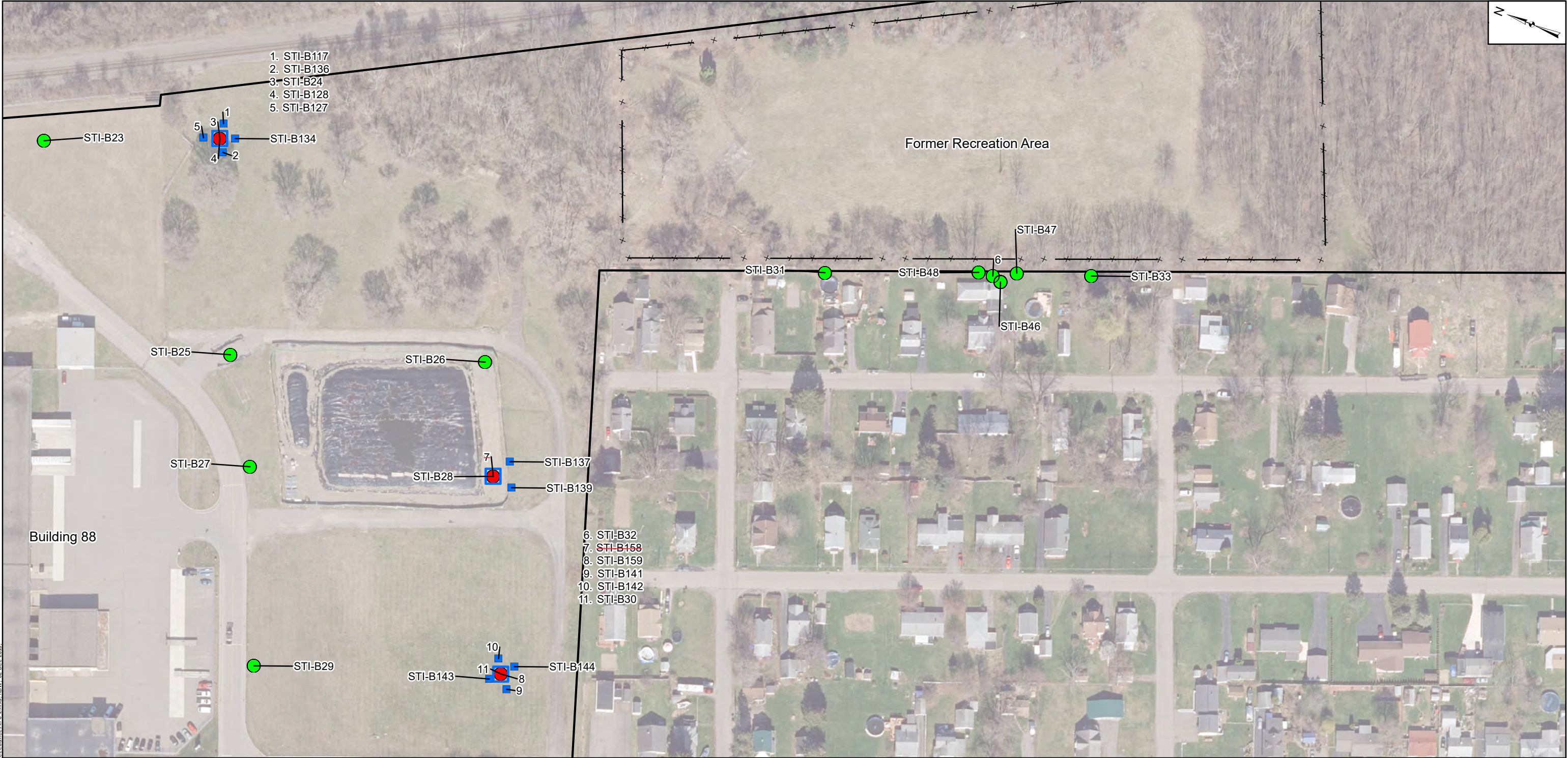






Legend Metals Exceedances ● Does not exceed Restricted Residential SCO ● Exceeds Restricted Residential SCO □ Site Boundary □ FRA Fence ■ Proposed Soil Sample	200 100 0 200 Feet Extent of Residential SCO Exceedances for Metals in Surface Soil (0-0.17 ft bgs) Former Scott Technologies Site #808049 Elmira, New York Beech and Bonaparte engineering p.c. <i>an affiliate of Geosyntec Consultants</i> Columbia, Maryland December 2019
Notes and Disclaimer Screening criteria for the STCC facility and the FRA are the previously approved cleanup goals for voluntary remedial actions (total PAHs less than or equal to 100 mg/kg). See text for details. Areas of concern georeferenced from PDF drawings provided by New York State Department of Environmental Conservation (NYSDEC). Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided. Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 02 December 2019. Image is dated 2 June 2010. STCC - Southern Tier Commerce Center FRA - Former Recreation Area ft bgs - feet below ground surface	Figure 5A

PAES/Elmira - M0082 Map01ST and FRA Report/Map/Elmire 7 - Extent of Metals Exceedances in Surface Soil.mxd, ROW: 02-Dec-2019.



Legend

Metals Exceedances

- Does not exceed Restricted Residential SCO
- Exceeds Restricted Residential SCO

Site Boundary

FRA Fence

Proposed Soil Sample

Proposed Soil Sample (Vertical Delineation)

200 100 0 200 Feet

Extent of Residential SCOs Exceedances for Metals in Shallow Subsurface Soil (0.17-2 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

Beech and Bonaparte
engineering p.c.
an affiliate of Geosyntec Consultants

Figure 5B

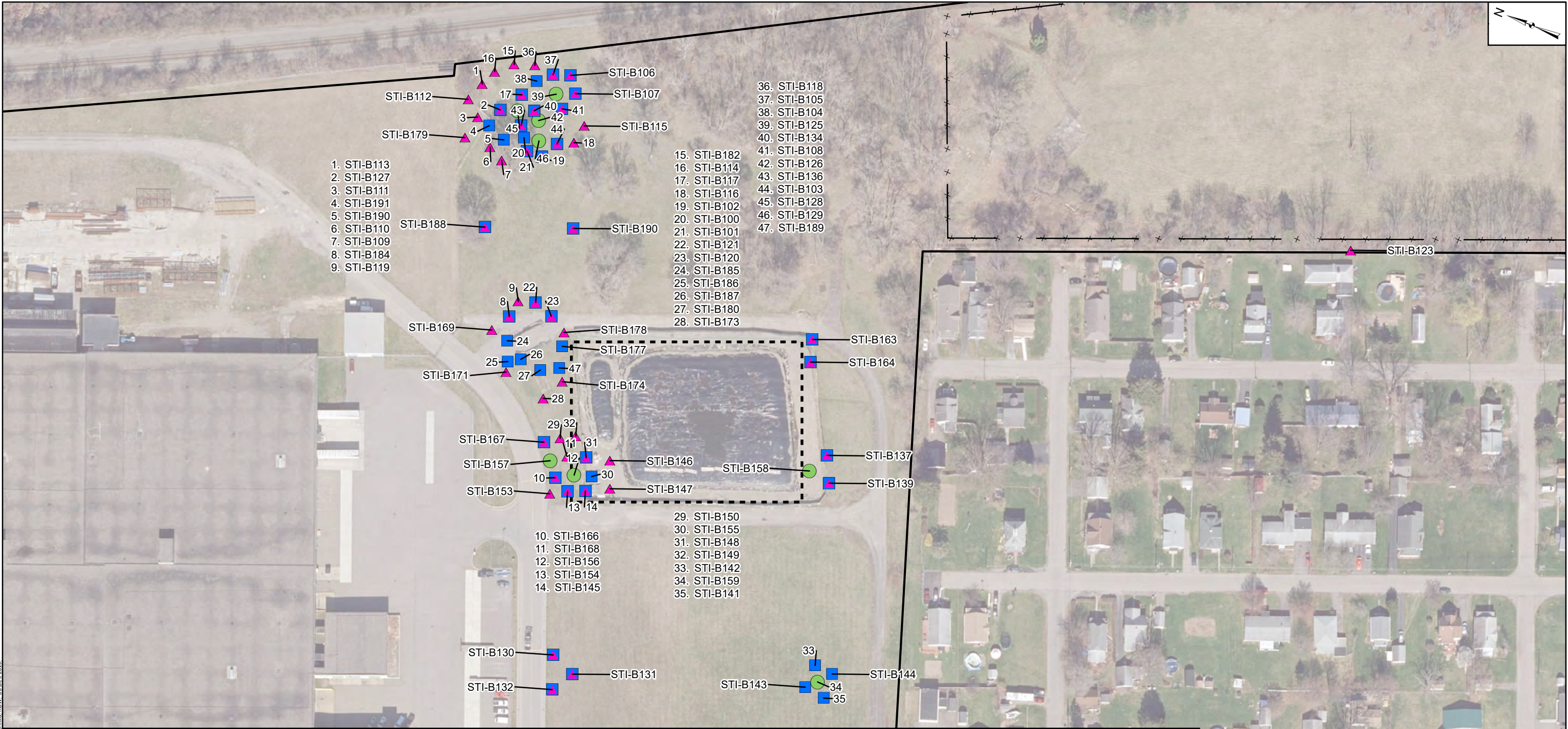
Columbia, Maryland December 2019

Notes and Disclaimer

Screening criteria for the STCC facility and the FRA are the previously approved cleanup goals for voluntary remedial actions (total PAHs less than or equal to 100 mg/kg). See text for details. Areas of concern georeferenced from PDF drawings provided by New York State Department of Environmental Conservation (NYSDEC). Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided.

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 02 December 2019. Image is dated 2 June 2010.
STCC - Southern Tier Commerce Center FRA - Former Recreation Area ft bgs - feet below ground surface

PAIS/Elmira - M0082 Map0821 and FRA Report/PAIS/Elmira - Extent of Metals Exceedances in 0.2 m.d. ROW, 02-Dec-2019.



Site Boundary

FRA Fence

MSA

Proposed Soil Sample

Surface Sample Only

0-2 ft bgs Sample Only

Surface and 0.17-2 ft bgs Sample

2-4 ft bgs Sample

Notes and Disclaimer

Screening criteria for the STCC facility and the FRA are the previously approved cleanup goals for voluntary remedial actions (total PAHs less than or equal to 100 mg/kg). See text for details. Areas of concern georeferenced from PDF drawings provided by New York State Department of Environmental Conservation (NYSDEC). Georeferenced items may include: historical site features, hand-drawn features, features that were not to scale, or features that were originally on a map that contained a different projection. Inherently, georeferencing introduces slight distortions and inaccuracies in spatial data, but these distortions and inaccuracies may be exacerbated by the factors listed above. All reasonable efforts were made to accurately reflect the data provided. MSA footprint is approximate

Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 03 December 2019. Image is dated 2 June 2010.

STCC - Southern Tier Commerce Center FRA - Former Recreation Area PAHs - polycyclic aromatic hydrocarbons ft bgs - feet below ground surface MSA - Material Staging Area

100 50 0 100 Feet

Proposed Soil Boring Locations

Former Scott Technologies Site #808049
Elmira, New York

Beech and Bonaparte
engineering p.c.
an affiliate of Geosyntec Consultants

Figure
6

Columbia, Maryland

December 2019

PL\GIS\Elmira - M080821 and FRA Report\NEM\Entire 6 - Proposed Soil Boring Location.mxd, RDW, 03 Dec 2019

TABLES

TABLE 1
Summary of Analytical Result for Soils South of Building 88
Former Scott Technologies Site
Elmira, New York

				Location	STI-B24	STI-B24	STI-B25	STI-B25	STI-B26	STI-B26	STI-B27	STI-B27	STI-B28	STI-B28	STI-B29	STI-B29	STI-B30	STI-B30	STI-B34	STI-B34	STI-B35		
				Sample Depth Range	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17		
				Sampled Date	10/22/2015	10/22/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	9/16/2016	9/16/2016	9/16/2016	
				Industrial	Residential	STI VCP																	
Method_Name	ChemName	Units	EQL																				
PCBs	Arochlor 1016	mg/kg	0.0079				<0.0099U	<0.0089U	<0.0085U	<0.0082U	<0.0095U	<0.0082U	<0.17U	<0.008U	<0.0089U	<0.0081U	<0.0091U	<0.0081U	<0.0091U	<0.0084U	<0.0083U	<0.0079U	<0.0084U
	Arochlor 1221	mg/kg	0.011				<0.016U	<0.014U	<0.013U	<0.013U	<0.015U	<0.013U	<0.26U	<0.013U	<0.014U	<0.013U	<0.014U	<0.013U	<0.014U	<0.013U	<0.013U	<0.013U	
	Arochlor 1232	mg/kg	0.0043				<0.0054U	<0.0048U	<0.0046U	<0.0045U	<0.0052U	<0.0045U	<0.091U	<0.0044U	<0.0049U	<0.0044U	<0.005U	<0.0045U	<0.005U	<0.0046U	<0.0045U	<0.0043U	<0.0046U
	Arochlor 1242	mg/kg	0.0064				<0.008U	<0.0071U	<0.0068U	<0.0066U	<0.0076U	<0.0066U	<0.13U	<0.0064U	<0.0072U	<0.0065U	<0.0073U	<0.0066U	<0.0073U	<0.0068U	<0.0067U	<0.0064U	<0.0067U
	Arochlor 1248	mg/kg	0.0041				0.041	0.014J	0.52	<0.0042U	0.033J	<0.0042U	24	3.4	0.045	0.0097J	0.3	0.027	0.008J	0.0047J	0.46J	0.018J	0.69J
	Arochlor 1254	mg/kg	0.0064				<0.008U	<0.0071U	<0.0068U	<0.0066U	<0.0076U	<0.0066U	<0.13U	<0.0064U	<0.0072U	<0.0065U	<0.0073U	<0.0066U	<0.0073U	<0.0068U	0.36J	0.013J	0.38J
	Arochlor 1260	mg/kg	0.006				0.063	<0.0066U	0.096	<0.0061U	0.013J	<0.0061U	3.5	0.49	0.014J	<0.0061U	0.068	0.0083J	<0.0068U	<0.0063U	0.17J	0.0068J	0.15J
	Arochlor 1268	mg/kg	0.0032				<0.004U	<0.0036U	<0.0034U	<0.0033U	<0.0039U	<0.0033U	<0.068U	<0.0032U	<0.0036U	<0.0033U	<0.0037U	<0.0033U	<0.0037U	<0.0034U	<0.0034U	<0.0032U	<0.0034U
	Arochlor 1262	mg/kg	0.0054				<0.0067U	<0.006U	<0.0057U	<0.0055U	<0.0064U	<0.0055U	<0.11U	<0.0054U	<0.006U	<0.0055U	<0.0062U	<0.0055U	<0.0061U	<0.0057U	<0.0056U	<0.0054U	<0.0057U
Total PCBs	mg/kg		25	1		0.104	0.014	0.616	<0	0.046	<0	27.5	3.89	0.059	0.0097	0.368	0.0353	0.008	0.0047	1.011	0.0579	1.241	
PAHs	Benzo(a) pyrene	mg/kg	0.007	1.1	1		32	10 - 12	14J	1.2	8.2	1	6.8	1.2J	0.97	0.17	0.47	0.57	0.41	0.56	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.011	11	1		40	12 - 14	19J	1.6	10	1.4	9.3	1.6J	1.3	0.24	0.59	0.7	0.54	0.66	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.007	1000	100		17	5.7 - 6.3	13J	1.2	8.7	1.1	7.5	1.6J	0.92	0.13	0.51	0.82	0.35	0.44	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.014	110	1		14	5 - 7.1	5.9J	0.61	4	0.43	2.5	0.45J	0.57	0.07J	0.27	0.3	0.19	0.26	-	-	-
	Chrysene	mg/kg	0.0084	110	1		36	13 - 14	15J	1.3	8.3	1	6.2	1J	1	0.24	0.47	0.44	0.48	0.65	-	-	-
	Dibenz(a,h)anthracene	mg/kg	0.0078	1.1	0.33		6.3	2 - 2.1	2.9J	0.3	1.8	0.23	1.6	0.29J	0.23	0.048J	0.085	0.16	0.1	0.15	-	-	-
	Dibenzofuran	mg/kg	0.034	1000	14		9.7	4 - 4.1	<0.36U	<0.035U	<0.2U	<0.035U	<0.36U	<0.035U	<0.038U	0.038J	<0.039U	<0.071U	0.068J	0.074J	-	-	-
	Fluoranthene	mg/kg	0.0075	1000	100		92	34 - 35E	21J	1.4	11	1.3	7.1	1.3J	1.5	0.26	0.74	0.32	0.5	0.7	-	-	-
	Fluorene	mg/kg	0.0092	1000	100		14	5.6 - 5.9	0.66J	0.061J	0.46	0.057J	0.3J	0.051J	<0.01U	<0.0093U	0.028J	<0.019U	<0.01U	<0.0095U	-	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0072	11	0.5		17	5.8 - 6.2	11J	0.96	6.8	0.89	5.8	1.1J	0.81	0.13	0.33	0.61	0.27	0.35	-	-	-
	Isophorone	mg/kg	0.02				<0.33U	<0.058U	<0.28U	<0.027U	<0.16U	<0.027U	<0.28U	<0.027U	<0.029U	<0.027U	<0.03U	<0.054U	<0.03U	<0.027U	-	-	-
	Naphthalene	mg/kg	0.006	1000	100		12	3.7 - 4.2	0.52J	0.13	0.48	0.079	0.33J	0.072	0.082	0.082	0.033J	<0.012U	0.2	0.33	-	-	-
	Phenanthrene	mg/kg	0.011	1000	100		85	32 - 36E	6.1J	0.46	2.7	0.35	1.6	0.42	0.38	0.18	0.29	0.082J	0.32	0.42	-	-	-
	Pyrene	mg/kg	0.0071	1000	100		61	23 - 24	24J	1.8	12	1.5	8.5	1.6J	1.4	0.25	0.78	0.53	0.78	0.42	-	-	-
PAHs (Sum of total)						100	497.3	178.2 - 195.2	153.3	13.02	88.44	10.97	67.63	12.53	10.34	2.107	5.246	5.372	4.66	6.39	-	-	-
Metals	Chromium (hexavalent)	mg/kg	0.42	800	22		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Aluminum	mg/kg	19				7900	7500	7000J	8000	7900	10,000	6500	9100	5200	7200	7700	7900	7700	8200	-	-	-
	Antimony	mg/kg	0.27				1.1J	1.8	<0.29UJ	<0.28U	<0.33U	0.66J	0.5J	0.29J	<0.3U	3	18	0.38J	<0.32U	0.88J	-	-	-
	Arsenic	mg/kg	0.93	16	16		12	8.7	6.3	5.5	7.2	6.9	7.3	7.1	5	9.2	16	5.2	7.1	7.5	-	-	-
	Barium	mg/kg	19	10000	350		790	720	210J	84	82	66	90	64	91	820	210	55	160	410	-	-	-
	Beryllium	mg/kg	0.37	2700	14		0.61	0.39J	0.31J	0.34J	0.37J	0.39J	0.36J	0.39J	0.25J	0.33J	0.38J	0.34J	0.39J	0.42J	-	-	-
	Cadmium	mg/kg	0.47	60	2.5		0.58J	0.26J	0.46J	0.14J	0.27J	0.057J	0.54J	0.14J	0.24J	0.72	0.48J	0.093J	0.2J	0.049J	-	-	-
	Calcium	mg/kg	470				5400	4000	47,000J	17,000	45,000	14,000	27,000	28,000	53,000	5000	11,000	20,000	43,000	10,000	-	-	-
	Chromium (III+VI)	mg/kg	0.47	800	22		23B	18B	13J	10B	11B	12B	13B	11B	9.2B	39B	33B	10B	11B	51B	-	-	-
	Cobalt	mg/kg	4.7				6.2J	5.7	6.4	6.7	6.1	7	5.8	7.3	5J	7.5	11	6.7	6.4	5.9	-	-	-
	Copper	mg/kg	2.3	10000	270		65	910	39J	25	21	16	41	22	21	630	230	26J	29	24	-	-	-
	Iron	mg/kg	9.3				23,000	22,000	18,000J	16,000	15,000	19,000	18,000	19,000	13,000	33,000	110,000	18,000	16,000	17,000	-	-	-
	Lead	mg/kg	0.93	3900	400		150	150	72J+	30	52	19	98	49J	56	740	160	22J	130	400	-	-	-
	Magnesium	mg/kg	470				2300	2000	11,000J	4300	10,000	4800	7200	6200J	12,000	2400	2500	4500	8100	2500	-	-	-
	Manganese	mg/kg	1.4	10000	2000		560	500	330J	500	290	310	310	410	340	540	610	300	390	430	-	-	-
	Nickel	mg/kg	3.7	10000	140		49	41	29	18	18	18	25	19	18	92	110	22	22	19	-	-	-
	Potassium	mg/kg	470				840	490J	680	490J	830	560	770	680	740	510J	730	600	1100	630	-	-	-
	Selenium	mg/kg	0.32	6800	36		0.94J	<0.36U	0.6J	0.51J	0.68J	0.4J	0.85J	0.51J	0.72J	1.2	1.3	0.46J	0.97J	0.67J	-	-	-
	Silver	mg/kg	0.067	6800	36		0.11J	0.5J	<0.071U	<0.069U	<0.082U	<0.072U	0.11J	<0.068U	<0.075U	4.3	0.096J	<0.069U	<0.078U	<0.072U	-	-	-
	Sodium	mg/kg	130				95J	66J	69J	62J	63J	44J	87J	72J	67J	69J	61J	78J	88J	94J	-	-	-
	Thallium	mg/kg	0.27				<0.38U	<0.31U	<0.29U	<0.28U	<0.33U	<0.29U	<0.3U	<0.28U	<0.3U	<0.28U	0.32J	<0.28U	<0.32U	<0.29U	-	-	-
	Vanadium	mg/kg	4.7				16	14	31	13	14	15	15	15	10	17	16	15	14	13	-	-	-
	Zinc	mg/kg	1.9	10000	2200		190	180	150J	92	76	59	130	58	69	480	360	70J					

Notes:

Only detected analytes are shown. See analytical reports for full details.

Screening criteria for the STCC facility are the previously approved cleanup goals for voluntary remedial actions (STI VCP) of total PAHs less than or equal to 100 mg/kg and Industrial SCOs for PCBs.

Total PAH concentrations are calculated as the sum of detected concentrations of the following PAHs based on PAHs reported for confirmatory samples collected during the voluntary remedial action conducted by STI in 1999-2000 (URS, 2002): naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, de benzo(a,h)anthracene, and benzo(g,h,i)perylene. Total PAH concentrations are compared to the NYSDEC-approved voluntary action cleanup goal of 100 mg/kg.

SCO - Soil Cleanup Objective (6 NYCRR Subpart 375)

PCBs - Polychlorinated Biphenyls

PAHs - polycyclic aromatic hydrocarbons

ft bgs - feet below ground surface

mg/kg - milligrams/kilogram

TABLE 1
Summary of Analytical Result for Soils South of Building 88
Former Scott Technologies Site
Elmira, New York

				STI-B35	STI-B36	STI-B36	STI-B37	STI-B37	STI-B38	STI-B38	STI-B39	STI-B39	STI-B40	STI-B40	STI-B41	STI-B41	STI-B42	STI-B42	STI-B43	STI-B43	STI-B44		
				Sample 0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2	0.17-2		
				9/16/2016	9/16/2016	9/16/2016	9/16/2016	9/16/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016		
				Industrial	Residential																		
Method_Name	ChemName	Units	EQL																				
PCBs	Arochlor 1016	mg/kg	0.0079			<0.0085U	<0.0082U	<0.0083U	<0.081U	<0.008U	-	-	-	-	-	-	-	-	-	-	-		
	Arochlor 1221	mg/kg	0.011			<0.013U	<0.013U	<0.013U	<0.13U	<0.013U	-	-	-	-	-	-	-	-	-	-	-		
	Arochlor 1232	mg/kg	0.0043			<0.0047U	<0.0045U	<0.0045U	<0.044U	<0.0044U	-	-	-	-	-	-	-	-	-	-	-		
	Arochlor 1242	mg/kg	0.0064			<0.0069U	<0.0066U	<0.0067U	<0.065U	<0.0064U	-	-	-	-	-	-	-	-	-	-	-		
	Arochlor 1248	mg/kg	0.0041			0.21J	0.69J	0.077J	22J	0.64J	-	-	-	-	-	-	-	-	-	-	-		
	Arochlor 1254	mg/kg	0.0064			0.099J	0.37J	0.041J	7.6J	0.26J	-	-	-	-	-	-	-	-	-	-	-		
	Arochlor 1260	mg/kg	0.006			0.036J	0.15J	0.016J	3.5J	0.094J	-	-	-	-	-	-	-	-	-	-	-		
	Arochlor 1268	mg/kg	0.0032			<0.0035U	<0.0033U	<0.0034U	<0.033U	<0.0032U	-	-	-	-	-	-	-	-	-	-	-		
	Arochlor 1262	mg/kg	0.0054			<0.0058U	<0.0055U	<0.0056U	<0.055U	<0.0054U	-	-	-	-	-	-	-	-	-	-	-		
Total PCBs	mg/kg		25	1	0.3662	1.231	0.1548	33.3	1.014	-	-	-	-	-	-	-	-	-	-	-			
PAHs	Benzo(a) pyrene	mg/kg	0.007	1.1	1	-	-	-	-	-	80 - 91J	0.34	22J	0.073J	13	1	63J	8.5J	12J	0.76J	5.6J	1.2J	1.4J
	Benzo(b)fluoranthene	mg/kg	0.011	11	1	-	-	-	-	-	83 - 99J	0.46	29J	0.1J	17	1.4	79J	12J	18J	1.2J	8.6J	1.5J	1.9J
	Benzo(g,h,i)perylene	mg/kg	0.007	1000	100	-	-	-	-	-	65 - 67J	0.19	12J	0.059J	6.5	0.55	38J	4.9J	10J	0.74J	5J	0.96J	1.2J
	Benzo(k)fluoranthene	mg/kg	0.014	110	1	-	-	-	-	-	37 - 46J	0.24	9.9J	0.046J	6.4	0.52	36J	3.4J	6J	0.33J	3.3J	0.56J	0.78J
	Chrysene	mg/kg	0.0084	110	1	-	-	-	-	-	97 - 100J	0.46	23J	0.12J	14	1.1	67J	8.8J	12J	0.79J	7.3J	1.1J	1.5J
	Dibenz(a,h)anthracene	mg/kg	0.0078	1.1	0.33	-	-	-	-	-	17 - 18J	0.081	4.4J	0.02J	2.4	0.18	12J	1.7J	2.6J	0.18J	1.3J	0.25J	0.29J
	Dibenzofuran	mg/kg	0.034	1000	14	-	-	-	-	-	36 - 42J	0.15J	5.1J	0.041J	3.6	0.4	17J	3J	<0.34UJ	<0.034UJ	<0.33UJ	<0.034UJ	0.046J
	Fluoranthene	mg/kg	0.0075	1000	100	-	-	-	-	-	220 - 280E	0.96	54J	0.15J	33	2.8	160J	23J	15J	0.99J	10J	1.2J	1.9J
	Fluorene	mg/kg	0.0092	1000	100	-	-	-	-	-	46 - 56J	0.16	8.3J	0.018J	5.2	0.56	25J	4.1J	0.72J	0.055J	0.52J	0.065J	0.093J
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0072	11	0.5	-	-	-	-	-	60 - 61J	0.19	12J	0.052J	6.7	0.57	36J	4.8J	8.5J	0.61J	4.1J	0.77J	0.96J
	Isophorone	mg/kg	0.02			-	-	-	-	-	<0.26U	<0.027U	<0.26UJ	<0.028UJ	<0.27U	<0.026U	<1.4UJ	<0.13UJ	<0.26UJ	<0.026UJ	<0.25UJ	<0.026UJ	<0.026UJ
	Naphthalene	mg/kg	0.006	1000	100	-	-	-	-	-	70 - 83J	0.16	6.3J	0.092J	3.2	0.46	21J	4.4J	0.8J	0.11J	0.36J	0.1J	0.069J
	Phenanthrene	mg/kg	0.011	1000	100	-	-	-	-	-	220 - 320E	1.2	59J	0.19J	37	3.5	170J	26J	6J	0.46J	7J	0.37J	0.97J
	Pyrene	mg/kg	0.0071	1000	100	-	-	-	-	-	150 - 170E	0.84	49J	0.17J	29	2.6	140J	18J	19J	1.3J	13J	1.6J	2.5J
	PAHs (Sum of total)	mg/kg				-	-	-	-	-	1340 - 1592	6.132	335.4	1.254	201.8	17.73	977.3	138.2	130.4	9.015	77.88	11.75	15.9
Metals	Chromium (hexavalent)	mg/kg	0.42	800	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Aluminum	mg/kg	19			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Antimony	mg/kg	0.27			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arsenic	mg/kg	0.93	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Barium	mg/kg	19	10000	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Beryllium	mg/kg	0.37	2700	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Cadmium	mg/kg	0.47	60	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Calcium	mg/kg	470			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chromium (III+VI)	mg/kg	0.47	800	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Cobalt	mg/kg	4.7			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Copper	mg/kg	2.3	10000	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Iron	mg/kg	9.3			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Lead	mg/kg	0.93	3900	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Magnesium	mg/kg	470			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Manganese	mg/kg	1.4	10000	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Nickel	mg/kg	3.7	10000	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Potassium	mg/kg	470			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Selenium	mg/kg	0.32	6800	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Silver	mg/kg	0.067	6800	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Sodium	mg/kg	130			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Thallium	mg/kg	0.27			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Vanadium	mg/kg	4.7			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Zinc	mg/kg	1.9	10000	2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Mercury	mg/kg	0.011	5.7	0.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes:

Only detected analytes are shown. See analytical reports for full details.

Screening criteria for the STCC facility are the previously approved cleanup goals for voluntary remedial actions (STI VCP) of total PAHs less than or equal to 100 mg/kg and Industrial SCO's for PCBs.

Total PAH concentrations are calculated as the sum of detected concentrations of the following PAHs based on PAHs reported for confirmatory samples collected during the voluntary remedial action conducted by STI in 1999-2000 (URS, 2002): naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, debenzo(a,h)anthracene, and benzo(g,h,i)perylene. Total PAH concentrations are compared to the NYSDEC-approved voluntary action cleanup goal of 100 mg/kg.

SCO - Soil Cleanup Objective (6 NYCRR Subpart 375)

PCBs - Polychlorinated Biphenyls

PAHs - polycyclic aromatic hydrocarbons

ft bgs - feet below ground surface

mg/kg -milligrams/kilogram

J - estimated values

U - values below the reporting limit

Shaded values exceed STI VCP screening criteria.

Shaded values exceed Residential screening criteria.

Shaded values exceed Industrial screening criteria.

TABLE 1
Summary of Analytical Result for Soils South of Building 88
Former Scott Technologies Site
Elmira, New York

				STI-B45		STI-B45	STI-B49	STI-B50	STI-B51	STI-B52	STI-B53	STI-B54	STI-B55	STI-B56	STI-B56	STI-B57	STI-B58	STI-B59	STI-B60	STI-B61	STI-B62	STI-B62	STI-B63	STI-B63	
				Sample	0-0.17	0.17-2	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	
					9/16/2016	9/16/2016	5/19/2017	5/19/2017	5/19/2017	5/19/2017	5/19/2017	5/19/2017	5/19/2017	5/19/2017	5/18/2017	5/19/2017	5/19/2017	5/19/2017	5/19/2017	5/19/2017	5/19/2017	5/18/2017	5/19/2017	5/18/2017	
				Industrial	Residential																				
Method_Name	ChemName	Units	EQL																						
PCBs	Arochlor 1016	mg/kg	0.0079		-	-	<0.097U,F1	<0.011U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arochlor 1221	mg/kg	0.011		-	-	<0.095U	<0.011U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arochlor 1232	mg/kg	0.0043		-	-	<0.072U	<0.0081U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arochlor 1242	mg/kg	0.0064		-	-	<0.15U	<0.016U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arochlor 1248	mg/kg	0.0041		-	-	8.4	0.077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arochlor 1254	mg/kg	0.0064		-	-	4.5	0.035p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arochlor 1260	mg/kg	0.006		-	-	2.1	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arochlor 1268	mg/kg	0.0032		-	-	<0.056U	<0.0063U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arochlor 1262	mg/kg	0.0054		-	-	<0.13U	<0.015U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs		mg/kg		25	1	-	-	15.3	0.2057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PAHs	Benzo(a) pyrene	mg/kg	0.007	1.1	1	14	1.2	-	-	3	5.3	4.6	14	6.3	120	6.3 - 6.5	15F1	4.4	25	5.2	2	11	6.3	13	0.49
	Benzo(b)fluoranthene	mg/kg	0.011	11	1	16	1.4	-	-	4.3	7.9	6.1	21	8.2	150	7.1	18F1	5.4	30	7	2.6	14	8.5	17	0.62
	Benzo(g,h,i)perylene	mg/kg	0.007	1000	100	16	1.4	-	-	2.8	5.2	4.3	12	5.6	71	3.7 - 3.8	9.3	2.7	15	3.3	1.3	6.9	3.4	8.8	0.31
	Benzo(k)fluoranthene	mg/kg	0.014	110	1	8.2	0.53	-	-	1.5	2.6	2.5	7.2	4	71	3.1 - 3.2	9.9F1	2.8	13	3.2	1.1	5.6	3.1	8.1	0.18
	Chrysene	mg/kg	0.0084	110	1	15	1.3	-	-	3.2	5.7	4.7	15	7.1	140	6.8 - 7	17F1	5	27	6.3	2.3	13	8.6	15	0.61
	Dibenz(a,h)anthracene	mg/kg	0.0078	1.1	0.33	4	0.33	-	-	0.74	1.2	1	3.2	1.3	23	1.1	3.1	0.94	5.1	1.1	0.43	2.3	1.1	2.7	0.096
	Dibenzofuran	mg/kg	0.034	1000	14	0.35J	<0.035U	-	-	0.06J	<0.16U	0.094J	<0.9U	<0.15U	62	2.3 - 2.6	4	1.1	7.3	1.4	0.35J	3.2	1.7	4.7	0.16J
	Fluoranthene	mg/kg	0.0075	1000	100	17	1.5	-	-	3.3	5.4	4.5	19	7.9	280	16 - 18E,F1	32	9.1	52	12	3.8	23	24	30	1.5
	Fluorene	mg/kg	0.0092	1000	100	0.73	0.044J	-	-	0.2	0.39J	0.3	0.98J	0.43	82	3.4 - 3.5	6F1	1.7	10	2	0.53	4.5	3.2	6.2	0.14
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0072	11	0.5	12	1	-	-	2.3	4	3.4	10	4.5	68	3.5 - 3.8	8.9F1	2.6	14	3.2	1.3	6.4	3.5	8.4	0.31
	Isophorone	mg/kg	0.02			<0.27U	<0.027U	-	-	<0.039U	<0.11U	<0.042U	<0.62U	<0.11U	<1.1U	<0.021U	<0.11U	<0.046U	<0.11U	<0.044U	<0.023U	<0.095U	<0.084U	<0.23U	<0.02U
	Naphthalene	mg/kg	0.006	1000	100	0.62J	0.057J	-	-	0.22	0.35J	0.22	<0.81U	0.38	160	4 - 4.4	4.7F1	0.9	9.2	2.1	0.35	4	0.64	7.8	0.26
	Phenanthrene	mg/kg	0.011	1000	100	8	0.74	-	-	1.7	2.5	2.1	9.1	3.6	450	14 - 20F1	43	12	71	15	4.2	32	25	41	1.2
	Pyrene	mg/kg	0.0071	1000	100	19	1.5	-	-	5.3	9.1	7	26	13	310	11 - 12	36	10	56	12	4.3	26	18	33	0.91
PAHs (Sum of total)		mg/kg			150	12.78	-	-	33.95	60.04	48.52	162.8	74.21	2237	95.49 - 103.1	236.3	67.65	382.9	83.68	28.22	171.5	122	219.4	7.679	
Metals	Chromium (hexavalent)	mg/kg	0.42	800	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Aluminum	mg/kg	19			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Antimony	mg/kg	0.27			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Arsenic	mg/kg	0.93	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Barium	mg/kg	19	10000	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Beryllium	mg/kg	0.37	2700	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Cadmium	mg/kg	0.47	60	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Calcium	mg/kg	470			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chromium (III+VI)	mg/kg	0.47	800	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Cobalt	mg/kg	4.7			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Copper	mg/kg	2.3	10000	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Iron	mg/kg	9.3			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Lead	mg/kg	0.93	3900	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Magnesium	mg/kg	470			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Manganese	mg/kg	1.4	10000	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Nickel	mg/kg	3.7	10000	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Potassium	mg/kg	470			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Selenium	mg/kg	0.32	6800	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Silver	mg/kg	0.067	6800	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Sodium	mg/kg	130			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	mg/kg	0.27			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	mg/kg	4.7			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	mg/kg	1.9	10000	2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Mercury	mg/kg	0.011	5.7	0.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Notes:
Only detected analytes are shown. See analytical reports for full details.
Screening criteria for the STCC facility are the previously approved cleanup goals for voluntary remedial actions (STI VCP) of total PAHs less than or equal to 100 mg/kg and Industrial SCO's for PCBs.
Total PAH concentrations are calculated as the sum of detected concentrations of the following PAHs based on PAHs reported for confirmatory samples collected during the voluntary remedial action conducted by STI in 1999-2000 (URS, 2002): naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)fluorene, indeno(1,2,3-c,d)fluorene, dibenz(a,h)anthracene, and SCO - Soil Cleanup Objective (6 NYCRR Subpart 375)
PCBs - Polychlorinated Biphenyls
PAHs - polycyclic aromatic hydrocarbons
ft bgs - feet below ground surface
mg/kg -milligrams/kilogram
J - estimated values
U - values below the reporting limit
Shaded values exceed STI VCP screening criteria
Shaded values exceed Residential screening criteria
Shaded values exceed Industrial screening criteria

TABLE 2
Summary of Analytical Result for Soils Outside of FRA Fence
Former Scott Technologies Site
Elmira, New York

			Location			STI-B31	STI-B31	STI-B32	STI-B32	STI-B33	STI-B33
			Sample Depth Range (ft bgs)			0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2
			Sample Date			10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015
			Screening Criteria								
Group	COPC	Units	EQL	Residential SCO	STI VCP						
Metals	Aluminum	mg/kg	19			7500	11,000	9000	11,000	12,000	13,000
	Antimony	mg/kg	0.27			0.97J	0.86J	1.5	0.87J	1J	0.69J
	Arsenic	mg/kg	0.93	16		5.8	5	10	7.3	7.6	6.6
	Barium	mg/kg	19	350		250	200	210	160	170	140
	Beryllium	mg/kg	0.37	14		0.33J	0.43J	0.45J	0.47	0.55	0.56
	Cadmium	mg/kg	0.47	2.5		0.54J	0.15J	1.1	0.35J	0.26J	0.047J
	Calcium	mg/kg	470			3400	1700	5200	2100	3400	530J
	Chromium (III+VI)	mg/kg	0.47	22		12B	13B	24B	15B	14B	14B
	Chromium (hexavalent)	mg/kg	0.42	22		-	-	-	-	-	-
	Cobalt	mg/kg	4.7			5.5J	7.1	7.2	7.9	8.4	9.2
	Copper	mg/kg	2.3	270		24	12	41	27	16	11
	Iron	mg/kg	9.3			15,000	18,000	16,000	19,000	20,000	21,000
	Lead	mg/kg	0.93		1000	110	64	530	160	34	16
	Magnesium	mg/kg	470			1800	2200	2300	2600	2700	2600
	Manganese	mg/kg	1.4	2000		480	680J	500	510	1000	860
	Nickel	mg/kg	3.7	140		13	14	18	18	18	18
	Potassium	mg/kg	470			1300	620	1300	870	1100	770
	Selenium	mg/kg	0.32	36		0.59J	<0.37U	0.66J	<0.36U	0.63J	<0.34U
	Silver	mg/kg	0.067	36		0.18J	<0.077U	<0.088U	<0.075U	<0.093U	<0.072U
	Sodium	mg/kg	130			37J	46J	56J	33J	33J	24J
	Thallium	mg/kg	0.27			<0.31U	<0.31U	<0.36U	<0.3U	<0.38U	<0.29U
	Vanadium	mg/kg	4.7			12	15	18	17	18	19
	Zinc	mg/kg	1.9	2200		200	85	260	130	120	58
	Mercury	mg/kg	0.011	0.81		0.079	0.029J	0.2	0.079	0.075	0.036J
PCBs	Total PCBs	mg/kg		1		0.014	<0	0.028	<0	<0	<0
	Arochlor 1016	mg/kg	0.0079			<0.0092U	<0.0088U	<0.0096U	<0.0088U	<0.01U	<0.0088U
	Arochlor 1221	mg/kg	0.011			<0.014U	<0.014U	<0.015U	<0.014U	<0.016U	<0.014U
	Arochlor 1232	mg/kg	0.0043			<0.005U	<0.0048U	<0.0053U	<0.0048U	<0.0056U	<0.0048U
	Arochlor 1242	mg/kg	0.0064			<0.0074U	<0.0071U	<0.0077U	<0.0071U	<0.0082U	<0.0071U
	Arochlor 1248	mg/kg	0.0041			<0.0047U	<0.0045U	<0.0049U	<0.0045U	<0.0052U	<0.0045U
	Arochlor 1254	mg/kg	0.0064			<0.0074U	<0.0071U	<0.0077U	<0.0071U	<0.0082U	<0.0071U
	Arochlor 1260	mg/kg	0.006			0.014J	<0.0066U	0.028	<0.0066U	<0.0076U	<0.0066U
	Arochlor 1268	mg/kg	0.0032			<0.0037U	<0.0036U	<0.0039U	<0.0036U	<0.0041U	<0.0036U
	Arochlor 1262	mg/kg	0.0054			<0.0062U	<0.006U	<0.0065U	<0.006U	<0.0069U	<0.0059U
PAHs	Total PAHs	mg/kg			100	1.93	0.216	12.5	1.636	2.12	0.156
	Acenaphthene	mg/kg	0.0067	100		<0.0077U	<0.0074U	0.063J	<0.0073U	<0.0085U	<0.0074U
	Acenaphthylene	mg/kg	0.008	100		0.027J	<0.0088U	0.51	0.082	0.028J	<0.0088U
	Anthracene	mg/kg	0.0069	100		0.034J	<0.0075U	0.43	0.052J	0.032J	<0.0075U
	Benz(a)anthracene	mg/kg	0.0088	1		0.14	0.029J	0.9	0.13	0.14	0.025J
	Benzo(a) pyrene	mg/kg	0.007	1		0.15	0.03J	0.98	0.14	0.17	<0.0077U
	Benzo(b)fluoranthene	mg/kg	0.011	1		0.19	<0.012U	1.2	0.17	0.21	<0.012U
	Benzo(g,h,i)perylene	mg/kg	0.007	100		0.15	<0.0077U	0.91	0.13	0.17	<0.0076U
	Benzo(k)fluoranthene	mg/kg	0.014	1		0.086	<0.016U	0.38	0.072J	0.12	<0.015U
	Chrysene	mg/kg	0.0084	1		0.19	0.034J	1.2	0.17	0.21	0.028J
	Dibenz(a,h)anthracene	mg/kg	0.0078	0.33		0.043J	<0.0086U	0.24	<0.0085U	<0.0098U	<0.0085U
	Fluoranthene	mg/kg	0.0075	100		0.36	0.054J	2.1	0.25	0.41	0.044J
	Fluorene	mg/kg	0.0092	100		<0.011U	<0.01U	0.14J	<0.01U	<0.012U	<0.01U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0072	0.5		0.12	<0.0079U	0.75	0.13	0.13	<0.0079U
	Naphthalene	mg/kg	0.006	100		<0.0069U	<0.0066U	0.064J	<0.0066U	<0.0076U	<0.0066U
	Phenanthrene	mg/kg	0.011	100		0.18	0.028J	1.1	0.1	0.22	0.025J
	Pyrene	mg/kg	0.0071	100		0.26	0.041J	1.6	0.21	0.28	0.034J

Notes:

Only detected analytes are shown. See analytical reports for full details.

Screening criteria for the FRA are the previously approved cleanup goals for voluntary remedial actions (total PAHs <= 100 mg/kg and lead <= 1,000 mg/kg) and Residential SCOs for PCB and other metal COPCs.

Total PAH concentrations are calculated as the sum of detected concentrations of the following PAHs based on PAHs reported for confirmatory samples collected during the voluntary remedial action conducted by STI in 1999-2000 (URS, 2002): naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, debenzo(a,h)anthracene, and benzo(g,h,i)perylene. Total PAH concentrations are compared to the NYSDEC-approved voluntary action cleanup goal of 100 mg/kg.

SCO - Soil Cleanup Objective (6 NYCRR Subpart 375)

PCBs - Polychlorinated Biphenyls

SVOCs - semi-volatile organic compounds

ft bgs - feet below ground surface

mg/kg - milligrams/kilogram

B - Compound was found in the blank and sample

J - estimated values

U - values below the reporting limit

Shaded values exceed screening criteria.

TABLE 2
Summary of Analytical Result for Soils Outside of FRA Fence
Former Scott Technologies Site
Elmira, New York

			Location			STI-B46	STI-B46	STI-B47	STI-B47	STI-B48	STI-B48
			Sample Depth Range (ft bgs)			0-0.17	0.17-2	0-0.17	0.17-2	0-0.17	0.17-2
			Sample Date			9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016
			Screening Criteria								
Group	COPC	Units	EQL	Residential SCO	STI VCP						
Metals	Aluminum	mg/kg	19			9000	9700	11,000	12,000	9900	11,000
	Antimony	mg/kg	0.27			0.7J	<0.33U	<0.36U	<0.35U	0.73J	<0.35UJ
	Arsenic	mg/kg	0.93	16		9.5	8.9	6.6	5.6	7.7	7
	Barium	mg/kg	19	350		84	65	130	140	190	170
	Beryllium	mg/kg	0.37	14		0.44J	0.43	0.47	0.51	0.47	0.52
	Cadmium	mg/kg	0.47	2.5		0.39J	0.21J	0.23J	0.14J	0.54	0.3J
	Calcium	mg/kg	470			2700	1300	2200	710	2800	1300
	Chromium (III+VI)	mg/kg	0.47	22		12	13	12	12	13	13
	Chromium (hexavalent)	mg/kg	0.42	22		0.17J	0.2J	0.6	0.26J	0.35J	0.37J
	Cobalt	mg/kg	4.7			7.8	8.3	7.1	7.6	7.1	7.4
	Copper	mg/kg	2.3	270		25	21	14	26	28	22
	Iron	mg/kg	9.3			20,000	21,000	17,000	18,000	17,000	19,000
	Lead	mg/kg	0.93		1000	330	110	94	38	320	130J+
	Magnesium	mg/kg	470			2500	2700	2300	2300	2300	2400
	Manganese	mg/kg	1.4	2000		430	370	630	640	650	650
	Nickel	mg/kg	3.7	140		20	21	15	16	16	16
	Potassium	mg/kg	470			800	640	810	580	1000	670
	Selenium	mg/kg	0.32	36		0.56J	<0.37U,^	0.69J	0.63J	0.81J	0.86J
	Silver	mg/kg	0.067	36		<0.19U	<0.15U	<0.17U	<0.16U	0.23J	<0.17U
	Sodium	mg/kg	130			<160U	<130U	<140U	<140U	<140U	<140U
	Thallium	mg/kg	0.27			<0.57U	<0.46U	<0.51U	<0.49U	<0.52U	<0.5U
	Vanadium	mg/kg	4.7			17	16	15	16	15	17
	Zinc	mg/kg	1.9	2200		160	120	82	65	220	120J+
	Mercury	mg/kg	0.011	0.81		0.069	0.039	0.069	0.034	0.48	0.29J-
PCBs	Total PCBs	mg/kg		1		-	-	-	-	-	-
	Arochlor 1016	mg/kg	0.0079			-	-	-	-	-	-
	Arochlor 1221	mg/kg	0.011			-	-	-	-	-	-
	Arochlor 1232	mg/kg	0.0043			-	-	-	-	-	-
	Arochlor 1242	mg/kg	0.0064			-	-	-	-	-	-
	Arochlor 1248	mg/kg	0.0041			-	-	-	-	-	-
	Arochlor 1254	mg/kg	0.0064			-	-	-	-	-	-
	Arochlor 1260	mg/kg	0.006			-	-	-	-	-	-
	Arochlor 1268	mg/kg	0.0032			-	-	-	-	-	-
	Arochlor 1262	mg/kg	0.0054			-	-	-	-	-	-
PAHs	Total PAHs	mg/kg			100	-	-	-	-	-	-
	Acenaphthene	mg/kg	0.0067	100		-	-	-	-	-	-
	Acenaphthylene	mg/kg	0.008	100		-	-	-	-	-	-
	Anthracene	mg/kg	0.0069	100		-	-	-	-	-	-
	Benz(a)anthracene	mg/kg	0.0088	1		-	-	-	-	-	-
	Benzo(a) pyrene	mg/kg	0.007	1		-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.011	1		-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.007	100		-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.014	1		-	-	-	-	-	-
	Chrysene	mg/kg	0.0084	1		-	-	-	-	-	-
	Dibenz(a,h)anthracene	mg/kg	0.0078	0.33		-	-	-	-	-	-
	Fluoranthene	mg/kg	0.0075	100		-	-	-	-	-	-
	Fluorene	mg/kg	0.0092	100		-	-	-	-	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0072	0.5		-	-	-	-	-	-
	Naphthalene	mg/kg	0.006	100		-	-	-	-	-	-
	Phenanthrene	mg/kg	0.011	100		-	-	-	-	-	-
	Pyrene	mg/kg	0.0071	100		-	-	-	-	-	-

Notes:

Only detected analytes are shown. See analytical reports for full details.

Screening critieria for the FRAare the previously approved cleanup goals for voluntary remedial actions (total PAHs <= 100 mg/kg and lead <= 1,000 mg/kg) and Residential SCOs for PCB and other metal COPCs.

Total PAH concentrations are calculated as the sum of detected concentrations of the following PAHs based on PAHs reported for confirmatory samples collected during the voluntary remedial action conducted by STI in 1999-2000 (URS, 2002): naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, debenzo(a,h)anthracene, and benzo(g,h,i)perylene. Total PAH concentrations are compared to the NYSDEC-approved voluntary action cleanup goal of 100 mg/kg.

SCO - Soil Cleanup Objective (6 NYCRR Subpart 375)

PCBs - Polychlorinated Biphenyls

SVOCs - semi-volatile organic compounds

ft bgs - feet below ground surface

mg/kg -milligrams/kilogram

B - Compound was found in the blank and sample

J - estimated values

U - values below the reporting limit

Shaded values exceed screening criteria.

TABLE 3
PROPOSED SOIL SAMPLING

Former Scott Technologies Site
Elmira, New York

Proposed Field ID	Sampling Interval			Sample Analysis			Rationale
	Surface 0 to 0.17 ft bgs	Sub 1 0.17 to 2 ft bgs	Sub 2 2 to 4 ft bgs	PAHs	Metals ¹	PCBs	
STI-B100		X		X			Additional delineation of PAHs in soil and surface soil adjacent to property line
STI-B101	X	X	H	X			
STI-B102	X	X	H	X			
STI-B103	X	X	H	X			
STI-B104		X	H	X			
STI-B105	X	X	H	X			
STI-B106	X	X	H	X			
STI-B107	X	X	H	X			
STI-B108	X	X	H	X			
STI-B109	X			X			
STI-B110	X			X			
STI-B111	X			X			
STI-B112	X			X			
STI-B113	X			X			
STI-B114	X			X			
STI-B115	X			X			
STI-B116	X			X			
STI-B117	X	X	H	X	X		
STI-B118	X			X			
STI-B119	X			X			
STI-B120	X	X		X			Additional delineation of PAHs in soil and surface soil in vicinity of MSA
STI-B121	X	X	H	X			
STI-B123	X			X	X		
STI-B125			X	X			Additonal delineation of PAHs and metals in subsurface soils adjacent to the property line
STI-B126			X	X			
STI-B127	X	X	H	X	X		
STI-B128			X	X	X		
STI-B129			X	X			
STI-B130	X	X		X	X		Additional delineation of metals in surface and shallow subsurface soils adjacent to property line
STI-B131	X	X		X	X		
STI-B132	X	X		X	X		
STI-B134	X	X	H		X		
STI-B136	X	X	H		X		
STI-B137	X	X	H	X	X		
STI-B139	X	X	H	X	X		
STI-B141		X	H		X		
STI-B142		X	H		X		
STI-B143		X	H		X		
STI-B144		X	H		X		
STI-B145	X	X	H			X	Additional delineieation of PCBs in surface and shallow subsurface soils in vicinity of MSA
STI-B146	X					X	
STI-B147	X					X	
STI-B148	X	X	H			X	
STI-B149	X					X	
STI-B150	X					X	
STI-B153	X					X	
STI-B154	X	X	H			X	
STI-B155		X	H			X	Additional delineieation of metals and PCBs in at-depth soils adjacent to property line
STI-B156			X			X	
STI-B157			X			X	
STI-B158			X		X		
STI-B159			X		X		Additional delineieation of PAHs in surface and shallow subsurface soils in vicinity of MSA
STI-B163	X	X		X			
STI-B164	X	X		X			
STI-B166	X	X		X			
STI-B167	X	X		X		X	
STI-B168	X			X			
STI-B169	X			X			
STI-B171	X			X			
STI-B173	X			X			
STI-B174	X			X			
STI-B177		X		X			
STI-B178	X			X			
STI-B179	X			X			
STI-B180		X		X			
STI-B182	X			X			
STI-B184	X	X		X			
STI-B185		X		X			
STI-B186		X		X			
STI-B187		X		X			
STI-B189		X		X			
STI-B190	X	X		X			
STI-B191		X		X			

Notes:

1. Metals analyses include TAL metals and hexavalent chromium.

FRA - Former Recreation Area ft bgs - feet below ground surface

MSA - Material Staging Area PAHs - Polynulclear aromatic hydrocarbons

PCB - Polychlorinated Biphenyls

H - Hold

TABLE 4 - PROJECT SCHEDULE
Former Scott Technologies Site #808049
Elmira, New York

Task Name	Duration	Start	Finish	Notes
<i>Site Characterization Work Plan</i>	93 days	12/05/14	04/30/15	
SC Work Plan Field Activities	29 days	09/14/15	10/22/15	
SC Work Plan Data Analysis and Validation	64 days	10/22/15	01/19/16	
<i>SC Work Plan Addendum #1</i>	150 days	05/25/16	12/20/16	
<i>SC Work Plan Addendum #2</i>	787 days	01/04/17	01/09/20	
<i>SC Work Plan Addendum #3</i>	292 days	11/20/18	01/01/20	
Work Plan Addendum Development	20 days	11/20/18	12/17/18	
Work Plan Addendum Preparation	9 days	11/20/18	11/30/18	
Client Review	1 day	12/03/18	12/03/18	
STCC Review	10 days	12/04/18	12/17/18	
Submittal to NYSDEC	0 days	12/20/18	12/20/18	
NYSDEC Conditional Approval	0 days	08/28/19	08/28/19	
Work Plan Revision	43 days	08/28/19	10/25/19	
Submittal to NYSDEC	0 days	11/14/19	11/14/19	
NYSDEC Review	1 wk	11/14/19	11/20/19	
NYSDEC Conditional Approval	0 days	11/21/19	11/21/19	
Work Plan Revision	43 days	11/22/19	12/06/19	
Submittal to NYSDEC	0 days	12/09/19	12/09/19	
NYSDEC Approval and NTP	0 days	12/13/19	12/13/19	
Placement of Work Plan in Repository	1 wk	12/14/19	12/20/19	
Field Program	13 days	11/21/19	11/20/19	
Procurement/STCC Coordination	1 wk	11/22/19	11/28/19	Confirming access with STCC
Mobilization	1 wk	11/29/19	12/05/19	
Soil Investigation	3 days	12/18/19	12/20/19	
Data Review and Validation	4 wks	01/06/20	01/31/20	
<i>Shallow Soil IRM Work Plan</i>	60 days	01/20/20	03/27/20	
Work Plan Development	20 days	01/20/20	02/14/20	Includes STCC Review
Submittal to NYSDEC	0 days	02/14/20	02/14/20	
NYSDEC Review	6 wks	02/17/20	03/27/20	
NYSDEC Approval	0 days	03/27/20	03/27/20	
<i>Shallow Soil IRM</i>	40 days	03/30/20	05/20/20	
Procurement/STCC Coordination	2 wks	03/30/20	04/10/20	
Mobilization	2 wks	04/13/20	04/24/20	
Construction	3 wks	04/30/20	05/20/20	Coordination with MSA Decommissioning
<i>Shallow Soil IRM Construction Completion Report</i>	3 mons	05/21/20	08/12/20	
<i>Site Characterization Report</i>	80 days	05/21/20	09/09/20	

NYSDEC Correspondence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 | F: (585) 226-8139
www.dec.ny.gov

Via E-mail

August 28, 2019

Mr. Kevin Krueger, PE
Unisys Corporation
Corporate Environmental Affairs
3199 Pilot Knob Road
Eagan, MN 55121

Dear Mr. Krueger:

**Re: Site Characterization Work Plan Addendum #3
Former Scott Technologies Site #808049
Elmira, Chemung County**

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have completed the review of "Site Characterization Work Plan Addendum #3" for the Former Scott Technologies Site #808049, dated 20 December 2018 and approve contingent upon the following:

1. Figures are appropriately titled for the 0.17 to 2-ft. below ground soil sampling interval.
2. PAHs in excess of 100 ppm are delineated vertically (below 2')
3. Surface and shallow soil samples are delineated to residential use SCOs.

Please provide the requested information and an updated work plan schedule within 20 days. Additionally, a copy of the work plan, this approval and the updated schedule must be placed in the document repository for the site before proceeding with work.

Sincerely,

Timothy Schneider, P.E.
Professional Engineer 1

P. Brookner
A. Krasnopoler
B. Schilling
M. Cruden



Department of
Environmental
Conservation

H. Dudek
D. Harrington
B. Conlon
D. Hettrick
J. Deming