

Stormwater Pollution Prevention Plan For:

Riverview Innovation & Technology Campus 3875 River Road Tonawanda, New York 14150 BCP Site No. C915353

SWPPP Contact:

Inventum Engineering, P.C.
John P. Black, P.E.
481 Carlisle Drive; Suite 202
Herndon, VA 20170
703.935.0409
John.Black@inventumeng.com

SWPPP Preparation Date:

05/29/2020

Table of Contents

1	Fac	ility D	Description and Contact Information	3
	1.1	Facil	lity Information	3
	1.2	Cont	act Information/Responsible Parties	4
	1.3	Stori	mwater Pollution Prevention Team	5
	1.4	Site	Description	5
	1.4.	1	Brownfield Cleanup Program Site (Site #C915353)	6
	1.4.	2	Site 110 (Site #915055)	6
	1.4.	3	Site 109 (Site #915055)	7
	1.4.	4	Site 108 (Site #915055)	7
	1.5	Gene	eral Location Map	7
	1.6	Facil	lity Map	7
2	Pote	ential l	Pollutant Sources	8
	2.1	Spill	s and Leaks	9
	2.2	Unaı	uthorized Non-stormwater Discharges Documentation	9
	2.3	Sam	pling Data Summary	10
3	Stor	rmwat	er Control Measures	11
	3.1	Non-	-numeric Technology-based Effluent Limits	11
	3.1.	1	Minimize Exposure	11
	3.1.	2	Good Housekeeping	11
	3.1.	3	Maintenance	12
	3.1.	4	Spill Prevention and Response.	13
	3.1.	5	Erosion and Sediment Controls	15
	3.1.	6	Management of Runoff	15
	3.1.	7	Dust Generation and Vehicle Tracking of Industrial Materials	17
	3.2	Num	neric Effluent Guidelines	17
4	Sch	edules	s and Procedures	18
	4.1	Good	d Housekeeping	18
	4.2	Mair	ntenance	18
	4.3	Emp	loyee Training	18
	4.4	Inspe	ections and Assessments	19
	4.5	Mon	itoring	20
5	Cor	rective	e Actions	21
6	SW	PPP N	Modifications	22



Tables	1
Figures	2
Appendices	3
A – Spill History	
B – IWD Permit No. 331	
C – Surface Water Sampling Data	6
D – Tanks, Buildings and Structures	7
E - Inspection Checklists	8

Tables

- 1 Flow Diagram
- 2 Effluent Guidelines

Figures

- 1 Site Location Map
- 2 Facility Map with Areas of Investigation (AOIs) Boundaries
- 3 North West Section of Property
- 4 North Central Section of Property
- 5 Central West Section of Property
- 6 Central Central Section of Property
- 7 South West Section of Property



1 Facility Description and Contact Information

1.1 Facility Information

Facility Information										
Name of Facility:	Riverview Innovation & Technology	Campus								
Address:	3875 River Road									
	Гonawanda, NY 14150									
County:	Erie									
Latitude:	42.9808									
Longitude:	-78.9319									
Total Acreage:	102 Site 109, Site 110 [Site #915055] and the BCP Site [Site # C915353])									
Industrial Activity	102									
Acreage:										
Discharge Information										
Receiving Waters	Niagara River									
Receiving Waters Class	A-Special									
Prior SPDES Permit:	NY002399									
Existing Stormwater Out	falls									
Outfall No. 001	Stormwater runoff from former opera	ntional areas of the site.								
	Latitude: 42.9808	Longitude: -78.9319								
Outfall No. 002	Stormwater runoff from coal and cok	e yard.								
	Latitude: 42.9808	Longitude: -78.9306								
Outfall No. 004	Combined flow from Outfalls 001 and	d 002 and Site 109								
	Latitude: 42.9803	Longitude: -78.8336								

The Facility does not directly discharge stormwater into a municipal separate storm sewer system (MS4). The facility does accumulate stormwater in certain secondary containment structures. The water is tested and, if settling in containment is not sufficient treatment, the water is treated prior to discharge to the Town of Tonawanda Publicly Owned Treatment Works (POTW).



1.2 Contact Information/Responsible Parties

Facility Operator

Riverview Innovation & Technology Campus, Inc.

3875River Road

Tonawanda, NY 14150

Contact: Alen Trpevski, Project Manager

Telephone: 716.818.3390 E-Mail: atrpevski@oscinc.com

Facility Owner

Riverview Innovation & Technology Campus, Inc.

333 Ganson Street Buffalo, NY 14203

Contact: Jon M. Williams Telephone: 716.856.3333

SWPPP Contact

Inventum Engineering, P.C. 481 Carlisle Drive; Suite 202

Herndon, VA 20170

Contact: John P. Black, P.E.

Telephone: 703.935.0409/571.217.6761 E-Mail: john.black@inventumeng.com



1.3 Stormwater Pollution Prevention Team

Staff Names	Individual Responsibilities
John P. Black, P.E. (Inventum Engineering, P.C.) and Todd Waldrop (Inventum Engineering, P.C.)	Brownfield Voluntary Cleanup Program Engineer - Responsible for overall development and direction of site investigations and remediation at the site. Responsible for overall development and modifications of the SWPPP. Responsible for coordination of all monitoring required for stormwater management.
Alen Trpevski (OSC, Inc.)	Project Manager – Oversees all aspects of Facility operations and management. Responsible for general implementation and coordination of the SWPPP and adherence to requirements for stormwater management.
Pat Cahil (OSC, Inc.)	Team Member – Responsible for daily inspections and implementation of SWPPP requirements.
Dale Cyphus (OSC,Inc.)	Team Member – Responsible for daily inspections and implementation of SWPPP requirements.
Keith Adderley (Inventum)	Team Member – Responsible for sampling, outfall and E&SC inspections, reporting.

1.4 Site Description

The property located at 3875 River Road (Figure 1), Town of Tonawanda, Erie County, New York. The property encompasses approximately 102 acres of land and is located approximately 0.25 miles west of I-190 with parcels located on the east side of River Road. The surrounding properties are primarily industrial or vacant.

The Riverview Innovation & Technology Campus site was an operating coke making and by-products facility for more than 100 years. The facility is inactive and no longer produces coke. The facility was owned and operated from circa 1917 through 1947 by Semet Solvay Company, a subsidiary of Allied Chemical and Dye Corporation. In 1947, Semet Solvay Company was merged into Allied Chemical Corporation, which owned and operated the facility until 1978, when it was sold to the Tonawanda Coke Corporation. The Tonawanda Coke Corporation filed for bankruptcy protection in 2018 and all manufacturing on the property was idled. The United States Environmental Protection Agency (USEPA) conducted stabilization activities and maintained overall control of the site from the time of the bankruptcy until the sale of the property in October 2019. The sale of the property to Riverview



Innovation & Technology Campus, Inc was approved in October 2019. The USEPA remained onsite and continued to manage surface water through March 2020.

The property (Figure 1) is segregated into the following regulatory management units in order to proceed with the investigation and remediation of potential environmental impacts relating from historical operation as a coke production facility:

1.4.1 Brownfield Cleanup Program Site (Site #C915353)

This portion of the site encompasses approximately 86.5 acres¹ of land and will be subject to investigation(s) and remediation under the Brownfield Cleanup Program (BCP) agreement with the New York State Department of Environmental Conservation (NYSDEC) signed February 14, 2020. The former coke production facility is located in the northern center portion of the BCP site which includes the idled coke ovens, portions of a coke by-product plant, storage tanks, and railway line spurs. The southern portion of the BCP portion of the site is mainly open with multiple former raw material coal and coke piles located through the area. Four storage tanks are located on the southernmost portion of the property, two were converted for use as wastewater treatment tanks.

While there is no longer any production, the care, custody and control of the site is considered an industrial activity and on the northern portion of the site includes:

- Management and control of shuttered former process equipment and out-of-service process tanks;
- Management and inspection of storage tanks within secondary containment areas;
- Management and inspection of miscellaneous drums of former process materials and cleanup materials;
- Storm water management;
- ACM management; and
- General Site maintenance.

Existing industrial activities on the southern portion of the BCP site include:

- Excavation, loading, and transportation of coal and coke materials;
- Management of shuttered former process equipment;
- Management and inspection of storage tanks within secondary containment areas;
- Storm water management;
- ACM management; and
- General site maintenance.

1.4.2 Site 110 (Site #915055)

Site 110 (Site # 915055) is located partially on the 3875 River Road property. Approximately 2.5 acres of Site 110 in on the 3875 property. The entire area of Site 110 is 4.8 acres. The remainder of Site 110 is on the adjoining property east of the property line. Site 110 (NYSDEC Site #915055) is subject to an Order on Consent with the NYSDEC through the Inactive Hazardous Waste Disposal Site (IHWDS) Program. Site 110 is located east of the BCP portion of the property and materials such as coal tar sludge, wood shavings impregnated with iron oxide, fly ash, and cinders were reported to have been disposed at Site

¹ The 3875 River Road tax parcel is listed as 102.4 Acres. The balance of the property at 3875 River Road is in the Sites 110 and 109.



110 prior to 1978. Site 110 is currently overgrown with vegetation and no industrial activities occur in this area.

1.4.3 Site 109 (Site #915055)

This portion of the site encompasses approximately 7 acres of land and is subject to an Order on Consent with the NYSDEC through the IHWDS Program. Site 109 is located west of the BCP portion of the site. Reportedly, an unknown quantity of brick, rubble, and related demolition waste was disposed in this area in 1977. Site 109 is currently overgrown with vegetation. The only industrial activities on Site 109 are stormwater management. Outfall Numbers 001 and 004 as had been defined under the facilities prior individual SPDES Permit (NY002399) are located on Site 109. In addition, the concrete lined settling ponds that manage stormwater from the former process area, the guard shack and a scale are on Site 109.

1.4.4 Site 108 (Site #915055)

Site 108 comprises the western parcel (3800 River Road) of the Former Tonawanda Coke Corporation property adjacent to the Niagara River and was used for transferring coal from the river to the facility via conveyor belts. In 1973 the Erie County Health Department granted Allied Chemical permission to establish a disposal area, which was subsequently filled with refuse, wood, scrap polyethylene and ceramic saddle packing from refining equipment. The disposal of coke/coal, fly-ash cinders, and coal tar sludge has also been documented. A U.S. Environmental Protection Agency (USEPA) mandated removal action was completed in early 2020 that included removal of three large above-ground storage tanks and selected stockpiles of soil.

The electrical substation for the properties is located on Site 108. Although no longer in operation, the river pump house, the ship loading and unloading equipment, a conveyor system, and piping is located on Site 108. The majority of Site 108 is heavily vegetated.

Stormwater drainage from the BCP Site, Site 110, and Site 109 along with discharges from other industrial properties east of River Road, flows through a culvert onto Site 108. The culvert discharges to an open channel west of River Road. The flow from the combined discharges and the property west of River Road ultimately discharges to the Niagara River.

1.5 General Location Map

The general location map for this facility can be found in Figure 1

1.6 Facility Map

The facility map for this site can be found in Figure 2.



2 Potential Pollutant Sources

The current activities are documented below. As the investigation, interim remedial measures and remedial measures are developed, this list will be amended.

Industrial Activity	Associated Pollutants
BCP Site	
Management and control of shuttered former process equipment, out-of-service process tanks, and out-of-service storage tanks within secondary containment areas.	Secondary containment areas may contain coke production process residuals that may come into contact with stormwater runoff. These are managed using best management practices and structural controls. Water accumulating in secondary containment areas is treated and discharged to the Town of Tonawanda sewer system under Industrial Sewer Connect Permit No. 331.
Diesel Storage Tank (AST).	500-gallon Diesel AST; adjacent to the guard building. Has integrated secondary containment.
Miscellaneous drums of existing process materials and cleanup materials are labeled and moved to secondary containment or indoor areas.	Located throughout the site. Contact with storm water runoff managed through best management practices and good housekeeping. To date the majority of containers have been found to contain oils, greases, and other lubricants. Another set of containers contain Investigation Derived Wastes (IDW) accumulated by the USEPA.
ACM Management	Asbestos containing materials have been identified throughout the facility. Areas where ACM has fell, or is suspected of having fallen, are managed according to NYS Department of Labor requirements. Materials known to contain asbestos have been marked with red paint.
General site maintenance.	There is maintenance and general rubbish and recyclable material cleanup required across the property. The majority of the materials are ferrous metals and general plant wastes.
Excavation, loading, and transportation of coal and coke materials	Located in the southern half of the BCP Site. Reclamation activities are anticipated to progress until mid-2020. Contact with storm water runoff managed following an excavation work plan specific to these activities.



2.1 Spills and Leaks

The following is a descriptive list of where potential spills and leaks could occur at the facility that could contribute to pollutants to stormwater discharge:

Location	Outfalls
Diesel Storage Tank – Near maintenance building	Has secondary containment, if a failure of both the tank and secondary containment occurred subsequent flow would be contained with booms. There are no stormwater inlets in the vicinity of the tank.
Former Process Equipment	Flow to stormwater sewer system, main collector sump with oil removal booms, concrete lined settling basins and the Outfall 001.
Petroleum and Chemical Bulk Storage tanks	Within Secondary Containment. If overflow, flow would go to the storm sewer system, the concrete lined settling basin, then Outfall 001.
Containers	Within secondary containment and inspected. If release and overflow of secondary containment, to the storm sewer system, the concrete lined settling basin, then Outfall 001.
Former EQ and Associated Tanks	Within secondary containment and inspected. If release and overflow of secondary containment, to Outfall 002.
Coal and Coke Reclamation – coal and coke yard – southern half of BCP site	Upgradient of stormwater management facilities. Flows from these areas are captured by one of four sedimentation basins prior to discharge to Outfall 002.

Appendix A is a descriptive list of significant spills and leaks based on DEC records, including those in the past three years, and were all reported prior to the facility shutting down operations in October 2018. Powers Coal and Coke had a small release (Spill #1908744) in December 2019 prior to removing a piece of equipment from the property.

No significant spills or leaks have occurred while the site has been under the care, custody, and control of Riverview Innovation & Technology Campus, Inc.

2.2 Unauthorized Non-stormwater Discharges Documentation

Reviews of available historical piping schematics and interviews with knowledgeable former facility employees reveal no existing non-storm water discharges to any of the surface water outfalls at the site.



Secondary containment areas that may contain coke production process residuals and may come into contact with stormwater runoff are managed using best management practices (BMPs) and structural controls (Figure 3). Accumulated water from secondary containment areas in the process area is treated and discharged to the Town of Tonawanda sewer system under Industrial Sewer Permit No. 331 (Appendix B).

2.3 Sampling Data Summary

The TCC facility previously operated under SPDES Permit No. NY002399 prior to shutting down production. When the facility was shut down, TCC voluntarily returned the SPDES Permit, and the permit is no longer applicable. The USEPA has maintained monitoring and sampling in general accordance with the former SPDES permit requirements since initiating site response activities in October 2018. A summary of sampling from October 2018 through February 2020² is provided in Appendix C.

² Some data is pending and therefore not represented in the Appendix.



3 Stormwater Control Measures

Stormwater control measures at the property are adapting to the conditions remaining following closure and transfer of the management of the properties from the former Tonawanda Coke Corporation (TCC) to EPA and finally to Riverview.

3.1 Non-numeric Technology-based Effluent Limits

The site is being actively managed and transformed from an abandoned industrial facility to a viable redevelopment property avoiding the possibility of having an abandoned blight in the community. During this transition the following will be implemented.

3.1.1 Minimize Exposure

Riverview immediately implemented a number of active measures to minimize exposure of precipitation and runoff to potentially impacted soil and process equipment when the site was acquired:

- Managed containers throughout the facility. Containers were spread throughout the facility, many stacked in unstable configurations, and many on their sides. Containers were moved onto impermeable liners, separated so they could be inspected, and no containers are stacked. The containers are inspected weekly.
- Eliminated majority of oil storage. The liquids from five petroleum bulk storage tanks (ST-11 to ST-17 [PBS Nos. K-01 to K-05 are included]) and dozens of drums were recycled so the potential for releases and exposure were eliminated. The available information on Tanks at the site are compiled on Table D-1. The Tank locations are identified by Grid in Table D-1 and Shown on Figures D-1 through D-9.
- Covered petroleum and chemical bulk storage tanks. Two tanks (ST-06 [CBS B-03] and ST-07 [PBS D-02])) were located in areas that could have been exposed to significant contact with precipitation. Tanks ST-06 and ST-07 and their associated secondary containments were recovered with tarps to prevent contact with precipitation.

On an ongoing basis, the stormwater management systems across the entire site are inspected and where needed, controls are put in place, including but not limited to, gravel check dams, filter socks, silt fence and removal of materials from roads and staging areas.

3.1.2 Good Housekeeping

Housekeeping on the property has been neglected for decades. In February 2020 Riverview was awarded ownership of all materials and equipment on the property. Prior to that date, Riverview owned the real property, but not the materials on the surface. The restoration of good housekeeping at the site will be a protracted process due to the combination of the magnitude of the conditions inherited on the property and the potential for contact with potentially impacted materials. While site conditions are being defined, the following are conducted on a routine basis:

- Daily inspections of the roads and site perimeter.
- Observations and identification of any fallen insulation. All fallen insulation is identified, sampled for asbestos content and managed in accordance with state requirements.
- Monitoring the elevations of water accumulating in secondary containment systems. There are seven secondary containment systems on the property:
 - Weak Ammonia Liquor Area Figure D-2 (F10 to J11)– Tanks ST-01, ST-02, PT-02, PT-03 and FP 1. This is a large reinforced concrete containment area. None of the



- tanks in the containment contain liquids in excess of the elevation of the containment walls.
- Light Oil Area Figure D-2 (H8 I9) Tanks PT-04, PT-12, PT-13 This secondary containment around the light oil decanter and associated tanks was compromised when the former building east of the secondary containment was removed. This containment has limited volume and must be periodically be pumped to the sewer under Permit No. 331.
- ST06 Figure D-2 (R10) The secondary containment around ST-06 is a steel box constructed for and specific to this tank. Approximately one-half of the tank is above the sides of the containment, so ~ 2,500 gallons of capacity must be maintained, approximately 4 feet below the crest.
- o ST07 − Figure D-2 (P13) The secondary containment around ST-07 is a steel box constructed for and specific to this tank. Approximately one-half of the tank is above the sides of the containment, so ~ 5,000 gallons of capacity must be maintained, approximately 4 feet below the crest.
- Tar Management Area Figure D-3 (S7 toU8) Tanks PT-05 to PT-08, PT-11, and PT-14) The secondary containment area around the tar management area is maintained at the lowest level possible.
- EQ and Associated Tanks Figure D-8 (E33 to N36) Tanks ST-21 to ST24 The secondary containment walls are above the elevation of the remaining liquids and sludges in the tanks, The capacity is maintained more than 5 feet below the crest.
- Fuel Tank Figure D-2 (F7) The mobile fuel tank has its own self-contained secondary containment and is maintained free of liquid.

3.1.3 Maintenance

Maintenance is the primary concern on the property. Inspection checklists are provided in Appendix E. There are ongoing maintenance activities required to maintain surface water quality:

- As described above, inspecting and controlling the water levels in secondary containment structures. There are secondary containment structures in the tar management area, the light oil area, and around several storage and wastewater treatment tanks. The structures are routinely inspected, and water is pumped from the containments before any risk of overtopping.
- Stormwater controls are inspected daily and maintained as soon as any potential issue is
 observed, including but not limited to, repairing silt fence, placing stone check dams to prevent
 flow from circumventing stormwater inlets, and replacing silt socks as needed. The controls
 include:
 - o The Collection "Mansion" Sump Figure 3, Grid D2;
 - o Inlets along the North Storm Sewer Figure 3, Grids D2 to Y5;
 - o Catch Basins Figures 5 and 6;
 - o Sedimentation Pool #003 Figure 5, Grids N15 to N20;
 - North Ditch- Figures 5 and 6;
 - o Sedimentation Pool #002 Figure 5, Grids I22 to M22;
 - Storm Water Retention Basin Figure 7, Grids F26 to I27;
 - Sedimentation Pool #001 Figure 7, Grids J29 to O29;
 - South Ditch Figures 6 and 7; and



- o Coal Yard Excavation Water Levels and Silt Fence Figure 6, Grids N29 to Ag26.
- Maintaining the water level in the coal and coke yards (Figures 3 through 6). The water level in pools within the coal and coke yards are maintained at or below the surrounding ground surface outside the perimeter dikes to ensure no seepage or potential release.
- Maintaining the collection (a/k/a Mansion) sump behind Building No. 001 (Figure 3, Grid D2). The sump behind Building No. 001 is a collection point for two surface water sewer systems. The sump is the first point that oil and sediment would be managed. Booms are maintained in the sump in the event of any sheen and the sump allows sediment to settle. The booms and sediment are periodically removed. the booms are replaced if they become saturated and no longer float above the top of the biological buildup. Sediment is removed whenever the sediment is visible in the sump.
- Maintaining storm sewers. The storm sewers throughout the former production area (AOI 2, Figures 2, 3 and 4) require periodic cleaning. The cleaning is conducted after the flow is restricted at the site.

Material storage tanks and pipelines are inspected daily by onsite OSC personnel. Abnormalities identified by onsite personnel shall be evaluated and repaired/cleaned up as soon as possible.

Fueling and maintenance of Facility equipment and vehicles will be performed in designated areas that are regularly inspected for the presence of any leaks or spills and will be closely monitored in conjunction with the terms of this SWPPP.

3.1.4 Spill Prevention and Response

Spill prevention is based on good housekeeping and maintaining the containers and tanks at the property. During the remedial actions, task specific spill prevention and response plans will be required. All petroleum spills that occur within New York State (NYS) must be reported to the NYS Spill Hotline (1-800-457-7362) within 2 hours of discovery, except spills which meet <u>all of the following criteria</u>:

- 1. The quantity is known to be less than 5 gallons; and
- 2. The spill is contained and under the control of the spiller; and
- 3. The spill has not and will not reach the State's water or any land; and
- 4. The spill is cleaned up within 2 hours of discovery.

A spill is considered to have not impacted land if it occurs on a paved surface such as asphalt or concrete. A spill in the coal yard, coke yard, any soil surfaces or any gravel parking lot is considered to have impacted land and is reportable. Any spills or releases that do not require reporting to the NYS Spill Hotline will be reported, in writing, to the DEC BCP Project Manager within 48-hours of discovery.

During Regular Business Hours:

1. The person discovering the spill shall report to the onsite foreman or project manager immediately:

a. Pat Cahill - 716.860.5994b. Al Trpevski - 716.818.3390

- 2. As long as it poses no safety risk, attempt to secure the source of flow and stop discharge;
- 3. Block any catch basin(s) or storm sewer that could receive flow from the spill with filter sock or soil;



- 4. Project Manager shall inspect the area as soon as the flow is abated and call the NYS Spill Hotline (1-800-457-7362) within 2 hours of incident identification;
- 5. In the event of a potential or actual release from the property beyond Outfall 004, the following shall be called in the order given after calling the NYS Spill Hotline (1-800-457-7362):

a. National Response Center
 b. U.S. Coast Guard
 c. U.S. EPA
 d. NYSDEC (Region 9)
 e. NYSDEC (Albany)
 800.424.8802
 716.846.4168
 732.548.8730
 716.851.7220
 800.457.7362

- 6. Project Manager shall direct cleanup. If less than a drum full of material, collect, contain and label drum;
- 7. If more than can be managed onsite call the following contractor:
 - a. Ontario Specialty Contracting 716.856.3333

After Regular Business Hours:

1. The person discovering the spill shall report to the onsite foreman or project manager immediately:

a. Pat Cahill - 716.860.5994
 b. Al Trpevski - 716.818.3390
 c. John Black - 571.217.6761

- 2. If qualified and as long as it poses no safety risk, attempt to secure the source of flow and stop discharge;
- 3. If qualified and have access to materials, block any catch basin(s) or storm sewer that could receive flow from the spill with filter sock or soil;
- 4. Project Manager shall inspect the area as soon as the flow is abated and call the NYS Spill Hotline (1-800-457-7362) within 2 hours of incident identification;
- 5. In the event of a potential or actual release from the property beyond Outfall 004, the following shall be called in the order given after calling the NYS Spill Hotline (1-800-457-7362):

d. National Response Center
 e. U.S. Coast Guard
 f. U.S. EPA
 g. NYSDEC (Region 9)
 h. NYSDEC (Albany)
 800.424.8802
 716.846.4168
 732.548.8730
 716.851.7220
 800.457.7362

- 6. Project Manager shall direct cleanup. If less than a drum full of material, collect, contain and label drum;
- 7. If more than can be managed onsite call the following contractor:

i. Ontario Specialty Contracting - 716.856.3333

In the event of a spill that generates material from on-Site cleanup efforts (e.g., sorbent material, impacted soil, etc.), the Project Manager will confer with Inventum and the DEC regarding the nature of the waste in order to determine the proper reuse, recycling and/or disposal method.

Spill kits are available onsite that include:

- Hazmat absorbent socks, no less than 4 feet long
- One hazmat sock, no less than 10 feet long



- Hazmat absorbent pads
- Clear sealable watertight bags
- Cable ties or other fasteners for socks and bags
- Spill response book or form to record incident and contacts made
- Polypropylene drum or bucket.

In addition, absorbent materials and standby clean drums and buckets are available on the site. The spill kits are located at the maintenance office - Figure 3, Building 8, Grid E7 and by the guard shack – Figure 7, Building 70, Grid E31.

3.1.5 Erosion and Sediment Controls

Erosion and sediment controls are critical components of the surface water management systems at the site. Erosion and sediment controls include:

- Filter socks around catch basins (Appendix F) in the coal and coke yard and wherever there is potentially impacted soils that could erode into a collection system;
- Vegetation in and around the North and South Drainage Ditches;
- Gabion Baskets to control velocity of flow in the North and South Ditches and Sedimentation Pool #003. The Gabion Baskets are located:
 - o Sedimentation Pool #003 Figure 5, Grids N15 and N19; and
 - o South Ditch, Figure 6 Grid AI28 and Figure 7, Grid N29.;
- Stone Check Dams to direct flow to catch basins (Figures 5 and 6);
 Silt Fence (Appendix F) along stockpiles Figure 5, Grids N27 to Y30) that could produce runoff to a stormwater catch basin:
- Maintaining the ground surface around the stormwater catch basins at an elevation no higher than 6-inches below the lowest elevation of the inlet; and
- Vegetation in and around the North and South Drainage Ditches provides control of sheet flow velocity. The vegetation, where it exists, will be maintained and additional areas of vegetated growth will be seeded as natural soils are exposed at the Site.

The Erosion and Sediment Controls are checked weekly and monthly stormwater management system inspections are conducted in accordance with the Checklists in Appendix E.

3.1.6 Management of Runoff

Runoff from the site will be managed in accordance with the AOI (Figure 2):

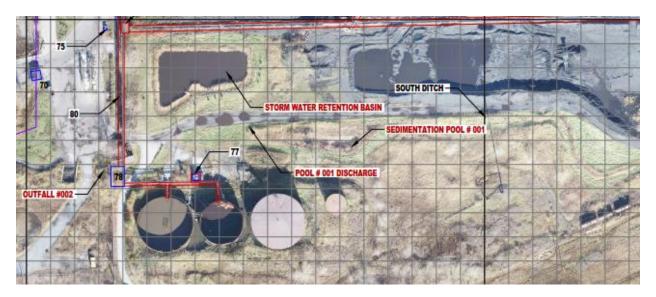
- AOI 1 North Rail Corridor Runoff is directed to the North Ditch or the North Storm Sewer. Flow to the East Coke Yard Ditch (Figure 5) is managed in the Sedimentation Pool #003 (Figure 5), Stormwater Retention Basin and then discharged through Outfall #002. Flow from the central and western portions of AOI 1 is directed to the North Storm Sewer, through the Collection Sump and to the Concrete-lined Settling Ponds prior to discharge through Outfall #001.
- AOI 2 Former Process Area Runoff is directed to the Box Culvert or the North Storm Sewer. Flow is directed through the Collection Sump and to the Concrete-lined Settling Ponds prior to discharge through Outfall #001. Stormwater from secondary containment areas are managed separately from these flows.



- AOI 3 Parking Lot Flow is directed to the box culvert or the storm sewer inlets on the North South Storm Sewer, Sump and to the Concrete-lined Settling Ponds prior to discharge through Outfall #001.
- AOI 4, 5, 6 and 7 Coke Yard, Coal Yard, Water Treatment and South Drainage The runoff from these areas are routed to the North and South Ditches, to Sedimentation Pools #001 and #002, then the Stormwater Retention Basin, prior to discharge through Outfall #002.

Precipitation that falls with a secondary containment is managed separately. The dikes around process storage tank areas were constructed to contain at least the 110 percent of the volume of the largest tank plus additional volume to provide freeboard for precipitation. Water collected within the dikes is pumped for treatment prior to discharge to the Town of Tonawanda Sewer under Permit No. 331.

Water collected in the diked area around the EQ and associated tanks (Tanks 20 to 24, Figure 7, Grids E32 to N43) will be tested prior to discharge. If the water meets the Industrial Waste Permit Criteria and no detection of ammonia or mercury above POTW discharge criteria, the water will be discharged to the Sewer (POTW). If the water does not meet the discharge criteria, it will be pumped to a weir tank for treatment. DEC will be notified if treatment is required.



Stormwater in the former process area (AOI 2) that falls outside of the secondary containments is routed to the two concrete lined settling/skimming ponds (Figure 7) through the plant storm sewer system. The runoff is collected in the sump behind Building 001 (known as the Collection or Mansion Sump) in the northwest corner of the property (Figure 3). Initial sediment removal occurs in the collection sump. Any sheen on the water is removed in the collection sump. The runoff overflows to the secondary sewer system (North South Sewer) that conveys flow to the south. The runoff is discharged to the concrete lined settling ponds (Figure 7) from the North South Storm Sewer through an underground manifold. The runoff is held in the ponds to allow settling and skimming (oil separation) and is subsequently discharged through Outfall 001. The concrete lined settling pond system has been designed to remove coal fines, along with incidental amounts of oil and other materials that may enter the catch basins in the former process areas.



3.1.7 Dust Generation and Vehicle Tracking of Industrial Materials

A water truck will be used to control dust on roads used for heavy vehicle traffic during coal and coke recovery, investigations, interim remedial measures, demolition and remedial actions.

During any offsite shipment of coal, coke or other bulk materials, a staging/tire wash station will be established in the vicinity of the scale (Figure 7, Grids C26 and C27). Tires of over the road haulage trucks leaving the site will be inspected to ensure there is no mud or industrial materials on the tires. Any excess accumulations of mud or industrial materials will be removed onsite before reaching the truck scale area. The removed materials will be accumulated in a drum or roll off container prior to characterization.

3.2 Numeric Effluent Guidelines

There is no longer an applicable Discharge Permit for the BCP Site. In lieu of a permit, under the BCP the site is subject to monitoring in accordance with this SWPPP. Table 2 provides the effluent guidelines for the site. There are three outfall locations at the site. The corresponding action levels and monitoring frequency are presented for Outfall #001 (Figure 7, Outfall #002 (Figure 7) and Outfall #004 in Table 2. The numerical effluent values represent action levels that trigger the need for a work plan to either:

- Conduct additional sampling of the outfall to confirm the concentrations;
- Conduct additional sampling upstream of the outfall to determine the likely source of the excursion;
- Develop an interim remedial measure to address any onsite source contributing to the excursion at the outfall; or
- Adjustment to any activity that is contributing to the excursion.



4 Schedules and Procedures

4.1 Good Housekeeping

As described earlier, Riverview has inherited a property that has had less than optimal housekeeping. The site will be brought into a reasonable level of organization over the next twelve months by addressing in priority:

- 1. Water in secondary containment sumps and pits;
- 2. Asbestos Containing materials;
- 3. Drums and containers;
- 4. Surface debris and equipment that could contribute constituents of concern to surface water;

4.2 Maintenance

As stated in Section 3.1.3, maintenance is the primary concern on the property. There are ongoing maintenance activities required to maintain surface water quality:

- Inspecting and controlling the water levels in secondary containment structures. There are
 secondary containment structures in the tar management area, the light oil area, and around
 several storage and wastewater treatment tanks. The structures are inspected daily, weekly and
 monthly (see Checklists, Appendix E), and water is pumped from the containments before any
 risk of overtopping.
- Stormwater controls are inspected daily and maintained as soon as any potential issue is observed, including but not limited to, repairing silt fence, placing stone check dams to prevent flow from circumventing stormwater inlets, and replacing silt socks as needed.
- Maintaining the water level in the coal and coke yards. The water level in pools within the coal
 and coke yards are maintained at or below the surrounding ground surface outside the perimeter
 dikes to ensure no seepage or potential release.
- Maintaining the sump behind Building No. 001. The sump behind Building No. 001 is a collection point for two surface water sewer systems. The sump is the first point that oil and sediment are managed. Booms are maintained in the sump in the event of any sheen and the sump allows sediment to settle. The booms and sediment are periodically removed.
- Maintaining storm sewers. The storm sewers throughout the site requires periodic cleaning.

Material storage tanks and pipelines are inspected daily by onsite OSC personnel. Inspection Checklists are included in Appendix D. Abnormalities identified by onsite personnel shall be evaluated and repaired/cleaned up as soon as possible.

Fueling and maintenance of Facility equipment and vehicles will be performed in the designated area near the warehouse (Figure 3, Building 18) and at the coal yard pump (Figure 5, Grid M27) that are regularly inspected for the presence of any leaks or spills and will be closely monitored in conjunction with the terms of this SWPPP.

4.3 Employee Training

All onsite personnel, except the Security Guards, are trained in accordance with 40 CFR 1091.120 Hazardous Waste Operations and Emergency Response (HAZWOPER). Spill Prevention and Notification Training is provided for all onsite employees and contract workers who have the potential to handle materials that contain potential pollutants (i.e., oils, lubricants, fuel) or to respond in the event of a



spill of these materials. The training is provided as part of the annual Hazardous Waste Operations and Emergency Response (HAZWOPER) refresher course and includes training regarding spill reporting obligations under applicable Federal and State laws and regulations.

4.4 Inspections and Assessments

Inventum and the onsite personnel perform the following regular and periodic inspections (Appendix D):

- 1. All operators prior to, during and after, the operation of any vehicle are instructed to identify potential sources, or actual spills or releases.
- 2. The Tar Management Area (AOI 2, Grids S7 to U8, Figure 3) is inspected daily to identify all accumulations of liquids in or around the secondary containment.
- 3. The Process Wastewater Tank Areas (AOC 3 Grids F9 to I11, Figure 3 and AOC 6 Figure 7 Grids E32 to N 34) are inspected weekly to identify all accumulations of liquids in the secondary containments.
- 4. Outfalls are inspected at least on a weekly basis by Inventum to insure there is no change in appearance. The outfalls are sampled in accordance with the schedules in Table 2 (see Section 4.7).
- 5. Inspection of storage and containment areas, including drum storage areas, tanks, and secondary containment systems, is performed by Inventum and onsite personnel. Any deterioration of the curbing or containment walls will be promptly repaired. Any leaking tanks or piping within containment areas will also be promptly repaired or the tank will be emptied. Onsite personnel are to notify the Project Manager upon the identification of a maintenance and/or repair issue regarding any issue associated with storage and containment areas.
- 6. Inspection of the former Tar Mixing Pad is performed by Inventum and onsite personnel. Any deterioration of the containment walls will be promptly repaired. If the water level rises within 6 inches of the top, the water in the pad will be tested, pumped, treated, and discharged to the sewer.
- 7. The stormwater collection system is to be visually inspected on a monthly basis by a representative of Inventum.

The stormwater collection system (Figures 3 to 7) inspection is to specifically include, but not be limited to:

- Catch basins,
- Underdrains,
- Collection Ditches,
 - o Coke Yard;
 - o North:
 - o North Lateral;
 - o South;
 - o Site 109 drainage ditch; and
 - o Site 108 drainage ditch.
- Milled asphalt roads surrounding the perimeter of the coal pile/coke storage areas,
- Mixing Pad,
- Tank Rail cars,
- Sedimentation Pools #001, #002 and #003,
- Stormwater Retention Basin,



- Concrete-lined Sedimentation Pond,
- Collection Sump (Mansion Sump),
- Inlets and catch basins in AOI 2.

The inspector shall check the level of accumulated breeze, coal, coke and related materials surrounding the catch basins, underdrains, and milled roads, as well as accumulated sediment and vegetation within the stormwater management control system. In each such case, excess material is to be removed within 7 days of detection. The results of the visual inspections are to be recorded and stored in a system that can be retrieved as requested by DEC.

The stormwater inspection frequency will be:

- Twice per month from April 1 through June 30, i.e., there will be two inspections in April, May, and June each year;
- Monthly July to March each year; and
- Within 3 days of a rain event that is greater than 0.5 inches, based on data collected from a local weather station.

4.5 Monitoring

Monitoring of the outfall will be conducted in accordance with the schedule given in Table 2. Monthly, quarterly and semi-annual sampling is required at the outfalls in accordance with the Table 2. Monitoring reports will be submitted by the 25th of the trailing month; for example, the self-monitoring report for January will be due no later than February 25th.



5 Corrective Actions

The stormwater management system was designed and constructed for an operating coke plant. The loading to the system decreased with the shutdown of the plant and is anticipated to decrease as the interim remedial measures, demolition, and remedial actions are implemented. Specific stormwater controls will be included in the work plans for each interim measure, demolition activity, or remedial action. These specific controls may supersede the procedures of this plan, depending on the nature of the work being performed. As discussed in Section 3.2, the previous owner shut down the facility with minimal planning. It is also recognized that this is a BCP Site and while there is no applicable Discharge Permit, Riverview is required to prevent off-site migration of contaminants from the site. Table 2 provides the effluent guidelines for the site. There are three outfall locations related to the site. The corresponding action levels and monitoring frequency are presented in Table 2. The numerical effluent values represent action levels that trigger the need for a corrective action/work plan to either:

- Conduct additional sampling of the outfall to confirm the concentrations at the specific outfall;
- Conduct additional sampling upstream of the outfall to determine the likely source of the excursion;
- Develop an interim remedial measure to address any onsite source contributing to the excursion at the outfall; or
- Adjust the activity or controls associated with any activity that is contributing to the excursion.

The owner will attempt to meet with DEC within 5-days of any action level being exceeded to discuss the proposed actions to monitor or remediate the cause of the exceedance. The owner will generate meeting minutes from this meeting summarizing the discussion and the selected actions to address the action level exceedance(s).



6 SWPPP Modifications

The SWPP has been prepared to manage the surface water discharges from the Riverview Site in the condition left by TCC. This plan will be reviewed and, if necessary, will be modified following completion of:

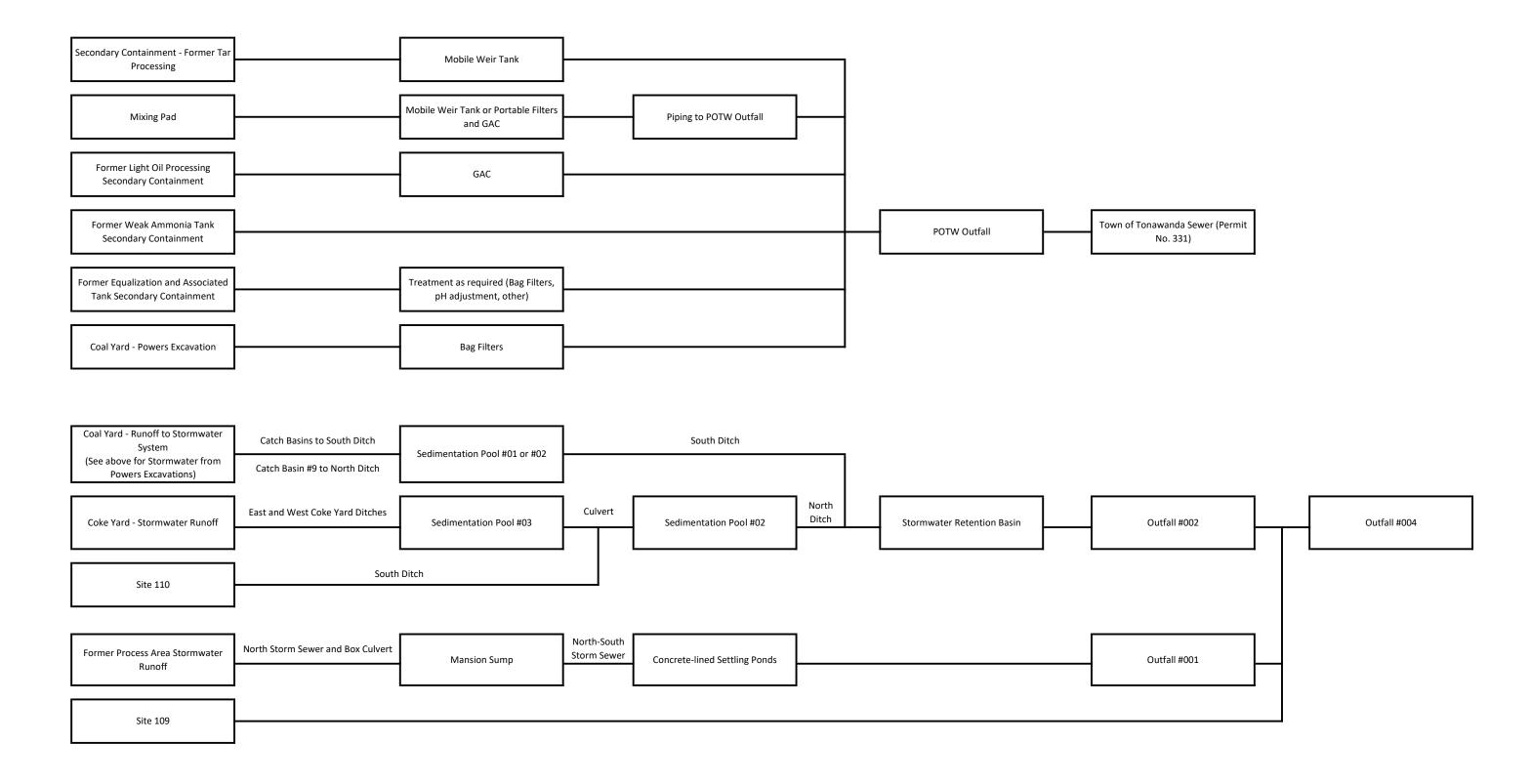
- Coal and coke recovery which are anticipated to be completed by end of 2020,
- Removal of major components or buildings within the property,
- Engineering for major grading or earthmoving operations on the site,
- Engineering of any planned modifications to the storm water management system, or
- Planning of the proposed redevelopment.

A modified SWPP will be submitted to NYSDEC for approval within 30-days of the completion of each item listed above or any other change at the site that significantly alter stormwater flow at the site.



Tables





Page 1 of 1

Parameter	CAS No.			Action Level	Level Units	Sample Frequency	y Sample Type	Factorete	Outfalls			
Parameter		Monthly Average	Daily Maximum	Level/ML	Action Level	Units	Sample Frequency	Sample Type	Footnote	1	2	4
Flow	NA	monitor	monitor	-	-	MGD	Continuous	Recorder	-	Y	N	N
Flow	NA	monitor	monitor	-	-	MGD	Weekly	Calculated, V- Notch Weir and Cumulative Flow	-	N	Y	N
Flow (May-Oct)	NA	monitor	monitor	-	-	MGD	Monthly	Calculated	-	N	N	Υ
Temperature	NA	-	102	-	-	°F	Monthly	Grab	1	Υ	N	N
Temperature (continuous)	NA	monitor	90	-	-	°F	Weekly	Recorder	-	N	N	Y
Solids, Total Suspended	NA	-	50	-	-	mg/L	Monthly	24-hr. comp.	1	Υ	Y	N
Oil & Grease	NA	-	15	-	-	mg/L	Monthly	Grab	-	Y	Y	N
Settleable Solids	NA	-	0.1	-	-	mL/L	Monthly	Grab	-	N	N	Y
Mercury, Total	NA	-	50	-	-	ng/L	Quarterly	Grab	-	Υ	Y	Y
Ammonia, Total (as N)	7664-41-7	-	-	-	1.5	mg/L	Quarterly	24-hr. comp.	ı	Υ	N	N
Cyanide, Total	57-12-5	-	-	-	0.03	mg/L	Quarterly	Grab	-	Υ	Y	N
Phenols, Total	NA	-	-	-	0.08	mg/L	Semi-annual	Grab	1	Υ	N	N
Benzene	71-43-2	-	-	-	0.0015	mg/L	Quarterly	Grab	-	Υ	N	N

Table 2 Effluent Guidelines Riverview Innovation Technology Campus, Inc. Tonawanda, New York

D	CAS No.		Limit or Level Daily	Compliance	Compliance Level/ML Action Level	1124	ts Sample Frequency	Canada Tana	Footnote		Outfalls	
Parameter		Monthly Average	Daily Maximum	Level/ML		Units		Sample Type	Footnote	1	2	4
Napthalene	91-20-3	-	-	-	0.003	mg/L	Quarterly	Grab	-	Υ	N	N
Toluene	108-88-3	-	-	-	0.003	mg/L	Quarterly	Grab	-	Υ	N	N
Fluoride	16984-48-8	-	-	-	1.5	mg/L	Semi-annual	24-hr. comp.	-	Υ	N	N
Surfactants	NA	-	-	-	0.5	mg/L	Semi-annual	24-hr. comp.	-	Υ	N	N
Iron	NA	-	-	-	4	mg/L	Semi-annual	24-hr. comp.	-	Υ	N	N
Aluminum	NA	-	-	-	1	mg/L	Semi-annual	Grab	-	N	Υ	N
Copper	NA	-	-	-	0.2	mg/L	Semi-annual	Grab	-	N	Υ	N
Manganese	NA	-	-	-	1	mg/L	Semi-annual	Grab	-	N	Y	N
Nickel	NA	-	-	-	0.5	mg/L	Semi-annual	Grab	-	N	Υ	N
Zinc	NA	-	-	-	0.5	mg/L	Semi-annual	Grab	-	N	Y	N
WET - Acute Invertebrate	NA	-	-	-	15	Tua	Quarterly	see footnote	2	N	N	Υ
WET - Acute Vertebrate	NA	-	-	-	15	TUa	Quarterly	see footnote	2	N	N	Υ
WET - Chronic Invertebrate	NA	-	-	-	100	TUc	Quarterly	see footnote	2	N	N	Υ
WET - Chronic Vertebrate	NA	-	-	-	100	TUc	Quarterly	see footnote	2	N	N	Υ
pH (range, monthly)	NA	6.0 - 9.0	SU	-	-	-	monthly	Grab	-	N	Υ	N
pH (range)	NA	6.0 - 9.0	SU	-	-	-	2/monthly	Grab	-	Υ	N	N
Acenaphthylene	208-96-8	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N
Chrysene	218-01-9	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Υ	Y	N
Fluoranthene	206-44-0	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N
Indeno(1,2,3-cd)pyrene	193-39-5	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N

Downwater	CAS No.	Effluent Limit or Calculated Level Daily		Compliance	Action Level	Haika	Commis Francisco	Compute Type	Facturate	Outfalls		
Parameter		Monthly Average	Daily Maximum	Level/ML	Action Level	el Units	Sample Frequency	Sample Type	Footnote	1	2	4
Phenanthrene	85-01-8	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N
Xylenes-mixed isomers	1330-20-7	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N
Benz(a)anthracene	56-55-3	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Υ	Y	N
Benzo(a)pyrene	50-32-8	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Υ	Υ	N
Benzo(b)fluoranthene	205-99-2	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Υ	Y	N
Benzo(k)fluoranthene	207-08-9	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N
Dibenz(a,h)anthracene	55-70-3	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N
Arsenic	NA	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Υ	Y	N
Lead	NA	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N
2-Methylphenol	95-48-7	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Υ	N

Table 2
Effluent Guidelines
Riverview Innovation Technology Campus, Inc.
Tonawanda, New York

Parameter	CAS No.	Effluent Limit or Calculated Level Daily		Compliance	Action Level	Units	Cample Francisco	Canada Tana	Footnote	Outfalls		
Faiailletei		Monthly Average	Daily Maximum	Level/ML	Action Level	Omits	Sample Frequency	Sample Type	Toothote	1	2	4
3-Methylphenol	108-39-4	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	ı	Y	Y	N
4-Methylphenol	106-44-5	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N
VOC TICs	NA	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Υ	Υ	N
SVOC TICs	NA	monitor	monitor	-	monitor	mg/L	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Υ	Υ	N
Asbestos	NA	monitor	monitor	-	monitor	#N/A	Quarterly (Q3 2020 to Q2 2021)	Grab	-	Y	Y	N

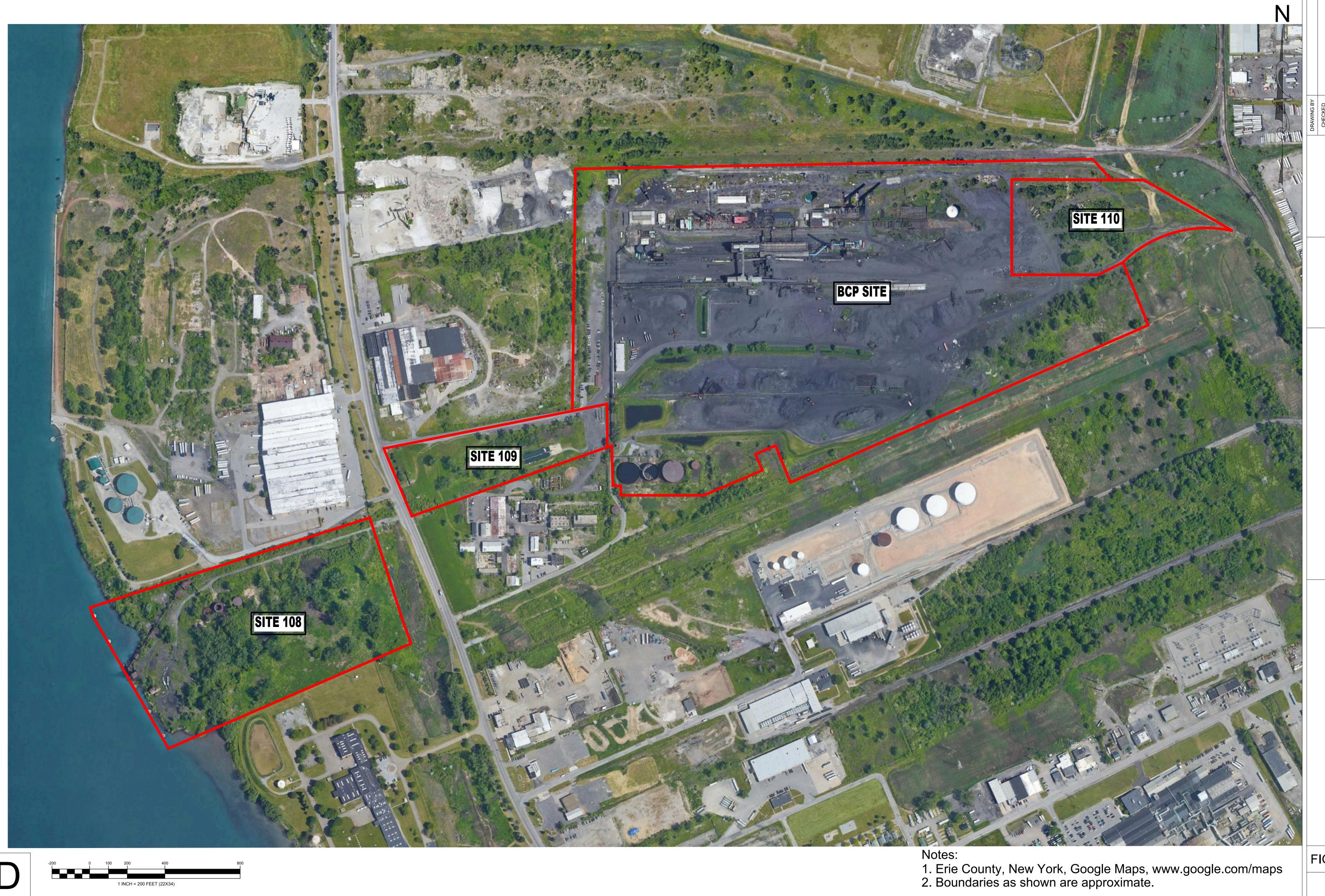
Footnote 1 Action Levels:

Action Levels are monitoring requirements which trigger additional monitoring and review when exceeded. Within 5 business days of a reported exceedence, the DEC and owner, or owners representative shall meet and determine if additional sampling or an interim remedial measure are appropriate.

Footnote 2 Whole Effluent Toxicity (WET) refer to page 7 of the former TCC permit for full text of WET sampling requirements. refer to page 7 of the former TCC permit for full text of WET sampling requirements.

Figures





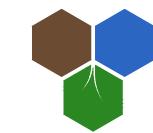
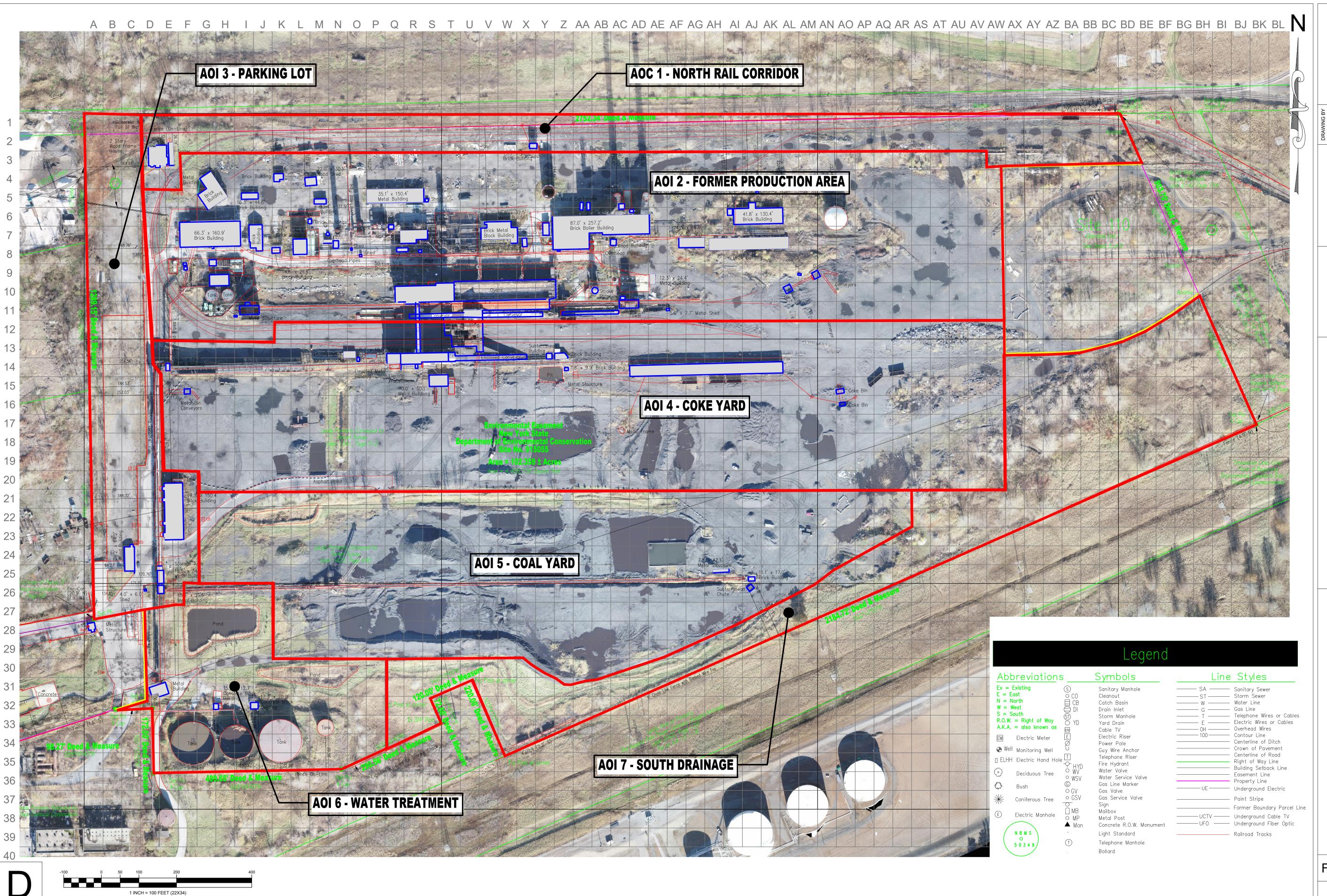


FIGURE 1



NWNFIELD CLEANUP PROGRAM SITE
RVIEW INNOVATION & TECHNOLOGY
CAMPUS, INC.
3875 RIVER ROAD

A81 CARLISLE DRIVE
SUITE 202
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

FIGURE 2

DRAWING NUMBER 107



NOTE: SEWER LOCATIONS ARE APPROXIMATE.

NORTH SUR

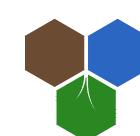
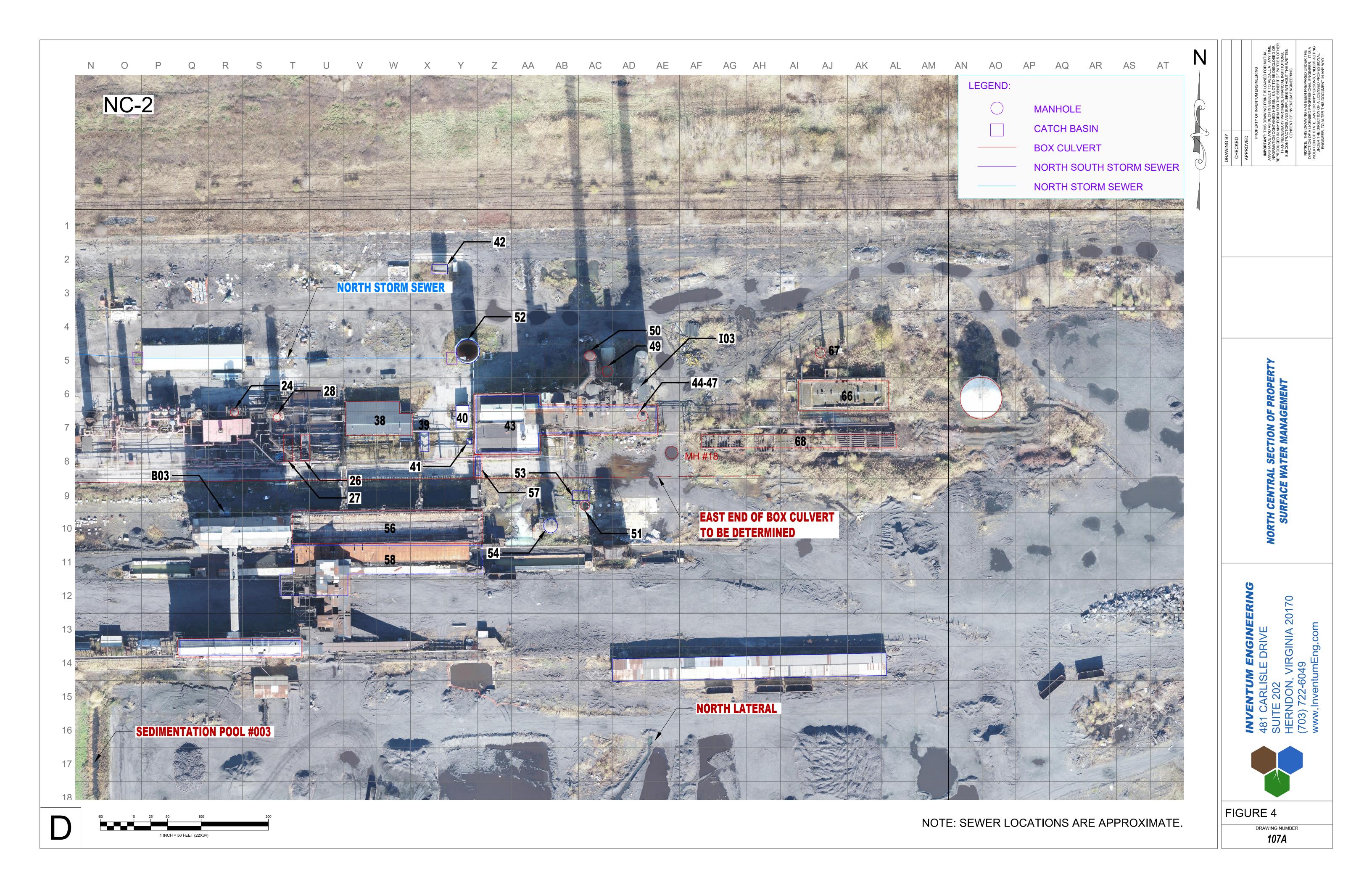
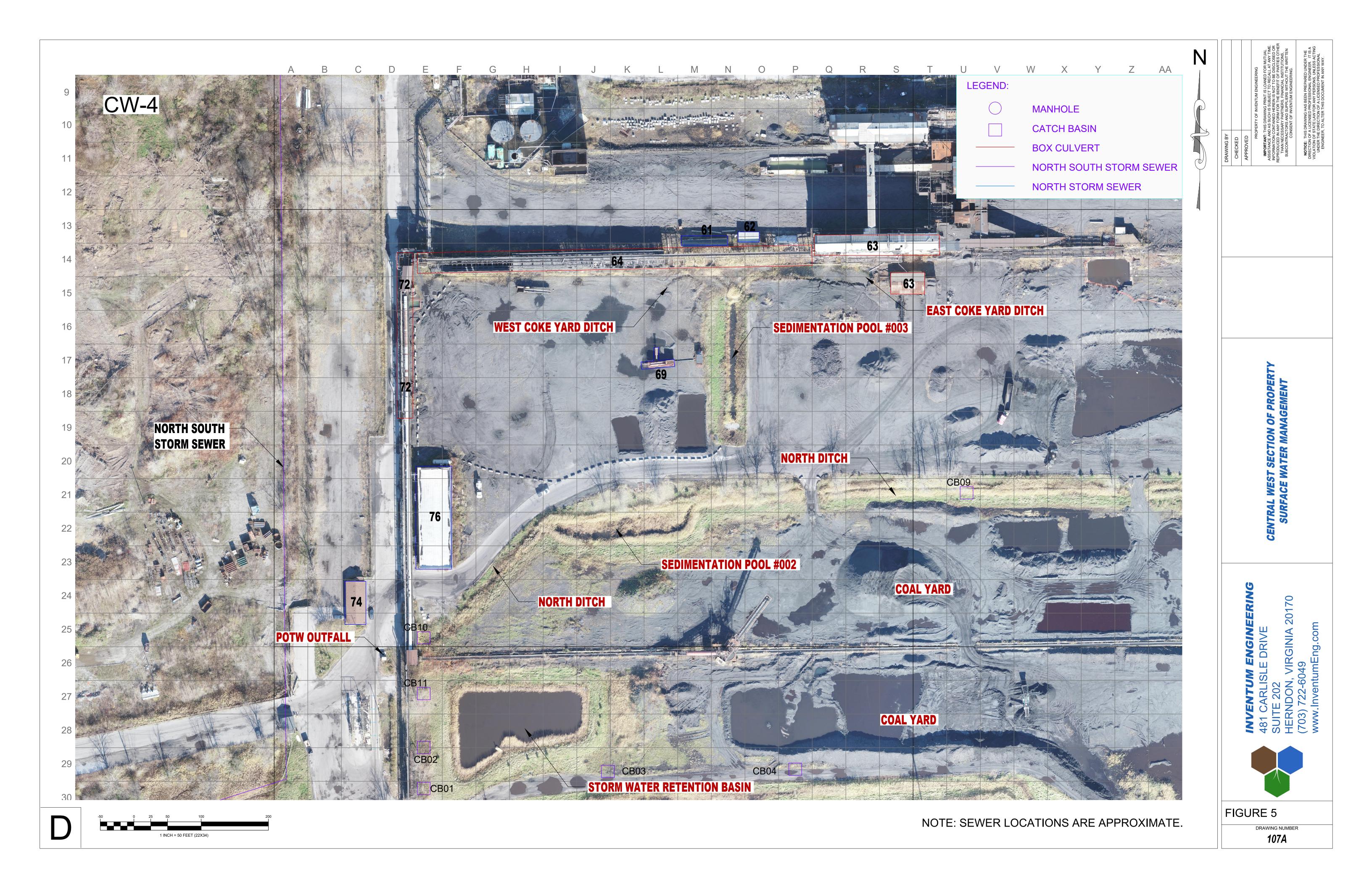


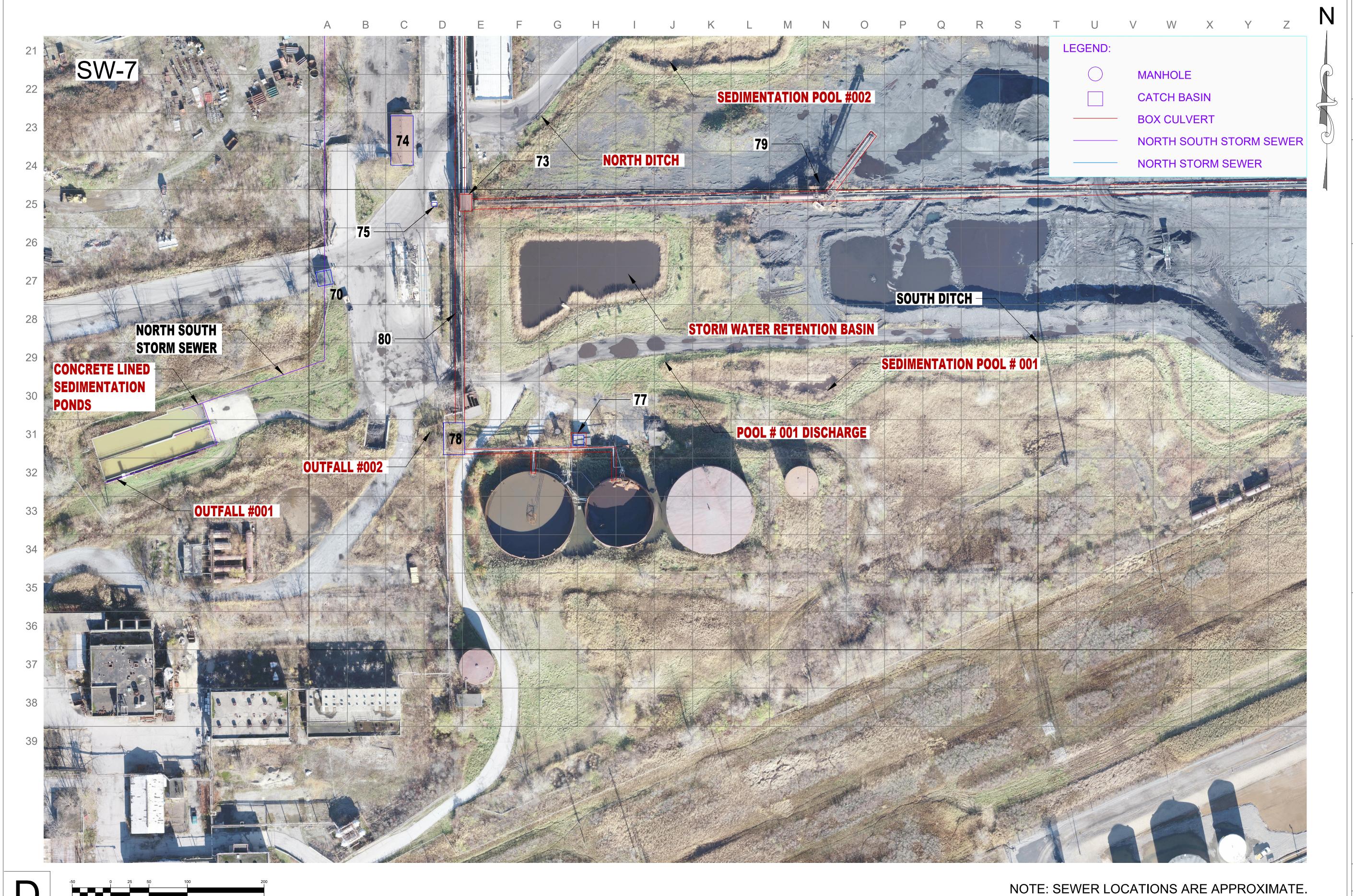
FIGURE 3

DRAWING NUMBER **WCW SET**









WYENTUM ENGIN L ABI CARLISLE DRIV SUITE 202 HERNDON, VIRGINI/ (703) 722-6049 www.InventumEng.co

Appendices



A – Spill History



NYS	SDEC Spill Incide	nts Database Search Results (a)	Spill Incident Details						EDR Database Report Details (b)		
Spill Numbe	Date Spill Reported	Spill Name	Spill Date	Date Spill Closed	Material Spilled	Amount	Resource Affected	Cause	DEC Memo Comments		
1304468	7/24/2013	TONAWANDA COKE	7/24/2013	7/24/2013	Tar	Unknown	Soil	Unknown	"7/25/13:DUPLICATE OF SPILL NUMBER 1304468 AND SPILL NUMBER 1304471. 7/26/13:SAC ATTEMPTED TO CALL PETER VAN ORDEN BUT WAS UNABLE TO GET THROUGH. WHEN DIALING USING AND LINE RECEIVED AN IRREGULAR BUSY SIGNAL. WHEN ATTEMPTING TO CALL BY CELL PHONE RECEIVED A MESSAGE THAT SAID ALL CIRCUITS ARE BUSY. SENT e-MAIL RESPONSE TO MR. VAN ORDEN NOTIFING HIM OF SAC INSPECTION AND W/CALL BACK NUMBER IF FURTHER CLARIFICATION REQUIRED. 9/10/13:SAC REVIEW FILE. NO ADDITIONAL MESSAGE FROM MR VAN ORDEN. WILL CLOSE OUT THIS SPILL FURTHER FOLLOW UP UNDER SPILL NUMBER 1304471. NO PAPER FILE."		
1312043	3/25/2014	ROUND HOUSE	3/25/2014	Not Closed	Hydraulic Oil	1 Gal.	Soil	Equip. Failure	"5/8/2014: RIJ TELECON ROBERT KOLVEK,TONAWANDA COKE SUPERVISOR,HE SAID THAT ON 3/25/14,THEIR FRONT-END LOADER BROKE A SEAL,CAUSING ~ 1 GAL. OF HYDRAULIC OIL TO SPILL OUT,ALL ON THE GROUND,NEAR THE ROUND HOUSE AREATONAWANDA COKE PERSONNEL SCRAPED-UP THE AFFECTED SOIL AND PLACED IT ON THEIR RECYCLING PAD,AWAITING DISPOSAL,AFTER THEY OBTAIN THEIR BUDNONE OF THE OIL REACHED ANY WATERWAYS,IT HAS BEEN ALL RECOVEREDMR. KOLVEK WILL KEEP ME INFORMED."		
1401576	5/14/2014	TONAWANDA COKE	5/14/2014	Not Closed	Hydraulic Oil	1 Gal.	Soil	Equip. Failure	Not Reported		
1402932	6/17/2014	TONAWANDA COKE CORP.	6/27/2014	Not Closed	Motor Oil	2 Gal.	Soil	Abandoned Drum	S Not Reported		
1403658	7/6/2014	TONAWANDA COKE	7/6/2014	Not Closed	Hydraulic Oil	0.5 Gal.	Soil	Equip. Failure	Not Reported		
1404225	7/18/2014	TONAWANDA COKE	7/15/2014	Not Closed	Unknown Petroleum	Unkown	Soil	Unkown	"7/18/14:SAC TELECON ROB KOLVEK - TONAWANDA COKE. MR.KOLVEK SAID THEY FOUND A GLOB OF UNKNOWN PETROLEUM IN THE ROADWAY NEAR THE COAL STORAGE PILES. MR. KOLVEK SAID THE SOURCE OF THE SPILL WAS UNKNOWN BUT BELIEVES IT IS HISTORIC. THE SIZE OF THE AFFECTED AREA WAS 10 INCHES BY 10 INCHES. THEY SCRAPED UP THE AREA AND TOOK THE CONTAMINATED MATERIAL TO THEIR PROCESSING PAD AND BACKFILLED THE AREA WITH COKE BREEZE MR. KOLVEK SAID THE SPILL HAPPENED AROUND 1:45 PM TODAY."		
1406188	9/9/2014	TONAWANDA COKE - EXHAUSTER BLDG	9/9/2014	3/14/2016	Other	50 Gal.	Soil, Impervious Surface	s Equipment Failure	Not Reported		
1411461	3/7/2015	EAST END OF 7 BELT	3/7/2015	Not Closed	Hydraulic Oil	25 Gal.	Soil	Equipment Failure	"3/7/2015: RIJ TELECON BOB KOLVEK, TONAWANDA COKE, HE SAID THAT ONE OF THEIR FRONT END LOADERS BROKE A HYDRAULIC LINE CAUSING ~25 GALS OF HYDRAULIC OIL TO LEAK-OUT, ALL IN THEIR COAL FIELDTONAWANDA PERSONNEL QUICKLY SCRAPED-UP ALL THE AFFECTED COAL/BREEZE AND PLACED IT ALL ON THEIR RECYCLING PAD, WAITING DISPOSALNONE OF THE HYDRAULIC OIL REACHED ANY WATERWAYS, IT WAS ALL RECOVERED! WILL INSPECT AREA ON MONDAY. 3/9/2015: RIJ AT SITE AT 0900MEET WITH PAT CAHILL & ED DINSMORE, ENVIRONMENTAL MANAGER, AND THEY SHOWN ME WHERE THIS SPILL OCCURED AT IN THEIR COKE FIELDTHEY SCRAPED-UP ALL THE AFFECTED COKE/BREEZE(AN AREA ~10'X2'X7'(~4 TONS), AND PLACED THIS MATERIAL ON THEIR RECYCLING PADTHE CLEAN-UP IS ACCEPTABLEBOB KOLVAK WILL SEND ME THEIR REPORT."		
1506305	9/14/2015	OUTSIDE IN FIELD	9/3/2015	11/8/2016	Unknown Petroleum	Unknown	Soil	Unknown	"9/15/2015: RJJ AT SITE AT 0900 WITH MICHAEL TREMBOWICZ,TCCHE SHOWN & EXPLAINED ME WHERE THERE IS AN AREA ~20'X20', WHERE A TAR-LIKE SUBSTANCE, APPEARS TO HAVE SEEPED-UP FROM THE SUBSURFACE, AND HAS STARTED TO SOLIDIFY ON THE SURFACETHIS AREA IS ALL 'BREEZE' MATERIALMR. TREMBOWICK SAID THAT THEY DIDN'T REPORT THIS ON 9/3/2015, WHEN IT FIRST OBSERVED, BECAUSE THEY DID NOT THINK THIS WAS A 'SPILL'I TOLD HIM THAT I WILL DISCUSS THIS WITH GREG SUTTON, DEC SPILL ENGINEER, AND CALL HIM LATERFOR NOW, THIS AREA HAS BEEN SURROUNDED WITH CONCRETE BARRIERS, TO CONTAIN THISGPS SAID THAT THEY WILL HAVE TO DIG TEST PITS, TO FIND THE EXTENT OF PETROLEUM, AND OBTAIN CONFIRMATORY TCLP/PCB/SVOC/VOC SOIL ANALYTICALI TELECOM MR. TREMBOWICZ AND INFORMED HIMMICHAEL WILL KEEP ME INFORMED. 1/14/2016: RJJ TELECOM MIKE TREMBOWIC, HE SAID THAT THEY HAVE STILL NOT DUG ANY TEST PITS OR SAMPLING, SOI SAID THAT I WILL SEND HIM AN E-MAIL EXPLAINING WHAT WE WILL REQUIRE. 11/7/2016: This area will be managed by R9 DER during the Remedial Investigation of the plant site. Closing and referring to state superfund (PRP Funded). [BMC]"		
0 1509056	12/5/2015	INSIDE COKE FACILITY	12/4/2015	11/10/2016	Tar	5000 lbs.	Groundwater	Human Error	12/2/5/15-SAC INSPECT SITE. MET W/ED DINSMORE AND BRUCE SCHLAGER - TONAWANDA COKE. SPILL WAS DUE TO HUMAN ERROR. WRONG VALVE WAS OPENED. VALVE IS OUTSIDE OF THE DIRE. PRODUCT FLOWED ACROSS THE ROAD AND ONTO SOIL/SEDIMENT ON TOP OF SQUARE/RECTANGULAR CONCERTE STOM CONDUIT. THEY BELIEVE A SMALL AMOUNT MAY HAVE ENTERED STORM SEWER THROUGH INFILITATION. COKE BREEZE WAS PLACED ON PRODUCT TO ABSORB IT. MR. DINSMORE AND MIK. SCHLAGER SAID THEY WILL RE-INTRODUCE IT INTO THEIR PROCESSES APEAT OF THEIR FEET. THE HEAPEND BEAR AND RESENDERS. SAID HAVE THE HEAPEND BEAR WAS SCRAPED TO THE STORM MATER FEETENTION/SEDIMENTATION PONDS FOR MR. SWITHET OI INSPECT. AFTER LEAVING THE STORM RETENTION POND AREA, THE NEXT DESTINATION PONDS. FOR MR. SWITHET OI INSPECT. AFTER LEAVING THE STORM RETENTION POND AREA, THE NEXT DESTINATION PONDS. FOR MR. SWITHET OI INSPECT. AFTER LEAVING THE STORM RETENTION POND AREA, THE NEXT DESTINATION PONDS. FOR MR. SWITHET OI INSPECT. AFTER LEAVING THE STORM RETENTION POND AREA, THE NEXT DESTINATION PONDS. FOR MR. SWITHET OI INSPECT. AFTER LEAVING THE STORM RETENTION POND AREA, THE NEXT DESTINATION PONDS. FOR MR. SWITHET OI INSPECT. AFTER LEAVING THE STORM RETENTION POND AREA, THE NEXT DESTINATION PONDS. FOR MR. SWITH THE SOLD AS A DESTINATION POND AND AREA THE NEXT DESTINATION PONDS. FOR MR. SWITH THE SOLD AS A DESTINATION PONDS. FOR MR. SWITH THE SWITH POND AND AREA THE SWITH THE SWITH POND AND AREA THE SWITH THE SWITH AREA AND AREA THE SWITH THE SWITH AREA SWITH A SWITH THE AREA AND AREA THAT THE THE AREA SWITH THE AREA AND AREA THAT THE THE AREA THE AREA THAT THE AREA AND AREA THAT THE THE AREA THAT THE AREA AND AREA THA		
1 1510463	1/26/2016	TONAWANDA COKE	1/26/2016	1/26/2016	Unknown Material	Unknown	Air	Unknown	"1/26/2016: RIJ AT SITE AT 0745MEET WITH ROBERT KOLVEK,TCC, AND EXPLAINED THIS COMPLAINTHE DROVE ME ALL AROUND THEIR FACILITY TO INVESTIGATE THIS ODOR COMPLAINTWE DROVE AROUND THE PARAMETER AND THROUGHOUT THE INTERIOR OF THIS PROPERTY AND I DID NOT OBSERVE ANY ODORS OF ANY KIND ORIGINATING FROM THIS FACILITYI THEN DROVE ALL ALONG RIVER RD TOWARD I-190 AND I DID OBSERVE THE USUAL PETROLEUM ODOR AT THE NOCO TERMINALTHIS MIGHT BE THE ODOR THIS PERSON OBSERVED ON THE I-190, NEAR THE GRAND ISLAND BRIDGEAFTER MY INVESTIGATION AT TCC, I FOUND NO EVIDENCE OF ANY STRONG ODORS OF ANY KIND AT THIS FACILITYSPILL CLOSED OUT. ***** NOTE, COMPUTER FILE ONLY *****		
2 1600522	4/15/2016	SOIL	4/15/2016	4/15/2016	Hydraulic Oil	11 Gal.	Impervious Surface	Equipment Failure	4/15/2016: RIJ AT SITE AT 1300MEET WITH ROB KOLVAK/MIKE TREMBOWICH,TCC, AND THEY EXPLAINED/SHOWN ME WHERE A MANLIFT HAD A LOOSE FITTING CAUSING "11 GALS. OF HYDRAULIC OIL TO SPILL OUT,ALL ONTO THEIR ASPHAL' ROADWAY,IN FRONT OF THEIR MAIN GATETCC PERSONNEL SPREAD BREEZE ON THIS SPILL, WHICH ABSORBED THE OIL, THEN PLACED IT ON THEIR RECYCLING PAD TO BE PLACED BACK INTO THEIR FACILITY,PER THEIR BUDNONE OF THE OIL REACHED ANY SOIL OR WATERWAYS,IT HAS BEEN ALL RECOVEREDTHE CLEAN-UP IS ACCEPTABLENO FURTHER ACTION NEEDEDSPILL CLOSED OUT. ***** NOTE, COMPUTER FILE ONLY *****		

13	1603606	7/12/2016	TONAWANDA COKE	7/7/2016	11/8/2016	Unknown Petroleum	Unknown	Soil	Unknown	"7/13/2016: MIKE TREMBOWICZ,TCC,TELECON RJJ HE SAID THAT THEY ENCOUNTERED A 3'X6' AREA WHERE THERE IS A TAR-LIKE SUBSTANCE COMING UP FROM THE SUBSURFACE ON THEIR PROPERTY ON 7/7/2016. 8/4/2016: RJJ/BEN MCPHERSON(DER) AT SITE AT 1300MEET WITH MIKE TREMBOWICZ AND HE SHOWN US THIS TAR-LIKE SUBSTANCEIT APPEARS TO BE AN OLD COAL OR ASPHALT-LIKE PRODUCT WHICH COULD HAVE BEEN SPILLED THERE A LONG TIME AGO HOWEVER, WE DO NOT KNOW FOR SUREMIKE WILL KEEP ME INFORMED ON THIS ISSUE. 11/8/2016: BMC notified Alex Czuhanich (DER-Albany) of tar discovery on 7/21/16. Planned to visit site on 8/4/16 with TCC and Mark Sweitzer (Honeywell) to look at tar seep location. Mark was unable to attend due to travel problems. In follow up email (8/8/16) to Mark/Alex stated that the investigation/remediation of this area will be managed by Alex. [BMC]" Not Available
14	1604579	8/5/2016	TONAWANDA COKE	8/5/2016	Not Closed	Waste Oil/Used Oil	12 Gal.	Soil	Equipment Failure	"8/5/2016: RIJ TELECON ROBERT KOLVAK,TCC,HE SAID THAT A DRUM OF WASTE OIL TIPPED OVER SPILLING ~12 GALS. OF WASTE OIL ALL ONTO THEIR STONE DRIVEWAYTCC PERSONNEL WILL SCRAP-UP THIS AFFECTED STONE,PLACED THE SPILL MATERIAL INTO A DRUM, WHICH WILL SENT OUT FOR DISPOSALNONE OF THE OIL REACHED ANY WATERWAYS,IT WILL BE ALL RECOVEREDMR. KOLVAK WILL SEND ME THE DISPOSAL RECEIPTS"
15	1605698	9/6/2016	TONAWANDA COKE CORP FACILITY	9/6/2016	11/4/2016	Hydraulic Oil	0.25 Gal.	Soil	Equipment Failure	"9/6/2016: RJJ TELECON ROBERT KUBERKA, TCC, HE SAID THAT A PIECE OF EQUIPMENT LEAKED OUT ~ 1 QUART OF HYDRAULIC OIL, ALL ONTO THE GROUND, ON THEIR PROPERTYTCC PERSONNEL SCRAPED-OUT THIS SMALL SPILL AND PLACED ALL THE PETROLEUM IMPACTED SOIL IN A CONTAINER, WHICH WILL BE DISPOSED OFNONE OF THE HYDRAULIC OIL REACHED ANY WATERWAYS, IT HAS BEEN ALL RECOVEREDMOR. KUBERKA WILL SEND ME THE DISPOSAL RECEIPTS. 9/12/2016: BMC was on-site to witness the hydraulic line leak that occurred 9/6/16. The leak occurred from a line on an excavator's arm, near the bucket. The line became pinched/over pressurized while digging Test Pit 9 (TP-9)as part of a Site 108 (#915055, OU3) investigation. Hydraulic oil sprayed onto the ground adjacent to the test pit and also leaked into the test pit (but was later excavated and stockpiled on poly). TCC staff did collect some of the leaking fluid directly from the line before it was repaired, but none of the impacted soil was containerized at this time. The test pit identified the soils in this location as being "4 ft of brown soil fill underlain by "8 ft of black fill (apparent cinders or coal/coke fines)."
16	1707802	11/14/2017	TCC - DIESEL SPILL SOUTH OF COKE OVENS	11/14/2017	11/16/2017	Diesel	50 Gal.	Unknown	Equipment Failure	"11/14/17: R. Crossen responds to spill. [BMC] 11/15/17: B. McPherson spoke with Rob Kuberka (TCC). Rob stated that approximately 2.5 cuyd of breeze was used to clean up spill, and has been placed on mixing pad. Due to schedule conflicts, BMC will inspect material and spill 11/16/17 at 0830. 11/16/17: B. McPherson and R. Kuberka (TCC) inspect the site around 0900. Material had already been processed and charged to an oven (in a follow-up voicemail Rob indicated that the material was placed in oven #94). Inspected the spill area. Rob stated that the diesel leaked from a site haul truck. Spilled onto existing breeze material that is located south of the coke ovens near a small brick structure that provides access to underground conveyor belt system. Entire area is covered in breeze. BMC sees no issues with the spill area. 11/16/17: BMC create site map showing approximate location of spill, and upload to D2. 11/16/17: BMC going to close the spill. Spilled material has been recovered and processed in the coke ovens as allowed by a BUD with Division of Materials Management. Any residual diesel impacts will be addressed as part of the Superfund RI/RA."
17	1709090	1/2/2018	TONAWANDA COKE	1/2/2018	1/3/2018	Diesel	50 Gal.	Soil	Equipment Failure	"1/2/18 RMC/ROBERT KUBERKA/PHONE. SPILL BREEZE. COVERED FOR NOW. WILL BE COLLECTED AND USED IN ACCODANCE WITH BUD. NO SPILL UNIT ACTION REQUIRED. CLOSE OUT. 1/12/18: BMC/Rob Kuberka/Phone. Ben asked about how the fuel was spilled. Rob said a fuel line on a yard truck froze and burst. The impacted breeze has been removed and placed on the Mixing Pad. BMC told Rob he is all set."
18	1805815	8/29/2018	TONAWANDA COKE	8/29/2018	8/29/2018	Unknown Material	Unknown	Air	Unknown	"8/29/18:FORWARDED COPY OF SPILL REPORT TO DEC DIV OF AIR. NO FURTHER WORK REQUIRED BY SPILLS."
19	1805973	9/3/2018	TONAWANDA COKE	9/3/2018	9/4/2018	Unkown Hazardous Material	Unknown	Air	Unknown	*09/03/18 RMC/FILE. TALKED TO JIM CHATHAM, OFFICER IN THE FIRE DEPARTMENT. THEIR DISPACTCH RECEIVED SEVERAL CALLS REPORTING A STRUCTURE FIRE AT TONAWANDA COKE. FIRE DEPT REPORTS THAT NO FIRE WAS OBSERVED UPON ARRIVAL AND AFTER A DELAY IN ENTRY WAS OVERCOME, THEY INSPECTED AND WERE TOLD THAT: THE PLANT LOST POWER. BEFORE A GENERATOR COULD BE STARTED THE PROCESS 'RAN AWAY' RESULTING IN A FIRE. ONCE THE POWER WAS RESTORED THE FIRE WAS. NO WATER OR OTHER EXTINGUISHING AGENT WERE USED. THE FIRE DEPARTMENT HAS LEFT THE SCENE. RMC REPORTED ABOVE TO MM WHO FORWARDED TO THE APPROPRIATE DEC UNITS. CLOSE OUT AS A SPILLS ISSUE AS THE MATTER WILL BE ADDRESSED BY OTHER UNITS.

	EDF	Report NYSpills Databas	se Search Results (c)			Spill Incid	ent Details			EDR Database Report Details
	Spill Number	Date Spill	Spill Name	Spill Date	Date Spill	Material Spilled	Amount	Resource	Cause	DEC Memo Comments
20	0210041	Reported 1/4/2003	Not Reported	1/4/2003	Closed 1/7/2003	Not Reported	Not Reported	Affected Not Reported	Not Reported	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was RJJ 1/4/2003: LARRY SITZMAN, DUTY OFFICER, TELECON RJJ AT 0800, Sald THAT THERE IS A FIRE AT THE TONAWANDA COKE PLANT ON RIVER ROAD AND OUR RESPONSE IS REQUESTEDRJJ AT SITE AT 0830MEET WITH PLANT SUPERINTENTENT DANIEL HOOLEY, HE EXPLAINED THAT IN THEIR 2000'UNDERGROUND CONCRETE TUNNAL, A FIRE STARTED ON THE COAL CONVERERTHE FIRE DEPT. KEEP SPRAYING WATER TO PUT OUT THE FIRE, BUT IT TOOK A LONG TIMESINCE THE FIRE/COAL WAS UNDERGROUND, AND ALL CONTAINED IN THE TUNNAL, NONE OF THE COAL OR ANY WATER LEFT THE SITEDAN HOOLEY SAID THAT THEY WILL VAC-UP ALL THE WATER AND THE COAL AND PLACE IN THEIR YARD TO SETTLE, THEN THEY WILL COLLECT THE COAL AND REUSE ITSINCE THE COAL WILL BE REUSED, AND NO RUNOFF OCCURED, NO FURTHER ACTION IS NEEDEDSPILL CLOSED OUT. **** NOTE, THERE IS NO PAPER FILE FOR THIS SPILL ****
21	9306743	9/1/1993	Not Reported	8/10/1993	9/20/1993	Not Reported	Not Reported	Not Reported	Unknown	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MIS 09/20/93; MIS SITE INSPECT. FOUND CONTAMINATED AREA. STAINING ON GROUND. NOT EXCESSIVE FOR THIS TYPE OF OPERATION. "DURING PBS INSPECTION, MR. COWAN
22	1804001	7/11/2018	Not Reported	6/20/2018	Not Reported	Not Reported	Not Reported	Not Reported	Housekeeping	DURING A PBS INSPECTION, 4 AREAS OF PETROLEUM CONTAMINATION WERE OBSERVED: 1)OUTSIDE THE SECONDARY CONTAINMENT FOR PBS TANK #B-1, 2)IN THE MAINTENANCE SHOP WHERE PBS TANKS K01-K05 ARE LOCATED, 3)IN THE
23	0750710	8/16/2007	Not Reported	8/1/2007	12/12/2007	Not Reported	Not Reported	Not Reported	Deliberate	SECONDARY CONTAINMENT FOR PS TANK DOZ, & 9/A PETROLEUM SPILL NEAT THE CES TANK IOS TRANSFERS TATION SECONDARY CONTAINMENT." FOR 16/6/37 MARCHIEL DUSINESS OF THE DUMPING COMPAINANT. REFERRED TO LCOPIED DAY. OC. LOSE OUT AS A SISSUE. NO PAPER IEL. 8/12/07-SAC TELECON ECO JAMES HUNT. DE CLAW ENFORCEMENT/TODAY'S DESCOFFICE, ECO HUNT WAS CONTACTED BY ECO CHUCK LOHR WHO WAS FOLLOWING UP ON COMPAINT. ECO HUNT SAID THAT ECO LOHR RELE. 8/12/07-SAC TELECON ECO JAMES HUNT. DE CLAW ENFORCEMENT/TODAY'S DESCOFFICE, ECO HUNT WAS CONTACTED BY ECO CHUCK LOHR WHO WAS FOLLOWING UP ON COMPAINT. ECO HUNT SAID THAT ECO LOHR RE LEAVING. THE MET HE LEAVING CHARGE AND
24	1312126	3/27/2014	Not Reported	3/27/2014	Not Reported	Tar	60 Gal.	Not Reported	Equipment Failure	"3/28/2014: RIJ TELECON BOB KOLVEK, TONAWANDA COKE, HE SAID THAT YESTERDAY, THEIR FRONT END LOADER BROKE A SEAL ON ONE OF THE HOSES CAUSING "30 GALS OF HYDRAULIC FLUID TO LEAK-OUT, ALL ONTO THE ASPHALT DRIVEWAY, MEAR THEIR TRUCK SCALES TONAWANDA COKE PERSONNEL SPREAD THEIR 'BREEZE' ON THIS SPILL, TO SOAK-UP ALL THE HYDRAULIC FLUID, THEN PLACED ALL THE MATERIAL ON THEIR CONCRETE RECYCLING PAD, WHICH WILL BE STAGED THERE UNTIL THEY OBTAIN A 'BUD' WHICH WOULD THEN ALLOW THEM TO REUSE THIS MATERIAL IN THEIR FACILTYFOR NOW, THIS MATERIAL WILL REMAIN THERE! WILL INSPECT NEXT WEEK. 4/1/2014: RIJ AT SITE AT 1300MEET WITH BOB KOLVEK AND HE SHOWN ME WHERE THE SPILL OCCUREDTONAWANDA COKE PERSONNEL SPREAD THEIR' BREEZE' ON THIS SPILL THEN SCRAPED-UP THE AFFECTED AREA AND PLACED IT ON THEIR CONCRETE RECYCLING PAD(IN THE SOUTHWEST CORNER OF THIS PAD), UNTIL THEY OBTAIN A 'BUD' FROM DECTHE CLEAN-UP IS ACCEPTABLE."
25	1311845	3/19/2014	Not Reported	3/18/2014	11/8/2016	Petroleum	30 Gal.	Not Reported	Equipment Failure	"3/20/2014: RIJ TELECON BOB KOLVEK,TONAWANDA COKE,HE SAID THAT TUESDAY, 3/18,AT 1400 HRS, ONE OF THEIR HYDRAULIC MAN-LIETS BROKE A HYDRAULIC LINE,CAUSING "5 GALS. OF HYDRAULIC OILT OLEAK-OUT, ALL ONTO THE GROUND WHICH BY COVERED WITH HIER COKE FINES(REEZE) THEY USED THEIR REZAVATOR AND SCRAPED-UP ALL THE AFFECTED AREA AND THEN PLACED IT ON THEIR COKE RECYCLING CONCRETE PAD, WHICH WILL BE USED IN THEIR FACILITY LALSO INFORMED MR. KOLVEK THAT THIS SPILLS HOULD HAVE BEEN REPORTED WITHIN 2 HOURS, NOTA OAY LATER HE SAID THAT THEY WILL REPORT ANY FUTURE SPILLS WITHIN 2 HOURS, NOTA OAY LATER HE SAID THAT THEY WILL REPORT ANY FUTURE SPILLS WITHIN 2 HOURS, NOTA OAY LATER HE SAID THAT THEY WILL REPORT ANY FUTURE SPILLS WITHIN 2 HOURS, NOTA OAY LATER HE SAID THAT THEY WILL REPORT ANY FUTURE SPILLS WITHIN 2 HOURS, NOTA OAY LATER HE SAID THAT THEY WILL REPORT ANY FUTURE SPILLS WITHIN 4 HE SHOWN ME WHERE THIS SPILL SAID THAT SITE AT 1300 MEET WITH HOR OR KOLVEK AND HE SHOWN ME WHERE THIS SPILL BEGIN THE REPORDS ON THE SHOWN ME WHERE THIS SPILL READ THAT THEY WILL SEND THAT THEY WILL BEGIN THE REMEDIATION OF THE PROPEDUL SHIP STANDAY. HE AFFECTED AREA AND PLACED THIS WEEK,IF GPS APPROVES IT (THIS SALS IN KLUDES SPILL #1 207205) 10/6/2015: ROBERT ADAMS, CONSESTOGA-ROVERS & ASSOCIATES ENGINEER, TELECON MICH SHAPPEN AND THAT THEY WILL BEGIN THE REMEDIATION OF THE PROPERTY, WERE THE APPROVED WORKPLAN, FROM GPS, SOON AND HE WILL CLALL ME WITH AT LEEAST, DAYS NOTICE OF THIS WORK IN 1/3/2015: RUBBERT ADAMS, CONSESTOGA-ROVERS & ASSOCIATES ENGINEER, TELECON MICH SHAPPEN AND THAT THEY WILL BEGIN THE REMEDIATION OF THE PROPERTY, PET THE APPROVED WORKPLAN, FROM GPS, SOON AND HE WILL CLAST, SO AND THE APPROVED WORKPLAN, FROM GPS, SOON AND HE WILL CLAST, SO AND STORE AND ASSOCIATES ENGINEER, TELECON MICH SHAPPEN AND ASSOCIATES ENGINEER, TELECON MICH SHAPPEN AND ASSOCIATES ENGINEER, TELECON BY THE THE SHAPPEN AND ASSOCIATES ENGINEER AND ASSOCIATES ENGINEER, TELECON MICH SHAPPEN AND ASSOCIATES ENGINEER AND ASSOCIAT

26 08	890582	7/8/2008	Not Reported	7/8/2008	7/11/2008	Hydraulic Oil	5 Gal.	Not Reported Other	"07/08/08 RMC/FILE. DOA WILL FOLLOW UP. NOTIFIED DAN KING, DOW ALREADY INSPECTED. NO SPILL ACTION REQUIRED. AT THIS TIME. 7/8/08:SAC NOTIFIED BY BOB SMYTHE - DEC/DIV OF WATER, REGARDING INCIDENT. SAC LET MR. SMYTHE KNOW, SPILLS HAD BEEN CONTACTED BY DIV OF AIR REGARDING THE FIRE. MR. SMYTHE SAID HE CALLED THE FACILITY AND WAS TOLD THAT THERE WAS NO RUNDEF DISCHARGE BUT AN ACCUMULATION OF WATER WITHOUT A SHEEN. SAC SPOKE TO DKK REGARDING MR. SMYTHE'S AND CHERYL WEBSTER'S (DIV OF AIR) COMMENTS. BASED ON THEIR COMMENTS, NO ONE FROM DEC HAD BEEN TO THE SCENE. DKK CALLED MR. SMYTHE AND MS. WEBSTER TO CONFIRM THEY WERE NOT AT THE SITE TODAY. SINCE NO ONE HAD BEEN TO THE STIE DKK REQUESTED SAC INSPECT. SAC INSPECT. SITE. MET W/MARK KAMHOLZ - TONAWANDA COKE. MR. KAMHOLZ SAID THEY WERE IN THE PROCESS OF SCRAPPING AN OLD RAILROAD CAR WHEN A SPARK FROM THE TORCH TRAVELED AND IGNITED THE COAL DUST ARAOUND AN OLD OUT OF SERVICE RIVETED TANK. WATER FROM THE EXTINGUISHING REMAINED PONDED IN THE DIKE AREA. NO PETROLEUM SHEEN NOTED. MR. KAMHOLZ SAID THAIT THERE WOULD BE NO EFFORT TO COLLECT THE WATER AND IT WOULD BE ALLOWED TO DISSIPATE. SAC CALLED DKK AND LEFT MESSAGE OF REGARDING RESULTS OF INSPECTION. 7/9/08:SAC SPOKE TO BOB SMYTHE TO NOTIFY HIM OF INSPECTION RESULTS. SOF ROVE TO DKK. OKK SERIFEED DAN DAVID - DEC REGION 9 ENV. QUALITY ENGINEER REGARDING RESULTS OF INSPECTION. SINCE INCIDENT INVOLVES NON-PETROLEUM MATERIAL AND THE WATER WAS CONTAINED W/NO OFF-SITE IMPACT, NO FURTHER FOLLOW UP REQUIRED BY SPILLS. 7/11/08:SAC SENT COPY OF PICTURES TO BOB SMYTHE. NO FURTHER WORK REQUIRED."
27 14	400418	4/12/2014	Not Reported	4/12/2014	Not Reported	Hydraulic Oil	30 Gal.	Not Reported Not Reported	"04/12/14 RMC/FILE. CALLED ROBERT KOLVEK TO OBTAIN UPDATE. SEAL FAILURE ON LOADER. CLEAN UP UNDERWAY. TO STOCKPILE AT STORAGE AREA. UPDATED GS. RMC TO INSPECT MONDAY 04/14/14 RMC/ROBERT KOLVEK, RKOLVEK@TONAWANDACOKE.COM/SITE. CLEAN UP WAS COMPELTED. HAVE 2 TO 3 YARDS STOCKPILED IN THE STORAGE AREA. LOCATED EAST END OF COAL FIELD HEAD OF 7. 02/13/15 RMC/FILE. RMC CHECKED WITH LEGAL. PRP HAS YET TO DISPOSE OF THE WASTE GENERATED. UPDATE 5/30/15. 08/25/15 RMC/FILE. STILL IN LEGAL. UPDATE 1/1/2016 09/19/16 RMC/FILE. STILL IN LEGAL UPDATE 1/1/17 11/07/16 RMC/FILE. PER LEGAL SPILL TRANSFERRED TO BIM."
28 1	310569	1/31/2014	Not Reported	1/31/2014	6/4/2014	Coal Tar	Not Reported	Not Reported Equipment Failure	"2/4/14:SAC INSPECT SITE. MET W/BOB KOLVEK - TONAWANDA COKE. MR. KOLVEK SAID THERE WAS NO COAL TAR SPILL AND THAT THERE IS NO TAR IN THIS AREA. MR. KOLVEK SHOWED SAC LOCATION WHERE EXPLOSION TOOK PLACE. FLOOR INSIDE BUILDING WAS DRY. THERE WERE SOME AREAS OUTSIDE THAT WERE BLACK WITH A SHEEN ON THE WATER PUDDLES. BLACKISH AREAS AND SHEEN APPEARED TO BE AS A RESULT OF COKE DUST. NOTE TO FILE: PUBLIC NOTIFICATION WAS MADE THROUGH OTHER CHANNELS AS FIRE DEPT AND MEDIA WERE AWARE OF THE INCIDENT PRIOR TO DEC NOTIFICATION. 6/3/14:SAC DISCUSS STATUS OF SPILL FILE WITH GPS. GPS REQUEST SAC CLOSE FILE. NO FURTHER ACTION REQUIRED. NO PAPER FILE."
29 1	803893	7/11/2018	Not Reported	6/20/2018	Not Reported	Sodium Hydroxide	Not Reported		"NOTE TO FILE: SPILL WAS INTO SECONDARY CONTAINMENT DIKE W/VERY LITTLE LEACHING OUT OF THE CONTAINMENT. SPILL AREA IN THE MIDDLE OF PLANT AND NOT AN IMMEDIATE ENVIRONMENTAL THREAT. THEREFORE, NO MANDATORY PUBLIC NOTIFICATION.""DURING A CBS INSPECTION, A RELEASE OF SODIUM HYDROXIDE (50% concentration) FROM TANK #103 WAS OBSERVED. THE DEC CBS INSPECTOR (PETER REUBEN) ESTIMATED 6-8 OF PRODUCT WAS RELEASED FROM THE TANK AND IN THE SECONDARY CONTAINMENT. THE INSPECTOR WALKED AROUND THE SECONDARY CONTAINMENT AND OBSERVED THAT THE PRODUCT IN THE SECONDARY CONTAINMENT WAS SLOWLY BEING RELEASED THROUGH THE BASE OF THE OUTER WALL."

⁽a) NYSDEC Spills Incidents Database accessed 9/25/2019. Search parameters for 3875 River Rd, Erie County, Tonawanda, NY for dates between 9/1/1979 and 9/24/2019.

(b) "DEC Memo" comments (if available) from EDR Database report for 3875 River Rd, Erie County, Tonawanda, NY dated 8/23/2019. EDR database matched to Spill Number.

⁽c) NY Spills EDR database search results for 3875 River Road, Erie County, Tonawanda, NY dated 8/23/2019. Records/details shown if not included in the NYSDEC Spills Incident Database referenced in Note (a) above.



Page	1	of	8
1 450		O.	•

Permit No.	331
Modified D	ate:

TOWN OF TONAWANDA

INDUSTRIAL SEWER CONNECTION PERMIT

Company Name:	Riverview Innovation Technology Campus
Division Name (if Applicable)	
Mailing Addrage:	333 Ganson Street
Mailing Address:	Street or P.O. Box
	Buffalo, NY 14203
	City, State and Zip Code
Facility Address:	3875 River Road
Lacinty Fiduless	Street or P.O. Box
	Tonawanda, NY 14150
This permit is granted in accordan	toring requirements, and other conditions set forth herein. The application filed on October 15, 2019 I with the application filed on october 15, and in conformity with plans, specifications, and in support of the above application.
	Effective Date: November 1, 2019
	Expiration Date: September 30, 2022
Permit No331	
Date: 119 Signed:	Paul Morrow
	Town of Tonawanda
	Pretreatment Coordinator

Page 2 of 8	
Permit No. 331	
Modified Date:	

WASTEWATER STREAMS AUTHORIZED FOR DISCHARGE

WA	ASTEWATER STREAM	APPROXIMATE FLOW(GPD)	YES	NO
A.	Sanitary	2,000	<u>X</u>	
B.	Boiler Blowdown			
C.	Treated Stormwater	53,000	_X	
	from Diked/Bermed Areas			
D.	Equipment Decon water from	Investigation 2,000	<u>X</u>	
E.	Other	*		

Permit may have additional wastewater streams added at a later date after results of any Environmental Investigation is received by this office. Each waste stream must be approved by this office and permit may be modified. All Equipment Cleaning water and water from dikes/ bermed areas must be treated by the same equipment the EPA used on discharge water.

PART 1 - WASTEWATER DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

A. LOCALLY DERIVED LIMITATIONS

The industrial user shall comply with the following locally derived effluent limitations effective as of: November 4, 2019

MONITORING LOCATION: Sampling Manhole near Guard Gate
SAMPLE TYPE: 24 Hour Composite for all parameters except pH and SGT-HEM which will be
grabs

PARAMETERS	SAMPLE FREQUENCY	LIMIT	PURPOSE
~~	N 41	5.0-9.5 SU	Compliance
pH	Monthly		
SGT-HEM	66	100 ppm	66
Total Cyanide	66	1.1 mg/l	٠.
Biochemical Oxygen Deman	nd "	250 mg/1	Surcharge
Total Suspended Solids	44	66	"
Total Phosphorus	46	6.0 mg/l	66
Total Mercury	46	0.001 mg/l	Compliance
Total Arsenic	66	0.5 mg/l	Compliance
Total Selenium	46		Compliance ¹
Total Recoverable Phenolic	S 66		Monitoring
Priority Pollutant PAH's (62			46
Total Ammonia		No. 102 are 103 103 are 104 are 104 fine	66

SGT-HEM= Silica Gel Treated Hexane Extractable Materials

Flow must be reported by the 10th day of the month for the preceding month.

Note: The complete list of discharge limitations for dischargers to the Town Treatment Plant is contained in the Town's Local Law 2-2000. On the basis of the application and previous monitoring, parameters deemed applicable to this discharge have been excerpted and their limitations included above. The discharger should be aware that all other limitations apply and should consider all such limitations when considering process changes or plant modifications.

	Page 3 of 8
	Permit No: 331
	Modified Date:
PART 1 - WASTEWATER DISCHARGE LIMITATIONS AND	MONITORING
REQUIREMENTS (Continued)	

B. <u>USEPA CATEGORICAL PRETREATMENT STANDARDS</u>

The industrial user covered by this permit has been identified as may be subject to the following USEPA categorical pretreatment standard: 40 CFR Part, 420 entitled, Iron & Steel, By-product Coke making, Merchant. Under those regulations, the permitee is required to meet the following limitations and perform the following monitoring:

No discharge of Categorical wastewater is allowed by this permit.

Permit No.: 331

PART II - SPECIAL CONDITIONS/COMPLIANCE SCHEDULE

1. The Industrial User shall develop, within 6 months of the effective date of this permit, an accidental spill prevention/slug control/SPCC plan(s) to eliminate or minimize the accidental or slug discharge of pollutants into the sewer system, which could have an effect on the Town's treatment plant, sludge, or cause the Town to violate its SPDES permit.

PART III - REPORTING REQUIREMENTS

1. All Industries requiring submittal of self-monitoring reports (SMR's) must submit all laboratory results on all discharged samples. If a lab analysis was performed using an EPA approved test method, then those results must be included in the SMR. Persons signing SMR's must be a responsible company official, ie; owner, corporate manager, or supervise more than two hundred fifty (250) employees. Any of the above may appoint a company representative to sign SMR's but written notice must be supplied to this office authorizing said employee to sign.

The following statement will be required on all SMR's and baseline monitoring reports (BMR):

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation."

- 2. If an Industrial User knows in advance of the need for a bypass, it shall submit prior notice to the Town, if possible at least ten days before the date of the bypass. An Industrial User shall submit oral notice of an unanticipated bypass or slug discharge that exceeds applicable Pretreatment Standards to the Town within 24 hours from the time the Industrial User becomes aware of the bypass or slug discharge. A written submission shall also be provided within 5 days of the time the Industrial User becomes aware of the bypass or slug discharge. The written submission shall contain a description of the bypass or slug discharge and its cause; the duration of the bypass/slug discharge, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass/slug discharge. The Town may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- 3. The Industrial User shall notify the Town 30 days prior to the introduction of new wastewater or pollutants or any substantial change in the volume or characteristics of the wastewater being introduced into the POTW from the User's industrial processes. The Industrial User Is required to notify the Town immediately of any changes to its facility affecting it potential for slug discharge.

r	. +	N	1 221	
Ferm	IT	NHIT	iher331	

- 4. Any upset experienced by the Industrial User of its treatment that places it in a temporary state of non-compliance with wastewater discharge limitations contained in this permit or other limitations specified in the Town's Ordinance shall be reported to the Town within 24 hours of first awareness of the commencement of the upset. Immediate resampling for the non-compliance pollutant shall begin. A detailed report shall be filed within 5 days.
- 5. The Industrial User is required to submit to the Town reports on the results of its sampling of the pollutants specified in Part I of this Permit. This report shall also contain monthly flows.
- 6. Analytical procedures must be performed in accordance with 40 CFR Part 136. Additional pollutants not contained in Part 136 must be performed using validated analytical methods approved by EPA (40 CFR 403.12 [g] [4]).
- 7. All self-monitoring reports shall be submitted to the following address by the 25^{th} day of the month following the reporting period:

Paul Morrow, Pretreatment Coordinator Wastewater Treatment Facility Two Mile Creek Road Tonawanda, New York 14150

PART IV - STANDARD CONDITIONS

- 1. The Industrial User shall comply with all the general prohibitive discharge standards in Article IV of the Local Law 2-2000.
 - a. BOD 250 mg/l, SS 250 mg/l, P 6 mg/l are not to be construed as discharge limits of the above pollutants but as a baseline for generating abnormal sewer charges. Permitees that sample more frequently than required for surchargeable parameters and have a greater then 30% variation in flow per reportable day will have a flow averaged used for surcharge calculation.

2. RIGHT OF ENTRY

The Industrial User shall, after reasonable notification by the Town, allow the Town or its representatives, exhibiting proper credentials and identification, to enter upon the premises of the User, at all reasonable hours, for the purposes of inspection, sampling, or records inspection. Reasonable hours in the context of inspection and sampling includes any time the Industrial User is operating any process which results in a process wastewater discharge to the Town's sewerage system.

3. RECORDS RETENTION

The Industrial User shall retain and preserve for no less than three (3) years, any records, books, documents, memoranda, reports, correspondence and all summaries thereof, relating to monitoring, sampling and chemical analysis made by or in behalf of the User in connection with its discharge.

Permit No.	331
FOILIR NO.	221

a) All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the Town shall be retained and preserved by the Industrial User until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

4. CONFIDENTIAL INFORMATION

Except for data determined to be confidential under Article VII, Section 4 of the Town's Ordinance, all reports required by this permit shall be available for public inspection at the office of the <u>Pretreatment Coordinator</u>, <u>Wastewater Treatment Facility</u>, <u>Two Mile Creek Road</u>, <u>Tonawanda</u>, <u>New York 14150</u>.

5. RECORDING OF RESULTS

For each measurement or sample taken pursuant to the requirements of this permit, the user shall record the following information:

- a) The exact place, date and time of sampling;
- b) The dates the analyses were performed;
- c) The person(s) who performed the analyses;
- d) The analytical techniques or methods used, and
- e) The results of all required analyses.
- f) Where sanitary sewer discharge is measured by a mechanical or electronic device, accuracy of device shall be certified correct every year by the manufacturer
- g) Where sanitary sewer discharge is measured as consumed water, the water meter must be certified as per the following schedule: meter size 5/8 to 1 inch every ten years, meter size 1 inch to 4 inch every five years, and meter size 4 inches and larger every year.

6. DILUTION

No Industrial User shall increase the use of potable or process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit

7. PROPER DISPOSAL OF PRETREATMENT SLUDGES AND SPENT CHEMICALS

The disposal of sludges and spent chemicals generated shall be done in accordance with Section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

Permit No.	221
Permit INO.	331

8. TOXIC SUBSTANCES

All waters shall be maintained free of toxic substances in concentrations that are toxic to or produce detrimental physiological responses in human, plant, animal, or aquatic life.

9. SIGNATORY REQUIREMENTS

All reports required by this permit shall be signed by a principal executive officer of the User, or his designee.

10. REVOCATION OF PERMIT

The permit issued to the Industrial User by the Town may be revoked when after inspection, monitoring or analysis it is determined that the discharge of wastewater to the sanitary sewer is in violation of Federal, State, or local laws, ordinances, or regulations. Additionally, falsification or intentional misrepresentation of data or statements pertaining to the permit application or any other required reporting form, shall be cause for permit revocation.

11. LIMITATIONS ON PERMIT TRANSFER

Transfer of permit. Industrial waste permits are issued to a specific user for a specific operation. In the event of any change in ownership of the industrial facility, the permittee shall notify the new owner of the existence of the permit by letter, a copy of which shall be forwarded to the Pretreatment Administrator 30 days prior to change of ownership. A new industrial waste permit must be issued to the new owner.

12. FALSIFYING INFORMATION OR TAMPERING WITH MONITORING EQUIPMENT

Knowingly making any false statement on any report or other document required by this permit or knowingly rendered any monitoring device or method inaccurate, may result in punishment under the criminal law of the Town, as well as being subjected to civil penalties and relief.

13. MODIFICATION OR REVISION OF THE PERMIT

- a) The terms and conditions of this permit may be subject to modification by the Town at any time as limitations or requirements as identified the Town's Ordinance, are modified or other just cause exists.
- b) This permit may also be modified to incorporate special conditions resulting from the issuance of a special order.
- c) The terms and conditions may be modified as a result of EPA promulgating a new federal Pretreatment standard.
- d) Any permit modifications which result in new conditions in the permit shall include a reasonable time schedule for compliance if necessary.

Y . 3 T	221
Permit No:	331
I Cimit 140.	J_1

14. DUTY TO REAPPLY

The Town shall notify a User sixty (60) days prior to the expiration of the User's Permit. Within thirty (30) days of the notification, the User shall reapply for re-issuance of the permit on a form provided by the Town.

15. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

16. LIMITATIONS

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Federal, State or Local regulations.

17. ENFORCEMENT OF THE SEWER USE LAW AND PERMITS

The Town has developed and received USEPA approval of its Enforcement Response Plan which details the standard responses to be taken by the Town when it encounters various violations of the Sewer Use Law or the terms of this permit. Copies of this document are available at the office of the Pretreatment Administrator. Town of Tonawanda Sewer Use Ordinance 2-2000 Article VI 165-33 allows for punitive Administrative fines of up to \$5,000 per day. The Town of Tonawanda may also maintain an action or proceeding in the name of the Town of Tonawanda in a court of competent jurisdiction for injunctive relief of any violation Article 6 of the Town Sewer Use Ordinance 2-2000

Footnote 1- The Town of Tonawanda Wastewater Treatment Plant SPDES permit states that the Pretreatment Program will, "Require through Permits each SIU to collect one 24 hour flow proportioned sample composite (where feasible) effluent sample every six months and analyze each of those samples for all priority pollutants that can reasonably be expected to be detectable in that discharge at levels greater than level found in domestic sewage." Upon historical data review analysis marked with this footnote were added to your permit to comply with our SPDES permit.

C – Surface Water Sampling Data



Outfall 00																															
PARAMETER		MER TCC PE																ONCENTRAT													
SAMPLE DATE >				23	i-Oct-18	Dec. 12 an	1 13, 2018	Feb. 5 an	d 6, 2019	Feb. 26 an	d 27, 2019	Mar. 19 a	nd 20, 2019	Apr. 16 a	nd 17, 2019		- 22, 2019			Jul. 29 an	d 30, 2019			Sept. 23 a	nd 25, 2019	29-4	Oct-19	26-	Nov-19	17-D	ec-19
	MINIMUM	MAXIMUM		Resu	t/Duplicate	Result/D	uplicate	Result/E	uplicate	Result/I	Duplicate	Result/	Duplicate		Duplicate		Duplicate	Result/Du	plicate	Result/I	Duplicate	Result/I	Duplicate	Result/	Duplicate	Result/	Duplicate	Result	Duplicate	Result/I	Ouplicate
Flow		Monitor Only	GPM	NS		1,410		309		107		105		157		72		81		NM		NM		NM		NM		NM			
Flow		Monitor Only	GPD			2,030,000		445,000		154,000	0	151,000	0	226,000	0	103,000		117,000													
рН	6.0	9.0	S.U.	8.35		7.82		8.3		6.3		7.1		7.3		7.2		7.4		7.6		7.0		6.3							l l
Total Suspended Solids (Net)		50	mg/l	NS		0		33		35		24		25		10 U		10 U		10 U	10 U	10 U	10 U	10 U	10U						
Oil & Grease (Net)		15	mg/l	<5.8U		<5.7U		5.4 U		6.0 U		5.5 U		5.9 U		5.6 U		5.8 U		5.9 U	5.9 U	5.4 U	5.7 U	5.9 U	5.8 U	5.6UJ	5.6UJ	5.4U		5.7U	
Temperature		102	°F	56.6		39.7		50.2		35.6		48.5		47.1		70.7		72.0		73		67.3		73.4							
Ammonia (as N)		1.5	mg/l	<0.1U		<0.10U														0.86	0.88									3.6	
Ammonia (as N)		Monitor Only	Lb./Day	N.D.		N.D.		0	0	0	0	0	0	0	0	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0
Total Cyanide		0.03	mg/l	<0.0010	J	<0.01U														0.01 U	0.01 U									0.05	
Total Cyanide		Monitor Only	Lb./Day	N.D.	0	N.D.		0	0	0	0	0	0	0	0	0	0	0	0	N.D.	N.D.	0	0	0	0	0	0	0	0	0	0
Phenol (Net)		0.03	mg/l	NS		0														0.01 UJ, L										.011L	
Phenol (Net)		Monitor Only	Lb./Day	NS	0	N.D.		0	0	0	0	0	0	0	0	0	0	0	0	N.D.	NM	0	0	0	0	0	0	0	0	0	0
Benzene		0.0015	mg/l	< 0.0050	J	<0.005U														5.00 U	5.00 U									0.009	
Benzene		Monitor Only	Lb./Day	N.D.	0	N.D.		0	0	0	0	0	0	0	0	0	0	0	0	N.D.	N.D.	0	0	0	0	0	0	0	0	0	0
Benzo(a)pyrene		0.002	mg/l	NS		NS																								U	
Benzo(a)pyrene		Monitor Only	Lb./Day	NS	0	NS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naphthalene		0.003	mg/l	< 0.0051	5	<0.0054U														0.005	0.00529									0.012	
Naphthalene		Monitor Only	Lb./Day	N.D.	0	N.D.		0	0	0	0	0	0	0	0	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0
Toluene		0.003	mg/l	< 0.0050	J	< 0.005U														0.005 U	0.005 U									U	
Toluene		Monitor Only	Lb./Day	N.D.	0	N.D.		0	0	0	0	0	0	0	0	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0
Fluorene		1.5	mg/l	NS		0.13														0.68	0.67									0.63	
Surfactant		0.5	mg/l	NS		<0.1U														0.1 U	0.1 U									U	
Iron		4	mg/l																									7.63		13.6	

Page 1 of 2

Outfall 00	2																										
PARAMETER	FORMER TCC P REQUIREME														ENTRATION												
SAMPLE DATE >	>		23-Oct-18 23-Oct-18	Dec. 12 an	d 13, 2018	Feb. 5 and	d 6, 2019 Feb. 26 and 27, 2019	Mar. 19 a	nd 20, 2019 Apr. 16 a	nd 17, 2019	Mag	y 20 - 22, 2019	Jun. 18 -	20, 2019	Jul. 29 and	30, 2019	Aug, 28 and 29, 2019	Sept. 23 and 25, 2019			26-N	ov-19	17-D	ec-19		Summary	
	MINIMUM MAXIMUM	UNITS	Result/Duplicate	Result/E	uplicate	Result/D	Ouplicate Result/Duplicate	Result/	Duplicate Result	Duplicate	Re	esult/Duplicate	Result/I	Duplicate	Result/Du	aplicate	Result/Duplicate	Result/Duplicate	Result/I	Duplicate	Result/I	Duplicate	Result/I	Duplicate	Maximum	Minimum	Average
Flow	Monitor Only	GPM	NS	1 inch		1 inch	1 inch	1 inch	1 inch		1 in	nch	1 inch		NM										0	0	0
Flow	Monitor Only	GPD	NS																						0	0	0
рН	6.0 9.0	S.U.	7.99	6.92		8.2	7.1	7.2	6.7		7.4	4	7.8		7.3										8.2	6.7	7.4
Temperature	Not on TCC	°F	50.9			48.7	NM	50.9	47.1		64.	.2			70.9										70.9	47.1	55
Total Suspended Solids	50	mg/l	NS	<10U		50	11	11	10 U		10	U	10 U												50	11	24
Iron	4	mg/l	0.1	0.74		3.44	1.35	0.79	0.759	0.702	0.40	69 0.860	0.187	0.0595							1.02	0.196	0.459	0.498	3.44	0.060	0.775
Cyanide	0.1	mg/l	<0.01U	0.021L																	0.042	.010U	0.022	0.022	0.042	0.022	0.0287
Copper	0.2	mg/l	<0.01U	NS																	0.010U	.020U					
Nickel	0.5	mg/l	<0.02U	0.042																	0.020U	.020U			0.042	0.042	0.042
Zinc	0.5	mg/l	<0.02U	0.142																	0.406	0.0207	0.035	0.0349	0.406	0.0207	0.12772
Surfactant	0.5	mg/l		<0.10U																			U				
Aluminum	1	mg/l	0.25	0.147																	0.247	.100U	0.16	0.164	0.25	0.15	0.19
Manganese	1	mg/l	0.047	0.818																	0.289	0.126	0.252	0.253	0.818	0.047	0.298
Outfall 00 PARAMETER	FORMER TCC P REQUIREME								QUANTITY OR C	GEMENT	PERIO	D)															
SAMPLE DATE >	MINIMUMMAXIMUM	4 LINITS	23-Oct-18 23-Oct-18 Result/Duplicate		d 13, 2018 Juplicate	Feb. 5 and Result/D	d 6, 2019 Feb. 26 and 27, 2019 Publicate Result/Dublicate			nd 17, 2019 Duplicate		y 20 - 22, 2019 esult/Duplicate	Jun. 18 -	20, 2019 Duplicate	Jul. 29 and 3 Result/Du		Aug, 28 and 29, 2019 Result/Duplicate	Result/Duplicate									
Flow (May 1 to Oct. 31)	Monitor Only	GPM	NM NM	NM	apricate	NM	NM NM	NM	NM NM	Dapricate	NN	- '	NM	apricate	NM	apricate	NM NM	NMR NMR									
Flow (May 1 to Oct. 31)	Monitor Only	GPD																									
Temperature (First Bi-monthly) (May 1 to Oct. 31)	Monitor Only	°F	57	41		43.2	39.9	49.1	50.9		66.	i.5	72.5		70.9		71.3	73.9									
Temperature (Second Bi-monthly) (May 1 to Oct. 31)	Monitor Only	°F																									
Mercury	50	ng/l		<50U				50U																			
<u></u>	I	-	1	-	-			+		_							1 1	1									

7.6

7.7

7.3

7.1

7.4

Monitor Only COMMENTS AND EXPLANATION OF ANY VIOLATIONS

S.U. 8.44

6.7

7.2

7.5

7.1

Notes:

1. 1 mg/l - 8.345 x 10 ⁶ pounds per gallon

2. Detection Limit greater than former discharge standard.

3. Calculated Value

Page 2 of 2 3/6/2020 Data Tracker

D – Tanks, Buildings and Structures



Town of Tonawanda, New York

Rail Cars					
Designation	Туре	Volume	Former Contents	(Note: Lo	Location ocation at time of Identification, Some have been removed)
RC01	Tank		Unknown	X33	Along Southern Property Line, East of Wastewater Treatment
RC02	Tank		Unknown	X33	Along Southern Property Line, East of Wastewater Treatment
RC03	Tank		Unknown	Y32	Along Southern Property Line, East of Wastewater Treatment
RC04	Tank		Empty	AP22	Along Southern Border, south of east end of Thawing Shed, Partially buried
RC05	Gondola		Empty	AQ14	East End, Near 110
RC06	Gondola		Empty	AP14	East End, Near 110
RC07	Gondola			AG15	South Side of Thawing Shed
RC08	Gondola			AH15	South Side of Thawing Shed
RC09	Gondola			AI15	South Side of Thawing Shed
RC10	Tank		Liquid, suspected rain water	AS3	By Gas Ball
RC11	Gondola			BA2	Northeast portion of Site, Northwest of Site 110
RC17	Tank (Stainless Steel Lined?)		North Side, Lined with SS, Was Spray Oil Tank	M2	North Site Boundary, North of Warehouse
RC18	Locomotive			L2	North, Near Maintenance Shop
RC28	Locomotive			К3	North, Near Maintenance Shop
RC29	Gondola			D14	At Coke Truck Loading Area
RC30	Gondola			Z11	Near Coke Dock

ST Tanks	DEC No.					
Designation		Туре		Former Contents		Location
			10 Feet Diameter by	Unknown, Currently contains liquid toa depth of 1/3		
ST01		Horizontal	25 Feet Long	of the diameter of the tank.	G11	Southern Side of Light Oil Production
ST02		Horizontal	10 Feet Diameter by 25 Feet Long	"Out of Service" Empty	G11	Southern Side of Light Oil Production
ST03		Horizontal	33000	Out of Service	L7	Southeast of Light Oil Building
ST04	PBS - B01	Horizontal	33000	Diesel	M7	Southeast of Light Oil Building
ST05	PBS - B10	Vertical	967 Gallons	Gasoline	M8	Southeast of Light Oil Building
ST06	CBS - B03	Horizontal	500	Sealing Mud (Clay and anti-freeze)	R10	Near Coal Bin and Charging Building
ST07	PBS - D02	Horizontal (Former UST)	10000	Waste Oil	P13	Near Coal Breaking Building
ST08		Poly Tank	1900 Gallons	<1 foot in bottom	AA8	South of Boiler House
ST09	CBS - 103	Fiberglass Caustic Tank	<1,000 Gallons	Caustic	AD6	North of Boiler House next to Stacks
ST10		Steel	4000	Removed Before Property Transfer	AC5	North of Boiler House immediately north of Stacks
ST11	PBS - E02	Double-walled Steel	1000	Diesel - NOCO Tank Leased to USEPA - Removed	Y2	North Property Line, North of Fire Water Tank
ST12	PBS - K01	Oil Storage, Horizontal	275 Gallons	Contents recycled by NOCO	15	Oil House
ST13	PBS - K02	Oil Storage, Horizontal	275 Gallons	Contents recycled by NOCO	15	Oil House
ST14	PBS - K03	Oil Storage, Horizontal	275 Gallons	Contents recycled by NOCO	15	Oil House
ST15	PBS - K04	Oil Storage, Horizontal	275 Gallons	Contents recycled by NOCO	15	Oil House
ST16	PBS- K05	Oil Storage, Horizontal	275 Gallons	Contents recycled by NOCO	15	Oil House
ST17		Oil Storage, Horizontal	275 Gallons	Contents recycled by NOCO	15	Oil House
ST18		Oil Storage, Horizontal	275	Contents recycled by NOCO	15	Oil House
ST19		Oil Storage, Horizontal	275	Contents recycled by NOCO	15	Oil House
ST20		Water Treatment, Vertical AST	10000	Out of Service in 2010, Unknown	G32	Water Treatment, Southwest Corner of Site
ST21		Water Treatment, cut to 10 feet, AST	4000000	Fuel converted to Water Treatment	F34	Water Treatment, Southwest Corner of Site
ST22		EQ Tank	6,000,000 Gallons	Fuel converted to Water Treatment	134	Water Treatment, Southwest Corner of Site
ST23		Water Treatment	6,000,000 Gallons	Some Sludge and Tar (1 Foot each)	K34	Water Treatment, Southwest Corner of Site
ST24		Water Treatment	500000	Out of Service	M33	Water Treatment, Southwest Corner of Site
ST25		Tar		Unknown	L7	Unknown, Tar and Liquor
ST26		Tar		Unknown	M7	Unknown, Tar and Liquor
ST27		Tar		Empty	U5	North of Tar Handling, not installed

Table D-1
Tanks and Process Vessels

CONFIDENTIAL

Former Tonawanda Coke Plant Site Town of Tonawanda, New York

PT Tanks					
Designation	Туре	Volume	Former Contents		Location
PT01	Horizontal	8 Feet Diameter by 27 Feet Long	Unknown	E9	Newer Tank, Southwest of Electrical Department
PT02	Vertical	30 Feet Diameter by 30 Feet Tall	Weak Ammonia Liquor	G10	Center of Light Oil Production Area
PT03	Vertical	30 Feet Diameter by 30 Feet Tall	Weak Ammonia Liquor	H10	Center of Light Oil Production Area
PT04	Horizontal	10 Feet Diameter by 30 Feet Long	Light Oil (benzene, toluene, and xylenes)	18	Southwest of Offices and Breakroom, Northeast corner of Light Oil Production
PT12	Light Oil Decanter	j	Unknown	19	Immediately South of PT04
PT13	Horizontal		Unknown - "Muck Tank" on 2010 PFD	19	Immediately South of Light Oil Decanter
PT05	Horizontal	10 Feet Diameter by 25 Feet Long		U7	Tar Handling Area
PT06	Horizontal	10 Feet Diameter by 30 Feet Long		U7	Tar Handling Area
PT07	Horizontal	10 Feet Diameter by 30 Feet Long	Tar, Primary Unloading for Offsite Use	S6	Tar Handling Area
PT08	Horizontal	10 Feet Diameter by 30 Feet Long	Tar, Storage for High Volume Production	S6	Tar Handling Area
PT11	Rectangular	Ü	Old Tar Decanter	T8	Tar Handling Area
PT14	Rectangular		Tar Decanter	T8	Tar Handling Area
Water Treatment					
WT1	Vertical		Water Treatment	Z6	Boiler House
WT2	Vertical		Water Treatment	Z6	Boiler House
WT3	Vertical		Water Treatment	Z6	Boiler House
WT4	Vertical		Water Treatment	Z6	Boiler House
Quench and Fire Protection Water					
FP01	Elevated Tank on Tower		Empty, Former Quench Water	H11	Light Oil Production Area
FP02	Standpipe		Empty, Fire Protection, River Water	Y5	North of Boiler House
FP03	Elevated Tank on Tower		Empty, Former Quench Water	AC9	East Of Battery No. 2
Gas Handling					
GH1	Gas Holder "Gas Ball"		Empty	AN6	Purged with Nitrogen, Bottom Valve Left Open.
Hot Water Tank					
HW1	Horizontal		Unknown	E20	North end of Locker Building

Notes:

- 1. The designations ST- and PT- we assigned before the previous functions of the vessels were known. They do not necessarily indicate a Storage Tank or Process Tank.
- 2. PBS Petroleum Bulk Storage Tank on the NYSDEC PBS Number 9-030058
- 3. CBS Chemical Bulk Storage Tank on the NYSDEC CBS Number 9-000065
- 4. The Grid References are for ease of locating Designated Vessels. Some vessels cover more than one grid reference.

			Use	es
			Former	Current
	3875 River R	oad		
	Brownfield C	leanup Program Site Only		
	Production A	ırea		
BCP-	1	Mansion	Offices	Empty
BCP-	2	Large Stormwater Sump	Stormwater Management	Stormwater Management
BCP-	3	Office Trailer	Offices	None
BCP-	4	Maintenance Shop (a/k/a Roundhouse)	Locomotive and Heavy Equipment Repair	Maintenance, limited storage
BCP-	5	Maintenance Shop Pole Building (Annex to Maintenance Shop)	Storage	Container Accumulation by USEPA and RITC
BCP-		Oil House	Oil Storage	Oil Storage
BCP-	7	Instrument Shop	Instrument Repair	None
BCP-	8	Laboratory/Electrical Department/Machine Shop (Sections have a mezzanine)	Laboratory, Offices, Machine Shop, Break Room	Pat and Dale's Office; Inventum Office
BCP-	9	Welding Shop	Welding Shop	None
BCP-	10	Buildings in Light Oil Production Area	Pump and Motor Room	None
BCP-	11	Secondary Containment in Light Oil Production Area		
BCP-	12	West Quench Tower	Quenching Coke	None
BCP-	13	West Water Tower	Quench Water Storage	Empty
BCP-	14	Light Oil Building	Light Oil Processing	None
BCP-	15	Gas and Cylinder Building	Gas Bottle Storage	May have left over bottles
BCP-	16	Storage Building Unknown - "The Gray Shed"	Unknown	Drum and Tote Storage by USEPA
BCP-	17	West Flare	Flaring excess COG	None
BCP-	18	Warehouse	Warehouse	Warehouse
BCP-		Former "By-Products" Area	Multiple Towers, overhead and underground pipping	None
BCP-	20	Exhauster Building	COG Collection and Distribution	None
BCP-	21	Sump #1	Collection of Tar and Liquor from Drip Legs	Filled with stone by the USEPA
BCP-	22	Sump #2	Collection of Tar and Liquor from Drip Legs	Filled with stone by the USEPA

			Uso	es
			Former	Current
BCP-	23	Sump #3	Collection of Tar and Liquor from Drip Legs	Filled with stone by the USEPA
BCP-	24	Sump #4	Collection of Tar and Liquor from Drip Legs	Filled with stone by the USEPA
BCP-	25	Tar Management Area and Control Building	Pump Control	None
BCP-	26	Tar Decanter	Separation of Light Oil from Tar	May be holding Tar Decanter Sludge
BCP-	27	Old Tar Decanter	Separation of Light Oil from Tar	Cleaned decades ago
BCP-	28	Primary Cooler	COG Cooling	None
BCP-		Secondary Cooler	COG Cooling	None
BCP-	30	Ammonia Scrubber - West	, ,	
BCP-	31	Ammonia Scrubber - East		
BCP-	32	Gas Scrubber #1		
BCP-	33	Gas Scrubber #2		
BCP-	34	Gas Scrubber #3		
BCP-				
BCP-	36			
BCP-	37			
BCP-	38	Pump House	Pumping of Wash Oil and cooling	None
BCP-	39	Electrical Room	Controls for Cooling	None
BCP-	40	Former Diesel Generator	Back-up Power	Removed
BCP-		Transformers south of former diesel generator		
BCP-	42	Railroad Scale House	Scale House	None
BCP-		Boiler Building	Boiler House	None
BCP-		Amonia Still	Boiler House	None
BCP-		Boiler - Circa 1940 Boiler	Boiler House	None
BCP-	46	Boiler - New #1	Boiler House	None
BCP-		Boiler - "New" - #2	Boiler House	None
BCP-	48	Stacks		
BCP-		Northeast	Stack for Boiler House	None
BCP-	50	Northwest	Stack for Boiler House	None
BCP-	51	South	Stack for Battery Combustion	None
BCP-		Fire Water Standpipe	Fire Suppression Water Storage	Empty
BCP-	53	West Quench Tower	Coke Quenching	None
BCP-	54	West Water Tower	Quench Water Storage	Empty

BCP- 71 Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Balancing Loading and Balancing Loading and Balancing Loading Area BCP- 73 Electrical Building High Voltage Could be Plar Feed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Instrumentation Live BCP- 78 Coal Conveyor/Transfer Coal Distribution and collection BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance BCP- 81 Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) ADDED Support Pipe Support Pipe Support Pipe Support Water and				Use	es
BCP- 55 Building Boch- 56 Coke Voen Battery No. 2 Coke Making Not Usable Pushing Coke from Ovens Coke Sizing, Preparation, and Rail Loading Preparation, and Rail Loading Boch- 59 Coal Preparation (Breaking Building) Boch- 60 Coke Conveyor, Truck and Rail Loading Boch- 61 Coke Conveyor, Truck and Rail Loading Area Conveyor Collapsing Boch- 61 Office Trailer 2 Offices None Boch- 62 Laboratory 2 Lab None Boch- 63 Coke Dock Coke Loading None Boch- 64 Conveyor System Coke Loading None Boch- 65 Thawing Shed Coal Thawing None Cod Movement Pile of Siding on Ground North of Compressor Building Boch- 67 East Flare Boch- 68 Purifiers Gas Purification Boch- 69 Stacker/Reclaimer Coke Management None Boch- 70 Guard Shack Guard Shed Boch- 71 Scale Boch- 72 Coke Truck Loading Area Boch- 73 Electrical Building Boch- 74 Main Office Building Boch- 75 Sample Shed - POTW Unknown Balancing Loa Boch- 76 Employee Showers Locker Room Boch- 77 Equipment/Controls at Waste Water Treatment Boch- 78 Boch- 79 Stacker Reclaimer Coal Distribution Boch- 79 Stacker Reclaimer Coal Distribution And collection None Boch- 79 Stacker Reclaimer Coal Conlistribution And collection None Boch- 80 Pipe Racks - Throughout Pipe Racks - Throughout Pipe Support Abandonded Collection Header (Northeast Corner, North of Site 110) Boch- 80 Room- 81 Room- 82 Room- 82 Room- 82 Room- 82 Room- 82 Room- 83 Room- 84 Room- 84 Room- 84 Room- 84 Room- 85 Room- 85 Room- 86 Room- 87				Former	Current
BCP- 57 Pusher Pushing Coke from Ovens Coke Sizing, Preparation, and Rail Loading Building) BCP- 59 Coal Preparation (Breaking Building) BCP- 60 Coke Conveyor, Truck and Rail Loading Area Conveyor Collapsing Roce Coke Loading Proparation (BCP- 62 Laboratory 2 Lab None Coke Loading None Roce Coke Conveyor System Coke Loading None Roce Coke Loading None Coke Conveyor System Coke Loading None Roce Compressor Building Cog Movement None Pile of Siding on Ground North of Compressor Building Cog Movement None Pile of Siding on Ground North of Compressor Building Cog Movement None Roce Coke Management Roce Roce Roce Roce Roce Roce Roce Roce	BCP-	55	Building	Larry Car Loading,	Not Usable
BCP- 58 Coke Screening and Loading BCP- 59 Coke Sizing, Preparation, and Rail Loading BCP- 59 Building) BCP- 60 Coke Conveyor, Truck and Rail Loading Area BCP- 60 BCP- 61 DOffice Trailer 2 DOffices None BCP- 62 Laboratory 2 Lab None BCP- 63 Coke Dock BCP- 64 Conveyor System Coke Loading None BCP- 65 Thawing Shed Comyeor System Coke Loading None BCP- 66 Compressor Building COG Movement None Pile of Siding on Ground North of Compressor Building BCP- 67 East Flare Flaring excess COG BCP- 68 Purifiers Gas Purification Not Usable Rope- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack BCP- 71 Scale Scale Scale Loading and Balancing Loa BCP- 72 Coke Truck Loading BCP- 73 Electrical Building BCP- 74 Main Office Building BCP- 75 Sample Shed - POTW Unknown BCP- 76 Employee Showers Locker Room ROP- 77 Roy BCP- 78 BCP- 78 BCP- 78 BCP- 79 Stacker Reclaimer Coal Distribution And collection None Abandonded Collection BCP- 80 Pipe Racks - Throughout Abandonded Collection Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Collection Hoops and Collection Header None Valer and Valer and Valer and Valer and	BCP-	56	Coke Oven Battery No. 2		Not Usable
BCP- 58 Coke Screening and Loading Preparation, and Rail Loading Orushing and Coal Preparation (Breaking Building) BCP- 59 Coal Preparation (Breaking Building) BCP- 60 Coke Conveyor, Truck and Rail Loading Area BCP- 61 Office Trailer 2 Offices None BCP- 62 Laboratory 2 Lab None BCP- 63 Coke Dock Coke Loading None BCP- 64 Conveyor System Coke Loading None BCP- 65 Thawing Shed Coal Thawing None BCP- 66 Compressor Building COG Movement None BCP- 67 East Flare Flaring excess COG None BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed Guard Shed Scale Scale BCP- 71 Scale Scale Scale Loading and Balancing Loading and Balancing Loading and Balancing Loading Loading Loading Area BCP- 73 Electrical Building High Voltage Feed None BCP- 76 Room Showers Locker Rooms and Showers Locker Rooms and Showers Maste Waste Water Treatment Coal Distribution and collection None BCP- 79 Stacker Reclaimer Coal Distribution and collection None BCP- 80 Pipe Racks - Throughout Preparation None None Abandonded Collection Header (Northeast Corner, North of Site 110) BCP- 81 Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) BCP- 78 River Road Utility Bridge Pipe Support Pipe Support Water and Coal Conveyor Pipe Support Water and Supp	BCP-	57	Pusher	· ·	None
BCP- 60 Coke Conveyor, Truck and Rail Loading Area BCP- 61 Office Trailer 2 Offices None BCP- 62 Laboratory 2 Lab None BCP- 63 Coke Dock Coke Loading None BCP- 64 Conveyor System Coke Loading None BCP- 65 Thawing Shed Coal Thawing None BCP- 66 Compressor Building COG Movement None BCP- 66 Compressor Building COG Movement None BCP- 67 East Flare Flaring excess COG None BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed Guard Shed Scale BCP- 71 Scale Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Loading and Balancing Loa Could be Plar Feed BCP- 73 Electrical Building Offices Offices BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Waste Water Treatment Instrumentation Live Empty BCP- 78 Coal Conveyor/Transfer Coal Distribution and collection None BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance None Abandonded Collection Header None BCP- 81 Abandonded Coal Conveyor Tunnel (Under Coal Yard) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) BCP- 82 Aload Albardonded Pipe Support Pip	BCP-	58		Preparation, and Rail Loading	Not Usable
BCP- 61 Office Trailer 2 Offices None BCP- 62 Laboratory 2 Lab None BCP- 63 Coke Dock Coke Loading None BCP- 64 Conveyor System Coke Loading None BCP- 65 Thawing Shed Coal Thawing None BCP- 66 Compressor Building COG Movement None BCP- 67 East Flare Flaring excess COG None BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed Guard Shed BCP- 71 Scale Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Balancing Loading and Balancing Loading BCP- 73 Electrical Building High Voltage Feed BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Instrumentation None BCP- 78 Coal Conveyor/Transfer Building Abandonded Collection BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance Abandonded Collection Header (Northeast Corner, North of Site 110) BCP- 81 River Road Utility Bridge Pipe Support Pipe Support Water and	BCP-	59		Ŭ	Not Usable
BCP- 61 Office Trailer 2 Offices None BCP- 62 Laboratory 2 Lab None BCP- 63 Coke Dock Coke Loading None BCP- 64 Conveyor System Coke Loading None BCP- 65 Thawing Shed Coal Thawing None BCP- 66 Compressor Building COG Movement None Pile of Siding on Ground North of Compressor Building BCP- 67 East Flare Flaring excess COG None BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed Guard Shed BCP- 71 Scale Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Loading and Balancing Loa BCP- 73 Electrical Building High Voltage Fed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Unstrumentation Live BCP- 78 Coal Conveyor/Transfer Building None BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance Abandonded Coal Conveyor Tunnel (Under Coal Yard) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) Pipe Support Pipe Supp	BCP-	60		Conveyor	Collapsing
BCP- 63 Coke Dock Conveyor System Coke Loading None BCP- 64 Conveyor System Coke Loading None BCP- 65 Thawing Shed Coal Thawing None BCP- 66 Compressor Building COG Movement None Pile of Siding on Ground North of Compressor Building BCP- 67 East Flare Flaring excess COG None BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed Guard Shed BCP- 71 Scale Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Balancing Loa BCP- 73 Electrical Building High Voltage Could be Plar BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Room Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Coal Distribution and collection BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance Abandonded Collection Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) Pipe Support Pipe S	BCP-	61		Offices	None
BCP- 63 Coke Dock Conveyor System Coke Loading None BCP- 64 Conveyor System Coke Loading None BCP- 65 Thawing Shed Coal Thawing None BCP- 66 Compressor Building COG Movement None Pile of Siding on Ground North of Compressor Building BCP- 67 East Flare Flaring excess COG None BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed Guard Shed BCP- 71 Scale Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Loading and Balancing Loa BCP- 73 Electrical Building High Voltage Feed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Waste Water Treatment Instrumentation Live BCP- 78 Coal Conveyor/Transfer Building and collection None BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance None BCP- 81 Abandonded Coal Conveyor Tunnel (Under Coal Yard) ADARD ADARDON Pipe Support Pi	BCP-	62	Laboratory 2	Lab	None
BCP- 65 Thawing Shed Coal Thawing None BCP- 66 Compressor Building COG Movement None Pile of Siding on Ground North of Compressor Building BCP- 67 East Flare Flaring excess COG None BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed Scale Scale BCP- 71 Scale Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Balancing Loading and Balancing Loading BCP- 73 Electrical Building High Voltage Feed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Room Showers BCP- 77 Equipment/Controls at Waste Water Treatment Instrumentation BCP- 78 Coal Conveyor/Transfer Building Abandonded Collection And collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance Abandonded Collection BCP- 81 Abandonded Coal Conveyor Tunnel (Under Coal Yard) ADOR 2 Old Biver Coutfoll/ Unknown Pipe Support Pipe Support Pipe Support Water and			,	Coke Loading	
BCP- 65 Thawing Shed Coal Thawing None BCP- 66 Compressor Building COG Movement None Pile of Siding on Ground North of Compressor Building BCP- 67 East Flare Flaring excess COG None BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed Scale Scale BCP- 71 Scale Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Balancing Loading and Balancing Loading BCP- 73 Electrical Building High Voltage Feed BCP- 73 Electrical Building Offices Offices BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Room And Showers Equipment/Controls at Electrical and Unstrumentation Live BCP- 78 Coal Conveyor/Transfer Building And collection Showers BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance Abandonded Collection BCP- 81 Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) Pipe Support Pipe Support Pipe Support Pipe Support Water and	BCP-	64	Conveyor System	Coke Loading	None
BCP- 66 Compressor Building COG Movement None Pile of Siding on Ground North of Compressor Building BCP- 67 East Flare Flaring excess COG None BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed Guard Shed BCP- 71 Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Balancing Loa Coke Truck Loading Area Unknown Could be Plar BCP- 73 Electrical Building High Voltage Feed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Instrumentation BCP- 78 Coal Conveyor/Transfer Building and collection BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance BCP- 81 Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) Pipe Support Pipe Support Pipe Support Pipe Support Water and	BCP-	65		· ·	None
Pile of Siding on Ground North of Compressor Building BCP- 67	BCP-	66	Compressor Building	COG Movement	None
BCP- 68 Purifiers Gas Purification Not Usable BCP- 69 Stacker/Reclaimer Coke Management None BCP- 70 Guard Shack Guard Shed BCP- 71 Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Balancing Loading and Balancing Loading Area BCP- 73 Electrical Building High Voltage Feed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Unstrumentation BCP- 78 Coal Conveyor/Transfer Building Area Unknown Sampling BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance BCP- 81 Abandonded Collection BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support			Pile of Siding on Ground		
BCP- 70 Guard Shack Guard Shed Scale BCP- 71 Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Balancing Loading and Balancing Loading BCP- 73 Electrical Building High Voltage BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Room Showers BCP- 77 Equipment/Controls at Waste Water Treatment Unstrumentation Showers BCP- 78 Coal Conveyor/Transfer Building Coal Distribution and collection None BCP- 79 Stacker Reclaimer Coal Distribution and collection None BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance North of Site 110) BCP- 81 Abandonded Collection BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support			East Flare	· ·	None
BCP- 70 Guard Shack Guard Shed Scale Scale BCP- 71 Scale Scale Scale Loading and Balancing Loa BCP- 72 Coke Truck Loading Area Unknown Balancing Loa BCP- 73 Electrical Building High Voltage Could be Plar Feed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers Equipment/Controls at Waste Water Treatment Instrumentation Coal Distribution and collection None BCP- 78 Coal Conveyor/Transfer Building Abandonded Collection Tar, Light Oil and Water Conveyance North of Site 110) BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support	BCP-	68	Purifiers	Gas Purification	Not Usable
BCP- 71 Scale Scale Scale BCP- 72 Coke Truck Loading Area Unknown Balancing Loading and Balancing Loading Area BCP- 73 Electrical Building High Voltage Could be Plar Feed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Instrumentation BCP- 78 Coal Conveyor/Transfer Coal Distribution and collection BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance Abandonded Collection BCP- 81 Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support	BCP-	69	Stacker/Reclaimer	Coke Management	None
BCP- 72 Coke Truck Loading Area Unknown Balancing Loading and Balancing Load BCP- 73 Electrical Building High Voltage Could be Plar Feed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers Electrical and Unstrumentation Empty Maste Water Treatment Instrumentation Unstrumentation And collection BCP- 78 Coal Conveyor/Transfer Building Coal Conveyor/Transfer Building Coal Distribution and collection None BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance None Abandonded Collection Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support Water and	BCP-	70	Guard Shack	Guard Shed	Guard Shed
BCP- 73 Electrical Building High Voltage Could be Plar Feed BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Instrumentation BCP- 78 Coal Conveyor/Transfer Building Coal Distribution and collection BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance BCP- 81 Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support	BCP-	71	Scale	Scale	Scale
BCP- 74 Main Office Building Offices Offices BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Instrumentation BCP- 78 Coal Conveyor/Transfer Building and collection BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance BCP- 81 Abandonded Collection BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) BCP- 84 River Road ADDR 1 River Road Utility Bridge Pipe Support Pipe Support	BCP-	72	Coke Truck Loading Area	Unknown	Loading and Balancing Loads
BCP- 75 Sample Shed - POTW Unknown Sampling BCP- 76 Employee Showers Locker Rooms and Showers BCP- 77 Equipment/Controls at Waste Water Treatment Instrumentation BCP- 78 Coal Conveyor/Transfer Building Coal Distribution and collection BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance None BCP- 81 Abandonded Collection BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) Abandonded Coal Conveyor Coal Conveyance None 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support	BCP-	73	Electrical Building	High Voltage	Could be Plant Feed
BCP- 76	BCP-	74	Main Office Building	Offices	
BCP- 76	BCP-	75	3		
BCP- 77 Equipment/Controls at Waste Water Treatment Instrumentation BCP- 78 Coal Conveyor/Transfer Coal Distribution and collection BCP- 79 Stacker Reclaimer Coal Distribution and collection BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance BCP- 81 Abandonded Collection BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support 4008 - 2 Old River Outfall/Intake Water and	BCP-	76	Employee Showers Locker		
BCP- 78 Coal Conveyor/Transfer Building Coal Distribution and collection None BCP- 79 Stacker Reclaimer Coal Distribution and collection None BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance None Abandonded Collection Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support Water and	BCP-	77			Live
BCP- 80 Pipe Racks - Throughout Tar, Light Oil and Water Conveyance None Abandonded Collection Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support	BCP-	78	Coal Conveyor/Transfer	Coal Distribution	None
BCP- 80 Pipe Racks - Inroughout Water Conveyance None Abandonded Collection Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support 4009 - 2 Old River Outfall/Intake Water and	BCP-	79	Stacker Reclaimer		None
BCP- 81 Header (Northeast Corner, North of Site 110) BCP- 82 Abandonded Coal Conveyor Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support Water and	BCP-	80	Pipe Racks - Throughout		None
Tunnel (Under Coal Yard) 4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support 4008 - 2 Old River Outfall/Intake Water and	BCP-	81	Header (Northeast Corner,	Collection Header	None
4008 River Road 4008 - 1 River Road Utility Bridge Pipe Support Pipe Support 4008 - 2 Old Piver Outfall/Intake Water and	BCP-	82		Coal Conveyance	None
4008 - 1 River Road Utility Bridge Pipe Support Pipe Support 4008 - 2 Old Piver Outfall/Intoko Water and					
4009 2 Old Divor Outfall/Intake Water and		4008 River Ro	oad		
4009 2 Old Biver Outfall/Intake Water and		4008 - 1	River Road Utility Bridge	Pipe Support	Pipe Support
alscharge		4008 - 2			
				, , ,	

	Us	Condition	
	Former	Current	
and			
T T	ı		
Pump House (3 stories including roof mounted transformers [National Grid])	Pumping River Water	ldle	Good
Propane Storage Building	Fuel for Furnaces	Empty	Poor
Coal Unloading Equipment	Coal Unloading	Abandoned	Poor
Coal Conveyor and piping	Coal movement to plant, support of water and electric utilities.	Support of water and electric utilities.	Poor, damaged sections, vegetation growing through structure.
Metal Building	Unknown, Likely transfer point for conveyor	None	Poor
	including roof mounted transformers [National Grid]) Propane Storage Building Coal Unloading Equipment Coal Conveyor and piping	Pump House (3 stories including roof mounted transformers [National Grid]) Propane Storage Building Coal Unloading Equipment Coal Conveyor and piping Coal Conveyor and piping Metal Building Former Pumping River Water Vater Coal Inloading Fuel for Furnaces Coal Unloading Coal movement to plant, support of water and electric utilities. Unknown, Likely transfer point for	Pump House (3 stories including roof mounted transformers [National Grid]) Propane Storage Building Coal Unloading Equipment Coal Unloading Equipment Coal Conveyor and piping Metal Building Pumping River Water Coal for Furnaces Empty Coal Unloading Abandoned Coal movement to plant, support of water and electric utilities. Unknown, Likely transfer point for None

Table D-3 Buildings and Structures **CONFIDENTIAL**

		Use	Condition	
		Former	Current	
	Outdoor Equipment			
108 - 6	Transformers within the fence at pumphouse	Transformer	None	Unknown
108 - 7	Transformers outside (north) of the fence at pumphouse)	Transformer	None	Unknown
108 - 8	Transformer south of pumphouse	Transformer	Unknown	Unknown
108 - 9	Possible pole mounted transformers	Transformer	Unknown	Unknown
108 - 10	Tunnel	Coal and Utility	Unknown	Unknown

		Use	Condition	
		Former	Current	
3875 River F	Road			
Site 109				
109 - 1	Small Guard Shack	Guard Shack, Gate Controls	Abandoned	Fair
109 - 2	Concrete Settling Basin	Oil Containment and Treatment	Stormwater Containment and Settling	Excellent
109 - 3	Sample Equipment Enclosure	Sample Equipment weather enclosure	Sample Equipment weather enclosure	Good
109 - 4	Coal Conveyor at Tunnel	Coal movement to plant, support of water and electric utilities.	Support of water and electric utilities.	
	Occupied Gurad Shack (BCP-70)			

		Us	Uses				
		Former	Current				
			,				
3875 River I	Road						
Site 110							
110 - 1	Coke Breeze	Transportation	Storing Bags of Coke Breeze	No longer road worthy			
110 - 2	Furniture	Transportation	Storing Old Office Furniture	No longer road worthy			
110 - 3	Fire Truck	Transportation	Fire Equipment	No longer road worthy			
	Pickup Truck Remains	Transportation	Scrap	No longer road worthy			
	Golf Cart Remains	Transportation	Scrap	No longer road worthy			
	Heavy Equipment Tires	Transportation	Scrap	No longer road worthy			
	Over the Road Trailers	Transportation	Scrap	No longer road worthy			

E - Inspection Checklists





Frequency Daily	Description	Personnel	Observations	Actions Required
Daily Inspection D	= Vate:			
	Sign In			
	Guard Shack (Building 70)			
	HASP Review			
	Site Inspection			
	Site Roads Trafficable			
	Fence Intact			
	Oil Booms			
	Treatment System			
	Check Secondary Containment (Building 18)			
	Liquid Volume			
	Tank Heater Operating/Effective			
	Check Hoses			
	Weather Station and Perimeter Air Monitoring			
	Operating			
	No Alarm Conditions			
	No obstructions			
	Access Road			
	Snow			
	Ice			
	ice .			
	Pump in Tar Management Area			When weather is below 35 degrees F
	Pump Operating			
	Frozen Piping or Hoses			
				During Precipitation Event and through the
	Stormwater Discharge Monitoring			Following Day
	Outfall 001 - Settling Ponds			
	Flow (Yes/No)			
	Flowmeter Reading			
	Outfall 002 - EQ Tanks (Grid D31)			
	Flow (Yes/No)			
	Flowmeter Reading			
	Outfall 004 - River Road			
	Flow (Yes/No)			
	Flowmeter Reading			



Frequency Weekly	Description	Personnel	Date	Observations	Actions Required
	Tanks and Secondary Containments Inspection				
	See Tank Inspection Checklist				
	Maintain Water Levels in Secondary Containments and Water Accumulation Areas				
	Weak Ammonia Tank Area (ST01, ST02, PT03, PT04) (Grids F10 - I11)				
	Light Oil Area (PT04, P12, PT13) (Grids H8 - I9)				
	Fuel Storage (ST03, ST04, ST05) (Grids L7 - M8)				
	Tar Management "The Moat" (Grid S6 - U7)				
	Lid Seal (ST06) (R10)				
	Wash Oil (ST07) (P13)				
	Mixing Pad				
	Water Level Below Top of Wall (Freeboard)				
	Runoff Directed away from Mixing Pad?				
	Storm Water Retention Ponds				
	Check Outlets for Debris				
	Booms/Skim Lighter than Water Liquids				
	Inspect Container Storage Areas				
	Buildings 4, 6, and 16				
	Gid Q3				
	Inspect Tank Covers				
	Lid Seal (ST06) (R10)				
	Wash Oil (ST07) (P13)				

Facility Monthly Inspection Log Riverview Innovation & Technology Campus, Inc. Town of Tonawanda, New York



Frequency Monthly	Description	Personnel	Date	Observations	Actions Required
	Flow Measurements				
	First Day of Month				
	Last Day of Month				
	Critical Facility Infrastructure				
	Water Lines				
	Flushable Toilets				
	HVAC				
	Building Conditions				
	Breaker Building (Building 63)				
	Coal Charging (Building 55)				
	Coke Loading (Building 58)				
	Sumps and Pits				
	Fencing in Place				
	Water Levels				
	Pond Water Levels				
	Sedimentation Pool #001				
	Sedimentation Pool #002				
	Sedimentation Pool #003				
	Stormwater Detention Basin				
	Concrete Lined Settling Pond				
	Outlets freely draining				
	Standing Water				
	Mixing Pad				
	Coal Yard (North)				
	Coal Yard South				
	Coke Yard				
	Maintain Water Levels in Secondary Containments and Water Accumulation Areas				

Stormwater Discharge Monitoring Log Outfall 001 Riverview Innovation & Technology Campus, Inc. Town of Tonawanda, New York



Discharge to Outfall 001	Personnel	Date	Ti	me	Meter I	Reading	Flow Rate	Volume		Sample No.	Observations
			Start	Stop	Start	Stop	(g.p.m)	(Gallons)	рН		
First Day of Month											
	+										
Last Day of Month											
	1										

 $F-Erosion \ and \ Sediment \ Controls \ Specifications$



STANDARD AND SPECIFICATIONS FOR STRAW BALE DIKE



Definition

A temporary barrier of straw, or similar material, used to intercept sediment laden runoff from small drainage areas of disturbed soil.

Purpose

The purpose of a bale dike is to reduce runoff velocity and effect deposition of the transported sediment load. Straw bale dikes have an estimated design life of three (3) months.

Conditions Where Practice Applies

The straw bale dike is used where:

1. No other practice is feasible.

- 2. There is no concentration of water in a channel or other drainage way above the barrier.
- 3. Erosion would occur in the form of sheet erosion.
- 4. Length of slope above the straw bale dike does not exceed these limits.

	Constructed	Percent	Slope Length
	Slope	Slope	(ft.)
•	2:1	50	25
	3:1	33	50
	4:1	25	75

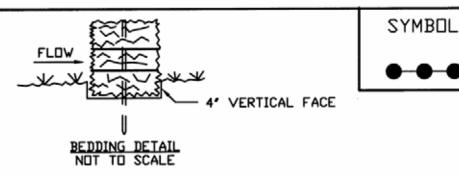
Where slope gradient changes through the drainage area, steepness refers to the steepest slope section contributing to the straw bale dike.

The practice may also be used for a single family lot if the slope is less than 15 percent. The contributing drainage areas in this instance shall be less than one quarter of an acre per 100 feet of fence and the length of slope above the dike shall be less than 200 feet.

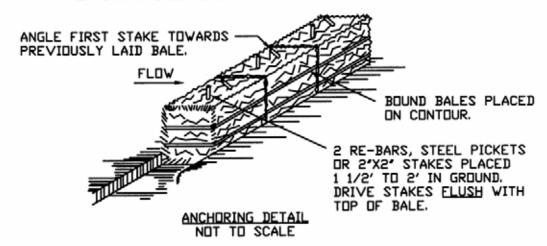
Design Criteria

The above table is adequate, in general, for a one-inch rainfall event. Larger storms could cause failure of this practice. Use of this practice in sensitive areas for longer than one month should be specifically designed to store expected runoff. All bales shall be placed on the contour with cut edge of bale adhering to the ground. See Figure 5A.7 on page 5A.18 or details.

Figure 5A.7 Straw Bale Dike



DRAINAGE AREA NO MORE THAN 1/4 ACRE PER 100 FEET OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%.



CONSTRUCTION SPECIFICATIONS

- 1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- 4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMILY AS NEEDED.
- 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

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

STRAW BALE DIKE

STANDARD AND SPECIFICATIONS FOR SILT FENCE



Definition

A temporary barrier of geotextile fabric installed on the contours across a slope used to intercept sediment laden runoff from small drainage areas of disturbed soil.

Purpose

The purpose of a silt fence is to reduce runoff velocity and effect deposition of transported sediment load. Limits imposed by ultraviolet stability of the fabric will dictate the maximum period the silt fence may be used (approximately one year).

Conditions Where Practice Applies

A silt fence may be used subject to the following conditions:

1. Maximum allowable slope lengths contributing runoff to a silt fence placed on a slope are:

Slope	Maximum
Steepness	Length (ft.)
2:1	25
3:1	50
4:1	75
5:1 or flatter	100

- 2. Maximum drainage area for overland flow to a silt fence shall not exceed ½ acre per 100 feet of fence, with maximum ponding depth of 1.5 feet behind the fence; and
- Erosion would occur in the form of sheet erosion;
- 4. There is no concentration of water flowing to the barrier.

Design Criteria

Design computations are not required for installations of 1 month or less. Longer installation periods should be designed for expected runoff. All silt fences shall be placed as close to the areas as possible, but at least 10 feet from the toe of a slope to allow for maintenance and roll down. The area beyond the fence must be undisturbed or stabilized.

Sensitive areas to be protected by silt fence may need to be reinforced by using heavy wire fencing for added support to prevent collapse.

Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent sediment bypass. A detail of the silt fence shall be shown on the plan. See Figure 5A.8 on page 5A.21 for details.

Criteria for Silt Fence Materials

1. Silt Fence Fabric: The fabric shall meet the following specifications unless otherwise approved by the appropriate erosion and sediment control plan approval authority. Such approval shall not constitute statewide acceptance.

	Minimum Acceptable	
Fabric Properties	Value	Test Method
Grab Tensile Strength (lbs)	90	ASTM D1682
Elongation at Failure (%)	50	ASTM D1682

Mullen Burst

Strength (PSI) 190 ASTM D3786

Puncture Strength (lbs) 40 ASTM D751

(modified)

Slurry Flow Rate

(gal/min/sf) 0.3

Equivalent Opening Size 40-80 US Std Sieve

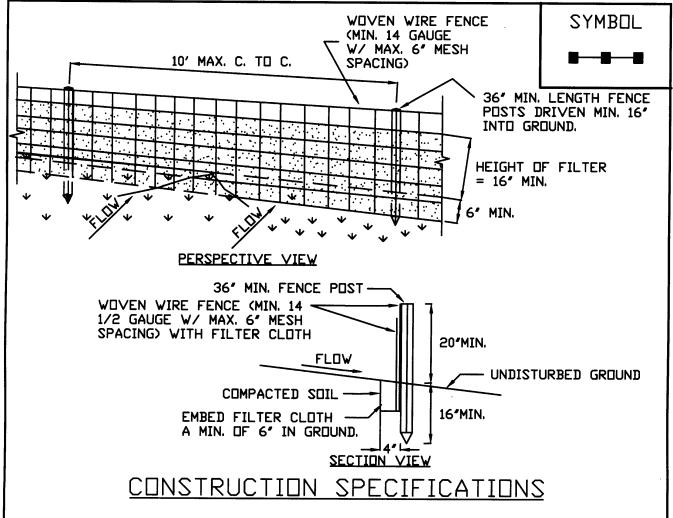
CW-02215

Ultraviolet Radiation

Stability (%) 90 ASTM G-26

- 2. Fence Posts (for fabricated units): The length shall be a minimum of 36 inches long. Wood posts will be of sound quality hardwood with a minimum cross sectional area of 3.0 square inches. Steel posts will be standard T and U section weighing not less than 1.00 pound per linear foot.
- 3. Wire Fence (for fabricated units): Wire fencing shall be a minimum 14 gage with a maximum 6 in. mesh opening, or as approved.
- 4. Prefabricated Units: Envirofence, Geofab, or approved equal, may be used in lieu of the above method providing the unit is installed per details shown in Figure 5A.8.

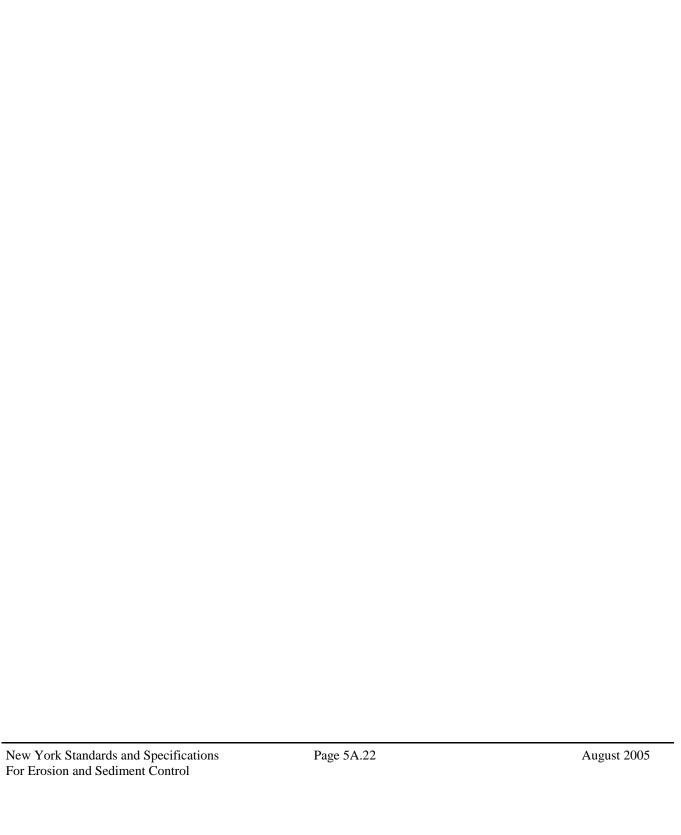
Figure 5A.8 Silt Fence



- 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 OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEDFAB, 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



STANDARD AND SPECIFICATIONS FOR CHECK DAM



Definition

Small barriers or dams constructed of stone, bagged sand or gravel, or other durable material across a drainage way.

Purpose

To reduce erosion in a drainage channel by restricting the velocity of flow in the channel.

Condition Where Practice Applies

This practice is used as a temporary or emergency measure to limit erosion by reducing velocities in small open channels that are degrading or subject to erosion and where permanent stabilization is impractical due to short period of usefulness and time constraints of construction.

Design Criteria

Drainage Area: Maximum drainage area above the check dam shall not exceed two (2) acres.

Height: Not greater than 2 feet. Center shall be maintained 9 inches lower than abutments at natural ground elevation.

Side Slopes: Shall be 2:1 or flatter.

Spacing: The check dams shall be spaced as necessary in the channel so that the crest of the downstream dam is at the

elevation of the toe of the upstream dam. This spacing is equal to the height of the check dam divided by the channel slope.

Therefore:

$$S = h/s$$

Where:

S = spacing interval (ft.) h = height of check dam (ft.) s = channel slope (ft./ft.)

Example:

For a channel with a 4% slope and 2 ft. high stone check dams, they are spaced as follows:

$$S = 2 \text{ ft.}$$
 = 50 ft.

Stone size: Use a well graded stone matrix 2 to 9 inches in size (NYS – DOT Light Stone Fill meets these requirements).

The overflow of the check dams will be stabilized to resist erosion that might be caused by the check dam. See Figure 5A.9 on page 5A.24 for details.

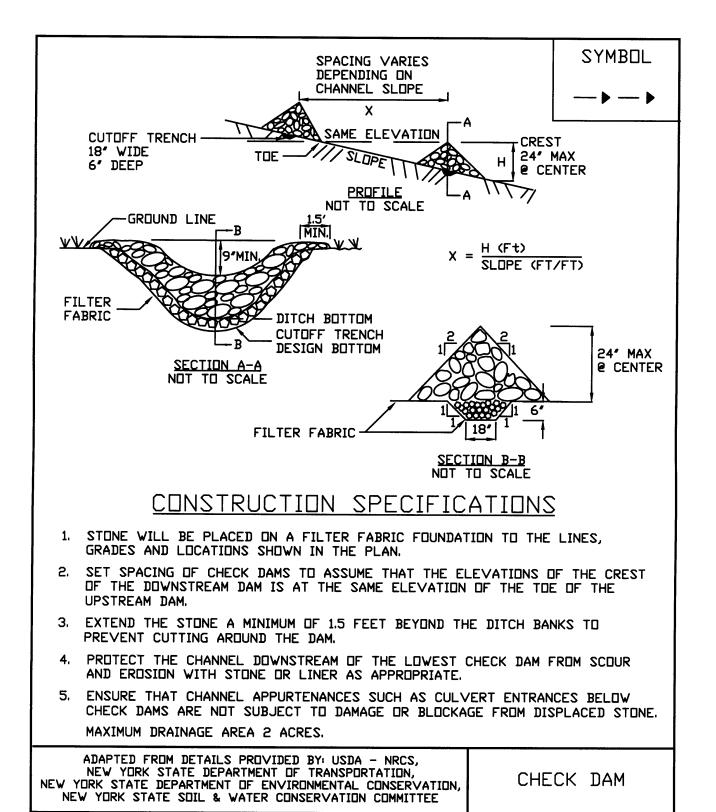
Check dams should be anchored in the channel by a cutoff trench 1.5 ft. wide and 0.5 ft. deep and lined with filter fabric to prevent soil migration.

Maintenance

The check dams should be inspected after each runoff event. Correct all damage immediately. If significant erosion has occurred between structures, a liner of stone or other suitable material should be installed in that portion of the channel.

Remove sediment accumulated behind the dam as needed to allow channel to drain through the stone check dam and prevent large flows from carrying sediment over the dam. Replace stones as needed to maintain the design cross section of the structures.

Figure 5A.9 Check Dam



STANDARD AND SPECIFICATIONS FOR ROCK DAM



Definition

A rock embankment located to capture sediment.

Purpose

To retain sediment on the construction site and prevent sedimentation in off site water bodies.

Conditions Where Practice Applies

The rock dam may be used instead of the standard sediment basin with barrel and riser. The rock dam is preferred when it is difficult to construct a stable, earthen embankment and rock materials are readily available. The site should be accessible for periodic sediment removal. This rock dam should not be located in a perennial stream. The top of the dam will serve as the overflow outlet. The inside of the dam will be faced with smaller stone to reduce the rate of seepage so a sediment pool forms during runoff events.

Design Criteria

Drainage Area: The drainage area for this off stream structure is limited to 50 acres.

Location: The location of the dam should:

- provide a large area to trap sediment
- intercept runoff from disturbed areas
- be accessible to remove sediment
- -not interfere with construction activities

Storage Volume: The storage volume behind the dam shall be at least 3,600 cubic feet per acre of drainage area to the dam. This volume is measured one foot below the crest of the dam.

Dam Section:

Top Width 5 feet minimum @ crest

Side Slopes 2:1 upstream slope

3:1 downstream slope

Height 6' max to spillway crest

Length of Crest: The crest length should be designed to carry the 10 yr. peak runoff with a flow depth of 1 foot and 1 foot of freeboard.

Rock at the abutments should extend at least 2 feet above the spillway and be at least 2 feet thick. These rock abutments should extend at least one foot above the downstream slope to prevent abutment scour. A rock apron at least 1.5 feet thick should extend downstream from the toe of the dam a distance equal to the height of the dam to protect the outlet area from scour.

Rock Fill: The rock fill should be well graded, hard, erosion resistant stone with a minimum d_{50} size of 9 inches. A "key trench" lined with geotextile filter fabric should be installed in the soil foundation under the rock fill. The filter fabric must extend from the key trench to the downstream edge of the apron and abutments to prevent soil movement and piping under the dam.

The upstream face of the dam should be covered with a fine gravel (NYS-DOT #1 washed stone or equal) a minimum 3 feet thick to reduce the drainage rate.

Trapping Efficiency: To obtain maximum trapping efficiency, design for a long detention period. Usually a minimum of eight (8) hours before the basin is completely drained. Maximize the length of travel of sediment laden water from the inlet to the drain. Achieve a surface area equal to 0.01 acres per cfs (inflow) based on the 10-year storm.

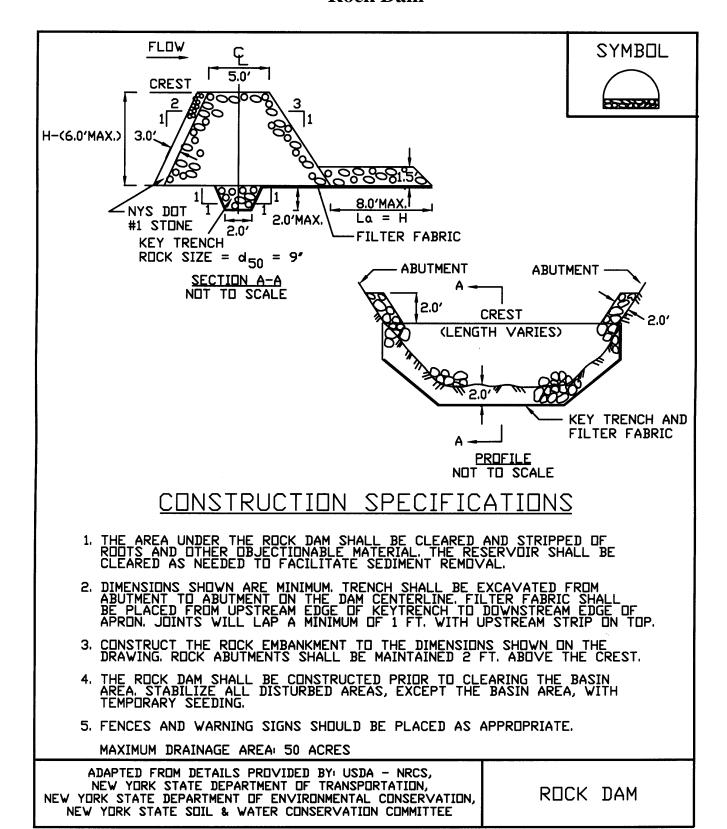
See Figure 5A.10 on page 5A.26 for details.

Maintenance

Check the basin area after each rainfall event. Remove sediment and restore original volume when sediment accumulates to one-half the design volume. Check the structure for erosion, piping, and rock displacement after each significant event and replace immediately.

Remove the structure and any sediment immediately after the construction area has been permanently stabilized. All water should be removed from the basin prior to the removal of the rock dam. Sediment should be placed in designated disposal areas and not allowed to flow into streams or drainage ways during structure removal.

Figure 5A.10 Rock Dam



STANDARD AND SPECIFICATIONS FOR STORM DRAIN INLET PROTECTION



Definition

A temporary, somewhat permeable barrier, installed around inlets in the form of a fence, berm or excavation around an opening, trapping water and thereby reducing the sediment content of sediment laden water by settling.

Purpose

To prevent heavily sediment laden water from entering a storm drain system through inlets.

Conditions Where Practice Applies

This practice shall be used where the drainage area to an inlet is disturbed, it is not possible to temporarily divert the storm drain outfall into a trapping device, and watertight blocking of inlets is not advisable. **It is not to be used in place of sediment trapping devices.** This may be used in conjunction with storm drain diversion to help prevent siltation of pipes installed with low slope angle.

Types of Storm Drain Inlet Practices

There are four (4) specific types of storm drain inlet protection practices that vary according to their function, location, drainage area, and availability of materials:

- I. Excavated Drop Inlet Protection
- II. Fabric Drop Inlet Protection
- III. Stone & Block Drop Inlet Protection
- IV. Curb Drop Inlet Protection

Design Criteria

Drainage Area – The drainage area for storm drain inlets shall not exceed one acre. The crest elevations of these practices shall provide storage and minimize bypass flow.

Type I – Excavated Drop Inlet Protection

See details for Excavated Drop Inlet Protection in Figure 5A.11 on page 5A.29.

Limit the drainage area to the inlet device to 1 acre. Excavated side slopes shall be no steeper than 2:1. The minimum depth shall be 1 foot and the maximum depth 2 feet as measured from the crest of the inlet structure. Shape the excavated basin to fit conditions with the longest dimension oriented toward the longest inflow area to provide maximum trap efficiency. The capacity of the excavated basin should be established to contain 900 cubic feet per acre of disturbed area. Weep holes, protected by fabric and stone, should be provided for draining the temporary pool.

Inspect and clean the excavated basin after every storm. Sediment should be removed when 50 percent of the storage volume is achieved This material should be incorporated into the site in a stabilized manner.

Type II – Fabric Drop Inlet Protection

See Figure 5A.12 for details on Filter Fabric Drop Inlet Protection on page 5A.30.

Limit the drainage area to 1 acre per inlet device. Land area slope immediately surrounding this device should not exceed 1 percent. The maximum height of the fabric above the inlet crest shall not exceed 1.5 feet unless reinforced.

The top of the barrier should be maintained to allow overflow to drop into the drop inlet and not bypass the inlet to unprotected lower areas. Support stakes for fabric shall be a minimum of 3 feet long, spaced a maximum 3 feet apart. They should be driven close to the inlet so any overflow drops into the inlet and not on the unprotected soil. Improved performance and sediment storage volume can be obtained by excavating the area.

Inspect the fabric barrier after each rain event and make repairs as needed. Remove sediment from the pool area as necessary with care not to undercut or damage the filter fabric. Upon stabilization of the drainage area, remove all materials and unstable sediment and dispose of properly. Bring the adjacent area of the drop inlet to grade, smooth and compact and stabilize in the appropriate manner to the site.

If straw bales are used in lieu of filter fabric, they should be placed tight with the cut edge adhering to the ground at least 3 inches below the elevation of the drop inlet. Two anchor stakes per bale shall be driven flush to bale surface. Straw bales will be replaced every 4 months until the area is stabilized.

Type III - Stone and Block Drop Inlet Protection

See Figure 5A.13 for details on Stone and Block Drop Inlet Protection on page 5A.31.

Limit the drainage area to 1 acre at the drop inlet. The stone barrier should have a minimum height of 1 foot and a maximum height of 2 feet. Do not use mortar. The height should be limited to prevent excess ponding and bypass flow.

Recess the first course of blocks at least 2 inches below the crest opening of the storm drain for lateral support. Subsequent courses can be supported laterally if needed by placing a 2x4 inch wood stud through the block openings perpendicular to the course. The bottom row should have a few blocks oriented so flow can drain through the block to dewater the basin area.

The stone should be placed just below the top of the blocks on slopes of 2:1 or flatter. Place hardware cloth of wire mesh with ½ inch openings over all block openings to hold stone in place.

As an optional design, the concrete blocks may be omitted and the entire structure constructed of stone, ringing the outlet ("doughnut"). The stone should be kept at a 3:1 slope toward the inlet to keep it from being washed into the inlet.

A level area 1 foot wide and four inches below the crest will further prevent wash. Stone on the slope toward the inlet should be at least 3 inches in size for stability and 1 inch or smaller away from the inlet to control flow rate. The elevation of the top of the stone crest must be maintained 6 inches lower than the ground elevation down slope from the inlet to ensure that all storm flows pass over the stone into the storm drain and not past the structure. Temporary diking should be used as necessary to prevent bypass flow.

The barrier should be inspected after each rain event and repairs made where needed. Remove sediment as necessary to provide for accurate storage volume for subsequent rains. Upon stabilization of contributing drainage area, remove all materials and any unstable soil and dispose of properly.

Bring the disturbed area to proper grade, smooth, compact and stabilized in a manner appropriate to the site.

Type IV – Curb Drop Inlet Protection

See Figure 5A. 14 for details on Curb Drop Inlet Protection on page 5A.32.

The drainage area should be limited to 1 acre at the drop inlet. The wire mesh must be of sufficient strength to support the filter fabric and stone with the water fully impounded against it. Stone is to be 2 inches in size and clean. The filter fabric must be of a type approved for this purpose with an equivalent opening size (EOS) of 40-85. The protective structure will be constructed to extend beyond the inlet 2 feet in both directions. Assure that storm flow does not bypass the inlet by installing temporary dikes (such as sand bags) directing flow into the inlet. Make sure that the overflow weir is stable. Traffic safety shall be integrated with the use of this practice.

The structure should be inspected after every storm event. Any sediment should be removed and disposed of on the site. Any stone missing should be replaced. Check materials for proper anchorage and secure as necessary.

Figure 5A.11 Excavated Drop Inlet Protection

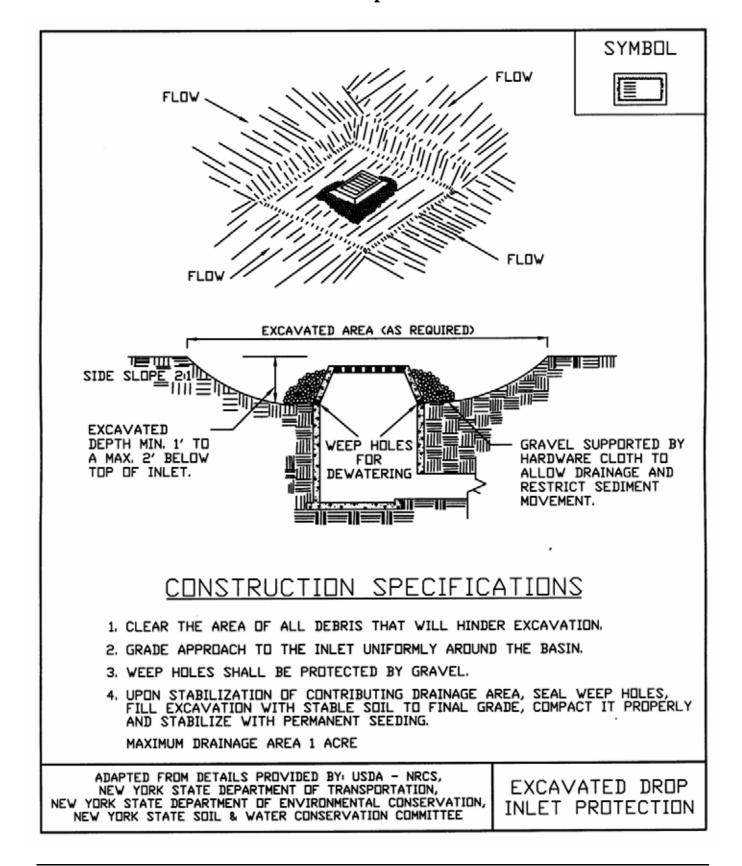


Figure 5A.12 Filter Fabric Drop Inlet Protection

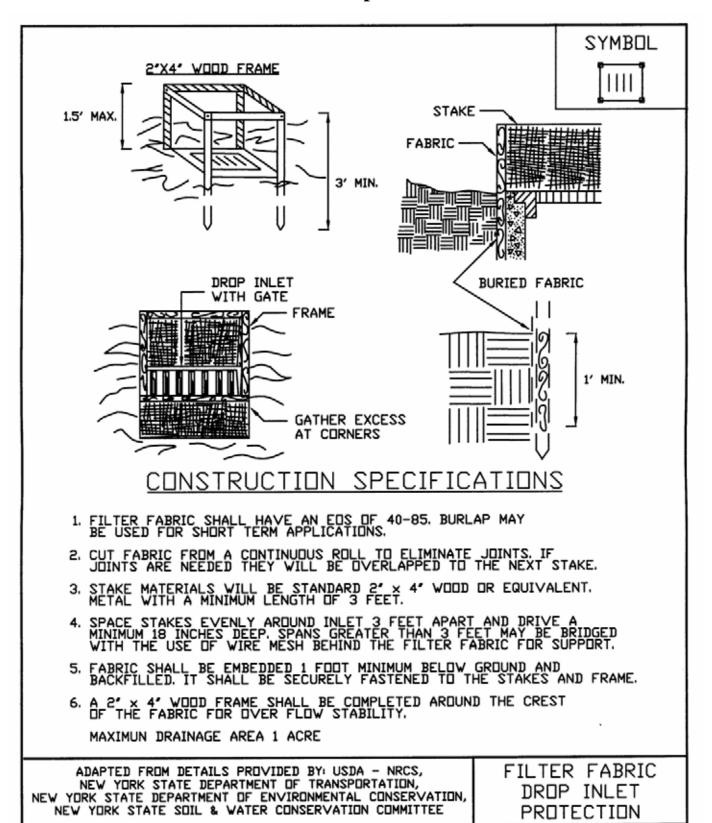


Figure 5A.13 Stone & Block Drop Inlet Protection

