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 I F: (585) 226-8139
www.dec.ny.gov

Via E-mail

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

May 18, 2020

Re: Shallow Soil Removal IRM Work Plan
Former Scott Technologies Site #P808049
Elmira, Chemung County

Dear Mr. Krueger:

The New York State Department of Environmental Conservation (NYSDEC), in consultation with New York State Department of Health, has completed its review of the "Shallow Soil Removal Interim Remedial Measures Work Plan" for the Former Scott Technologies Site #P808049 dated 7 May 2020 and provide notice to proceed with work contingent upon:

1. The IRM work is not a site remedy, additional lateral and vertical delineation of impacted soils will be necessary to complete the Site Characterization.

2. Adjacent residential property owners are informed via certified mail at least 2 weeks in advance of IRM work west of the Former Recreation Area (FRA). Access to the FRA must remain restricted during non-work hours.

3. An updated calendar schedule is provided.

Please compile a final document including this letter and schedule for inclusion in the document repository.

If you have questions, feel free to contact me at (585) 226-5480 or set up a conference call to discuss.

Sincerely,

Timothy Schneider, P.E.
Professional Engineer 1

P. Brookner / A. Krasnopoler / E. Tollefsrud
M. Cruden / D. Pratt / J. Deming / S. Bogardus
A. Meinstein

B&B Engineers & Geologists
of new york, p.c.
an affiliate of Geosyntec Consultants

10211 Wincopin Circle, Floor 4
Columbia, Maryland 21044
PH 410.381.4333
FAX 410.381.4499
www.geosyntec.com

7 May 2020

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: **Shallow Soil Removal Interim Remedial Measures Work Plan**
Former Scott Technologies Site (#P808049)
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, B&B Engineers & Geologists of New York, P.C. (collectively, Geosyntec) are submitting this Shallow Soil Removal Interim Remedial Measures Work Plan (IRM) Work Plan for the Former Scott Technologies Site (Site #P808049) (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 Addendum #1 dated 1 August 2016, Addendum #2 dated 3 March 2017, Addendum #3 dated 20 December 2019, and Addendum #4 dated 4 March 2020. The proposed IRM will address surface and shallow subsurface soils with detections above Site screening criteria south of Building 88 and outside of the Former Recreation Area (FRA). This IRM Work Plan has been revised in response to agency comments received on 28 April 2020.

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. On 16 July 2014, Unisys entered into an Order on Consent and Administrative Settlement (Order) for Site Characterization with the NYSDEC.

Scott Technologies Inc. (STI), a former owner of the Site, entered into a Voluntary Cleanup Agreement (VCA) 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.

STI conducted additional voluntary remedial action in the 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[1] (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 disposal. Deed restrictions were filed in July 2005 that limited potential future use of the Site to commercial or industrial uses except for day care facilities and required maintenance of the FRA fencing and vegetative cover in accordance with a Site Management Plan.

Since May 2017, Unisys has used a portion of the Site located south of Building 88 with the agreement of STCC as a Material Staging Area (MSA) to stockpile soils excavated during IRM conducted on the Former Sperry Remington Site – North Portion (NYSDEC #c808022) as shown on **Figure 2** in 2017, 2018 and 2019. Stockpiled soils were reused as backfill pending NYSDEC approval or transported for disposal as non-hazardous waste. Unisys plans to decommission the MSA and restore that portion of the Site to previous use by the end of May 2020.

PREVIOUS SITE CHARACTERIZATION ACTIVITIES

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 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 (**Figure 2)**. As discussed with NYSDEC and the New York State Department of Health (NYSDOH) on 11 September 2019, residential screening criteria were also considered for characterization of unfenced areas south of Building 88 that are adjacent to residential properties. Previously approved cleanup goals for the voluntary remedial actions conducted by STI are considered relevant for consistency with prior actions at the Site.

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[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, dibenzo(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.

Soil investigations in December 2019 in accordance with SC Work Plan Addendum #3 provided additional horizontal and vertical delineation of PCB, PAH, and metal COPCs in the area south of Building 88 and outside of the fenced portion of the FRA. Analytical results for PCBs, PAHs and metals from all SC soil investigations are summarized on **Tables 1, 2** and **3**, respectively, and compared to screening criteria. Analytical reports for Addendum #3 samples are included in **Attachment 1**. Data validation is pending. Some proposed surface soil samples could not be collected in the vicinity of the MSA due to frozen soil conditions.

SC soil investigation results for PCBs are summarized on **Table 1**. Concentrations of total PCBs in surface soil south of Building 88 exceeded the Industrial SCO of twenty-five (25) mg/kg and the Residential SCO of one (1) mg/kg as shown in **Figure 3A**. Industrial SCO exceedances at STI-B27 and STI-B37 are bounded by samples that do not exceed the Industrial SCO but may exceed the Residential SCO. Concentrations of total PCBs in shallow subsurface soil south of Building 88 exceeded the Residential SCO at STI-B27 and STI-B37 in **Figure 3B**. Concentrations of total PCBS in other shallow subsurface soil samples did not exceed the Residential SCO. Total PCBs were not detected above the Industrial or Residential SCO in samples collected at 2 to 4 ft bgs as shown on **Table 1**.

SC soil investigation results for PAHs are summarized on **Table 2**. PAH concentrations detected in surface soil south of Building 88 exceeded Residential and Industrial SCOs in an area adjacent to the northeast corner of the MSA, in an area further to the east adjacent to the eastern property boundary and at two (2) sample locations, STI-B188 and STI-B190A, between those areas as shown in **Figures 4A**. PAH concentrations detected in subsurface soil south of Building 88 exceeded Residential and Industrial SCOs in the area adjacent to the eastern property boundary and at sample locations STI-B188 and STI-B190A as shown in **Figures 4B.** PAHs detected at concentrations above Residential SCOs in samples collected at 2 to 4 ft bgs as shown in **Figure 4C**. Concentrations of PAHs in surface and shallow subsurface soils south of Building 88 and in surface soil outside the fenced portion of the FRA exceeded the Residential SCOs as shown in **Figures 4A** and **4B**, respectively.

SC soil investigation results for metals are summarized on **Table 3**. Concentrations of metals, particularly arsenic exceeded Industrial SCOs in surface soil in the area adjacent to the eastern property boundary as shown on **Figure 5A**. Arsenic concentrations in shallow subsurface soils exceed the Industrial SCO in the same area as shown on **Figure 5B**. Arsenic was also detected above Industrial SCO at 2 to 4 feet bgs at STI-B128 as shown on **Table 3**. Other metals including barium, cadmium, chromium, copper, lead and nickel were detected above Residential SCOs in surface and shallow subsurface soils in the area south of Building 88 as shown on **Figures 5A** and **5B**, respectively, and **Table 3**.

One (1) surface soil sample at STI-B32, located outside the FRA fence, had a detection of total chromium that exceeded the Residential SCO for hexavalent chromium of 22 mg/kg (no analysis for hexavalent chromium was performed) and a detection of lead that exceeded the Residential SCO of 400 mg/kg but not the previously approved VCA cleanup goal of 1,000 mg/kg, as shown on **Table 3**. The surface soil sample collected at STI-B123 had a detection of arsenic that of 22 mg/kg that exceeded the Industrial/Residential SCO of 16 mg/kg, a detection of lead of 3,100 mg/kg that exceeded the Residential SCO of 400 mg/kg and the previously approved VCA cleanup goal of 1,000 mg/kg, a detection of total chromium of 38 mg/kg that exceeded the Residential SCO for trivalent chromium of 36 mg/kg, and a detection of barium of 1,400 mg/kg that exceeded the Residential SCO of 350 mg/kg. Results for surrounding surface soil samples do not exceed Residential SCOs as shown on **Figure 5A**.

PURPOSE

Unisys is proposing to conduct a shallow soil removal IRM at this time in order to take advantage of existing infrastructure at the Site including the MSA before it is decommissioned in May 2020. The proposed IRM will remove surface and shallow subsurface soils with COPC detections above the following cleanup goals based on current land use:

South of the STCC Facility:

- PCBs: Industrial SCO of twenty-five (25) mg/kg;
- PAHs: 100 mg/kg total PAHs; and
- Metals: Industrial SCOs.

West of the FRA Fence:

- Metals: Residential SCOs.

The proposed cleanup goal of 100 mg/kg total PAHs for the areas of south of the STCC facility is based on the previously approved cleanup goal for STI voluntary remedial action. Additional SC soil investigation may be required after IRM completion to complete COPC delineation in some areas. Proposed excavations to address cleanup goals for PCB, metals, and PAHs are presented in **Figures 3A** and **3B**, **Figures 5A** and **5B**, and **Figures 6A** and **6B**, respectively.

PROPOSED SCOPE OF WORK

<u>Excavation and Soil Management</u>

Excavation boundaries are shown on **Figure 7**. Solid excavation boundaries identify delineated boundaries where soil concentrations are below cleanup goals for both surface and shallow subsurface soils. Dashed excavation boundaries identify boundaries where delineation is incomplete but sufficient for IRM design. Surface and shallow subsurface soil removal will be conducted in accordance with the Construction Drawings provided as **Attachment 2**. Surface soils with COPC concentrations that exceed IRM cleanup goals will be excavated to a depth of six (6) inches bgs. Shallow subsurface soils with COPCs that exceed IRM cleanup goals will be excavated to a depth of one (1) foot bgs in order to provide one (1) foot of soil cover in accordance with NYSDEC *Soil Cleanup Policy CP-51* (dated 21 October 2010).

Post-excavation confirmation sidewall samples will be collected at a rate of one (1) sample per thirty (30) linear feet (LF) and bottom samples will be collected at a rate of one (1) sample per nine hundred (900) square feet (SF) of bottom area in general accordance with Section 5.4 (b) NYSDEC document DER-10 *Technical Guidance for Site Investigation and Remediation* (dated 3 May 2010). **Table 4** presents a summary of proposed excavation perimeter lengths and bottom areas and proposed analyses for confirmation samples. Confirmation samples will be submitted to the fixed laboratory for expedited (i.e. 1-day turnaround time) analyses for PCBs, PAHs, and target analyte list (TAL) metals in accordance with the Quality Assurance Project Plan (QAPP) included as **Attachment 3**. Unvalidated data will be available for NYSDEC review approximately three (3) days after sample collection. Upon receipt of unvalidated data, analytical results will be compared to the IRM cleanup goals. NYSDEC will be consulted regarding decisions to step-out or step-down excavations with consideration of the project schedule. The plan for step-out and step-down of the excavations is as follows:

- If a post-excavation sidewall sample exceeds an IRM cleanup goal, the excavation will be extended laterally and documentation sidewall samples will be collected; and
- If a post-excavation bottom sample exceeds an IRM cleanup goal, the excavation will be extended down by up to six (6) inches and documentation bottom samples will be collected.

COPCs remaining in place will be documented for Site management.

Backfilling and Restoration

Excavations will be backfilled to original grades as shown on the Construction Drawings (**Attachment 2**). Prior to backfilling, the extent of the excavation will be surveyed and a demarcation layer, consisting of orange snow fencing material, white geotextile or equivalent material, will be placed in the excavation to provide a visual reference of the limit of fill material for future excavations. Backfilling will begin after achievement of cleanup goals has been demonstrated by unvalidated confirmation sampling results. NYSDEC approval will be obtained prior to backfilling any portion of the excavation. Import fill soil will be placed into the excavation up to six (6) inches bgs and compacted in six (6) inch lifts. Imported topsoil approved for import to the Site will be placed in one (1) six (6) inch lift in vegetated areas. Imported fill and topsoil will be certified to meet the requirements of Section 5.4 (e) of DER-10 for unrestricted use including emerging contaminants. The surface will be seeded to provide vegetative cover. Paved areas will be restored with asphalt.

Off-Site Disposal

Soils identified for disposal as non-hazardous waste will be stockpiled in the MSA for off-Site transport and disposal Stockpiles will be maintained and secured so that soils do not migrate from staging and stockpile locations. For soils have not been pre-characterized for disposal, composite samples will be collected for analyses for waste characteristics at a frequency consistent with the requirements of the receiving facility. Trucks will be loaded in the non-hazardous soil stockpile area for transport for off-Site disposal at an appropriate treatment storage and/or disposal facility. Each shipment will have the required manifest, labeling and placarding in accordance with Federal and state laws and regulations.

MSA Decommissioning

After off-Site transport and disposal of soil stockpiles and other non-hazardous waste is substantially complete, the MSA will be decommissioned and the area returned to original use pursuant to the approved 2019 IRM Work Plan (Geosyntec, 2019) for the Former Sperry Remington Site – North Portion. The MSA base layer and underlying geotextile fabric will be removed and disposed of off-Site as non-hazardous waste. Surface soil samples will be collected from the original ground surface to a depth of two (2) inches bgs at a frequency of one per 3,600 square feet (60-foot by 60-foot grid) and submitted to the fixed laboratory for expedited (i.e. 1-day turnaround time) analyses for PCBs, PAHs, and TAL metals in accordance with the QAPP included as **Attachment 3**. Unvalidated data will be available for NYSDEC review approximately three (3) days after sample collection. Upon receipt of unvalidated data, analytical results will be compared to the IRM cleanup goals. If a surface soil sample exceeds an IRM cleanup goal, soil will be removed from the affected area to a depth of six (6) inches bgs and documentation samples will be collected. The area removed will be surveyed and demarcation layer will be placed prior to the placement of topsoil. Decisions regarding additional soil removal will be made in consultation with NYSDEC.

PERMITS AND TEMPORARY CONTROLS

Soil and Sediment Erosion Control

A SWPPP will document selection, design, installation, implementation and maintenance of control measures and practices that will be used to minimize the discharge of pollutants in storm water and prevent a violation of water quality standards. Soil and sediment erosion controls will be established within the limit of disturbance as shown on the construction drawings presented in **Attachment 2** to control runoff during construction and prevent sediment from entering the existing storm sewer system. Erosion and sediment controls will be in accordance with the "New York State Standards and Specification for Erosion and Sediment Control" (NYSDEC, 2016) and will be inspected weekly during active construction with additional inspections following rain events.

Community Air Monitoring

Community air monitoring will be conducted in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP) to monitor potential impacts to the downwind community (potential receptors include residences, businesses, and workers not directly involved with IRM activities). Real-time air monitoring using direct reading instruments will be conducted during soil remediation activities whenever Site soils are disturbed or imported soils are handled on Site. A minimum of one (1) upwind and four (4) downwind locations shall be used for real-time monitoring. The four (4) downwind locations shall be equally distributed along the perimeter of the work area. Designated upwind and downwind locations will vary as a result of daily prevailing wind patterns During work activities within twenty (20) feet of potentially exposed populations or occupied structures, continuous monitoring locations will be selected based on the nearest potentially exposed individual and the location of ventilation system intakes for nearby structures. If action levels are exceeded at those locations, then the source of the exceedance will be evaluated, and the positioning of upwind and downwind monitoring stations will be reassessed.

Daily Construction Inspection Reports (Daily Reports) will be sent to the NYSDEC and the NYSDOH the following day. Daily Reports summarizing work completed Friday through Sunday will be submitted no later than the following Monday. CAMP data will be attached to the Daily Report.

Dust Mitigation Practices

Dust control shall be conducted to prevent the presence of visible dust as determined by visual observation and continuous dust monitoring. Visible dust shall not leave the exclusion zone. Dust control measures shall be applied periodically throughout each workday. Dust control may be conducted by sprinkling with water until the surface is wet; restricting vehicle speeds, covering excavation areas and stockpile areas; and reducing the excavation size and/or number of excavations. Additional dust control measures will be considered during intrusive activities within twenty (20) feet of potentially exposed populations or occupied structures including dust barriers and special ventilation devices.

To mitigate the potential for fugitive dust from the Site, dust mitigation practices described in the following sections will be implemented during IRM construction. Dust mitigation practices will be reassessed in the event that action levels are exceeded during real-time monitoring.

Water Application Practices

Water application shall be used to suppress or mitigate the generation of fugitive dust or odors during excavation, backfilling, grading, and supplemental activities. Water will be applied by a water truck to carpet the targeted soil using fine atomized sprays. Water will be applied in the same manner to suppress dust on permanent and temporary haul roads, stockpiles, and areas undergoing the aforementioned activities.

Stockpile Management Practices

Additional practices shall be implemented for the control and mitigation of dust from the temporary stockpiles created during soil excavation and grading:

- Stockpiles shall be maintained to avoid steep sides or faces;
- Stockpiles shall be covered at the end of each workday and. as deemed necessary by the prevailing wind conditions; and
- Stockpiles shall not be placed within twenty five (25) yards of occupied buildings.

Grading Practices

The following grading practices shall be followed to minimize dust generation:

- Construction excavators will be emptied slowly;
- Direct water spraying shall be directed at the load buckets and excavation face; and
- Drop height from the loader bucket shall be minimized.

Vehicular Practices

The following vehicular practices shall be followed to minimize dust generation:

- Prior to loading or unloading at the Site, all trucks will be staged on-Site as much as possible to avoid potential impacts on the local streets;
- Trucks will not be allowed to sit idling more than 5 minutes to avoid unnecessary exhaust fumes;
- While on-Site, all vehicles are required to maintain slow speeds, e.g., less than ten miles per hour (10 mph), for safety purposes and for dust control measures;
- Vehicular traffic in non-designated travel areas shall be minimized;
- The size of the vehicle staging areas shall be limited;
- The trucks will remain on clean areas to the extent possible in an effort to minimize the need to decontaminate the truck tires; and
- All haul trucks shall be covered with tarps prior to transporting soil to or from the Site.

Water Management

Storm water contacting potential COPC-impacted soils (contact water) will be segregated from storm water entering areas cleaned of COPC-impacted soils (non-contact water). Contact and non-contact water shall remain separated at all times. Contact water generated within the excavation will be minimized and managed to the extent practical. Grading shall be performed as necessary to divert surface water runoff from entering excavation areas and all stockpiles will be tightly covered. Diversion control berms and temporary drainage channels shall be constructed as needed and maintained.

HEALTH AND SAFETY

All Site activities will be performed in such a manner as to ensure the safety and health of all personnel and the surrounding community. All Site activities shall be conducted in accordance with all pertinent general industry (29 CFR 1910) and construction (29 CFR 1926) Occupational Health and Safety Administration (OSHA) standards, as well as any other applicable New York State and municipal codes or ordinances. All

Site activities will comply with those requirements set forth in OSHA's final rule entitled Hazardous Waste Operation and Emergency Response (HAZWOPER), 29 CFR 1910.120, Subpart H.

To ensure that all Site activities are in compliance, each contractor will prepare a Health and Safety Plan (HASP) in accordance with the aforementioned regulations. Each HASP shall conform to the requirements of 29 CFR 1910.120 and all applicable state, federal, local, and other health and safety requirements and safe construction practices not specifically identified in these requirements.

SCHEDULE AND DELIVERABLES

Schedule

Unisys will commence the implementation of surface soil removal upon receiving notice to proceed from NYSDEC. Completion of the work will be dependent on weather conditions and access. The proposed schedule for the IRM is presented in **Table 5**.

Anticipated working hours are Monday through Saturday during daylight hours. Work on Sundays may be required to meet schedule milestones.

Deliverables

A construction completion report (CCR) will be prepared in accordance with Section 5.8 of DER-10 to document the implementation of the IRM. The CCR will include a description of IRM construction activities, as-built drawings, daily field reports, analytical data reports, and disposal manifests. The CCR will be delivered to NYSDEC within ninety (90) days of completing transport of soil stockpiles for off-Site disposal, site restoration, and demobilization.

CLOSING

Geosyntec appreciates the opportunity to submit this work plan to the NYSDEC, NYSDOH and STCC.
If you have any questions, please contact Mr. Kevin Krueger of Unisys at (651) 212-7273.

Sincerely,

Paul A. Brookner

Paul Brookner
Senior Principal/Project Director

Aron Krasnopoler

Aron Krasnopoler, Ph.D., P.E.
Senior Engineer/Project Manager

Attachments: Figure 1 – Site Location Map
Figure 2 – Site Map

Figure 3A – Extent of SCO Exceedances for PCBs in Surface Soil (0-0.17 ft bgs)
Figure 3B – Extent of SCOs Exceedances for PCBs in Shallow Subsurface Soil (0.17-2 ft bgs)
Figure 4A – Extent of SCO Exceedances for PAHs in Surface Soil (0-0.17 ft bgs)
Figure 4B – Extent of SCOs Exceedances for PAHS in Shallow Subsurface Soil (0.17-2 ft bgs)
Figure 4C – Extent of SCOs Exceedances for PAHS in Subsurface Soil (2-4 ft bgs)
Figure 5A – Extent of SCO Exceedances for Metals in Surface Soil (0-0.17 ft bgs)
Figure 5B – Extent of SCO Exceedances for Metals in Surface Soil (0-0.17 ft bgs)
Figure 6A - Proposed Excavation for Total PAHs ins Surface Soil (0-0.17 ft bgs)
Figure 6B - Proposed Excavation for Total PAHs ins Shallow Subsurface Soil (0.17-2 ft bgs)
Figure 7 – Proposed IRM Excavation 0-1 ft bgs
Table 1 – Summary of PCB Analytical Results in Soil
Table 2 – Summary of PAH Analytical Results in Soil
Table 3 – Summary of Metal Analytical Results in Soil
Table 4 – Bottom and Sidewall Excavation Areas and Samples
Table 5 – IRM Schedule
Attachment 1 – Analytical Reports
Attachment 2 – Construction Drawings
Attachment 3 – Quality Assurance Project Plan (QAPP)

Copies to:
Dave Pratt, NYSDEC
Benjamin Conlon, NYSDEC
Sara Bogardus, NYSDOH
Michael Cruden, NYSDEC
Adam Meinstein, STCC
Kevin Murphy, Wladis Law Firm
Kevin Krueger, Unisys
Terry Etter, Unisys
Beth Parker, Unisys
Michael G. Murphy, Beveridge & Diamond

Certification

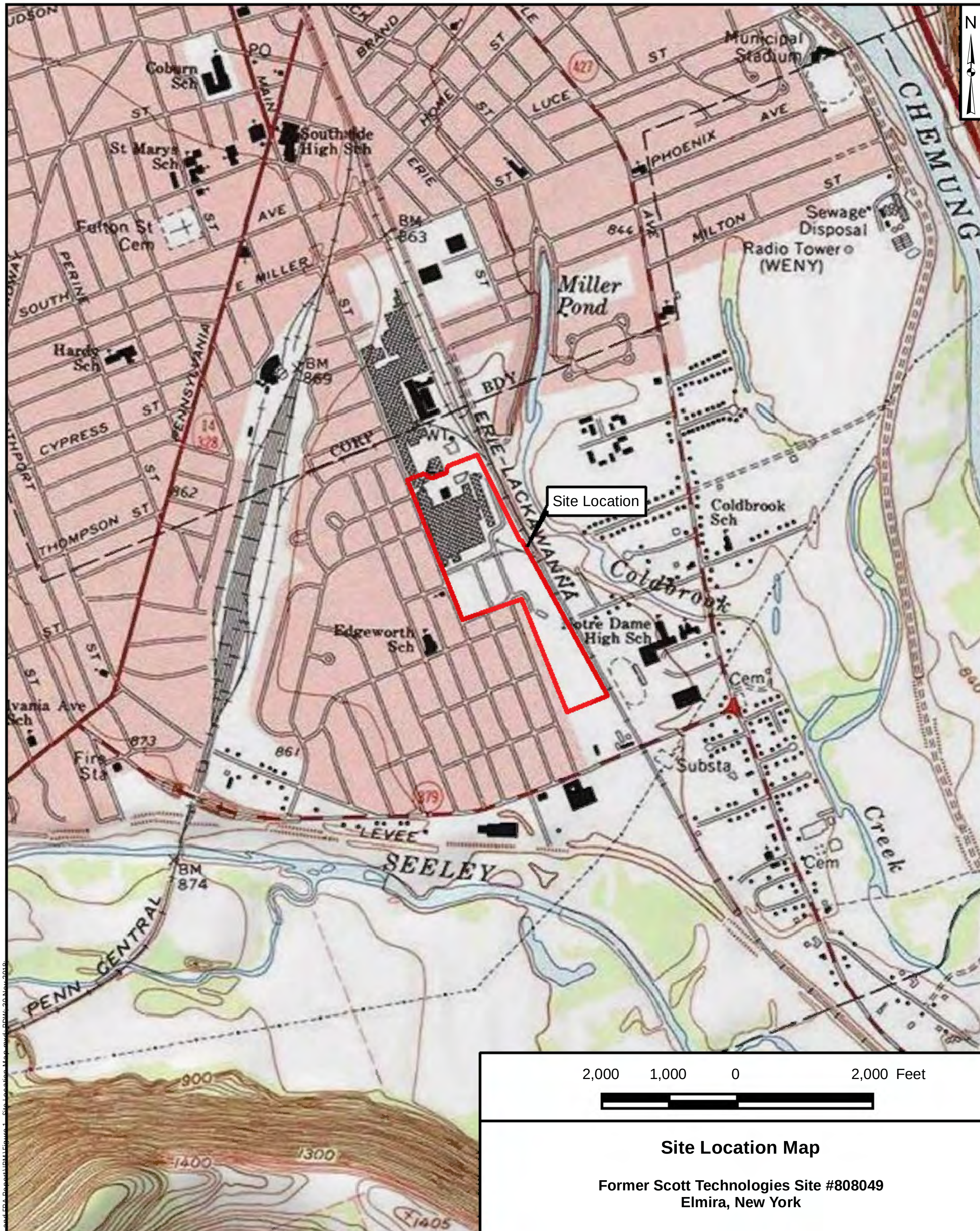
I Aron Krasnopoler certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Interim Remedial Measures Work Plan for the Former Scott Technologies Site dated 7 May 2020 was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

STATE OF NEW YORK
ARON A. KRASNOPOLER
089954-1
LICENSED PROFESSIONAL ENGINEER

5/7/2020

Aron Krasnopoler, P.E.

FIGURES



Site Location Map

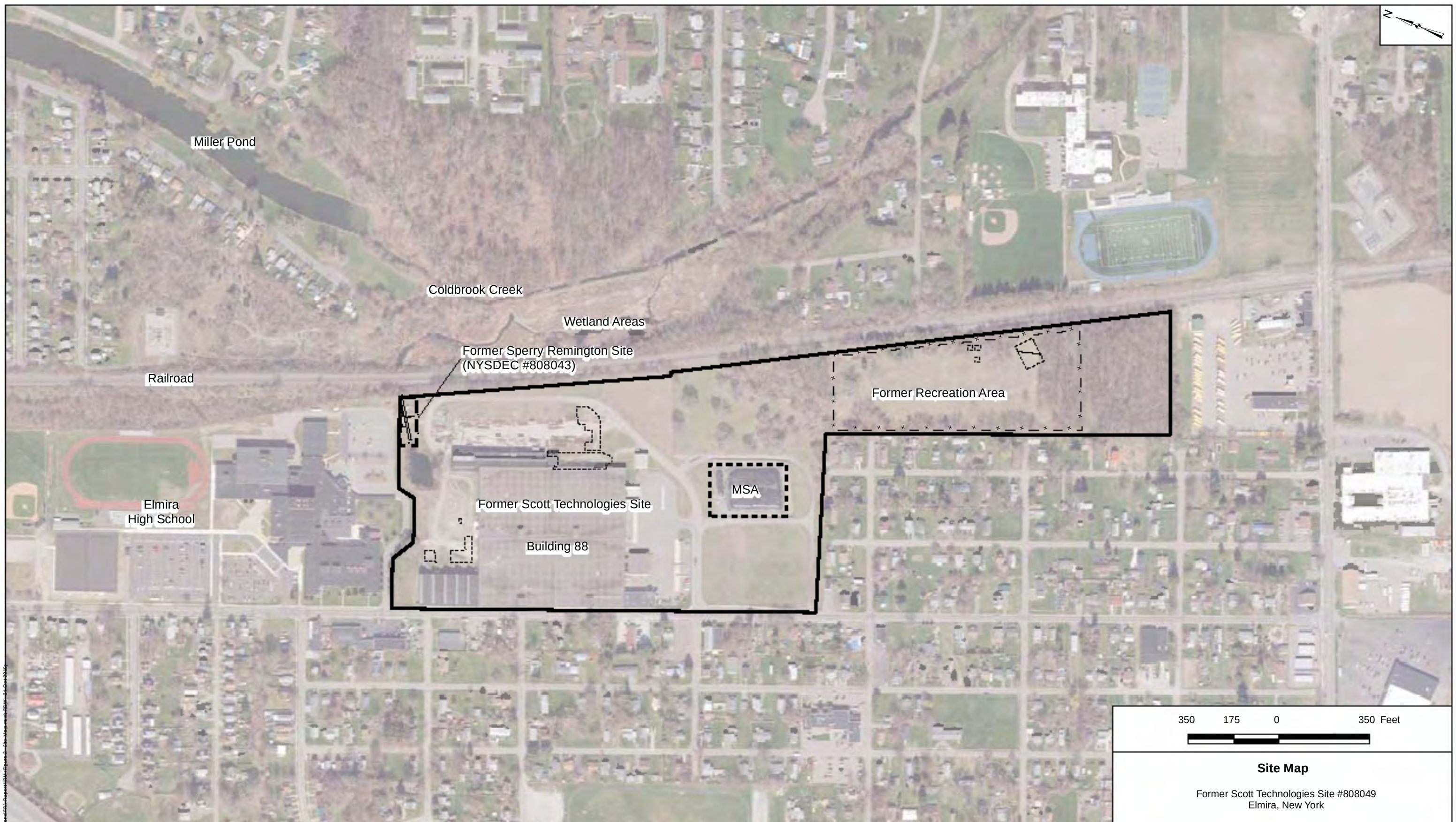
Former Scott Technologies Site #808049
Elmira, New York

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.

Geosyntec consultants

Figure 1

Columbia, Maryland | October 2019



Site Map

Former Scott Technologies Site #808049
Elmira, New York

Legend

- Site Boundary - Former Sperry Remington
- Approximate Areas of Excavation
- Site Boundary - STCC
- 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 - Material Staging Area
MSA footprint is approximate.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User

Geosyntec consultants

Columbia, Maryland

October 2019

Figure 2

Legend

- Work Plan Samples Not Collected

STCC Facility (Residential)

- Non-Detect
- Does Not Exceed Residential SCO (1 mg/kg)
- Does Not Exceed Industrial SCO (25 mg/kg)
- Exceeds Industrial SCO (25 mg/kg)
- Proposed Excavation Area
- MSA
- Site Boundary
- FRA Fence

Notes

Screening criteria for PCBs are Soil Cleanup Objective (SCOs) presented in 6 NYCRR Subpart 375 as appropriate based on current and potential land use.
Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 07 May 2020. Image is dated 2 June 2010.
PCBs - Polychlorinated Biphenyls
STCC - Southern Tier Commerce Center
FRA - Former Recreation Area
MSA - Material Staging Area
ft bgs - feet below ground surface
MSA footprint is approximate

Extent of Exceedances for SCO PCBs in Surface Soil (0-0.17 fts bgs)

Former Scott Technologies Site #808049
Elmira, New York

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Figure **3A**

Legend

STCC Facility (Residential)

- Non-Detect
- Does Not Exceed Residential SCO (1 mg/kg)
- Does Not Exceed IndustrialSCO (25 mg/kg)
- Exceeds Industrial SCO (25 mg/kg)

- MSA
- Site Boundary
- FRA Fence

Notes
Screening criteria for PCBs are Soil Cleanup Objective (SCOs) presented in 6 NYCRR Subpart 375 as appropriate based on current and potential land use.
Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 07 May 2020. Image is dated 2 June 2010.
PCBs - Polychlorinated Biphenyls
STCC - Southern Tier Commerce Center
FRA - Former Recreation Area
MSA - Material Staging Area
MSA footprint is approximate
ft bgs - feet below ground surface

Extent of SCO Exceedances for PCBs in Shallow Subsurface Soil (0.17-2 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

B&B Engineers & Geologists of new york, p.c.
an affiliate of Geosyntec Consultants

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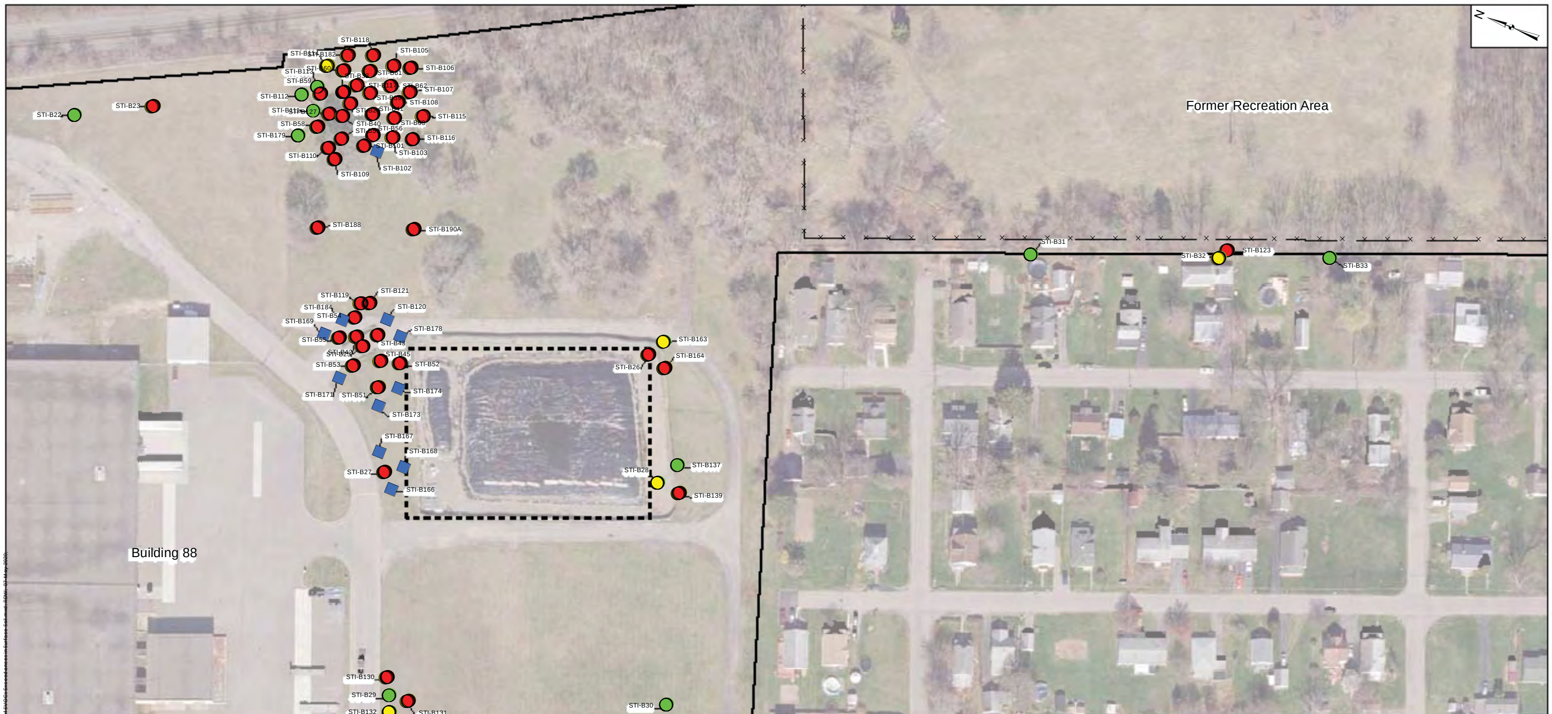
Figure **3B**



Legend

PAHs Compared to Residential SCOs

- Exceedes Industrial SCO
- Detected, Does Not Exceed Residential SCO
- Exceeds Residential SCO
- Work Plan Samples Not Collected
- Site Boundary
- FRA Fence
- MSA

200 100 0 200 Feet

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

Former Scott Technologies Site #808049
Elmira, New York

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 distortortions 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 07 May 2020. 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
SCO - Soil Cleanup Objective

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Figure **4A**

Legend

PAHs Compared to Residential and Industrial SCOs

- Exceeds Industrial SCO
- Does Not Exceed Residential SCO
- Exceeds Residential SCO

- Site Boundary
- FRA Fence
- MSA

200 100 0 200 Feet

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

Former Scott Technologies Site #808049
Elmira, New York

B&B Engineers & Geologists of new york, p.c.
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Figure
4B

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 distortortions 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 07 May 2020. 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

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

Total PAHs Concentration

- Exceeds Industrial SCO
- Does not Exceed Residential SCO
- Exceeds Residential SCO

Site Boundary

FRA Fence

MSA

200 100 0 200 Feet

Extent of Exceedances for PAHs in Subsurface Soil (2-4 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

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 distortortions 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 07 May 2020. 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

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Figure
4C

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

Metals Exceedances

- Non-Detect
- Detected, Does Not Exceed Residential SCO
- Detected, Exceeds Residential SCO
- Detected, Exceeds Industrial SCO
- Proposed Excavation Metals 0-0.5 ft bgs
- Site Boundary
- FRA Fence

200 100 0 200 Feet

Extent of SCO Exceedances for Metals in Surface Soil (0-0.17 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

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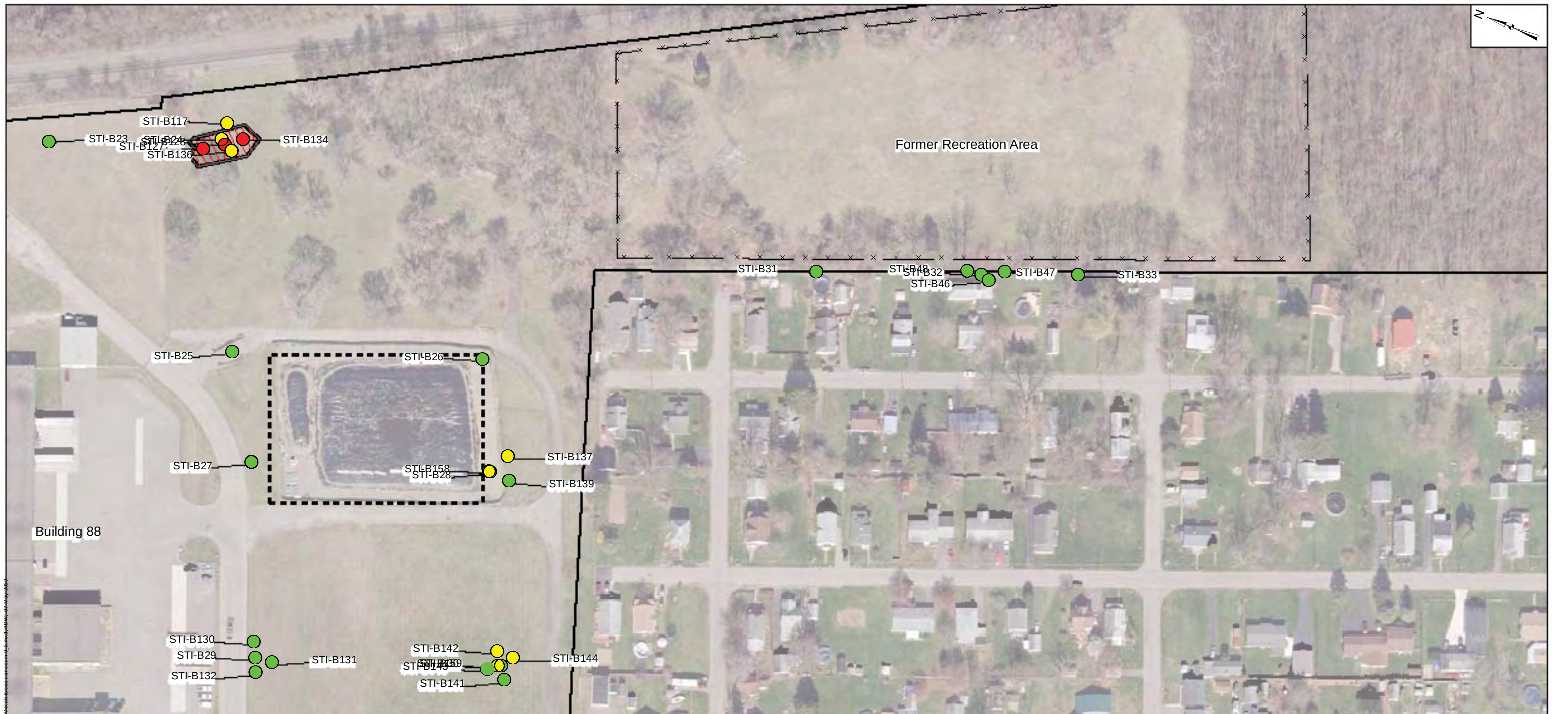
Figure **5A**

Notes and Disclaimer
Screening critieria 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 distortortions 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 07 May 2020. Image is dated 2 June 2010.
STCC - Southern Tier Commerce Center FRA - Former Recreation Area ft bgs - feet below ground surface

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

Metals Exceedances

- Non-Detect
- Detected, Does not Exceed Residential SCO
- Detected, Exceeds Residential SCO
- Detected, Exceeds Industrial SCO
- Proposed Excavation Metals 0.5-1 ft bgs
- Site Boundary
- FRA Fence

200 100 0 200 Feet

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

Former Scott Technologies Site #808049
Elmira, New York

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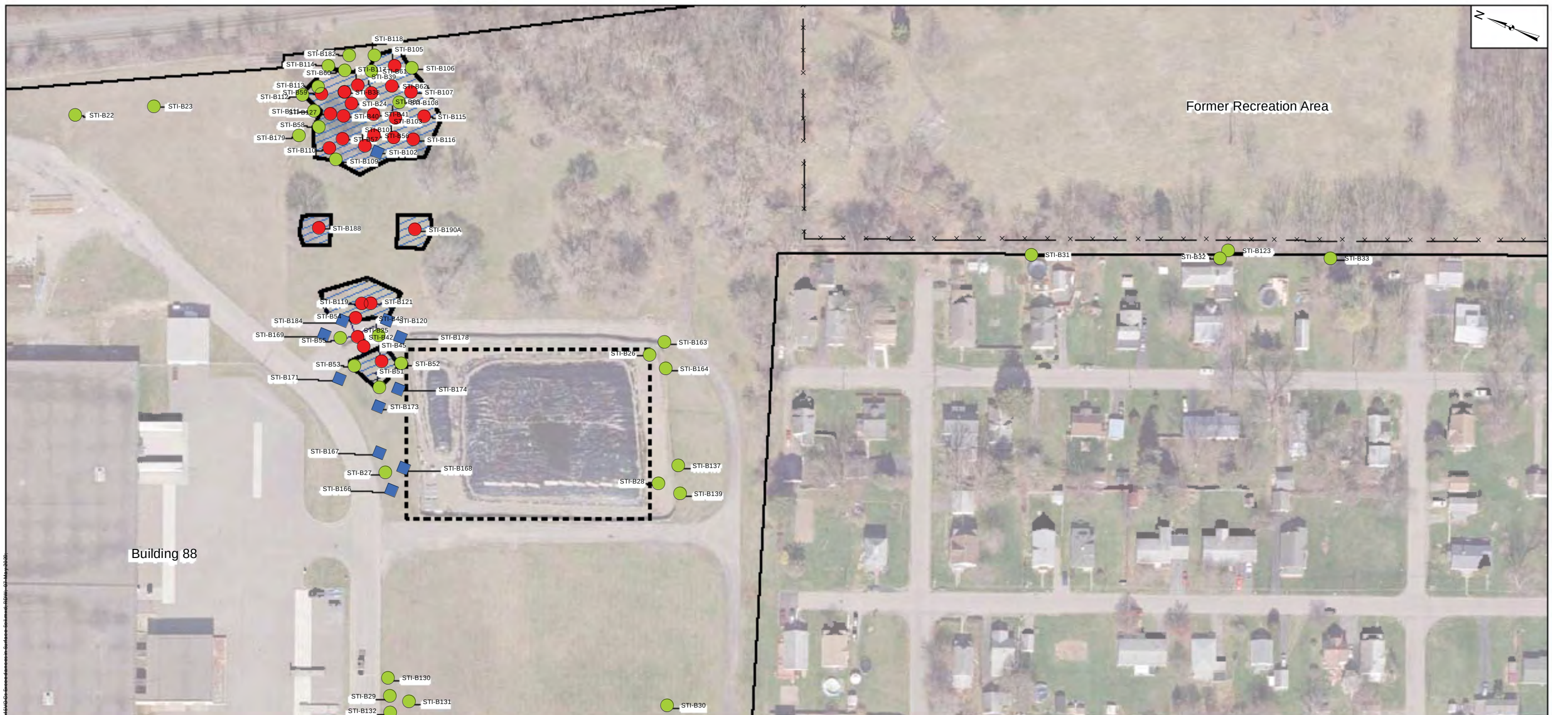
Figure **5B**

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 distortortions 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 07 May 2020. Image is dated 2 June 2010.
STCC - Southern Tier Commerce Center FRA - Former Recreation Area ft bgs - feet below ground surface

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

Total PAHs Concentration

- Non-Detect
- 0-100 mg/kg
- > 100mg/kg
- Work Plan Samples Not Collected
- Proposed Excavation
- MSA
- Site Boundary
- FRA Fence

200 100 0 200 Feet

Proposed PAH-Impacted Surface Soil Removal (0-0.17 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

Beech and Bonaparte engineering p.c.

Columbia, Maryland

May 2020

Figure **6A**

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 distortortions 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 07 May 2020. 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

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

Total PAHs Concentration

- Non-Detect
- 0-100 mg/kg
- > 100mg/kg

Proposed Excavation PAHs 0.5-1 ft bgs

MSA

Site Boundary

FRA Fence

200 100 0 200 Feet

Proposed PAH-Impacted Shallow Subsurface Soil Removal (0.17-2 ft bgs)

Former Scott Technologies Site #808049
Elmira, New York

Beech and Bonaparte engineering p.c.

Figure **6B**

Columbia, Maryland | May 2020

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.
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Aerial imagery accessed via ArcGIS Online and provided by Microsoft on 07 May 2020. 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

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

PCBs | PAHs/Metals | PAHs | Site Boundary | MSA | FRA Fence

200 100 0 200 Feet

Proposed Excavation 0-1 ft bgs

Former Scott Technologies Site #808049
Elmira, New York

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 distortortions 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 07 May 2020. Image is dated 2 June 2010.

STCC - Southern Tier Commerce Center   FRA - Former Recreation Area   ft bgs - feet below ground surface

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Figure 7

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

TABLES

TABLE 1
PCBs in Surface and Shallow Subsurface Soils

Former Scott Technologies Site
Elmira, New York

			Polychlorinated Biphenyls									
			Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Arochlor 1268	Arochlor 1262	Total PCBs
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		EQL	0.0031	0.0049	0.0017	0.0025	0.0041	0.0025	0.0023	0.0013	0.0021	
		Industrial										25
		Residential										1
Location	**Sample Depth (ft bgs)**	**Sample Date**										
STI-B20	0.17-2	10/22/2015	<0.0088U	<0.014U	<0.0048U	<0.0071U	0.032J	<0.0071U	0.04J	<0.0036U	<0.006U	0.072
STI-B21	0.17-2	10/22/2015	<0.008U	<0.013U	<0.0044U	<0.0065U	<0.0041U	<0.0065U	<0.006U	<0.0033U	<0.0054U	<0
STI-B22	0-0.17	10/22/2015	<0.0082U	<0.013U	<0.0045U	<0.0066U	0.064	<0.0066U	0.016J	<0.0034U	<0.0056U	0.08
STI-B22	0.17-2	10/22/2015	<0.0084U	<0.013U	<0.0046U	<0.0068U	0.054	<0.0068U	0.0091J	<0.0034U	<0.0057U	0.0631
STI-B23	0-0.17	10/22/2015	<0.0082U	<0.013U	<0.0045U	<0.0066U	<0.0042U	<0.0066U	<0.0062U	<0.0034U	<0.0056U	<0
STI-B23	0.17-2	10/22/2015	<0.0082U	<0.013U	<0.0045U	<0.0066U	<0.0042U	<0.0066U	<0.0062U	<0.0034U	<0.0056U	<0
STI-B24	0-0.17	10/22/2015	<0.0099U	<0.016U	<0.0054U	<0.008U	0.041	<0.008U	0.063	<0.004U	<0.0067U	0.104
STI-B24	0.17-2	10/22/2015	<0.0089U	<0.014U	<0.0048U	<0.0071U	0.014J	<0.0071U	<0.0066U	<0.0036U	<0.006U	0.014
STI-B25	0-0.17	10/23/2015	<0.0085U	<0.013U	<0.0046U	<0.0068U	0.52	<0.0068U	0.096	<0.0034U	<0.0057U	0.616
STI-B25	0.17-2	10/23/2015	<0.0082U	<0.013U	<0.0045U	<0.0066U	<0.0042U	<0.0066U	<0.0061U	<0.0033U	<0.0055U	<0
STI-B26	0-0.17	10/23/2015	<0.0095U	<0.015U	<0.0052U	<0.0076U	0.033J	<0.0076U	0.013J	<0.0039U	<0.0064U	0.046
STI-B26	0.17-2	10/23/2015	<0.0082U	<0.013U	<0.0045U	<0.0066U	<0.0042U	<0.0066U	<0.0061U	<0.0033U	<0.0055U	<0
STI-B27	0-0.17	10/23/2015	<0.17U	<0.26U	<0.091U	<0.13U	24	<0.13U	3.5	<0.068U	<0.11U	27.5
STI-B27	0.17-2	10/23/2015	<0.008U	<0.013U	<0.0044U	<0.0064U	3.4	<0.0064U	0.49	<0.0032U	<0.0054U	3.89
STI-B28	0-0.17	10/23/2015	<0.0089U	<0.014U	<0.0049U	<0.0072U	0.045	<0.0072U	0.014J	<0.0036U	<0.006U	0.059
STI-B28	0.17-2	10/23/2015	<0.0081U	<0.013U	<0.0044U	<0.0065U	0.0097J	<0.0065U	<0.0061U	<0.0033U	<0.0055U	0.0097
STI-B29	0-0.17	10/23/2015	<0.0091U	<0.014U	<0.005U	<0.0073U	0.3	<0.0073U	0.068	<0.0037U	<0.0062U	0.368
STI-B29	0.17-2	10/23/2015	<0.0081U	<0.013U	<0.0045U	<0.0066U	0.027	<0.0066U	0.0083J	<0.0033U	<0.0055U	0.0353
STI-B30	0-0.17	10/23/2015	<0.0091U	<0.014U	<0.005U	<0.0073U	0.008J	<0.0073U	<0.0068U	<0.0037U	<0.0061U	0.008
STI-B30	0.17-2	10/23/2015	<0.0084U	<0.013U	<0.0046U	<0.0068U	0.0047J	<0.0068U	<0.0063U	<0.0034U	<0.0057U	0.0047
STI-B31	0-0.17	10/21/2015	<0.0092U	<0.014U	<0.005U	<0.0074U	<0.0047U	<0.0074U	0.014J	<0.0037U	<0.0062U	0.014
STI-B31	0.17-2	10/21/2015	<0.0088U	<0.014U	<0.0048U	<0.0071U	<0.0045U	<0.0071U	<0.0066U	<0.0036U	<0.006U	<0
STI-B32	0-0.17	10/21/2015	<0.0096U	<0.015U	<0.0053U	<0.0077U	<0.0049U	<0.0077U	0.028	<0.0039U	<0.0065U	0.028
STI-B32	0.17-2	10/21/2015	<0.0088U	<0.014U	<0.0048U	<0.0071U	<0.0045U	<0.0071U	<0.0066U	<0.0036U	<0.006U	<0
STI-B33	0-0.17	10/21/2015	<0.01U	<0.016U	<0.0056U	<0.0082U	<0.0052U	<0.0082U	<0.0076U	<0.0041U	<0.0069U	<0
STI-B33	0.17-2	10/21/2015	<0.0088U	<0.014U	<0.0048U	<0.0071U	<0.0045U	<0.0071U	<0.0066U	<0.0036U	<0.0059U	<0
STI-B34	0-0.17	9/16/2016	<0.0083U	<0.013U	<0.0045U	<0.0067U	0.46J	0.36J	0.17J	<0.0034U	<0.0056U	1.011
STI-B34	0.17-2	9/16/2016	<0.0079U	<0.013U	<0.0043U	<0.0064U	0.018J	0.013J	0.0068J	<0.0032U	<0.0054U	0.0579
STI-B35	0-0.17	9/16/2016	<0.0084U	<0.013U	<0.0046U	<0.0067U	0.69J	0.38J	0.15J	<0.0034U	<0.0057U	1.241
STI-B35	0.17-2	9/16/2016	<0.0085U	<0.013U	<0.0047U	<0.0069U	0.21J	0.099J	0.036J	<0.0035U	<0.0058U	0.3662
STI-B36	0-0.17	9/16/2016	<0.0082U	<0.013U	<0.0045U	<0.0066U	0.69J	0.37J	0.15J	<0.0033U	<0.0055U	1.231
STI-B36	0.17-2	9/16/2016	<0.0083U	<0.013U	<0.0045U	<0.0067U	0.077J	0.041J	0.016J	<0.0034U	<0.0056U	0.1548
STI-B37	0-0.17	9/16/2016	<0.081U	<0.13U	<0.044U	<0.065U	22J	7.6J	3.5J	<0.033U	<0.055U	33.3
STI-B37	0.17-2	9/16/2016	<0.008U	<0.013U	<0.0044U	<0.0064U	0.64J	0.26J	0.094J	<0.0032U	<0.0054U	1.014
STI-B49	0-0.17	5/19/2017	<0.097U,F1	<0.095U	<0.072U	<0.15U	8.4	4.5	2.1	<0.056U	<0.13U	15.3
STI-B50	0-0.17	5/19/2017	<0.011U	<0.011U	<0.0081U	<0.016U	0.077	0.035p	0.06	<0.0063U	<0.015U	0.2057
STI-B145	0.17-2	12/18/2019	<0.0065U	<0.0071U	<0.0049U	<0.0029U	0.059	0.03	0.017J	<0.0027U	<0.0071U	0.1216
STI-B148	0.17-2	12/18/2019	<0.0063U	<0.0068U	<0.0047U	<0.0028U	0.22	0.097	0.041	<0.0026U	<0.0068U	0.373
STI-B154	0.17-2	12/18/2019	<0.0065U	<0.0071U	<0.0049U	<0.0029U	0.25	0.1	0.049	<0.0027U	<0.0071U	0.4146
STI-B155	0.17-2	12/18/2019	<0.0063U	<0.0069U	<0.0047U	<0.0028U	0.12	0.046	0.021	<0.0026U	<0.0068U	0.2021
STI-B156	2-4	12/18/2019	<0.0062U	<0.0067U	<0.0046U	<0.0028U	0.055	0.022	0.0091J	<0.0026U	<0.0067U	0.1009
STI-B157	2-4	12/18/2019	<0.0061U	<0.0066U	<0.0046U	<0.0027U	0.24	0.11	0.051	<0.0025U	<0.0066U	0.4156
STI-B167	0.17-2	12/18/2019	<0.0063U	<0.0068U	<0.0047U	<0.0028U	<0.0046U	<0.0058U	0.009J	<0.0026U	<0.0068U	0.0292

Notes:

mg/kg - milligrams per kilogram
PCB - polychlorinated biphenynls
ft bgs - feet below ground surface
SCO - Soil cleanup objectives

J - estimated value
U - non-detect

PCB concentrations detected above Residential SCOs are presented in light gray
PCB concentrations detected above industrial SCOs are presented in light gray

TABLE 2
PAHs in Surface and Shallow Subsurface Soils

Former Scott Technologies Site
Elmira, New York

				PAHs (Sum of total)	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			EQL		0.0067	0.008	0.0069	0.0088	0.007	0.011	0.007	0.014	0.0084	0.0078	0.0075	0.0092	0.0072	0.006	0.011	0.0071
			Industrial SCO		1000	1000	1000	11	1.1	11	1000	110	110	1.1	1000	1000	11	1000	1000	1000
			Residential SCO		100	100	100	1	1	1	100	1	1	0.33	100	100	0.5	100	100	100
			STI VCP	100																
Investigation Area	**Location**	**Sample Depth**	**Sample Date**																	
South of Building 88	STI-B23	0-0.17	10/22/2015	16.28	0.058J	0.41	0.38	1.4	1.7	2.3	1.4	0.76	1.5	0.38	2	0.12	1.3	0.077	0.75	1.8
	STI-B23	0.17-2	10/22/2015	7.782	0.046J	0.087	0.24	0.75	0.65	0.84	0.44	0.33	0.7	0.13	1.4	0.088	0.42	0.027J	0.58	1.1
	STI-B24	0-0.17	10/22/2015	497.3	14	0.97	28	42	32	40	17	14	36	6.3	92	14	17	12	85	61
	STI-B24	0.17-2	10/22/2015	178.2 - 195.2	5.1 - 5.3	0.4 - 0.41J	11 - 12	15 - 16	10 - 12	12 - 14	5.7 - 6.3	5 - 7.1	13 - 14	2 - 2.1	34 - 35E	5.6 - 5.9	5.8 - 6.2	3.7 - 4.2	32 - 36E	23 - 24
	STI-B25	0-0.17	10/23/2015	153.3	0.31J	4.9J	3.3J	12J	14J	19J	13J	5.9J	15J	2.9J	21J	0.66J	11J	0.52J	6.1J	24J
	STI-B25	0.17-2	10/23/2015	13.02	0.026J	0.57	0.33	1.1	1.2	1.6	1.2	0.61	1.3	0.3	1.4	0.061J	0.96	0.13	0.46	1.8
	STI-B26	0-0.17	10/23/2015	88.44	0.24J	5.2	2.5	6.3	8.2	10	8.7	4	8.3	1.8	11	0.46	6.8	0.48	2.7	12
	STI-B26	0.17-2	10/23/2015	10.97	0.031J	0.61	0.29	0.73	1	1.4	1.1	0.43	1	0.23	1.3	0.057J	0.89	0.079	0.35	1.5
	STI-B27	0-0.17	10/23/2015	67.63	0.2J	3.4	1.7	5	6.8	9.3	7.5	2.5	6.2	1.6	7.1	0.3J	5.8	0.33J	1.6	8.5
	STI-B27	0.17-2	10/23/2015	10.46	0.03J	0.6J	0.3J	0.73J	1J	1.2J	1.3J	0.5J	0.87J	0.25J	1.1J	<0.0092UJ	0.92J	0.055J	0.33	1.3J
	STI-B27	0.17-2	10/23/2015	12.53	0.033J	0.63J	0.36J	0.86J	1.2J	1.6J	1.6J	0.45J	1J	0.29J	1.3J	0.051J	1.1J	0.072	0.42	1.6J
	STI-B28	0-0.17	10/23/2015	10.34	0.024J	0.23	0.17	0.78	0.97	1.3	0.92	0.57	1	0.23	1.5	<0.01U	0.81	0.082	0.38	1.4
	STI-B28	0.17-2	10/23/2015	2.107	<0.0068U	0.075	0.062J	0.17	0.17	0.24	0.13	0.07J	0.24	0.048J	0.26	<0.0093U	0.13	0.082	0.18	0.25
	STI-B29	0-0.17	10/23/2015	5.246	0.018J	0.12	0.11	0.42	0.47	0.59	0.51	0.27	0.47	0.085	0.74	0.028J	0.33	0.033J	0.29	0.78
	STI-B29	0.17-2	10/23/2015	18.06	<0.069U	1.4	0.69J	1.2	1.9	2.5	2.6	0.78	1.4	0.58J	1.2	<0.095U	1.9	<0.062U	0.41J	1.5
	STI-B29	0.17-2	10/23/2015	5.372	<0.014U	0.41	0.18	0.36	0.57	0.7	0.82	0.3	0.44	0.16	0.32	<0.019U	0.61	<0.012U	0.082J	0.42
	STI-B30	0-0.17	10/23/2015	4.66	0.026J	0.23	0.15	0.39	0.41	0.54	0.35	0.19	0.48	0.1	0.5	<0.01U	0.27	0.2	0.32	0.53
	STI-B30	0.17-2	10/23/2015	6.39	0.031J	0.32	0.21	0.56	0.56	0.66	0.44	0.26	0.65	0.15	0.7	<0.0095U	0.35	0.33	0.42	0.78
	STI-B38	0-0.17	9/7/2016	813.8	26J	1.7J	50J	67J	48J	67	24J	19J	55J	9.1J	130J	26J	25J	22J	160	110
	STI-B38	0-0.17	9/7/2016	1340 - 1592	47 - 54J	1.7 - 2J	82 - 90J	110J	80 - 91J	83 - 99J	65 - 67J	37 - 46J	97 - 100J	17 - 18J	220 - 280E	46 - 56J	60 - 61J	70 - 83J	220 - 320E	150 - 170E
	STI-B38	0.17-2	9/7/2016	6.132	0.16	0.021J	0.32	0.51	0.34	0.46	0.19	0.24	0.46	0.081	0.96	0.16	0.19	0.16	1.2	0.84
	STI-B39	0-0.17	9/7/2016	335.4	7.7J	2.5J	16J	28J	22J	29J	12J	9.9J	23J	4.4J	54J	8.3J	12J	6.3J	59J	49J
	STI-B39	0.17-2	9/7/2016	3	0.05J	0.028J	0.12	0.23	0.16	0.29J	0.12	0.078	0.27J	0.047J	0.38J	0.047J	0.11	0.2	0.51J	0.41J
	STI-B39	0.17-2	9/7/2016	1.254	0.017J	0.019J	0.047J	0.098J	0.073J	0.1J	0.059J	0.046J	0.12J	0.02J	0.15J	0.018J	0.052J	0.092J	0.19J	0.17J
	STI-B40	0-0.17	9/7/2016	201.8	5.4	0.37J	11	17	13	17	6.5	6.4	14	2.4	33	5.2	6.7	3.2	37	29
	STI-B40	0.17-2	9/7/2016	17.73	0.58	0.02J	0.97	1.5	1	1.4	0.55	0.52	1.1	0.18	2.8	0.56	0.57	0.46	3.5	2.6
	STI-B41	0-0.17	9/7/2016	977.3	28J	1.3J	47J	82J	63J	79J	38J	36J	67J	12J	160J	25J	36J	21J	170J	140J
	STI-B41	0.17-2	9/7/2016	138.2	4.5J	0.23J	7.4J	11J	8.5J	12J	4.9J	3.4J	8.8J	1.7J	23J	4.1J	4.8J	4.4J	26J	18J
	STI-B42	0-0.17	9/7/2016	130.4	0.47J	6.1J	3.7J	10J	12J	18J	10J	6J	12J	2.6J	15J	0.72J	8.5J	0.8J	6J	19J
	STI-B42	0.17-2	9/7/2016	9.015	0.025J	0.52J	0.27J	0.7J	0.76J	1.2J	0.74J	0.33J	0.79J	0.18J	0.99J	0.055J	0.61J	0.11J	0.46J	1.3J
	STI-B43	0-0.17	9/7/2016	77.88	0.22J	3.2J	2.1J	6.5J	5.6J	8.6J	5J	3.3J	7.3J	1.3J	10J	0.52J	4.1J	0.36J	7J	13J
	STI-B43	0.17-2	9/7/2016	11.75	0.037J	0.72J	0.35J	1J	1.2J	1.5J	0.96J	0.56J	1.1J	0.25J	1.2J	0.065J	0.77J	0.1J	0.37J	1.6J
	STI-B44	0.17-2	9/7/2016	15.9	0.071J	0.65J	0.39J	1.3J	1.4J	1.9J	1.2J	0.78J	1.5J	0.29J	1.9J	0.093J	0.96J	0.069J	0.97J	2.5J
	STI-B45	0-0.17	9/16/2016	150	0.47J	4.4	3	12	14	16	16	8.2	15	4	17	0.73	12	0.62J	8	19
	STI-B45	0.17-2	9/16/2016	12.78	0.028J	0.49	0.29	1	1.2	1.4	1.4	0.53	1.3	0.33	1.5	0.044J	1	0.057J	0.74	1.5
	STI-B51	0-0.17	5/19/2017	33.95	0.13J	1.6	0.89	2.9	3	4.3	2.8	1.5	3.2	0.74	3.3	0.2	2.3	0.22	1.7	5.3
	STI-B52	0-0.17	5/19/2017	54.84	0.21J	3.5	1.8	4.2	4.9	7.3	5	2.2	5.3	1.1	4.8	0.32	3.9	0.32	2.1	8.1
	STI-B52	0-0.17	5/19/2017	60.04	0.27J	3.8	2	4.6	5.3	7.9	5.2	2.6	5.7	1.2	5.4	0.39J	4	0.35J	2.5	9.1
	STI-B53	0-0.17	5/19/2017	48.52	0.21	2.4	1.4	4	4.6	6.1	4.3	2.5	4.7	1	4.5	0.3	3.4	0.22	2.1	7
	STI-B54	0-0.17	5/19/2017	162.8	0.81J	6.8	5.1	13	14	21	12	7.2	15	3.2	19	0.98J	10	<0.81U	9.1	26
	STI-B55	0-0.17	5/19/2017	74.21	0.26J	3.7	2.4	5.8	6.3	8.2	5.6	4	7.1	1.3	7.9	0.43	4.5	0.38	3.6	13
	STI-B56	0-0.17	5/19/2017	2237	81	1.8J	140	170	120	150	71	71	140	23	280	82	68	160	450	310
	STI-B56	0.17-2	5/18/2017	95.49 - 103.1	3 - 3.2	0.14 - 0.19J	5.8 - 6.1	7.8 - 8.2	6.3 - 6.5	7.1	3.7 - 3.8	3.1 - 3.2	6.8 - 7	1.1	16 - 18E,F1	3.4 - 3.5	3.5 - 3.8	4 - 4.4	14 - 20F1	11 - 12
	STI-B57	0-0.17	5/19/2017	236.3	6.2F1	0.35J	13F1	20F1	15F1	18F1	9.3	9.9F1	17F1	3.1	32	6F1	8.9F1	4.7F1	43	36
	STI-B58	0-0.17	5/19/2017	67.65	1.6	0.21	3.9	6	4.4	5.4	2.7	2.8	5	0.94	9.1	1.7	2.6	0.9	12	10
	STI-B59	0-0.17	5/19/2017	382.9	10	0.56	22	33	25	30	15	13	27	5.1	52	10	14	9.2	71	56
	STI-B60	0-0.17	5/19/2017	83.68	2.1	0.18	4	7.1	5.2	7	3.3	3.2	6.3	1.1	12	2	3.2	2.1	15	12

TABLE 2
PAHs in Surface and Shallow Subsurface Soils

Former Scott Technologies Site
Elmira, New York

Investigation Area	Location	Sample Depth	Sample Date	PAHs (Sum of total)	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			EQL		0.0067	0.008	0.0069	0.0088	0.007	0.011	0.007	0.014	0.0084	0.0078	0.0075	0.0092	0.0072	0.006	0.011	0.0071
			Industrial SCO		1000	1000	1000	11	1.1	11	1000	110	110	1.1	1000	1000	11	1000	1000	1000
			Residential SCO		100	100	100	1	1	1	100	1	1	0.33	100	100	0.5	100	100	100
			STI VCP	100																
South of Building 88	STI-B61	0-0.17	5/19/2017	28.22	0.55	0.21	1.3	2.5	2	2.6	1.3	1.1	2.3	0.43	3.8	0.53	1.3	0.35	4.2	4.3
	STI-B62	0-0.17	5/19/2017	171.5	4.7	0.56	8.2	14	11	14	6.9	5.6	13	2.3	23	4.5	6.4	4	32	26
	STI-B62	0.17-2	5/18/2017	122	2.6	0.43	6.9	9.3	6.3	8.5	3.4	3.1	8.6	1.1	24	3.2	3.5	0.64	25	18
	STI-B63	0-0.17	5/19/2017	92.31	2.5	0.21	4.4	7.5	5.9	7.5	3.9	3.1	6.7	1.2	12	2.2	3.7	2	17	15
	STI-B63	0-0.17	5/19/2017	219.4	6.2	0.39J	11	17	13	17	8.8	8.1	15	2.7	30	6.2	8.4	7.8	41	33
	STI-B63	0.17-2	5/18/2017	7.679	0.14	0.063J	0.34	0.65	0.49	0.62	0.31	0.18	0.61	0.096	1.5	0.14	0.31	0.26	1.2	0.91
	STI-B100	0.17-2	12/19/2019	101.4	2.7	0.24	5.4	8.7	6.7	6.9	4.9	2.9	7	1.3	17	2.8	4.3	3.3	18	12
	STI-B101	0-0.17	12/21/2019	1735	45	1.8J	81	160	130	150	70	54	120	25	300	39	71	23	280	230
	STI-B101	0.17-2	12/19/2019	1123	34	1.3	63	93	72	72	48	32	75	15	180	35	46	51	210	130
	STI-B101	2-4	12/19/2019	55.71	1.5	0.11	3	4.8	3.8	4.3	2	1.5	3.8	0.7	9.5	1.7	2.1	1.6	9.5	7.3
	STI-B102	0.17-2	12/19/2019	38.24	0.6	0.56	1.6	3.6	2.8	2.9	2.4	1.4	3.1	0.68	5.8	0.7	2.1	0.8	4.9	4.9
	STI-B103	0-0.17	12/21/2019	347.4	8.8	2.5	17	28	25	28	18	12	26	5.2	58	8.9	17	5.8	52	44
	STI-B103	0.17-2	12/19/2019	467.9 - 510	6.3 - 7.3	3.2 - 4.1	21 - 22	39 - 43	28 - 31	30 - 40	18 - 22	13	33 - 38	5.7 - 6.2	85 - 90	11 - 12	16 - 19	5.6 - 6.1	92 - 98=	59 - 74
	STI-B103	2-4	12/19/2019	12.17	0.16	0.3	0.43	0.87	0.68	0.86	0.43	0.35	0.83	0.18	2.2	0.38	0.45	0.41	2.2	1.6
	STI-B104	0.17-2	12/19/2019	8.274	0.22	0.044J	0.41	0.71	0.56	0.66	0.39	0.23	0.62	0.12	1.2	0.2	0.36	0.17	1.4	1.2
	STI-B105	0-0.17	12/21/2019	333.9	9	0.68	16	28	25	28	18	11	25	5.6	50	8.6	16	5	49	48
	STI-B105	0.17-2	12/19/2019	109.7 - 119.1	3.6 - 3.9	0.14 - 0.15J	5.3 - 5.8	8.9 - 9.7	7.1 - 8	7.8 - 8.8	4.4 - 4.8	3.1 - 3.9	7 - 7.8	1.4 - 1.5	17 - 20=	3.3 - 3.7	4.2 - 4.7	3 - 3.3	21 - 22=	15 - 16
	STI-B105	2-4	12/19/2019	2.611	0.043J	0.038J	0.096	0.23	0.16	0.19	0.11	0.075J	0.26	0.097	0.37	0.045J	0.1	0.12	0.36	0.36
	STI-B106	0-0.17	12/21/2019	53.79	1.2	0.49	2.5	4.7	4	4.8	3.2	2	4.5	0.99	7.6	1.1	2.9	0.81	6.9	7.3
	STI-B106	0.17-2	12/19/2019	17.9	0.37	0.23	0.73	1.5	1.3	1.5	0.98	0.6	1.4	0.3	2.6	0.38	0.92	0.46	2.6	2.4
	STI-B107	0-0.17	12/21/2019	453.2	14	0.88	25	40	31	36	22	13	34	6.3	66	14	20	13	70	62
	STI-B107	0.17-2	12/19/2019	8.95	0.12	0.15	0.36	0.68	0.6	0.87	0.54	0.31	0.85	0.16	1.2	0.15	0.46	0.22	1.2	1.2
	STI-B108	0-0.17	12/21/2019	72.41	1.4	0.57	3.1	6.5	5.4	6.3	4.1	2.6	5.9	1.2	11	1.5	3.9	0.84	9.5	10
	STI-B108	0.17-2	12/19/2019	8.44	0.12	0.14	0.3	0.78	0.66	0.78	0.51	0.35	0.71	0.15	1.1	0.1	0.46	0.15	0.95	1.3
	STI-B109	0-0.17	12/20/2019	99.72	2.2	0.32	4.5	8.9	7	7.7	4.3	3.3	7.2	1.4	18	2.2	4.5	1.4	15	14
	STI-B110	0-0.17	12/20/2019	113.1	2.6	0.34	5.3	10	7.6	8.5	4.4	3.3	8.1	1.6	21	2.9	4.6	1.5	19	15
	STI-B111	0-0.17	12/21/2019	0.931	<0.031U	<0.024U	<0.028U	0.088J	0.081J	0.12	0.06J	0.044J	0.086J	<0.024U	0.14	<0.021U	0.053J	<0.021U	0.07J	0.13
	STI-B112	0-0.17	12/21/2019	2.775	<0.026U	0.04J	0.082J	0.22	0.21	0.3	0.15	0.092	0.25	<0.02U	0.45	0.033J	0.13	0.078J	0.35	0.38
	STI-B113	0-0.17	12/21/2019	5.117	0.12	0.041J	0.22	0.42	0.39	0.43	0.29	0.2	0.4	0.089J	0.74	0.11	0.27	0.077J	0.71	0.73
	STI-B114	0-0.17	12/21/2019	15.33	0.42	0.075J	0.79	1.3	1.1	1.2	0.76	0.55	1.2	0.26	2.3	0.38	0.71	0.2	2.3	2.2
	STI-B115	0-0.17	12/21/2019	395.8	13	1	22	33	27	29	20	13	29	5.8	60	12	19	11	63	51
	STI-B116	0-0.17	12/21/2019	5936	240	6.7	330	470	370	420	260	170	400	69	850	220	240	300	1000	830
	STI-B117	0-0.17	12/21/2019	353.1	10	0.63	21	30	24	26	17	12	26	4.9	54	11	16	6.6	57	47
	STI-B117	0.17-2	12/19/2019	115.3 - 128.5	2.9	0.18 - 0.21J	6.3 - 7.1	10 - 11	7.5 - 8.2	7.9 - 9.6	4.5 - 4.8	3.3 - 3.4	8.3 - 9.4	1.4 - 1.6	17 - 21=	2.9 - 3.3	4.2 - 4.5	2 - 2.2	22 - 25=	17 - 18=
	STI-B117	2-4	12/19/2019	16.65	0.32	0.27	0.78	1.5	1.2	1.3	0.72	0.49	1.3	0.28	2.8	0.38	0.71	0.32	2.3	2.3
	STI-B118	0-0.17	12/21/2019	24.94	0.4	0.34	1	2.1	1.9	2.6	1.5	1	2.2	0.45	3.5	0.36	1.4	0.39	2.7	3.5
	STI-B119	0-0.17	12/20/2019	599.6	9.9	7.7	24	56	47	56	29	16	50	9.5	100	10	31	5.4	72	86
	STI-B120	0.17-2	12/18/2019	86.58	0.25J	5.5	2.1	7.7	8.9	10	8	4.3	8.4	2.5	8.7	0.43J	7.1	0.35J	1.6	11
	STI-B121	0-0.17	12/20/2019	212.7	3.4	2.6	7.5	18	16	18	11	8.3	17	3.4	37	3.4	11	2.5	26	31
	STI-B121	0.17-2	12/19/2019	15.62	0.22	0.17	0.56	1.4	1.2	1.3	0.98	0.8	1.4	0.22	2.5	0.22	0.85	0.22	1.7	2.1
	STI-B123	0-0.17	12/21/2019	15.85	0.1	0.061J	0.2	1	1.2	1.7	1.2	0.5	1.5	0.27	2.8	0.1	0.99	0.027J	1.8	2.5
	STI-B125	2-4	12/19/2019	63.59	1.8	0.094	3.4	4.9	3.7	4.4	2.7	1.5	4.5	0.8	9.9	1.5	2.3	1.2	13	9.7
	STI-B126	2-4	12/19/2019	2.027	0.029J	0.072J	0.078	0.18	0.16	0.18	0.13	0.073J	0.21	<0.016U	0.19	0.026J	0.11	0.14	0.22	0.25
	STI-B127	0-0.17	12/20/2019	181.4	4.9	0.37	10	16	12	13	6.8	6.3	12	2.4	31	5.6	7.3	5.6	29	24
	STI-B127	0.17-2	12/19/2019	15.72	0.41	0.06J	0.78	1.5	1.1	1.3	0.59	0.58	1.2	0.23	2.4	0.38	0.62	0.28J	2.4	2.3
	STI-B128	2-4	12/19/2019	69.74	2.6	0.086	4	5.7	4.5	4.9	2.6	2	4.6	0.85	11	2.2	2.5	2	13	9.8
	STI-B129	2-4	12/19/2019	1.481	0.035J	0.028J	0.063J	0.13	0.088	0.11	0.091	0.031J	0.12	<0.017U	0.18	0.035J	0.056J	0.12	0.25	0.17

TABLE 2
PAHs in Surface and Shallow Subsurface Soils

Former Scott Technologies Site
Elmira, New York

Investigation Area	Location	Sample Depth	Sample Date	PAHs (Sum of total)	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			EQL		0.0067	0.008	0.0069	0.0088	0.007	0.011	0.007	0.014	0.0084	0.0078	0.0075	0.0092	0.0072	0.006	0.011	0.0071
			Industrial SCO		1000	1000	1000	11	1.1	11	1000	110	110	1.1	1000	1000	11	1000	1000	1000
			Residential SCO		100	100	100	1	1	1	100	1	1	0.33	100	100	0.5	100	100	100
			STI VCP	100																
South of Building 88	STI-B130	0-0.17	12/20/2019	96.4	0.29J	3.5	2	8.7	10	12	8	4.5	8.7	2.5	12	0.41J	7.5	0.39J	3.2	13
	STI-B130	0.17-2	12/19/2019	28.47	<0.22U	1	0.6J	2.6	3.2	3.8	2.5	1.5	2.8	0.52J	3.1	<0.15U	2.1	<0.15U	0.9	3.7
	STI-B131	0-0.17	12/20/2019	19.94	0.089J	0.41	0.45	1.9	1.8	2.2	1.2	0.88	1.8	0.59	3.4	0.11J	1.2	0.1J	1.1	2.8
	STI-B131	0.17-2	12/19/2019	18.22	<0.11U	1.4	0.68	1.6	1.9	2.4	2	0.77	1.8	0.47	1.5	0.099J	1.4	<0.074U	0.36J	1.8
	STI-B132	0-0.17	12/20/2019	10.03	0.05J	0.23	0.23	0.93	0.91	1.2	0.73	0.36	0.92	0.32	1.4	0.066J	0.69	0.076J	0.57	1.4
	STI-B132	0.17-2	12/19/2019	45.41	<0.22U	3.6	1.7	3.6	4.6	5.3	5.8	2.2	4.2	1.1	3.5	0.23J	3.9	0.27J	0.81	4.6
	STI-B137	0-0.17	12/21/2019	7.081	0.035J	0.23	0.14	0.61	0.66	0.77	0.54	0.35	0.67	0.22	0.99	0.031J	0.5	0.1J	0.3	0.97
	STI-B137	0.17-2	12/18/2019	2.762	<0.023U	0.21	0.091	0.25	0.27	0.31	0.19	0.09	0.27	0.067J	0.23	0.034J	0.15	0.11	0.21	0.28
	STI-B139	0-0.17	12/21/2019	37.77	0.083J	0.65	0.58	3.2F1	3.6F1	4.6F1	3.5	1.9F1	3.6F1	0.86	4.9F1	0.088J,F1	3.2	0.092J,F1	1.4F1	5.6F1
	STI-B139	0.17-2	12/18/2019	4.568	<0.024U	0.096	0.066J	0.4	0.45	0.58	0.39	0.22	0.45	0.11	0.64	<0.016U	0.33	<0.016U	0.18	0.64
	STI-B163	0-0.17	12/21/2019	10.25	<0.15U	0.53	0.31J	0.74	0.97	1.4	0.98	0.42J	0.89	0.24J	1.2	<0.1U	0.81	0.16J	0.45J	1.1
	STI-B163	0.17-2	12/18/2019	4.265	<0.42U	0.69J	<0.38U	0.44J	<0.31U	<0.36U	<0.31U	<0.43U	0.45J	<0.32U	0.43J	<0.28U	<0.29U	<0.28U	<0.39U	0.58J
	STI-B164	0-0.17	12/21/2019	41.08	0.19J	2.9	1.3	2.5	3.6	4.6	3.6	1.9	3.8	1	4.9	0.28J	3.2	0.4	1.4	5.7
	STI-B164	0.17-2	12/18/2019	1.758	<0.021U	0.14	0.057J	0.11	0.16	0.22	0.16	0.067J	0.16	0.039J	0.19	<0.014U	0.14	<0.014U	0.061J	0.24
	STI-B166	0.17-2	12/18/2019	71.11	0.18J	3.9	1.6	5.7	7	9.3	5.6	2.6	7	1.3	8.7	0.37J	4.6	0.44	3	10
	STI-B167	0.17-2	12/18/2019	2.222	<0.022U	0.13	0.055J	0.18	0.22	0.25	0.2	0.11	0.21	0.11	0.24	<0.015U	0.17	<0.015U	0.052J	0.28
	STI-B177	0.17-2	12/18/2019	54.36	0.15	2.3	1.5	5	4.4	5.4	3.5	1.8	5	0.93	8.1	0.41	3.2	0.22	3.9	8.7
	STI-B179	0-0.17	12/21/2019	2.967	<0.03U	0.081J	0.085J	0.25	0.25	0.31	0.21	0.12	0.26	0.06J	0.43	0.031J	0.2	0.04J	0.24	0.4
	STI-B180	0.17-2	12/18/2019	15.16	<0.045U	0.51	0.31	1.3	1.4	1.8	1.2	0.69	1.4	0.41	2	0.065J	1.1	0.062J	0.71	2.2
	STI-B182	0-0.17	12/21/2019	29.88	0.77	0.16	1.4	2.4	2.2	2.7	1.5	0.79	2.3	0.41	5.1	0.75	1.4	0.67	4.4	3.7
	STI-B184	0.17-2	12/19/2019	18.4	<0.22U	0.98	0.78	1.6	1.6	2	1.8	0.63J	1.7	0.4J	1.8	<0.15U	1.3	0.23J	1.1	2.4
	STI-B185	0.17-2	12/18/2019	56.16	0.17	2.5	1.3	4.9	5.5	6.2F1	3.9	2.2	5.1F1	1	7.3F1	0.48	3.5	0.18	4	8.1F1
	STI-B186	0.17-2	12/18/2019	15.86	0.06J	0.63	0.37	1.2	1.5	1.9	1.3	0.62	1.5	0.42	2	0.097J	1.2	0.081J	0.84	2.2
	STI-B187	0.17-2	12/18/2019	9.703	0.029J	0.42	0.28	0.81	0.89	1	0.77	0.41	0.83	0.24	1.3	0.059J	0.7	0.064J	0.63	1.3
	STI-B188	0-0.17	12/20/2019	646.5	14	1.5	33	58	45	51	25	18	47	7.8	120	15	26	9.2	100	90
	STI-B188	0.17-2	12/19/2019	140.6	3.6	0.31	7.6	12	9.4	9.5	6.7	4.5	10	1.7	23	3.6	6.2	3.1	25	18
	STI-B189	0.17-2	12/18/2019	27.88	0.086J	1.4	0.71	2.3	2.5	3	2.1	1	2.6	0.59	3.6	0.19	1.8	0.19	1.9	4
	STI-B190	0.17-2	12/19/2019	1035 - 1118	31 - 33	<0.84 - 1.1U	54 - 58	86	69 - 72	75 - 77	40 - 50	23 - 34	69 - 71	9 - 16	160 - 190=	32 - 33	34 - 47	43 - 44	190 - 220=	130 - 140
	STI-B190A	0-0.17	12/20/2019	1467	38	3.9J	78	130	98	100	53	48	99	21	270	41	58	27	240	200
	STI-B190A	0.17-2	12/19/2019	800.9 - 838.5	28 - 31	<0.68 - 0.74J	54 - 57	62 - 65	43 - 47	43 - 51	20 - 27	21 - 25	48 - 51	5.2 - 9.2	120 - 130	34 - 37	20 - 26	46 - 50	180=	87 - 100
	STI-B191	0.17-2	12/19/2019	84.35 - 95.36	2.6 - 2.9	0.1 - 0.16J	5.2 - 5.7	7.2 - 8	5.2 - 5.7	5.8	2.5 - 3.7	2.5 - 2.8	5.7 - 6.3	0.85 - 1.1	14 - 16	2.8 - 3.1	2.6 - 3.5	2.6 - 2.8	16 - 20=	11
West of FRA Fence	STI-B31	0-0.17	10/21/2015	1.93	<0.0077U	0.027J	0.034J	0.14	0.15	0.19	0.15	0.086	0.19	0.043J	0.36	<0.011U	0.12	<0.0069U	0.18	0.26
	STI-B31	0.17-2	10/21/2015	0.216	<0.0074U	<0.0088U	<0.0075U	0.029J	0.03J	<0.012U	<0.0077U	<0.016U	0.034J	<0.0086U	0.054J	<0.01U	<0.0079U	<0.0066U	0.028J	0.041J
	STI-B32	0-0.17	10/21/2015	12.5	0.063J	0.51	0.43	0.9	0.98	1.2	0.91	0.38	1.2	0.24	2.1	0.14J	0.75	0.064J	1.1	1.6
	STI-B32	0.17-2	10/21/2015	1.636	<0.0073U	0.082	0.052J	0.13	0.14	0.17	0.13	0.072J	0.17	<0.0085U	0.25	<0.01U	0.13	<0.0066U	0.1	0.21
	STI-B33	0-0.17	10/21/2015	2.12	<0.0085U	0.028J	0.032J	0.14	0.17	0.21	0.17	0.12	0.21	<0.0098U	0.41	<0.012U	0.13	<0.0076U	0.22	0.28
	STI-B33	0.17-2	10/21/2015	0.156	<0.0074U	<0.0088U	<0.0075U	0.025J	<0.0077U	<0.012U	<0.0076U	<0.015U	0.028J	<0.0085U	0.044J	<0.01U	<0.0079U	<0.0066U	0.025J	0.034J

Notes:

STI VCP - the previously approved cleanup goalsfor voluntary remedial actions is total PAHs less than or equal to 100 mg/kg.

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.

PAHs - polycyclic aromatic hydrocarbons
SCO - Soil Cleanup Objective (6 NYCRR Subpart 375)
ft bgs - feet below ground surface
mg/kg -milligrams/kilogram

J - estimated values
U - value is below the reporting limit

Shaded values exceed Residential screening criteria.
Shaded values exceed Industrial screening criteria.
Shaded values exceed STI VCP screening criteria.

TABLE 3
Metals Concentrations Surface and Shallow Subsurface Soils

Former Scott Technologies Site
Elmira, New York

				Metals																						
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (hexavalent)	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Thallium	Vanadium	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			EQL	17	0.27	0.86	17	0.34	0.43	430	0.24	0.43	4	2.1	8.6	0.15	430	1.3	0.011	3.2	430	0.32	0.067	0.27	4.3	1.7
			Industrial			16	10000	2700	60		800	6800		10000		3900		10000	5.7	10000		6800	6800			10000
			Residential			16	350	14	2.5		22	36		270		400		2000	0.81	140		36	36			2200
			STI VCP																							
Investigation Area	Location	Sample Depth	Sample Date																							
South of Building 88	STI-B22	0-0.17	10/22/2015	8300	0.53J	6.1	110	0.38J	0.089J	8000	-	11B	7.1	24	18,000	31	3500	440	0.015J	22	640	<0.34U	<0.071U	<0.29U	19	79
	STI-B22	0.17-2	10/22/2015	9300	0.96J	8.1	400	0.44J	0.25J	8500	-	21B	8.5	56	27,000	91	3000	550	0.057	49	700	0.38J	<0.077U	<0.31U	17	150
	STI-B23	0-0.17	10/22/2015	10,000	0.82J	8	230	0.46	0.14J	6900	-	16B	8.7	37	23,000	48	3500	470	0.061	44	810	0.46J	<0.078U	<0.32U	17	120
	STI-B23	0.17-2	10/22/2015	8500	0.76J	7.8	300	0.36J	0.16J	4600	-	17B	7.7	74	25,000	110	2600	570	0.13	63	700	<0.35U	<0.074U	<0.3U	15	160
	STI-B24	0-0.17	10/22/2015	7900	1.1J	12	790	0.61	0.58J	5400	-	23B	6.2J	65	23,000	150	2300	560	0.17	49	840	0.94J	0.11J	<0.38U	16	190
	STI-B24	0.17-2	10/22/2015	7500	1.8	8.7	720	0.39J	0.26J	4000	-	18B	5.7	910	22,000	150	2000	500	0.57	41	490J	<0.36U	0.5J	<0.31U	14	180
	STI-B25	0-0.17	10/23/2015	7000J	<0.29UJ	6.3	210J	0.31J	0.46J	47,000J	-	13J	6.4	39J	18,000J	72J+	11,000J	330J	0.042J+	29	680	0.6J	<0.071U	<0.29U	31	150J
	STI-B25	0.17-2	10/23/2015	8000	<0.28U	5.5	84	0.34J	0.14J	17,000	-	10B	6.7	25	16,000	30	4300	500	0.075	18	490J	0.51J	<0.069U	<0.28U	13	92
	STI-B26	0-0.17	10/23/2015	7900	<0.33U	7.2	82	0.37J	0.27J	45,000	-	11B	6.1	21	15,000	52	10,000	290	0.05	18	830	0.68J	<0.082U	<0.33U	14	76
	STI-B26	0.17-2	10/23/2015	10,000	0.66J	6.9	66	0.39J	0.057J	14,000	-	12B	7	16	19,000	19	4800	310	0.025J	18	560	0.4J	<0.072U	<0.29U	15	59
	STI-B27	0-0.17	10/23/2015	6500	0.5J	7.3	90	0.36J	0.54J	27,000	-	13B	5.8	41	18,000	98	7200	310	0.034J	25	770	0.85J	0.11J	<0.3U	15	130
	STI-B27	0.17-2	10/23/2015	9100	0.29J	7.1	64	0.39J	0.14J	28,000	-	11B	7.3	22	19,000	49J	6200J	410	0.011J	19	680	0.51J	<0.068U	<0.28U	15	58
	STI-B28	0-0.17	10/23/2015	5200	<0.3U	5	91	0.25J	0.24J	53,000	-	9.2B	5J	21	13,000	56	12,000	340	0.039	18	740	0.72J	<0.075U	<0.3U	10	69
	STI-B28	0.17-2	10/23/2015	7200	3	9.2	820	0.33J	0.72	5000	-	39B	7.5	630	33,000	740	2400	540	0.082	92	510J	1.2	4.3	<0.28U	17	480
	STI-B29	0-0.17	10/23/2015	7700	18	16	210	0.38J	0.48J	11,000	-	33B	11	230	110,000	160	2500	610	0.052	110	730	1.3	0.096J	0.32J	16	360
	STI-B29	0.17-2	10/23/2015	7900	0.38J	5.2	55	0.34J	0.093J	20,000	-	10B	6.7	26J	18,000	22J	4500	300	0.019J	22	600	0.46J	<0.069U	<0.28U	15	70J
	STI-B30	0-0.17	10/23/2015	7700	<0.32U	7.1	160	0.39J	0.2J	43,000	-	11B	6.4	29	16,000	130	8100	390	0.07	22	1100	0.97J	<0.078U	<0.32U	14	83
	STI-B30	0.17-2	10/23/2015	8200	0.88J	7.5	410	0.42J	0.049J	10,000	-	51B	5.9	24	17,000	400	2500	430	0.14	19	630	0.67J	<0.072U	<0.29U	13	61
	STI-B117	0-0.17	12/21/2019	8000B	<0.46U	20	230	0.66	0.84	5000	<0.31U	24	7.3	100	24,000	140	2500	500	0.12	41	760	1J	0.21J	<0.43U	15	200
	STI-B117	0.17-2	12/19/2019	7400	<0.37U	8.1	490	0.36J	0.49J	4400	0.45J	20	6.7	88	21,000=	150	2300	510	0.16	51	590	<0.56U	<0.12U	0.42J	13	150
	STI-B117	2-4	12/19/2019	6900	0.78J	7.8	870	0.31J	0.53	4200	-	30	7.5	190	31,000	250	2700	530	-	76	510	<0.52U	<0.11U	<0.32U	12	270
	STI-B127	0-0.17	12/20/2019	7600	<0.44U	34	160	0.52	0.48J	5500	0.67	15	5.8J	46	22,000	66	2100	510	0.2	22	750	0.89J	<0.14U	<0.42U	14	120
	STI-B127	0.17-2	12/19/2019	8700	<0.4U	18	120	0.47	0.23J	4100J	1.7J	11	5.9J	26	16,000=	29	1800	480	0.078	17	530J	0.74J	<0.12U	<0.37U	15	68
	STI-B127	2-4	12/19/2019	7700	<0.34U	6.5	33	0.36J	0.12J	610	-	8.7	6.7	20	16,000	8.5	2100	590	-	17	530	<0.52U	<0.11U	<0.32U	12	45
	STI-B128	2-4	12/19/2019	8800	<0.37U	18	460	0.56	0.33J	6400	0.39J	17	6.5	71	27,000=	79	2800	460	0.091	38	550	<0.57U	<0.12U	0.44J	14	130
	STI-B130	0-0.17	12/20/2019	7500	<0.45U	7	150	0.37J	0.65J	23,000	<0.28U	16	6.5J	73	19,000	80	4200	410	0.061	39	850	<0.68U	<0.14U	<0.42U	14	170
	STI-B130	0.17-2	12/19/2019	8300	<0.37U	8.2	130	0.38J	0.35J	25,000	<0.24U	11	6.8	26	17,000B	40	4800	430	0.092	21	690	<0.56U	<0.11U	<0.35U	18	85
	STI-B131	0-0.17	12/20/2019	7500	0.46J	10	190	0.35J	0.9	4300	<0.29U	25	8.3	240	35,000	190	2400	490	0.076	96	620	<0.63U	<0.13U	<0.39U	13	390
	STI-B131	0.17-2	12/19/2019	8000	<0.38U	6.6	150	0.37J	0.59	35,000	<0.24U	16	7.4	100	20,000B	89	5400	440	0.061	54	780	1.3	<0.12U	<0.36U	15	200
	STI-B132	0-0.17	12/20/2019	7500	<0.83U	13	210	0.36J	1	4600	0.43J	24	9.6	210	71,000	160	2300	660	0.077	110	710	0.63J	<0.13U	0.72J	16	380
	STI-B132	0.17-2	12/19/2019	9000	<0.35U	8.8	110	0.41	0.38J	30,000	<0.25U	16	7.8	64	23,000B	73	5200	400	0.05	36	820	0.78J	<0.11U	<0.33U	18	150
	STI-B134	0-0.17	12/21/2019	8300B	1.4J	21	350	0.81	2.1	8700	<0.73U	43	10	250	25,000	190	3000	600	0.28	75	1200	1.7	1.3	0.68J	15	340
	STI-B134	0.17-2	12/19/2019	15,000	0.51J	39	1200	0.96	4.2	26,000	0.53	84	8.3	400	36,000=	270	10,000	940	0.12	150	1100	2.1	1.4	1.1J	16	530
	STI-B134	2-4	12/19/2019	6700	0.69J	8.2	940	0.34J	0.78	12,000	-	25	6	130	23,000	170	2200	410	-	78	520J	<0.58U	0.15J	<0.36U	12	430
	STI-B136	0-0.17	12/21/2019	9500B	<0.57U	13	180	0.83	1.1	11,000	<0.37U	30	10	130	20,000	130	3400	640	0.28	51	1100	0.93J	0.4J	<0.54U	15	260
	STI-B136	0.17-2	12/19/2019	10,000	8.9	12	280	0.8	2	25,000	1.1	49	8	1400	32,000=	370	4900	600	0.34J	65	780	0.97J	2	0.6J	15	390
	STI-B136	2-4	12/19/2019	7300	<0.33U	4.7	91	0.32J	0.27J	2400	-	17	5.9	110	17,000	31	2300	380	-	32	450J	<0.5U	<0.1U	<0.31U	12	73
	STI-B137	0-0.17	12/21/2019	10,000B	<0.59U,F1,F2	7.1	150	0.48J	0.37J	20,000F2	<0.75U,F1	17	7.8J	28	20,000	51	5800	770	0.069	28	1000	1.2J	<0.18U	<0.56U	14	110
	STI-B137	0.17-2	12/18/2019	12,000	<0.36U	6	170	0.45	0.21J	2600	<0.25U	27	7.9	24	26,000B	36	2300	620	0.15	26	720	<0.55U	<0.11U	0.48J	17	94
	STI-B139	0-0.17	12/21/2019	7000B	<0.53U,F1	6.6	100	0.36J	0.43J	56,000	<0.35U,F1	12	6.3J	27	15,000	78	13,000F1	500	0.061	23	930	1.2J	<0.16U	<0.5U	12	83
	STI-B139	0.17-2	12/18/2019	11,000	<0.37U	9.7	130	0.45	0.19J	33,000	<0.25U	14	7.6	20	18,000B	26	6400	770	0.033J	21	770	0.73J	<0.11U	<0.35U	15	66
	STI-B141	0.17-2	12/18/2019	11,000	<0.41U	8	250	0.51	0.28J	31,000	0.44J	18	9.3	51	22,000B	77	3000	420	0.06	35	950	0.78J	<0.13U	<0.38U	16	95
	STI-B142	0.17-2	12/18/2019	8200	0.58J	9.9	750	0.43	0.23J	12,000	<0.26U	15	8.4	80	30,000B	250	2800	480	0.065	38	800	0.67J	<0.11U	0.4J	16	99
	STI-B143	0.17-2	12/18/2019	8500	<0.35U	7	120	0.4J	0.17J	25,000	0.29J	11	7.3	36	20,000B	50	5700	550	0.046	20	700	0.59J	<0.11U	<0.33U	13	65
	STI-B144	0.17-2	12/18/2019	7900	<0.42U	8.4	880	0.43J	0.29J	30,000	<0.26U	16	6.9	220	25,000B	2000	6100	620	0.08	31	790	0.89J	<0.13U	<0.39U	13	91
	STI-B158	2-4	12/18/2019	9800	0.52J	9.9	580	0.43	0.32J	1900	<0.24U	37	9.4	360	35,000B	120	2300	590	0.18	120	680	1J	0.24J	0.47J	19	210
	STI-B159	2-4	12/18/2019	11,000	<0.35U	8.4	180	0.53	0.15J	1500	<0.24U	13	11	22	23,000B	34	2600	920	0.026J	20	800	<0.53U	<0.11U	0.51J	16	56

TABLE 3
Metals Concentrations Surface and Shallow Subsurface Soils

Former Scott Technologies Site
Elmira, New York

				Metals																							
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (hexavalent)	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Thallium	Vanadium	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			EQL	17	0.27	0.86	17	0.34	0.43	430	0.24	0.43	4	2.1	8.6	0.15	430	1.3	0.011	3.2	430	0.32	0.067	0.27	4.3	1.7
			Industrial			16	10000	2700	60		800	6800		10000		3900		10000	5.7	10000		6800	6800			10000
			Residential			16	350	14	2.5		22	36		270		400		2000	0.81	140		36	36			2200
			STI VCP																							
Investigation Area	**Location**	**Sample Depth**	**Sample Date**																							
West of FRA Fence	STI-B31	0-0.17	10/21/2015	7500	0.97J	5.8	250	0.33J	0.54J	3400	-	12B	5.5J	24	15,000	110	1800	480	0.079	13	1300	0.59J	0.18J	<0.31U	12	200
	STI-B31	0.17-2	10/21/2015	11,000	0.86J	5	200	0.43J	0.15J	1700	-	13B	7.1	12	18,000	64	2200	680J	0.029J	14	620	<0.37U	<0.077U	<0.31U	15	85
	STI-B32	0-0.17	10/21/2015	9000	1.5	10	210	0.45J	1.1	5200	-	24B	7.2	41	16,000	530	2300	500	0.2	18	1300	0.66J	<0.088U	<0.36U	18	260
	STI-B32	0.17-2	10/21/2015	11,000	0.87J	7.3	160	0.47	0.35J	2100	-	15B	7.9	27	19,000	160	2600	510	0.079	18	870	<0.36U	<0.075U	<0.3U	17	130
	STI-B33	0-0.17	10/21/2015	12,000	1J	7.6	170	0.55	0.26J	3400	-	14B	8.4	16	20,000	34	2700	1000	0.075	18	1100	0.63J	<0.093U	<0.38U	18	120
	STI-B33	0.17-2	10/21/2015	13,000	0.69J	6.6	140	0.56	0.047J	530J	-	14B	9.2	11	21,000	16	2600	860	0.036J	18	770	<0.34U	<0.072U	<0.29U	19	58
	STI-B46	0-0.17	9/9/2016	9000	0.7J	9.5	84	0.44J	0.39J	2700	0.17J	12	7.8	25	20,000	330	2500	430	0.069	20	800	0.56J	<0.19U	<0.57U	17	160
	STI-B46	0.17-2	9/9/2016	9700	<0.33U	8.9	65	0.43	0.21J	1300	0.2J	13	8.3	21	21,000	110	2700	370	0.039	21	640	<0.37U,^	<0.15U	<0.46U	16	120
	STI-B47	0-0.17	9/9/2016	11,000	<0.36U	6.6	130	0.47	0.23J	2200	0.6	12	7.1	14	17,000	94	2300	630	0.069	15	810	0.69J	<0.17U	<0.51U	15	82
	STI-B47	0.17-2	9/9/2016	12,000	<0.35U	5.6	140	0.51	0.14J	710	0.26J	12	7.6	26	18,000	38	2300	640	0.034	16	580	0.63J	<0.16U	<0.49U	16	65
	STI-B48	0-0.17	9/9/2016	9900	0.73J	7.7	190	0.47	0.54	2800	0.35J	13	7.1	28	17,000	320	2300	650	0.48	16	1000	0.81J	0.23J	<0.52U	15	220
	STI-B48	0.17-2	9/9/2016	11,000	<0.35UJ	7	170	0.52	0.3J	1300	0.37J	13	7.4	22	19,000	130J+	2400	650	0.29J-	16	670	0.86J	<0.17U	<0.5U	17	120J+
	STI-B123	0-0.17	12/21/2019	11,000B	1.9	22	1400	0.52J	2.1	7500	<0.33U	38	9.3	71	21,000	3100	2600	730	0.14	21	1500	8.5	0.38J	0.49J	20	1800

Notes:
- = not analyzed
J - estimated value
U - non-detect
B - compound was found in the blank and sample
F1 - MS and/or MSD recovery is outside acceptable limits
F2 - MS/MSD RPD exceeds control limits
mg/kg - milligrams per kilogram
MDL - Method Detection Limit
* - If no specific result for Cr(VI) exists, then Cr(III+VI) results were compared to Cr(VI) screening criteria
ft bgs - feet below ground surface
Metal concentrations detected above Residential Soil Cleanup Objectives are presented in light gray.
Metals concentrations detected above Industrial Soil Cleanup Objectives are presented in dark gray.

TABLE 4
Bottom and Sidewall Excavation Areas and Samples
Former Scott Technologies
Elmira, New York

Label	Bottom Depth (ft bgs)	Perimeter (linear feet)	Required Number of Perimeter Samples	Bottom of Excavation Area (square feet)	Required Number of Bottom Samples	Analyses
1-1	0.5	546	19	6,114	7	PAHs, Metals
2-1	1.0	456	16	10,396	12	PAHs, Metals
1-2	0.5	140	5	1,284	2	PAHs
2-2	1.0	140	5	1,284	2	PAHs
1-3	0.5	157	6	1,630	2	PAHs
2-3	1.0	157	6	1,630	2	PAHs
1-4	0.5	242	9	3,507	4	PAHs
1-5	0.5	163	6	1,656	2	PAHs
1-6	0.5	200	7	2,365	3	PCBs
1-7	0.5	128	5	1,028	2	PAHs, Metals

Notes
ft bgs feet below ground surface
PAHs Polycyclic Aromatic Hydrocarbons
PCBs Polychlorinated Biphneyls

TABLE B & B Engineers and eologists P

R Schedule

ormer Scott Technologies Site
Elmira New or

Tas Name	Duration	Start	inish
Shallow Soil R or Plan			
raft M ork Plan Submittal	0 days	Fri 3/13/2020	Fri 3/13/2020
raft M Construction rawing Submittal	0 days	Tue 3/17/2020	Tue 3/17/2020
Agency e iew	6 wks	ed 3/18/2020	Tue 4/28/2020
Agency Comments and Conditions for Appro al	0 days	Tue 4/28/2020	Tue 4/28/2020
Final M ork Plan and esign Preparation	1 wk	ed 4/29/2020	Thu 5/7/2020
Final M ork Plan Submittal	0 days	Thu 5/7/2020	Thu 5/7/2020
Agency e iew	2 days	Fri 5/8/2020	Mon 5/11/2020
NYS EC Appro al and NTP	0 days	Mon 5/11/2020	Mon 5/11/2020
R onstruction	24 days	Mon 5/11/2020	Fri 5/29/2020
Mobili ation	0 days	Mon 5/11/2020	Mon 5/11/2020
nstall Temp Fence	1 day	Mon 5/11/2020	Mon 5/11/2020
nstall Silt Fence	2 days	Mon 5/11/2020	Tue 5/12/2020
E ca ation of Soils	4 days	ed 5/13/2020	Sat 5/16/2020
Backfill Areas	2 days	Mon 5/18/2020	Tue 5/19/2020
MSA ecommissioning	6 days	ed 5/13/2020	Tue 5/19/2020
Soil and MSA isposal	6 days	ed 5/13/2020	Tue 5/19/2020
Place Topsoil	5 days	ed 5/20/2020	Tue 5/26/2020
Seed and Mulch	2 days	ed 5/27/2020	Thu 5/28/2020
emobili ation	1 day	Fri 5/29/2020	Fri 5/29/2020

ATTACHMENT 1

ANALYTICAL REPORTS

ATTACHMENT 2

CONSTRUCTION DRAWINGS

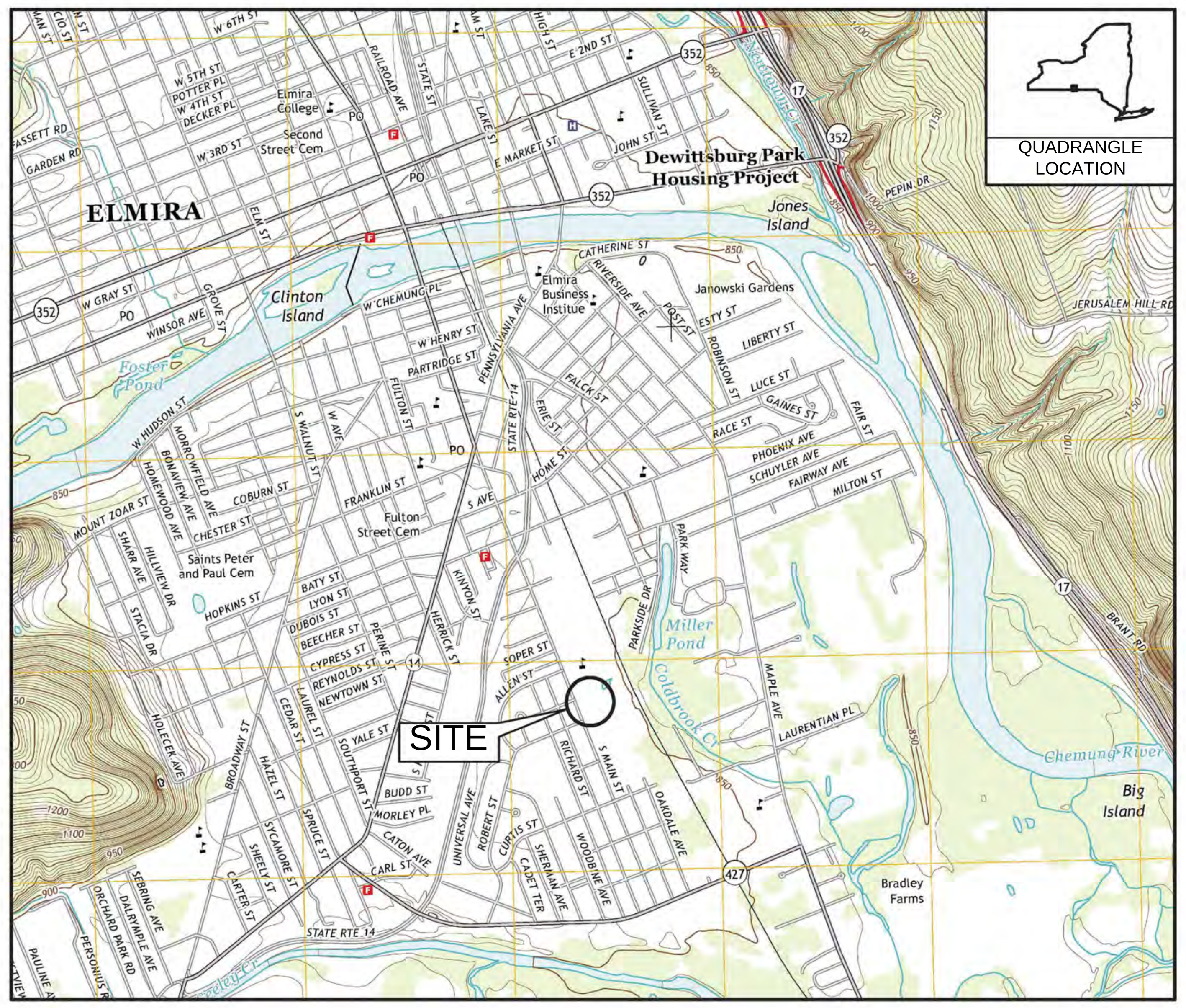
ATTACHMENT 3

QUALITY ASSURANCE PROJECT PLAN (QAPP)

INTERIM REMEDIATION MEASURE

FORMER SCOTT TECHNOLOGIES
ELMIRA, NEW YORK

MAY 2020



SOURCE: "ELMIRA, NEW YORK" USGS 7.5' QUANDRANGLE, 2013 SCALE: 1" = 2000'

LOCATION MAP

LIST OF DRAWINGS

NUMBER	TITLE
1	TITLE SHEET
2	EXISTING CONDITIONS
3	SITE PLAN
4	EXCAVATION PLAN
5	MATERIAL STAGING AREA PLAN (MSA) PLAN
6	EQUIPMENT WASH PAD
7	EROSION AND SEDIMENT CONTROL PLAN
8	EROSION AND SEDIMENT CONTROL DETAILS

PREPARED FOR: UNISYS CORPORATION

CORPORATE ENVIRONMENTAL AFFAIRS
3199 PILOT KNOB ROAD MS F1B05
EAGAN, MN 55121

PREPARED BY: B&B Engineers & Geologists of new york, p.c.
an affiliate of Geosyntec Consultants

10211 WINCOPIN CIRCLE, FLOOR 4
COLUMBIA, MD 20144
PHONE: (410) 381-4333

4 / 6 — DETAIL NUMBER; DRAWING ON WHICH ABOVE DETAIL IS PRESENTED

DETAIL NUMBER
DRAWING ON WHICH ABOVE DETAIL WAS FIRST REFERENCED
4 / 3 DETAIL
TITLE OF DETAIL
SCALE: 1" = 2'

EXAMPLE: DETAIL NUMBER 4 PRESENTED ON DRAWING NUMBER 6 WAS REFERENCED FOR THE FIRST TIME ON DRAWING NUMBER 3.

ABOVE SYSTEM ALSO APPLIES TO SECTION IDENTIFICATIONS.

DETAIL IDENTIFICATION LEGEND

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP

B&B Engineers & Geologists of new york, p.c. *an affiliate of Geosyntec Consultants* — UNISYS

TITLE: TITLE SHEET

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SCOTT TECHNOLOGIES
ELMIRA, NEW YORK

SIGNATURE
5/7/2020
DATE

STATE OF NEW YORK — ARON A. KRASNOPOLER — 089954-1 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	MARCH 2020
DRAWN BY:	BGF	PROJECT NO.:	MN0832C
CHECKED BY:	KTO	FILE:	MN0832C-001
REVIEWED BY:	PLB	DRAWING NO.:	1 OF 8
APPROVED BY:	AK		

1 - PLAN
EXISTING CONDITIONS

0 80' 160'
SCALE IN FEET

VICINITY MAP
SCALE: NTS

LEGEND

○	MANHOLE
	CATCH BASIN
12"CMP	CULVERT PIPE
	CHAIN LINK FENCE
	WOODEN FENCE
	PROPERTY LINE
90	EXISTING CONTOUR LINE
	EDGE OF WATER
	EDGE OF WOODS OR BRUSH
SAN	SANITARY SEWER
ST	STORM SEWER
G	GAS PIPELINE
W	WATER PIPELINE

GENERAL NOTES:

1. EXISTING TOPOGRAPHY IS FROM:
   a. A TOPOGRAPHIC SURVEY OF FORMER REMINGTON RAND SITE BY WEILER ASSOCIATES, DATED 27 APRIL 2011.
   b. A BOUNDARY SURVEY OF LANDS OF SCOTT TECHNOLOGIES, INC. (F/K/A FIGGIE INTERNATIONAL, INC.), TOWN OF SOUTHPORT, CHEMUNG COUNTY, NEW YORK BY WEILER ASSOCIATES IN JUNE 1980, REVISED IN SEPTEMBER AND OCTOBER 2005.

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP

B&B Engineers & Geologists of new york, p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: EXISTING CONDITIONS

PROJECT: INTERIM REMEDIATION MEASURE

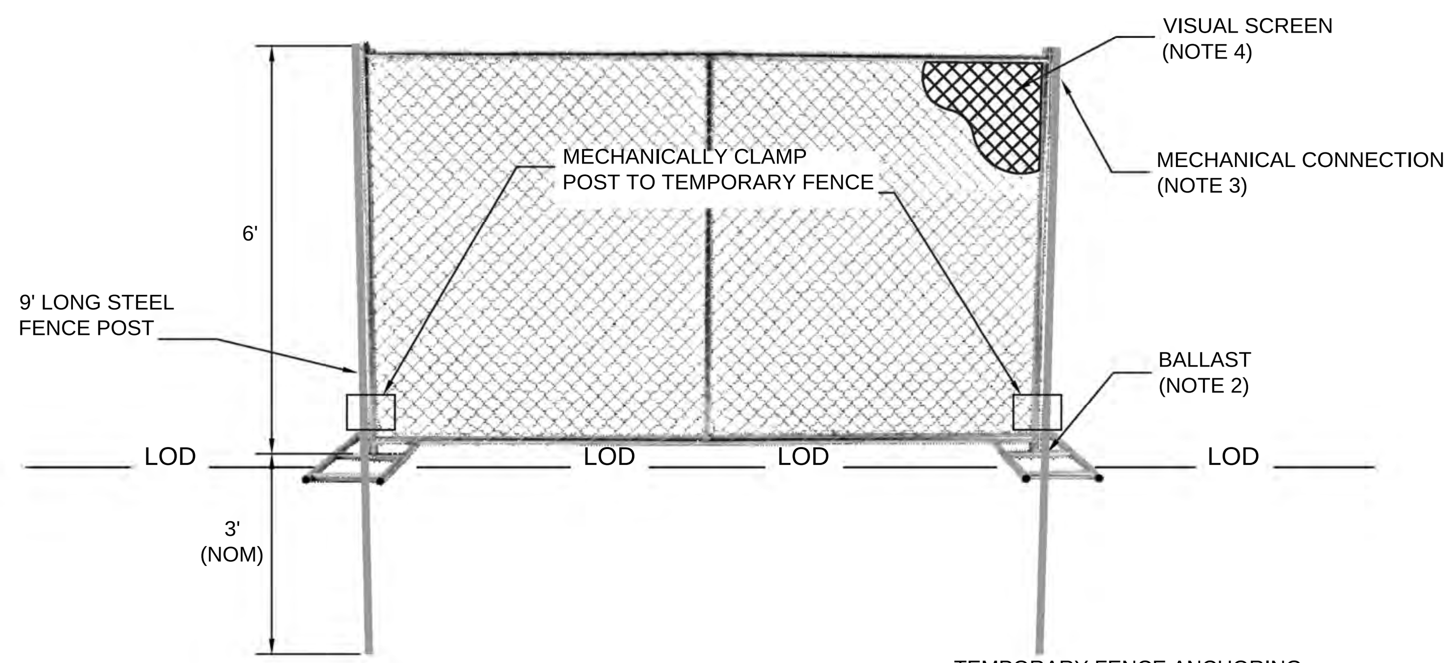
SITE: FORMER SCOTT TECHNOLOGIES
ELMIRA, NEW YORK

SIGNATURE
5/7/2020
DATE

STATE OF NEW YORK ★ ARON A. KRASNOPOLER ★ 089954-1 LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	MAY 2020
DRAWN BY:	BGF	PROJECT NO.:	MN0832C
CHECKED BY:	KTO	FILE:	MN0832C-002
REVIEWED BY:	PLB	DRAWING NO.:	2 OF 8
APPROVED BY:	AK		

2 - PLAN
SITE PLAN



3 - DETAIL
TEMPORARY FENCE
SCALE: NOT TO SCALE

NOTES:

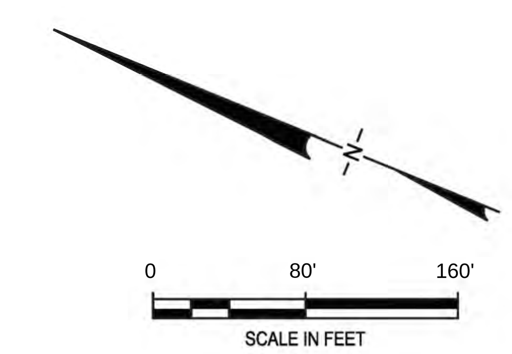
1. 6-FT TALL, PORTABLE CHAIN-LINK FENCE PANELS, SET ON THE EXISTING GROUND SURFACE, COINCIDENT WITH THE LIMIT OF DISTURBANCE.
2. FLEXIBLE, MECHANICAL CONNECTION, BETWEEN FENCE PANELS.
3. FULL-COVERAGE VISUAL SCREENING OVER EACH ENTIRE FENCE PANEL.

LEGEND

- MANHOLE
- CATCH BASIN
- CULVERT PIPE
- CHAIN LINK FENCE
- WOODEN FENCE
- PROPERTY LINE
- EXISTING CONTOUR LINE
- EDGE OF WATER
- EDGE OF WOODS OR BRUSH
- SANITARY SEWER
- STORM SEWER
- GAS PIPELINE
- WATER PIPELINE
- LIMIT OF DISTURBANCE
- SILT FENCE

CONSTRUCTION SEQUENCE

1. INSTALL TEMPORARY FENCING PURSUANT TO DRAWING 3.
2. INSTALL/MAINTAIN TEMPORARY SEDIMENT AND EROSION CONTROLS PURSUANT TO DRAWINGS 6.
3. PREPARE MSA FOR STAGING EXCAVATED SOILS AND RELOCATE EQUIPMENT WASH PAD. MATERIALS FROM THE EXISTING WASH PAD MAY BE REUSED.
4. EXCAVATE SHALLOW SOILS AS SHOWN TO THE DEPTHS SHOWN ON DRAWING 4.
5. STOCKPILE SOILS FOR WASTE CHARACTERIZATION IN THE MATERIAL STAGING AREA (MSA).
6. BACKFILL THE EXCAVATION WITH APPROVED, OFF-SITE BORROW. SEE DETAIL 4 ON DRAWING 9.
7. TRANSPORT WASTE SOILS FOR OFF-SITE DISPOSAL.
8. DECOMMISSION THE MSA PURSUANT TO DRAWING 5.
9. AMEND TOPSOIL AND INSTALL PERMANENT VEGETATION IN LOCATIONS THAT ARE TO BE GRASSED.
10. REMOVE TEMPORARY SEDIMENT AND EROSION CONTROLS.



CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP

B&B Engineers & Geologists of new york, p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: SITE PLAN

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SCOTT TECHNOLOGIES
ELMIRA, NEW YORK

SIGNATURE
5/7/2020
DATE

STATE OF NEW YORK · ARON A. KRASNOPOLER · 089954-1 · LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	MAY 2020
DRAWN BY:	BGF	PROJECT NO.:	MN0832C
CHECKED BY:	KTO	FILE:	MN0832C-003
REVIEWED BY:	PLB	DRAWING NO.:	3 OF 8
APPROVED BY:	AK		

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4 / - PLAN
EXCAVATION PLAN

EXCAVATION

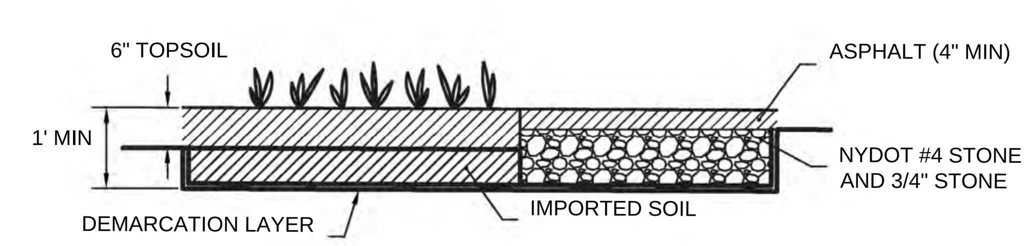
1. REMOVE MSA FENCING, BASE LAYER AND GEOTEXTILE FABRIC AS NECESSARY TO ACCESS EXCAVATION.
2. EXISTING TREES SHALL BE PROTECTED AND MAINTAINED IN PLACE.
3. EXCAVATED SOILS SHALL BE STOCKPILED FOR SAMPLING FOR WASTE CHARACTERIZATION BY THE ENGINEER AND LOADED INTO TRUCKS FOR OFF-SITE DISPOSAL UPON APPROVAL OF THE WASTE PROFILE BY THE RECEIVING FACILITY.
4. ALL VEHICLES LEAVING THE LOADING AREA SHALL BE DECONTAMINATED PRIOR TO LEAVING THE SITE.
5. DOCUMENTATION SAMPLES WILL BE COLLECTED BY ENGINEER. SAMPLE LOCATION AND ELEVATION WILL BE SURVEYED BY A NYS-LICENSED SURVEYOR.
6. PLACE DEMARCATION LAYER NETTING OVER BOTTOM OF EXCAVATION PRIOR TO BACKFILLING. DEMARCATION LAYER SHALL OVERLAP A MINIMUM OF 6-INCHES ALONG EDGES.
7. HORIZONTAL AND VERTICAL EXTENT OF THE EXCAVATION WILL BE SURVEYED BY A NYS-LICENSED SURVEYOR.
8. STOCKPILED MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS AT UNISYS APPROVED FACILITY.

DECONTAMINATION

1. THE CONTRACTOR SHALL PERFORM DECONTAMINATION OF ANY TRUCKS OR EQUIPMENT CONTACTING OR SUSPECTED OF CONTACTING IMPACTED MATERIAL PRIOR TO TRAVERSING AREAS NOT SPECIFICALLY DESIGNATED AS IMPACTED AREAS, PRIOR TO HANDLING CLEAN SOILS, AND PRIOR TO DEPARTURE FROM THE SITE.
2. TRUCKS AND EQUIPMENT TRANSPORTING IMPACTED MATERIAL SHALL BE LOADED IN A MANNER THAT PREVENTS CONTACT WITH IMPACTED MATERIAL OUTSIDE OF THE SECURED BED OF THE TRUCK. THIS INCLUDES THE USE OF PLASTIC SHEETING OR EQUIVALENT MATERIALS TO PREVENT SPILLED MATERIAL FROM CONTACTING THE SIDES OF THE TRUCK AND THE USE OF A CLEAN PHYSICAL BARRIER (PLASTIC SHEETING, ETC.) TO PREVENT TRUCK TIRES FROM TRAVELING DIRECTLY ON IMPACTED SOILS. TRUCKS AND EQUIPMENT THAT COME INTO CONTACT WITH IMPACTED MATERIAL OUTSIDE OF THE SECURED BED SHALL BE DECONTAMINATED PRIOR TO LEAVING THE SITE.
3. ALL DECONTAMINATION ACTIVITIES WILL OCCUR AT A DESIGNATED DECONTAMINATION AREA. CONTRACTOR WILL BE RESPONSIBLE FOR BUILDING A DECONTAMINATION PAD THAT WILL COLLECT ALL SOLIDS AND LIQUIDS GENERATED DURING DECONTAMINATION.
4. EQUIPMENT THAT WILL CONTACT POTENTIALLY CONTAMINATED SOIL, SEDIMENT OR WATER WILL BE DECONTAMINATED BY THOROUGHLY CLEANING WITH A HIGH PRESSURE WASH AND RINSE TO REMOVE MUD, SOIL, AND OTHER FOREIGN MATERIAL.
5. OTHER SMALLER EQUIPMENT SUCH AS A PUMP TO MANAGE WATER WITHIN THE WORK AREA WILL BE DECONTAMINATED AS FOLLOWS:
   a. WASH EQUIPMENT THOROUGHLY WITH A DETERGENT (ALCONOX OR LIQUINOX) AND A POTABLE WATER SOLUTION TO REMOVE CONTAMINATION FROM THE EQUIPMENT; AND
   b. RINSE TWICE WITH A POTABLE WATER SOURCE TO RINSE AWAY RESIDUAL DETERGENT SOLUTION.
6. ALL DECONTAMINATION LIQUIDS AND SOLIDS WILL BE CONTAINERIZED FOR OFF-SITE DISPOSAL AT UNISYS APPROVED FACILITY.

EARTHWORK

1. ALL MATERIALS IMPORTED TO THE SITE MUST MEET THE REQUIREMENTS OF DER-10 SECTION 5.4(e) AND APPENDIX 5 FOR UNRESTRICTED USE.
2. FILL AND TOPSOIL SHALL BE PLACED TO RESTORE VEGETATED AREAS TO EXISTING GRADES.
3. FILL MATERIAL SHALL BE DEPOSITED IN HORIZONTAL LAYERS NOT TO EXCEED 6 INCHES IN THICKNESS PRIOR TO COMPACTION. A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY WILL BE REQUIRED. FOR GREENSPACE AREAS ONLY, A MINIMUM OF 90 PERCENT STANDARD PROCTOR MAXIMUM DENSITY WILL BE ALLOWED.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY PLACE AND COMPACT ALL MATERIALS SPECIFIED IN THE CONTRACT DOCUMENTS, AND TO CORRECT ANY DEFICIENCIES RESULTING FROM INSUFFICIENT OR IMPROPER COMPACTION OF SUCH MATERIALS THROUGHOUT THE CONTRACT PERIOD. THE CONTRACTOR SHALL DETERMINE THE TYPE, SIZE AND WEIGHT OF COMPACTOR BEST SUITED TO THE WORK AT HAND, SELECT AND CONTROL THE LIFT (LAYER) THICKNESS, EXERT CONTROL OVER THE MOISTURE CONTENT OF THE MATERIAL, AND OTHER DETAILS NECESSARY TO OBTAIN SATISFACTORY RESULTS.
5. FILL MATERIAL WILL BE COMPACTED IN ORDER TO MAINTAIN THE INTEGRITY OF THE COVER WITH ACCOMMODATION FOR SETTLING AND SUBSIDENCE AND TO HAVE PERMEABILITY CONSISTENT WITH NATURAL SUBSOILS PRESENT. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.
6. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
7. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
8. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
9. IN AREAS INACCESSIBLE TO CONVENTIONAL COMPACTORS, OR WHERE MANEUVERING SPACE IS LIMITED, IMPACTOR RAMMERS, PLATE OR SMALL DRUM VIBRATORS, OR PNEUMATIC BUTTON-HEAD COMPACTION EQUIPMENT MAY BE USED WITH LAYER THICKNESS NOT EXCEEDING 6 INCHES BEFORE COMPACTION. HAND TAMPERS SHALL NOT BE PERMITTED.
10. TOPSOIL SHALL BE PLACED IN A SINGLE LIFT TO A MINIMUM 6 INCH THICKNESS WHERE SHOWN ON THE DRAWINGS.
11. CONTRACTOR SHALL PLACE TOPSOIL IN A MANNER THAT MINIMIZES COMPACTION. LOW GROUND PRESSURE EQUIPMENT SHALL BE USED DURING PLACEMENT. MULTIPLE PASSES BY SPREADING EQUIPMENT SHOULD BE AVOIDED WHEN PLACING SOILS.



NOTE:

1. DEMARCATION LAYER NETTING CONSISTS OF ORANGE ONE HUNDRED PERCENT (100%) CONTINUOUS MONOFILAMENT POLYPROPYLENE SPUN BOND FABRIC WITH UV INHIBITORS, SUCH AS OD5340 OR OD7525 ORIENTED NETTING BY INDUSTRIAL NETTING, POCKET NET FENCE BY 3T PRODUCTS, OR APPROVED EQUAL.

5 / - DETAIL
BACKFILL

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP

B&B Engineers & Geologists of new york, p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: EXCAVATION PLAN

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SCOTT TECHNOLOGIES
ELMIRA, NEW YORK

SIGNATURE
5/7/2020
DATE

STATE OF NEW YORK
ARON A. KRASNOPOLER
089954-1
LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	MAY 2020
DRAWN BY:	BGF	PROJECT NO.:	MN0832C
CHECKED BY:	KTO	FILE:	MN0832C-004
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK	4 OF 8	

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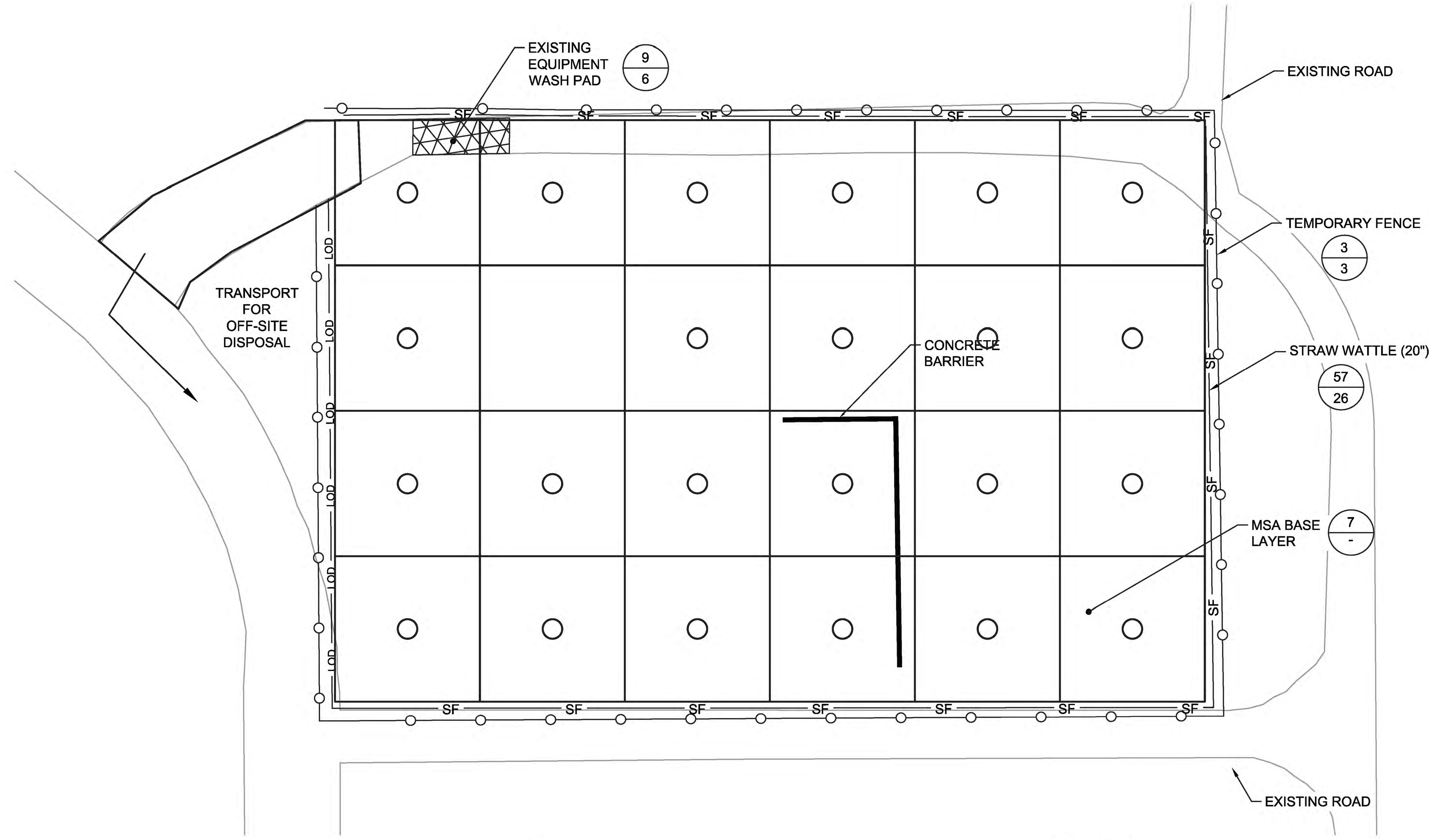
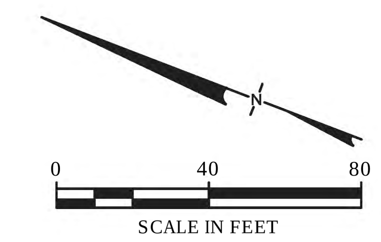




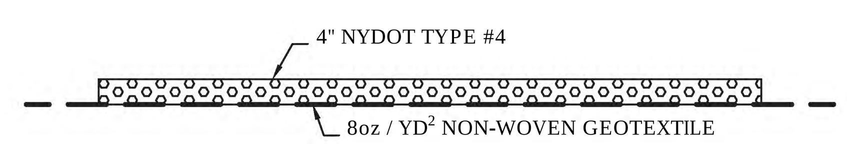
6 / 2 PLAN
STOCKPILE AREA
SCALE: 1" = 40'

LEGEND

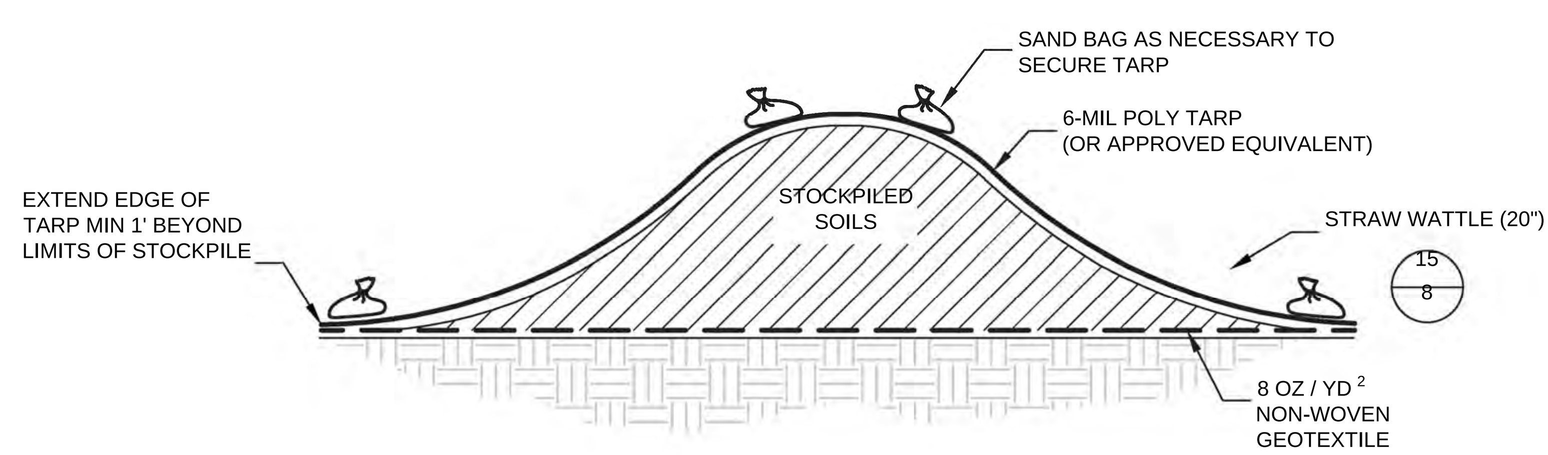
○ DOCUMENTATION SURFACE SOIL SAMPLE

MSA DECOMMISSIONING

1. HORIZONTAL AND VERTICAL EXTENT OF THE AREA DISTURBED BY THE MSA WILL BE SURVEYED BY A NYS-LICENSED SURVEYOR.
2. REMOVE ALL TEMPORARY FENCING, EQUIPMENT, STRUCTURES, ETC. FROM THE MSA WITH THE EXCEPTION OF THE EQUIPMENT WASH PAD.
3. MSA BASE LAYER AND GEOTEXTILE FABRIC SHALL BE LOADED INTO TRUCKS FOR OFF-SITE DISPOSAL UPON APPROVAL OF THE WASTE PROFILE BY THE RECEIVING FACILITY. MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS AT UNISYS APPROVED FACILITY.
4. ALL VEHICLES LEAVING THE LOADING AREA SHALL BE DECONTAMINATED PRIOR TO LEAVING THE SITE. SEE NOTES ON SHEET 4.
5. DOCUMENTATION SAMPLES WILL BE COLLECTED BY ENGINEER. SAMPLE LOCATION AND ELEVATION WILL BE SURVEYED BY A NYS-LICENSED SURVEYOR.
6. REMOVE EQUIPMENT WASH PAD AND TEMPORARY SEDIMENT AND EROSION CONTROLS FOR DISPOSAL IN ACCORDANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS AT UNISYS APPROVED FACILITY.



7 / - DETAIL
MSA BASE LAYER
SCALE: NOT TO SCALE



8 / - DETAIL
SOIL STOCKPILE (SIDE VIEW)
SCALE: NOT TO SCALE

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP

B&B Engineers & Geologists of new york, p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: MATERIAL STAGING AREA PLAN (MSA) PLAN

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SCOTT TECHNOLOGIES
ELMIRA, NEW YORK

SIGNATURE
5/7/2020
DATE

STATE OF NEW YORK · ARON A. KRASNOPOLER · 089954-1 · LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	MAY 2020
DRAWN BY:	BGF	PROJECT NO.:	MN0832C
CHECKED BY:	KTO	FILE:	MN0832C-006
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK	5 OF 8	

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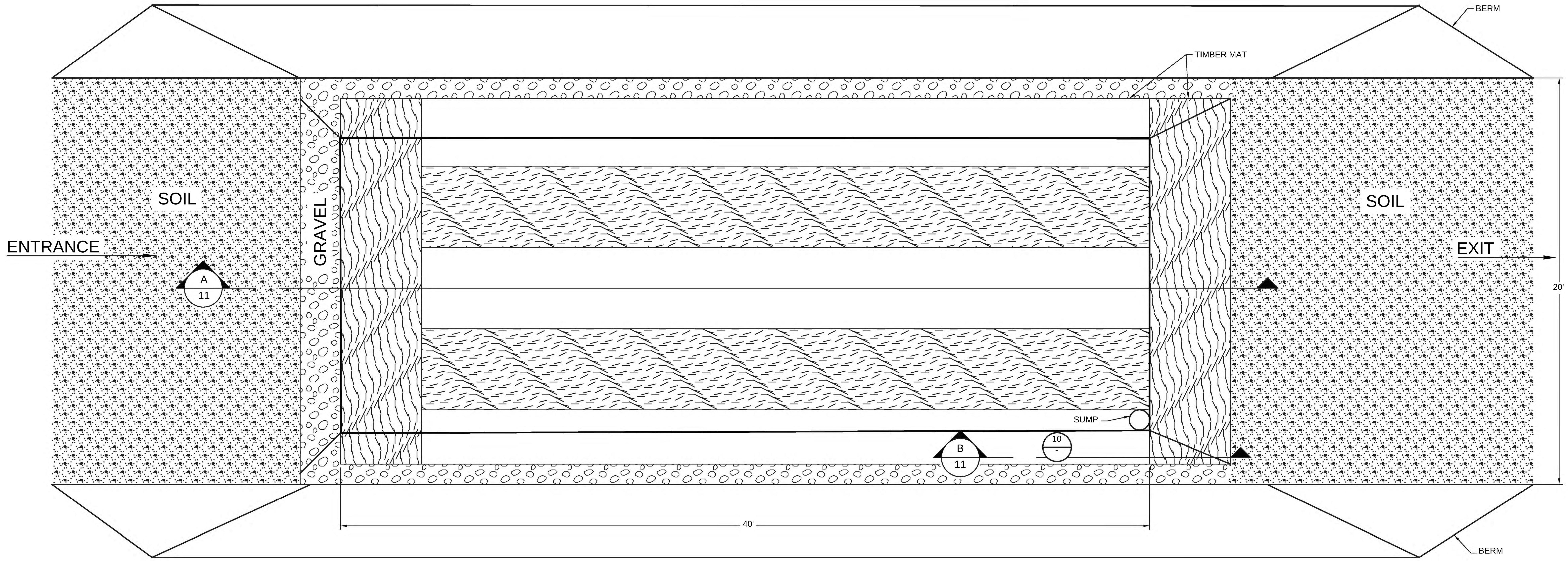
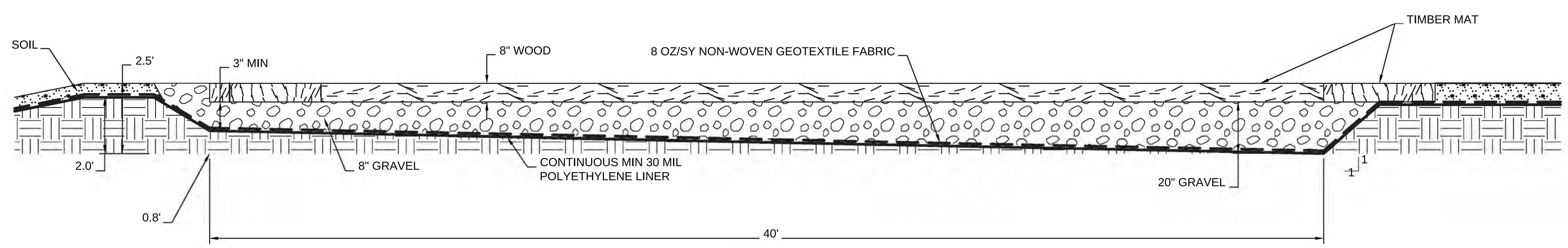


9
3
PLAN
EQUIPMENT WASH PAD
SCALE: NOT TO SCALE



A
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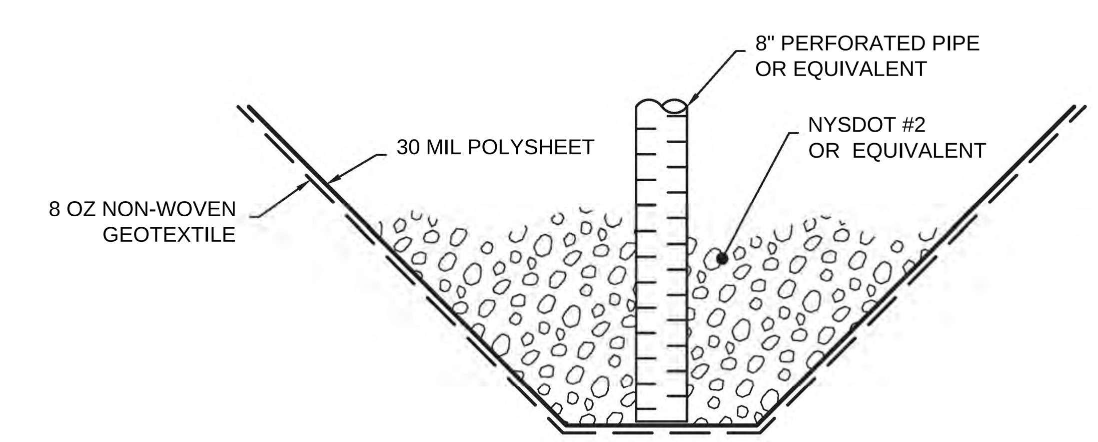
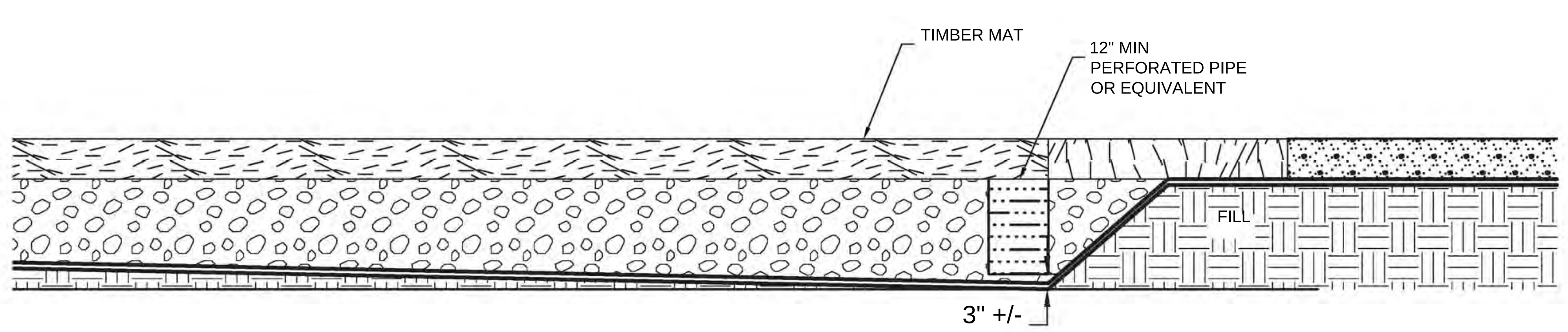
EQUIPMENT WASH PAD
SCALE: NOT TO SCALE



10
-
DETAIL
SUMP
SCALE: NOT TO SCALE



B
-
SECTION
EQUIPMENT WASH PAD SUMP
SCALE: NOT TO SCALE

NOTES:

1. ALL EQUIPMENT RINSE WATER SHALL BE CAPTURED WITHIN THE PAD AND NOT ALLOWED TO RUNOFF OR INFILTRATE.
2. INTERIOR BASE SHALL BE SLOPED SO THAT CAPTURED WATER DRAINS TO THE SUMP LOCATED AT THE LOWEST POINT. ADDITIONAL SUMPS MAY BE INSTALLED AT OTHER LOW SPOTS WITHIN THE AREA AS NECESSARY.
3. ANY WATER COLLECTED WITHIN THE EQUIPMENT WASH PAD SUMP SHALL BE SEGREGATED, CHARACTERIZED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL STATE AND FEDERAL REGULATIONS.

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP

B&B Engineers & Geologists of new york, p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: EQUIPMENT WASH PAD

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SCOTT TECHNOLOGIES
ELMIRA, NEW YORK

SIGNATURE
5/7/2020
DATE

STATE OF NEW YORK ARON A. KRASNOPOLER 089954-1 LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	MAY 2020
DRAWN BY:	BGF	PROJECT NO.:	MN0832C
CHECKED BY:	KTO	FILE:	MN0832C-008
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK	6 OF 8	

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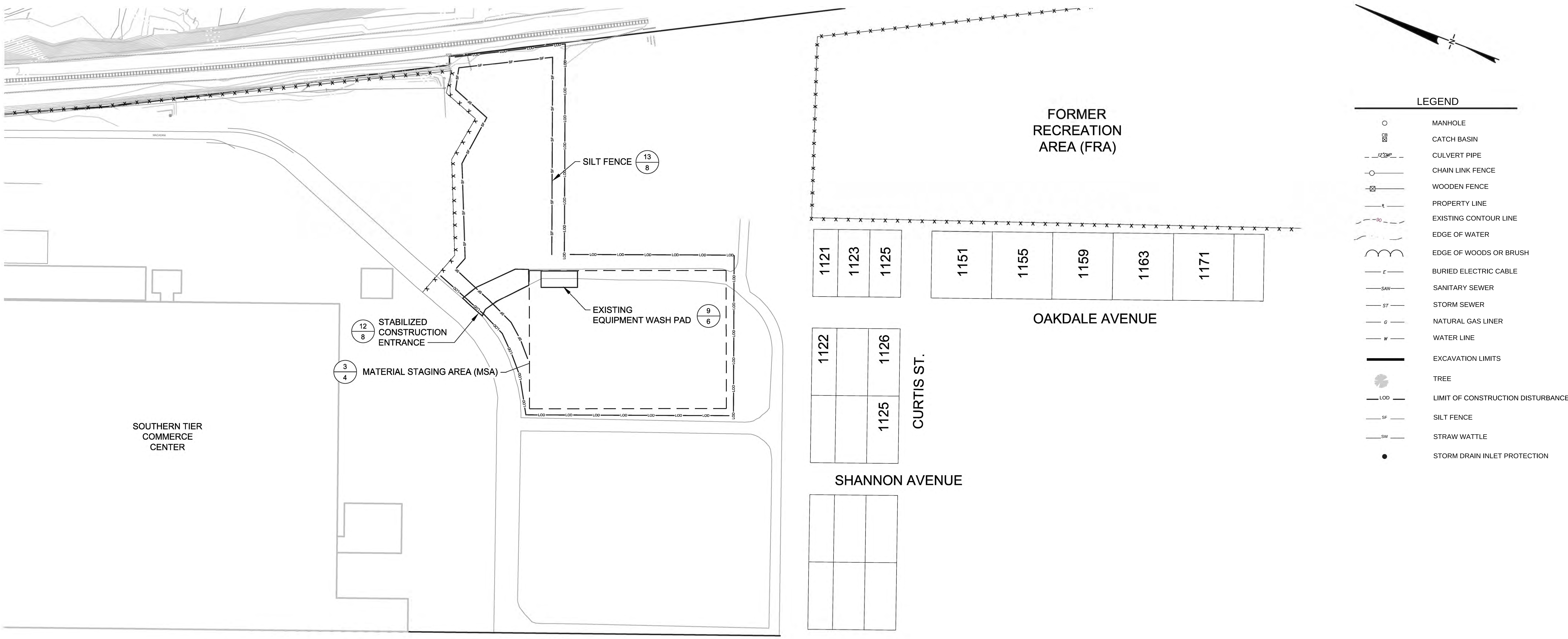

11 / -

PLAN
EROSION AND SEDIMENT CONTROL PLAN

0 50' 100'
SCALE IN FEET

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

GENERAL REQUIREMENTS

1. POTENTIAL POLLUTANTS: THIS CONSTRUCTION PROJECT INVOLVES THE EXCAVATION, STOCKPILING, AND OFFSITE DISPOSAL OF SOILS CONTAINING HAZARDOUS CHEMICAL SUBSTANCES, INCLUDING PCBs. CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS, DRAWINGS, AND ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
2. CONTRACTOR SHALL ENSURE THAT ALL PROVISIONS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER PROTECTION ARE IMPLEMENTED AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE TECHNICAL SPECIFICATIONS.
3. CONTRACTOR SHALL FULLY ESTABLISH ALL PERIMETER EROSION AND SEDIMENT CONTROLS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
4. CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROLS UNTIL ALL DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION AND A NOTICE OF TERMINATION (NOT) SUBMITTED TO THE NYSDEC.
5. CONTRACTOR SHALL MAINTAIN COPIES OF THE FOLLOWING DOCUMENTS ON-SITE DURING CONSTRUCTION:
   A. GENERAL PERMIT GP-0-15-002;
   B. NOTICE OF INTENT;
   C. NOI ACKNOWLEDGEMENT LETTER;
   D. STORMWATER POLLUTION PREVENTION PLAN (SWPPP);
   E. MS4 (I.E. CITY OF ELMIRA) SWPPP ACCEPTANCE FORM;
   F. INSPECTION REPORTS; AND
   G. ANY OTHER DOCUMENTATION NECESSARY TO ELIGIBILITY AND COMPLIANCE WITH PERMIT GP-0-15-002.
6. CONTRACTOR SHALL NOT DISTURB GREATER THAN 5 ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR AUTHORIZATION FROM THE CITY OF ELMIRA.
7. CONTRACTOR SHALL APPLY SOD OR SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS AND STOCKPILES WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED IN THE AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
8. TEMPORARY SILT FENCE SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED FOR MORE THAN ONE DAY.
9. CONSTRUCTION DETAILS, MATERIAL REQUIREMENTS, DESIGN CRITERIA, AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL PRACTICES ARE PROVIDED ON THE DRAWING DETAILS.
10. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (NOVEMBER 2016). PRACTICES SELECTED FOR IMPLEMENTATION A INCLUDING:
    A. STABILIZED CONSTRUCTION ENTRANCE
    B. EARTH DIKE
    C. SILT FENCE
    D. COMPOST FILTER SOCK / STRAW WATTLE
    E. DEWATERING SUMP
    F. TEMPORARY CONSTRUCTION AREA SEEDING
    G. RECREATIONAL AREA SEEDING
11. OTHER PRACTICES NOT SHOWN ON THE DRAWINGS OR LISTED ABOVE SHALL BE IMPLEMENTED AS NECESSARY TO PROTECT WATER QUALITY AND MINIMIZE SEDIMENT RUNOFF.
12. CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.
13. CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES AND NON-SEDIMENT POLLUTION CONTROL MEASURES UNTIL THROUGHOUT CONSTRUCTION AND UNTIL A NOTICE OF TERMINATION FOR PERMIT GP-0-15-002 IS REVIVED.
14. CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN CONSTRUCTION ACTIVITIES THAT MAY AFFECT STORMWATER QUALITY SHALL SIGN THE CONTRACTOR CERTIFICATION STATEMENT.
15. SITE INFORMATION:
    A. AREA DISTURBED 1.35 ACRES.

SOIL STABILIZATION AND DUST CONTROL

1. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (NOVEMBER 2016) FOR TEMPORARY CONSTRUCTION AREA SEEDING, RECREATIONAL AREA SEEDING, TOPSOILING, AND MULCHING.
2. TEMPORARY CONSTRUCTION AREA SEEDING.
   A. DURING SPRING, SUMMER OR EARLY FALL SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS PER ACRE (APPROXIMATELY 0.7 TO 1 LBS./1000 SQ. FT.)
   B. DURING LATE FALL OR EARLY WINTER SEED WITH CERTIFIED 'AROOSTOOK' WINTER RYE (CERYLE RYE) AT 100 LBS. PER ACRE (2.5 LBS./1000 SQ. FT.)
   C. ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT.
   D. MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/ACRE (APPROX. 90 LBS./1000 SQ. FT. OR 2 BALES). QUALITY OF HAY OR STRAW MULCH ALLOWABLE WILL BE DETERMINED BASED ON LONG TERM USE AND VISUAL CONCERNS. MULCH ANCHORING WILL BE REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATION.
3. PERMANENT RECREATION AREA SEEDING.
   A. TIME OF PLANTING: FALL PLANTING IS PREFERRED. SEED AFTER AUGUST 15. IN THE SPRING, PLANT UNTIL MAY 15. IF SEEDING IS DONE BETWEEN MAY 15 AND AUGUST 15, IRRIGATION MAY BE NECESSARY TO ENSURE A SUCCESSFUL SEEDING.
   B. SITE PREPARATION:
   I. INSTALL NEEDED WATER AND EROSION CONTROL MEASURES AND BRING AREA TO BE SEEDED TO DESIRED GRADES. A MINIMUM OF 4 IN. TOPSOIL IS REQUIRED.
   II. PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4-6 INCHES AND DECOMPACTING REQUIRED AREAS PER SOIL RESTORATION STANDARD.
   III. SEE STANDARD AND SPECIFICATION OF TOPSOILING.
   IV. LIME TO A PH OF 6.5. SEE LIME APPLICATION STANDARD.
   V. FERTILIZE AS PER SOIL TEST OR, IF SOIL MUST BE FERTILIZED BEFORE RESULTS OF A SOIL TEST CAN BE OBTAINED TO DETERMINE FERTILIZER NEEDS, APPLY COMMERCIAL FERTILIZER AT 850 POUNDS OF 5-5-10 OR EQUIVALENT PER ACRE (20 LBS/1,000 SQ. FT.). SEE FERTILIZER APPLICATION STANDARD.
   VI. INCORPORATE LIME AND FERTILIZER IN TOP 2-4 INCHES OF TOPSOIL.
   VII. SMOOTH. REMOVE STICKS, FOREIGN MATTER, AND STONES OVER 1 INCH IN DIAMETER, FROM THE SURFACE. FIRM THE SEEDBED.
   C. PLANTING: USE A CULTIPACKER TYPE SEEDER IF POSSIBLE. SEED TO A DEPTH OF 1/8 TO 1/4 INCH. IF SEED IS TO BE BROADCAST, CULTIPACK OR ROLL AFTER SEEDING. IF HYROSEEDED, LIME AND FERTILIZER MAY BE APPLIED THROUGH THE SEEDER, AND ROLLING IS NOT PRACTICAL.
   D. MULCHING: MULCH ALL SEEDINGS IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS FOR MULCHING. SMALL GRAIN STRAW IS THE BEST MATERIAL.
   E. SEED MIXTURE:

65% CREEPING RED FESCUE:	2.0 - 2.6 LBS./1000 SQ.FT. (PLS)
20% PERENNIAL RYEGRASS:	0.6 - 0.8 LBS./1000 SQ.FT. (PLS)
15% FINE FESCUE:	0.4 - 0.6 LBS./1000 SQ.FT. (PLS)
TOTAL SEED WEIGHT	3.0 - 4.0 LBS./1000 SQ. FT.

   FOR VARIETIES OF SEED SUITABLE FOR SPECIFIC LOCATIONS CONTACT CORNELL COOPERATIVE EXTENSION TURF SPECIALIST.
4. SOILS MAP: ALL AREAS OF WORK ARE CLASSIFIED AS, “MADE LAND”, AS PROVIDED BY USDA-NRCS, SOIL SURVEY AREA: CHEMUNG COUNTY, NEW YORK SURVEY AREA DATA: VERSION 13, SEP 23, 2016.
5. DUST CONTROL: CONTRACTOR SHALL PERFORM DUST CONTROL AS REQUIRED BY THE CONTRACT SPECIFICATIONS AND DUST CONTROL MONITORING PLAN.

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP

B&B Engineers & Geologists of new york, p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: EROSION AND SEDIMENT CONTROL PLAN

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SCOTT TECHNOLOGIES
ELMIRA, NEW YORK

SIGNATURE
5/7/2020
DATE

STATE OF NEW YORK ★ ARON A. KRASNOPOLER ★ 089954-1 ★ LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	MAY 2020
DRAWN BY:	BGF	PROJECT NO.:	MN0832C
CHECKED BY:	KTO	FILE:	MN0832C-011
REVIEWED BY:	PLB	DRAWING NO.:	7 OF 8
APPROVED BY:	AK		

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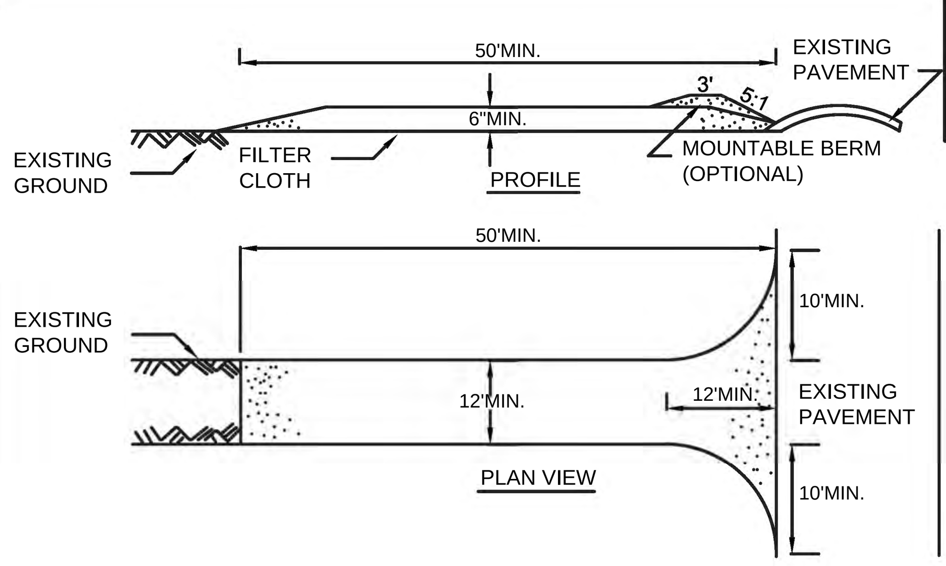


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

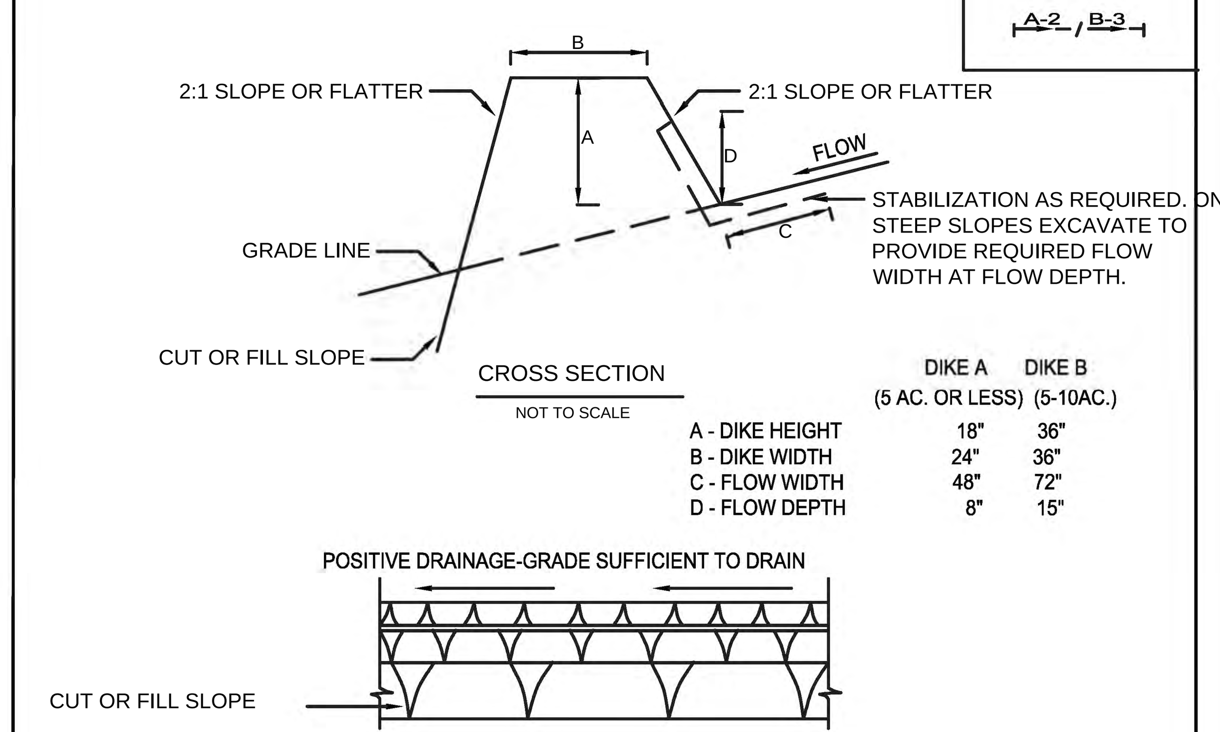
ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ACCESS

12 / 3 DETAIL
STABILIZED CONSTRUCTION ACCESS
SCALE: NOT TO SCALE

SYMBOL

A-2 / B-3



	DIKE A (5 AC. OR LESS)	DIKE B (5-10AC.)
A - DIKE HEIGHT	18"	36"
B - DIKE WIDTH	24"	36"
C - FLOW WIDTH	48"	72"
D - FLOW DEPTH	8"	15"

CONSTRUCTION SPECIFICATIONS

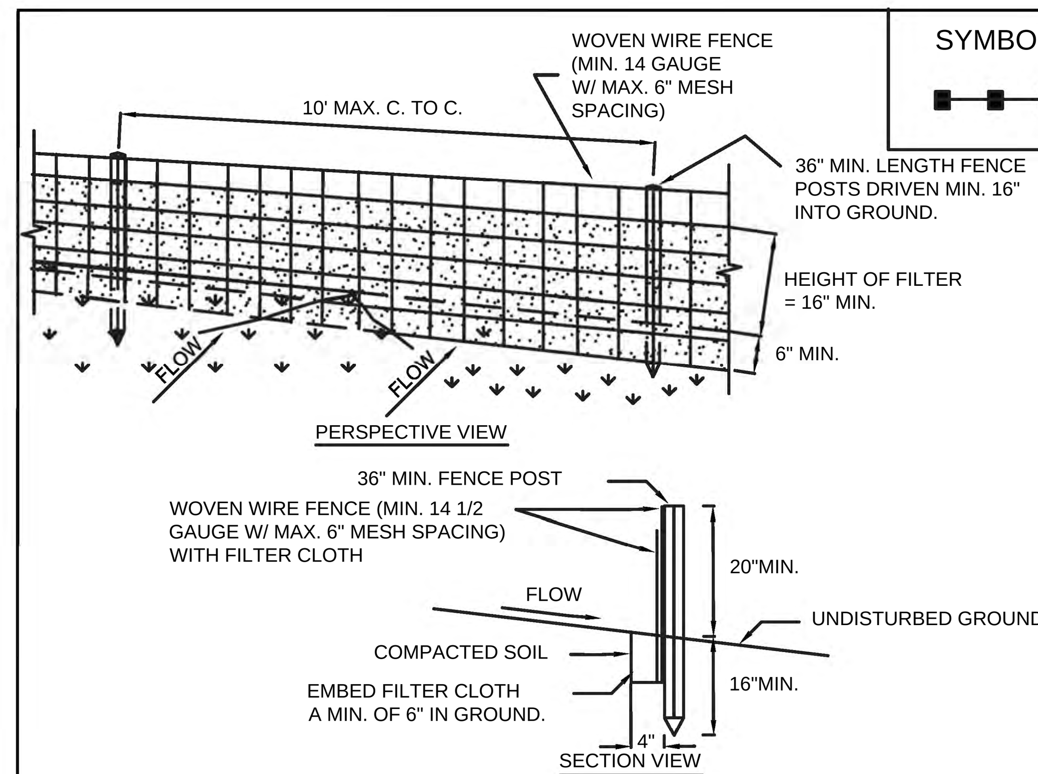
1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. FILL STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL STABILIZATION PER THE STANDARD CHART BASED ON CHANNEL GRADE.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

EARTH DIKE

13 / - DETAIL
EARTH DIKE
(NOTE: AS NEEDED)
SCALE: NOT TO SCALE

SYMBOL



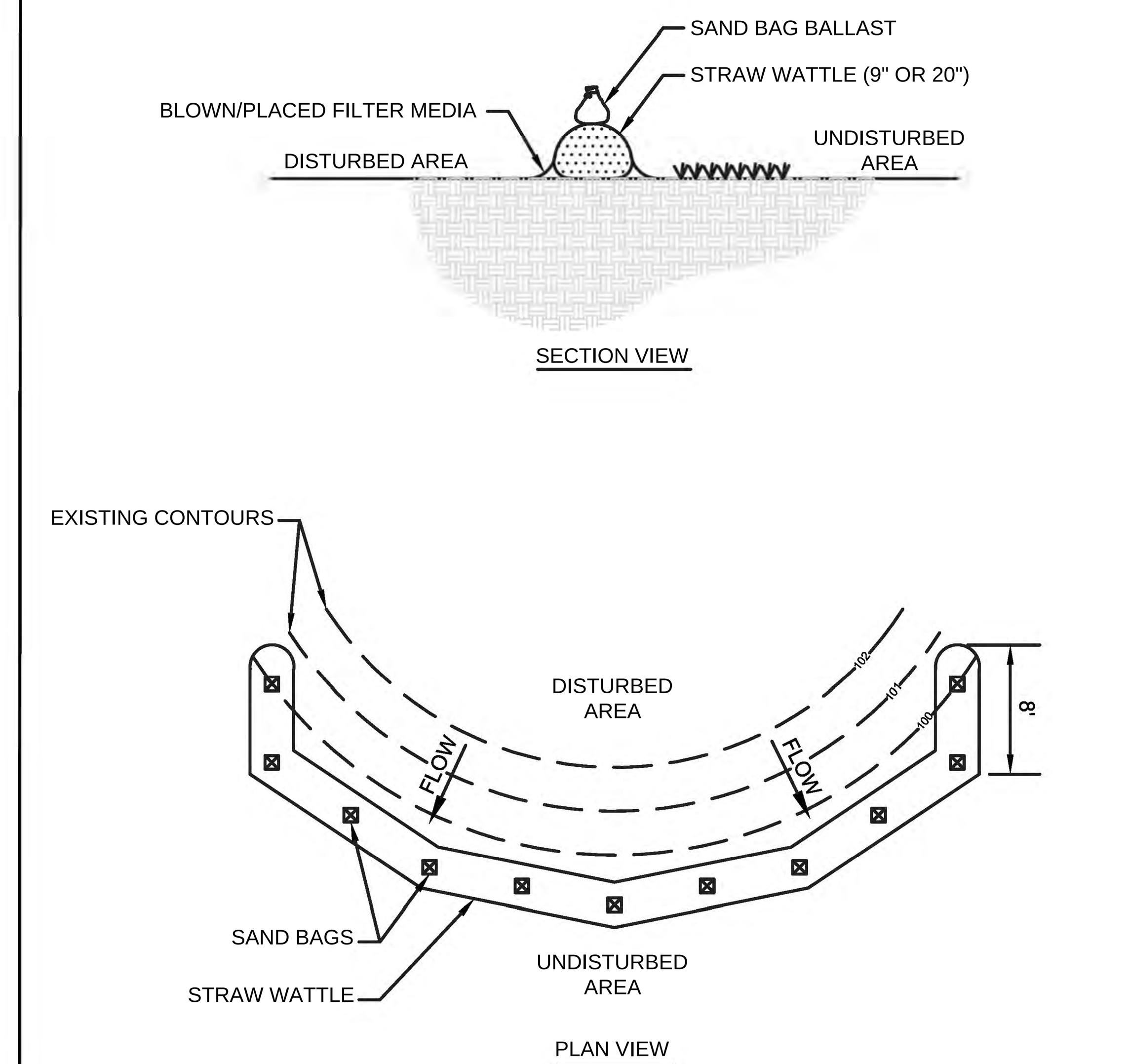
CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SILT FENCE

14 / 3 DETAIL
SILT FENCE
SCALE: NOT TO SCALE

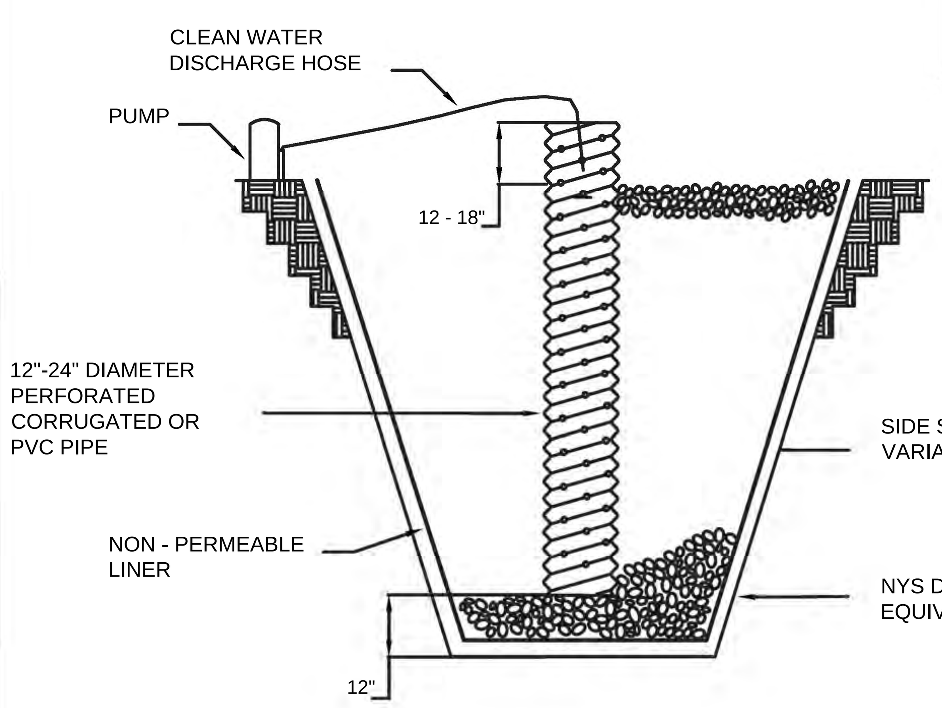


ADAPTED FROM DETAILS PROVIDED BY: FILTREXX

STRAW WATTLE

15 / 5 DETAIL
STRAW WATTLE
SCALE: NOT TO SCALE

SYMBOL



CONSTRUCTION SPECIFICATIONS

1. PIT DIMENSIONS ARE VARIABLE.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12-24" DIAMETER CORRUGATED OR PVC PIPE.
3. A BASE OF NYS DOT #2 OR EQUIVALENT AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH NYS DOT #2 OR EQUIVALENT AGGREGATE.
4. THE STANDPIPE SHOULD EXTEND 12-18" ABOVE THE LIP OF THE PIT.
5. DIRECT DISCHARGE IS PROHIBITED.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SUMP PIT

16 / - DETAIL
EXCAVATION DEWATERING SUMP PIT
(NOTE: AS NEEDED)
SCALE: NOT TO SCALE

NON-SEDIMENT POLLUTION PREVENTION

THIS SITE POLLUTION PREVENTION PLAN DESCRIBES GENERAL ACTIVITIES TO PREVENT GENERATION OF POLLUTANTS DUE TO IMPROPER HANDLING STORAGE AND SPILLS, AND PREVENT THE MOVEMENT OF TOXIC SUBSTANCES FORM THE SITE INTO SURFACE WATERS. THE FOLLOWING MINIMUM PRACTICES FOR STORMWATER POLLUTION PREVENTION WILL BE PERFORMED:

1. ALL STATE AND FEDERAL REGULATIONS SHALL BE FOLLOWED FOR THE STORAGE, HANDLING, APPLICATION, USAGE, AND DISPOSAL OF PESTICIDES, FERTILIZERS, AND PETROLEUM PRODUCTS.
2. VEHICLE AND CONSTRUCTION EQUIPMENT STAGING AND MAINTENANCE AREAS WILL BE LOCATED AWAY FROM ALL DRAINAGE WAYS WITH THEIR PARKING AREAS GRADED SO THE RUNOFF FROM THESE AREAS IS COLLECTED, CONTAINED AND TREATED PRIOR TO DISCHARGE FROM THE SITE.
3. CONTRACTOR SHALL PROVIDE SANITARY FACILITIES FOR ON-SITE PERSONNEL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. CONTRACTOR SHALL STORE, COVER, AND ISOLATE CONSTRUCTION MATERIALS INCLUDING ALL EXCAVATION SPOILS, AND CHEMICALS, TO PREVENT RUNOFF OF POLLUTANTS AND CONTAMINATION OF GROUNDWATER AND SURFACE WATERS.
5. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SPILL PREVENTION AND CONTROL PLAN. THE PLAN SHOULD INCLUDE NYSDEC'S SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE ADEQUATE DISPOSAL FOR SOLID WASTE INCLUDING WOODY DEBRIS, STUMPS, AND OTHER CONSTRUCTION WASTE AND MUNICIPAL WASTE. FILL, WOODY DEBRIS, STUMPS AND CONSTRUCTION WASTE SHALL NOT BE PLACED IN REGULATED WETLANDS, STREAMS OR OTHER SURFACE WATERS.
7. CONTRACTOR SHALL POST INFORMATIONAL MATERIAL REGARDING PROPER HANDLING, SPILL RESPONSE, SPILL KIT LOCATION, AND EMERGENCY ACTIONS TO BE TAKEN, TO ALL CONSTRUCTION PERSONNEL.
8. REFUELING EQUIPMENT SHALL BE LOCATED AT LEAST 100 FEET FROM ALL WETLANDS, STREAMS AND OTHER SURFACE WATERS.

MAINTENANCE AND INSPECTION

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES AND STORMWATER POLLUTION PREVENTION PLAN PRACTICES SHALL BE INSPECTED DAILY FOR PROPER APPLICATION AND FUNCTION AS DEFINED IN THE SPECIFICATIONS AND/OR NEW YORK STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
2. DAILY INSPECTION REPORTS SHALL BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION.

DISCHARGE

1. ANY WATER CONTACTING EXCAVATION AREAS PRIOR TO BACKFILLING WITH SOIL COVER SYSTEM (SEE DETAIL 5, SHEET 4) OR WATER COLLECTED WITHIN THE EQUIPMENT WASH PAD SUMP, SHALL BE SEGREGATED, CHARACTERIZED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
2. AT THE COMPLETION OF CONSTRUCTION, ALL TEMPORARY ACCESS ROAD CONSTRUCTION MATERIALS AND EQUIPMENT WASH PAD CONSTRUCTION MATERIALS SHALL BE REMOVED, CHARACTERIZED, AND DISPOSED OF ACCORDANCE WITH NYSDEC-APPROVED IRM WORK PLAN.

NOTES:

1. CONTRACTOR SHALL UTILIZE EARTH DIKE, COMPOST FILTER SOCK, AND DEWATERING SUMP PIT.
2. CONTRACTOR SHALL INSTALL TEMPORARY 6' TALL CHAIN LINK FENCING PARALLEL TO THE LIMITS OF CONSTRUCTION DISTURBANCE. FENCING SHALL INCLUDE VISUAL SCREENING.

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP

B&B Engineers & Geologists of new york, p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: EROSION AND SEDIMENT CONTROL DETAILS

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SCOTT TECHNOLOGIES
ELMIRA, NEW YORK

SIGNATURE
5/7/2020
DATE

STATE OF NEW YORK · ARON A. KRASNOPOLER · 089954-1 · LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	MAY 2020
DRAWN BY:	BGF	PROJECT NO.:	MN0832C
CHECKED BY:	KTO	FILE:	MN0832C-012
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK	8 OF 8	

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