



**Department of
Environmental
Conservation**

Tonawanda Community Working Group

Superfund and Brownfield Progress Update

December 18, 2024

Brownfield Site

Riverview Innovation &
Technology Campus,
#C915353

Work Plan/Report	Submitted	Status	Progress
Interim Site Management Plan (ISMP)	3/6/2020	DEC Approved	Continuous
Light Oil Area Secondary Containment Investigation Work Plan	3/6/2020	DEC Approved	Complete
Remedial Investigation Work Plan	3/12/2020	DEC Approved	Complete
Stormwater Pollution Prevention Plan	3/12/2020	DEC Approved	Continuous
Storm Sewer IRM Work Plan	4/12/2020	DEC Approved	Complete
Mixing Pad IRM Work Plan	5/5/2020	DEC Approved	Complete
PCC Excavation Work Plan	5/11/2020	DEC Approved	Complete
ISMP - Work Scope 2	5/11/2020	DEC Approved	Complete
Container Management IRM Work Plan	6/17/2020	DEC Approved	Complete
ISMP - Work Scope 3	7/6/2020	DEC Approved	Complete
Storm Sewer IRM Phase 1 Report	8/5/2020	DEC Approved	Complete
Abandoned Pipeline IRM Work Plan	8/19/2020	DEC Approved	Complete
PCC Grading Concept Plan	9/10/2020	DEC Approved	Complete
South Road Reconstruction Plan	11/17/2020	DEC Approved	Complete
Surface Water Phase 3 Work Plan	12/22/2020	DEC Approved	Complete

Work Plan/Report	Submitted	Status	Progress
AST Management Work Plan	12/23/2020	DEC Approved	Field Work Complete
Abandoned Pipeline IRM Report	1/20/2021	DEC Approved	Complete
Building Demolition Work Plan	1/26/2021	DEC Approved	Field Work Complete
PBS/CBS Tank Work Plan	2/15/2021	DEC Approved	Field Work Complete
Access to Coal Breaker Building	2/15/2021	DEC Approved	Complete
Secondary Containment Investigation Work Plan	3/10/2021	DEC Approved	Field Work Complete
Box Culvert Lining Work Plan	4/2/2021	DEC Approved	Complete
Supplemental Remedial Investigation	5/28/2021	DEC Approved	Field Work Complete
Mixing Pad Cleaning Completion Report	6/21/2021	DEC Approved	Complete
Byproducts Pipe Sealing Work Plan	6/30/2021	DEC Approved	Complete
Concrete Settling Pond Cleaning	6/30/2021	DEC Approved	Complete
Lime Still IRM Work Plan	7/14/2021	DEC Approved	Field Work Complete
Coke Oven Gas Bench Scale Testing	8/13/2021	DEC Approved	Complete
PFAS Sampling Work Plan	8/19/2021	DEC Approved	Complete
COG Pipe and Residual IRM Work Plan	8/25/2021	DEC Approved	Field Work Complete
Groundwater Treatment Plant IRM	10/5/2021	DEC Approved	Ongoing

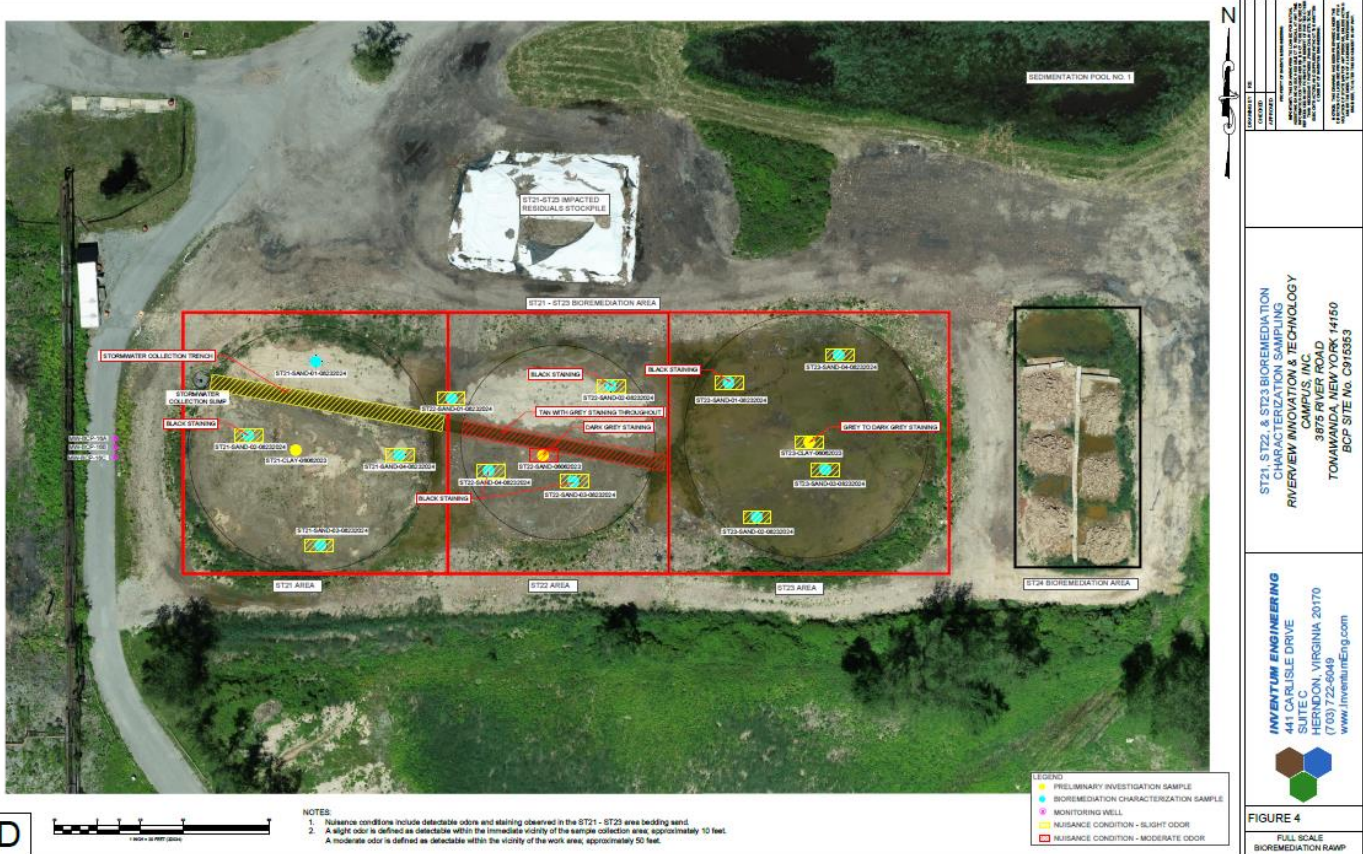
Work Plan/Report	Submitted	Status	Progress
Groundwater Treatment Plant IRM – Addendum	2/15/2022	DEC Approved	Ongoing
Remedial Investigation Report (RIR)	3/11/2022	DEC Review	Complete
Process Equipment Removal IRM WP	4/14/2022	DEC Approved	Field Work Complete
ST24 Secondary Containment WP	5/31/2022	DEC Approved	Complete
Alternatives Analysis Report	6/30/2022	DEC Review	Complete
ST24 Bioremediation IRM Work Plan	9/23/2022	DEC Approved	Field Work Complete
Pre-Design Investigation Work Plan	11/10/22	DEC Approved	Ongoing
Pump House Sampling Work Plan	12/1/22	Rescinded	Rescinded
Junction Building NAPL Removal	1/11/23	DEC Approved	Field Work Complete
Solidification IRM WP	8/16/23	DEC Approved	Field Work Complete
Breeze Adsorption Testing Work Plan	8/30/23	DEC Approved	Complete
Breeze Adsorption Testing Report	10/5/2023	DEC Approved	Complete

Work Plan/Report	Submitted	Status	Progress
Radiological Work Plan	12/4/23	DEC Approved	Field Work Complete
ST21-ST23 Investigation Memo	2/13/24	DEC Review	RITC to Revise
IRM Data Package	3/14/24	In Review	Ongoing
Ammonia SCO Development Work Plan	4/19/24	DEC Approved	Ongoing
ST24 Bioremediation IRM Report	7/16/24	DEC Approved	Complete
ST21-23 Bioremediation RAWP	9/12/24	DEC Approved	Ongoing
Radiological Investigation Report	9/17/24	In Review	
Satellite Areas Solidification RAWP	10/10/24	In Review	RITC to Revise

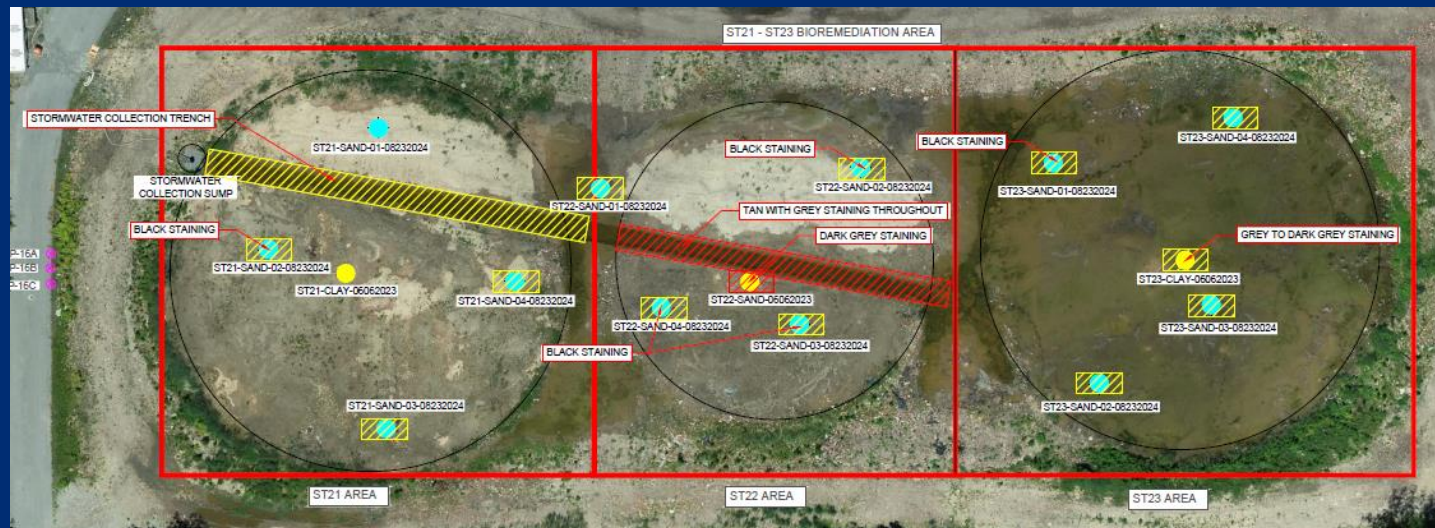
ST21-23 Bioremediation RAWP

- Remedial Action Work Plan (RAWP) to treat nuisance conditions present in soil below the former ST21, ST22, and ST23 tanks.
- Nuisance conditions: soil staining and/or strong odors. Typical of petroleum impacts.
- DEC's experience is that nuisance conditions can be still present in soil that meet soil cleanup objectives. Requires visual observation of the soil in addition to analytical results.

ST21-23 Bioremediation RAWP



ST21-23 Bioremediation RAWP



LEGEND

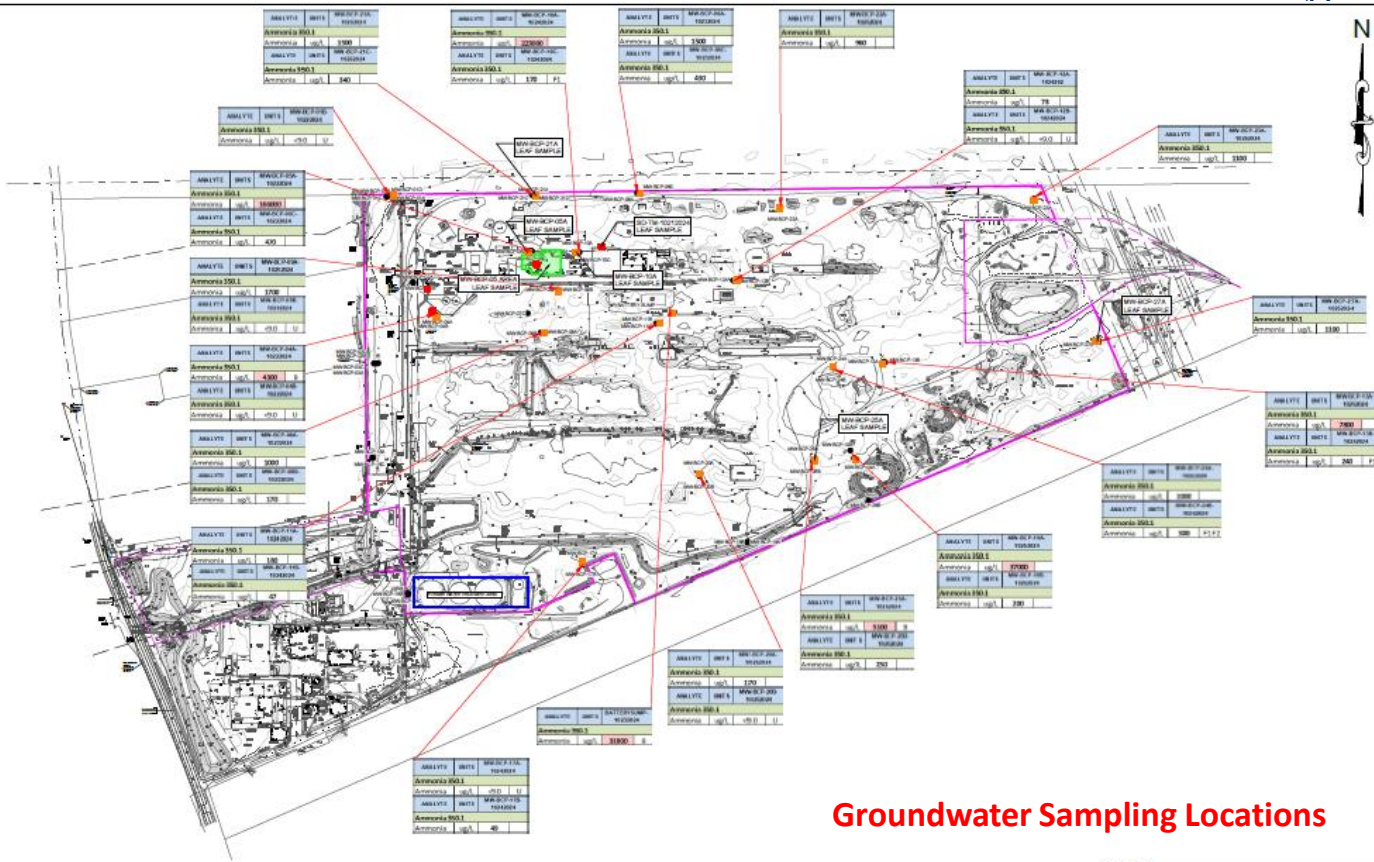
- PRELIMINARY INVESTIGATION SAMPLE
- BIOREMEDIATION CHARACTERIZATION SAMPLE
- ⊗ MONITORING WELL
- NUISANCE CONDITION - SLIGHT ODOR
- NUISANCE CONDITION - MODERATE ODOR

ST21-23 Bioremediation RAWP

- Soils within the tank area that exhibit nuisance conditions have been formed into piles and blended with fertilizer and water to encourage microbial activity.
- Piles will be mixed and kept moist periodically.
- Increased microbial activity and mixing are expected to further degrade residual petroleum impacts and remove the nuisance conditions.
- Treated soil will likely remain on-site below the site cover.

Ammonia Soil Cleanup Objective (SCO)

- The Decision Document requires that a SCO for the protection of groundwater be developed for use during remedial action.
- SCO will be determined by comparing co-located soil and groundwater samples and leaching tests.
- Initial soil and groundwater sampling completed in October 2024.



Groundwater Sampling Locations

LEGEND:

- BCP SITE BOUNDARY
- DSF SITE BOUNDARY
- MONITORING WELL LOCATION
- MONITORING WELL LOCATION SOIL SAMPLES
- SUPPLEMENTAL SOIL SAMPLE

- Notes:**
- Groundwater samples collected between the dates of October 22nd and October 25th 2024.
 - Ammonia concentration results compares to TOGG 1.1.1 Class GA Ambient Water Quality Standards (2000 µg/L).

Ammonia Soil Results

SAMPLE ID:	SD-MW-BCP-01A-10172024	SD-MW-BCP-25A-10182024	SD-MW-BCP-20A-10182024	SD-MW-BCP-17A-10182024	SD-MW-BCP-04A-1012024	SD-WAL-10182024 Solid
LAB ID:	480-224585-1	480-224585-10	480-224585-11	480-224585-12	480-224585-13	480-224585-14
COLLECTION DATE:	10/17/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024
SAMPLE DEPTH:	20"	60"	30"	20"	40"	6"
SAMPLE MATRIX:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Units						
mg/Kg	<1.9	0.0011	<1.9	<1.9	<2.0	<1.9
SD-THINKSAFETY-10182024	SD-MW-BCP-08A-10182024	SD-MW-BCP-09-10182024	SD-MW-BCP-11A-10182024	SD-BATTERYSUMP-10182024	SD-MW-BCP-21A-10172024	
480-224585-15	480-224585-16	480-224585-17	480-224585-18	480-224585-19	480-224585-2	
10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/18/2024	10/17/2024	
6"	70"	15"	50"	45"	30"	
SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	
	<1.8	<2.0	<1.8	<2.0	<1.9	7.1
SD-MW-BCP-12A-10182024	SD-MW-BCP-06A-10172024	SD-MW-BCP-22A-10172024	SD-MW-BCP-23A-10172024	SD-MW-BCP-27A-10172024	SD-MW-BCP-13A-10172024	
480-224585-20	480-224585-3	480-224585-4	480-224585-5	480-224585-6	480-224585-7	
10/18/2024	10/17/2024	10/17/2024	10/17/2024	10/17/2024	10/17/2024	
40"	35"	48"	54"	36"	52"	
SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	
	<1.9	<1.9	<1.9	<0.00019	6.8	<0.00019
SD-MW-BCP-24A-10172024	SD-MW-BCP-19A-10172024	SD-TM-10212024	SD-MW-BCP-10A-10212024	SD-MW05AREA-10212024	SD-MW-BCP-05A-10212024	
480-224585-8	480-224585-9	480-224610-1	480-224610-2	480-224610-3	480-224610-4	
10/17/2024	10/17/2024	10/21/2024	10/21/2024	10/21/2024	10/21/2024	
64"	40"	29"	35"	60"	34"	
SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	
	4.4	7.4	64.2	228	171	247

Ammonia Soil Cleanup Objective (SCO)

- Leaching test will be done following EPA Method 1314, part of the Leaching Environmental Assessment Framework (LEAF).
- Soil samples for LEAF analysis should be completed in January/February 2025.

Superfund Site

Tonawanda Coke, #915055

Investigation Status

Site 108:

- Revised Remedial Investigation Report (RIR) was submitted to DEC on October 3, 2023.
- Feasibility Study (FS) submitted to DEC on June 29, 2024.
- DEC intends to review the RIR and FS at the same time.

Investigation Status

Site 109:

- Remedial Investigation Report and Focused Feasibility Study are approved.
- DEC issued the Amended Record of Decision (AROD) on June 4, 2024.
- Pre-design investigation completed to confirm the depth to clay for better estimates of the amount of material that will need to be excavated.
- Partial removal of the berm is planned in early 2025 to facilitate new electrical service installation.

Site 109 Berm Removal

- Portion of the berm will be removed to allow for clearance under planned power lines.



Investigation Status

Site 110:

- Remedial Investigation Report submitted to DEC on October 26, 2023. Made publicly available November 1, 2023.
- Revised Focused Feasibility Study submitted November 15, 2024.

Thank You

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