

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

**CARROLL SOLID WASTE MANAGEMENT FACILITY
CARROLL, NEW YORK**



Prepared on behalf of:

Sealand Waste, LLC
85 High Tech Drive
Rush, New York 14543

Prepared by:

DAIGLER ENGINEERING P.C.
2620 Grand Island Blvd.
Grand Island, New York 14072-2131

April 2015

Revised October 2015

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Attachment 3	Site Map & Phasing Plan
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Attachment 7	Employee Training and Education Log
Attachment 8	Project-Specific Erosion and Sediment Control Plans
Attachment 9	Discharge Monitoring Reports, Laboratory Results, & Chain of Custody Forms

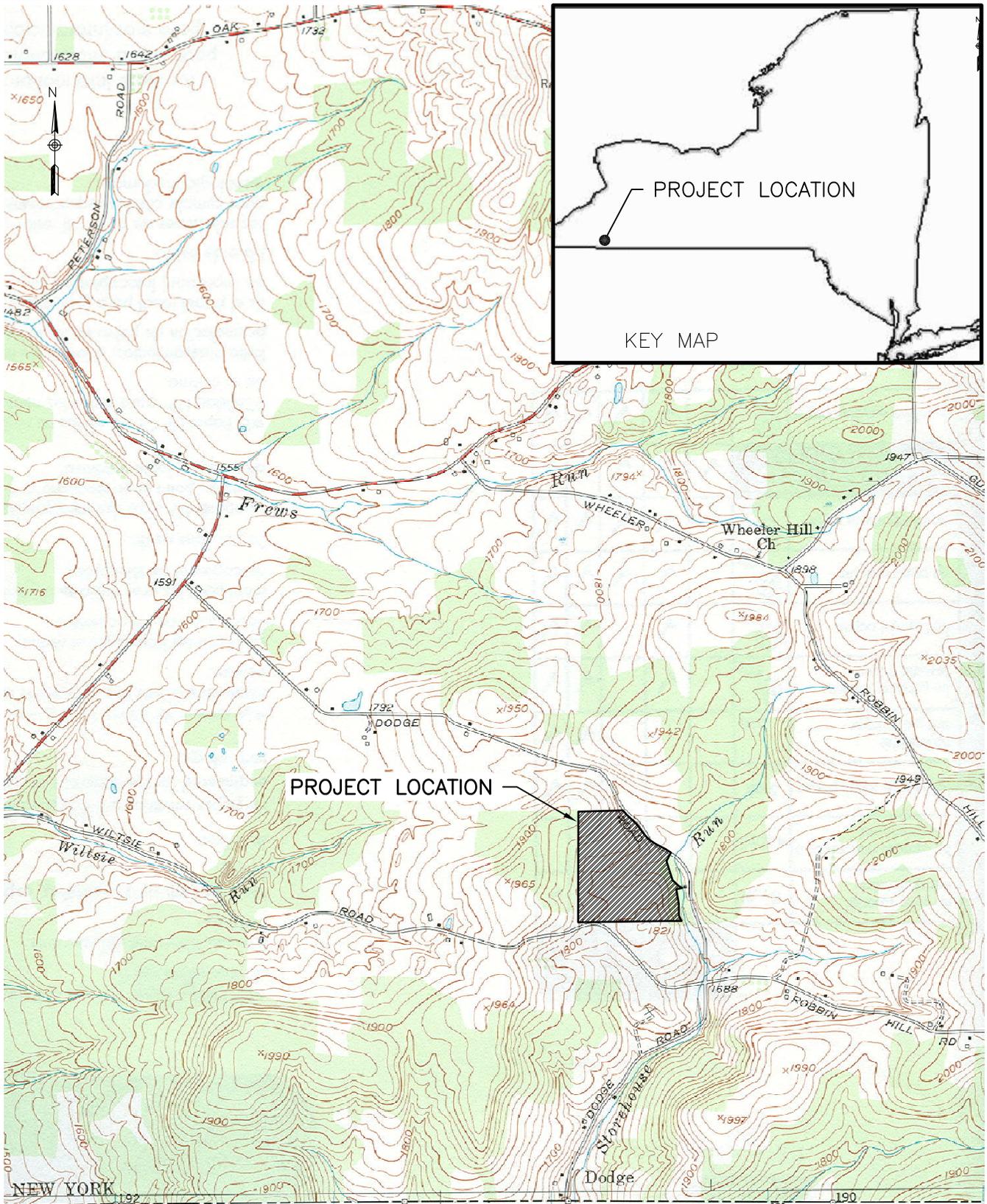
1 GENERAL SITE DESCRIPTION

1.1 BACKGROUND

The Jones-Carroll Landfill, located on Dodge Road in the Town of Carroll, Chautauqua County, New York, is currently a three-acre, closed construction and demolition (C&D) debris landfill. A general location map is shown in Figure 1. The property was originally the site of a small surface mine; however, on depleting the saleable mineral resources, permits were issued by the NYSDEC and the Town of Carroll Town Board for development of the construction and demolition debris landfill. At this time, the existing three-acre landfill has been capped with a soil barrier layer and topsoil layer. The topsoil layer supports a vigorous growth of a mixture of fescue, clover, and rye. This landfill is estimated to contain approximately 53,000 cubic yards of C&D waste. All waste loads delivered to the site were previously registered by container volume. Other areas of the site are undeveloped, or were used for stockpiling metal scrap for resale and cover soil borrow areas. A metal pole building houses tools and equipment for minor repairs to facility equipment. Currently, no landfilling, recycling, or other associated operations are occurring at the site.

Sealand Waste, LLC (Sealand) is proposing to purchase the 53.9-acre parcel and continue to develop the C&D landfill activity beyond the three-acre limit allowed by the New York State Department of Environmental Conservation (NYSDEC) Permit (#9-0624-00025/00002-0 expired October 31, 2007) and add demolition debris processing and yard waste composting to the operation. Once landfilling operations are complete, a final cover system will be deployed and the minimum 30-year post-closure activities will commence, including monitoring and maintenance.

Sealand proposes to remove the existing waste from the three-acre footprint, and place the material inside the proposed liner system for the expanded approximate 35-acre landfill footprint in accordance with the applicable local, state, and federal requirements. The proposed solid waste management facility will accept C&D waste for landfilling, as well as operate a recycling facility, including C&D processing and yard waste composting. The landfilling operation will consist of four cells to be constructed in phases as described in Section 1.3. The C&D processing operation will include a tub grinder, impact crusher with magnetic separator,



TOPOGRAPHY FROM USGS IVORY 2 QUADRANGLE



GENERAL LOCATION MAP			FIGURE 1
STORMWATER POLLUTION PREVENTION PLAN			
SEALAND WASTE, LLC.			
TOWN OF CARROLL	CHAUTAUQUA COUNTY	NEW YORK	
January 2013	SCALE: NOT TO SCALE	REVISION # 0	

and a shaker screen and will be used to process select waste loads that contain sufficient quantities of concrete and rubble, asphalt paving, bricks, rock, soil, wood, or ferrous metals. The low-tech windrow composting operation will process source-separated yard waste. The recycling facility is to be constructed within the design footprint of the landfill. As such, its location and operation is tied to the landfill phasing. Other portions of the site will be developed with ancillary and support facilities to include a scale house, office building, access roadways, leachate storage facility, maintenance building, and stormwater management basins and structures. Other ancillary operations will include the excavation and placement of onsite structural fill soils, the screening of onsite soils for liner and leachate collection system construction, and the import of drainage aggregate for a portion of the primary leachate collection system drainage layer. The remaining portions of the site are expected to be undeveloped forest and meadow or brush land.

1.2 SWPPP REQUIREMENTS

Development of the facility will require Sealand Form NY-2C for coverage under a NYS State Pollutant Discharge Elimination System (SPDES) individual permit. This permit will cover the facility's stormwater discharges to surface waters of the State. A copy of the permit is provided in Attachment 1 and a copy of Form NY-2C in Attachment 2. Should a permit modification or termination of coverage under the permit be submitted, copies shall be retained in Attachment 2.

Prior to submittal of Form NY-2C, this Stormwater Pollution Prevention Plan (SWPPP) was prepared to address current and future activities at the site. Additionally, based on concerns voiced during the public comment period following the public scoping meeting for this project, a copy of the Warren County, Pennsylvania Stormwater Management Plan was obtained. Warren County Pennsylvania is downstream of the Carroll Landfill project area, therefore a demonstration of consistency of this SWPPP with the Warren County, Pennsylvania Stormwater Management Plan was requested. A review of the Warren County plan was completed and it was determined that generally, the information contained within this SWPPP conforms to the Warren County design strategies.

The industrial activities at the site are to include discharges to surface waters associated with the initial and ongoing construction activities of a landfill and the processing, reclaiming, and

wholesale distribution of scrap, and the operation of a grinder at the recycling portion of the facility.

Because the landfill will be developed in phases (as shown in Attachment 3 on Permit Drawing Sheet PD-10: Phasing Plan¹), this SWPPP was also developed using a phased approach paralleling that of the landfill development progression. This approach is intended to outline the future phases of development while providing detailed information on how the SWPPP requirements are fulfilled during the initial phases of construction. This SWPPP applies to all activities prior to the first load of waste being delivered and landfilled at the site. Although some of the best management practices (BMPs) described may apply to both present and future operations, the SWPPP shall be amended before future phases of construction are developed. The following document is intended for use during the “initial construction” stage, as shown on Sheet PD-10.

1.3 PHASED FACILITY OPERATIONS

The fill progression plan shown on Sheet PD-10 has been divided into six different stages and provides a phased liner construction and waste placement strategy. Temporary rainfall diversion flaps will be used to limit tributary runoff areas in newly constructed cells to about three acres. The initial construction phase will include the construction and installation of all required ancillary facilities. The initial construction phase of the landfill will also include liner construction of Cell 1 in the southeastern part of the project site and borrowing in the southwestern corner of the project site. A composite liner system will be installed above the prepared subgrade and groundwater drainage system. For construction of the subgrade, a three step excavation is planned, as follows:

- Step 1 – Excavation to grades that restrict the depth and the steepness of the cut slopes without the need to install the identified groundwater drainage systems;
 - Step 2 – Installation of the groundwater trench drain along the southeasterly extent of the landfill. The heads in this drain will be lowered to facilitate the remaining excavation;
- and,

¹ All permit drawings referenced in this SWPPP will be submitted to the NYSDEC as part of the Part 360 Carroll Landfill Expansion Application, Revised October 2015 (Daigler Engineering, P.C.).

- Step 3 – Excavation to the final subgrade elevations after dewatering lowers the hydraulic heads in the highly weathered shale/upper bedrock at the sump.

Construction of temporary sumps, sediment basins, and leachate forcemains will occur. Additionally, the construction of the western diversion channels and ponds will commence. Phase 4 will begin with the active filling of Cell 1. The recycling facility will be constructed in its initial location within the design area of Cell 4 and begin operation during Phase 4, as well. Liner construction will continue with Cell 2 to the southwest corner of the project site. Phase 5 will continue with active landfilling of Cell 1 and Cell 2 in the southern portion of the project site. Liner construction will continue with Cell 3 and borrowing will move into the northern portion of the site. A new access road will be constructed and the weigh scale, residential drop off, leachate storage tank, and leachate forcemain will be relocated. Toward the end of Phase 5, the recycling facility also will be relocated sequentially to accommodate borrow activity in Cell 4. The new location for the recycling facility will be above the intermediate cover within Cells 1 and 2. Phase 6 will begin with active filling of Cell 3. Liner construction will occur in the northern region of the project site. Phase 7 involves active landfill operation in the central and northern regions. An MSE berm will be constructed on the northeast side of the landfill. In the beginning of Phase 8 the recycling facility will be closed in accordance with a NYSDEC approved closure plan and active landfilling will continue in the center bringing the entire landfill up to final grades. Phase 8 ends with the completion of the final cover for the landfill.

Table 1 outlines the approximate impervious area present at the site before, during, and after construction. The following formula was used to compute the percent imperviousness of the site:

$$\% \text{ Imperviousness} = \frac{(\text{Area Roofs} + \text{Area Paved and Other Impervious Surfaces})}{\text{Total Area of Facility}} \times 100$$

Table 1: Impervious Surface Estimate

Construction Phase	Approximate Impervious Surface	Percent Imperviousness
Pre-Development	3.5 acres	6.5%
Initial Construction	12.5 acres	23.2%
Post-Closure	5.7 acres	10.6%

1.4 STORMWATER MANAGEMENT AND RECEIVING WATERS

Stormwater management during initial construction and post-closure are described in detail in Section 5.10. Generally, stormwater not coming in contact with facility operations (run-on from the north and west) will be conveyed via grass-lined channels and/or culverts to detention ponds. The detention ponds will store runoff for extended periods to maintain flows at or less than pre-development, which will control erosion on channel beds and banks downstream of discharge locations. Projected flow volumes are quantified in the Engineering Report.

The subject property is located within the Conewango Creek watershed, or more specifically within the Storehouse Run (otherwise known as Dodge Creek) drainage basin. The predominant surface water drainage feature on the property is a small unnamed, intermittent watercourse flowing along the central swale from west to east and draining a total of about 40 acres. Storehouse Run is the primary receiving stream for all runoff from the site. Storehouse Run is a perennial trout stream flowing from north to south near the eastern property boundary. Storehouse Run crosses the state line into Warren County, Pennsylvania approximately 1.4 miles west of the Chautauqua/Cattaraugus county line, and eventually discharges to Conewango Creek, at a point about four miles southwest of the site. Storehouse Run was given a Class C(T) rating in 6 NYCRR 800.6-2. However, some years later, Storehouse Run was unofficially re-classified as C(TS) (Cornett, 2004)².

Once construction of the facility begins, runoff draining to the unnamed intermittent watercourse flowing across the site will be intercepted by channels and detention ponds along the western

² Cornett, Scott. (2004). Memorandum Subject: Survey of Storehouse Run (Dodge Creek). New York State Department of Environmental Conservation, Division of Fish, Wildlife, and Marine Resources, Region 9, Allegany, New York. September 7, 2004.

property boundary and treated through settling. The stormwater will be discharged offsite via the Sandberg Road roadside channel, flow through an existing 15-inch diameter culvert under Sandberg Road, and eventually draining to Storehouse Run.

Precipitation falling directly on waste will be contained by the landfill liner system and treated offsite in a Publically Owned Treatment Works (POTW) as leachate. Precipitation falling on covered landfill areas will be conveyed via grass-lined channels, rock-lined channels, and/or culverts to permanent sediment basins to settle before being treated by graded filters and discharged to Storehouse Run. Again, the basins will minimize post-development flows to, or less than, pre-development flows at downstream study points as described in the Engineering Report.

Temporary Sediment Basin 1 proposed during initial construction will discharge to the onsite intermittent channel along the eastern side of the property.

According to the United States Fish and Wildlife Service's National Wetlands Inventory and official NYSDEC freshwater wetland map references available for the area, there are no mapped wetlands on the site. However, in 2004 Sealand retained Environmental Design & Research, PC of Syracuse, New York to complete a site inspection and flag the boundaries of suspected wetland areas in accordance with criteria set forth in the *1987 Corps of Engineers Wetlands Delineation Manual*. On October 13, 2005 the United States Army Corps of Engineers (USACE) verified and approved the delineation by issuance of their jurisdictional determination. However, due to the litigation delay in the project, this initial jurisdictional determination expired on October 13, 2010, five years from the date of issuance, requiring the onsite wetlands to be re-delineated.

The wetland re-delineation was completed by Earth Dimension, Inc (EDI) of Elma, New York on November 2nd and 3rd, 2010. Five wetland areas were identified on the project site, as well as, eight associated drainage features. The wetlands identified by EDI were found to consist of forested wetland drain, emergent wetland, shrub swamp, and forested hemlock swamp communities. It is acknowledged that the site includes 6.03 acres of jurisdictional wetlands and approximately 3,035 linear feet of jurisdictional drainageways that may not be disturbed without a Section 404 Wetlands Disturbance Permit from the USACE and its associated Section 401

Water Quality Certification from the State. The project will impact 5.8 acres of federally jurisdictional wetland and 2,844 linear feet of drainage way. The mitigation plan is being developed under the direction of the USACE and is expected to include offsite mitigatory wetland, as well as, some onsite mitigation aspects incorporated into the final design of the non-contact water channels and detention ponds.

Stormwater flows and pathways for the initial construction phase are indicated by the arrows on the site map in Attachment 3. Receiving water bodies including intermittent streams, wetlands, and Storehouse Run are also labeled on the site map.

2 POLLUTION PREVENTION TEAM

The pollution prevention team consists of a group of individuals who are familiar with the facility and site operations. The team assists the owner/operator in developing, implementing, maintaining, and revising the facility's SWPPP. Table 2 lists the individuals and their responsibilities in ensuring information in the SWPPP is current.

Table 2: Pollution Prevention Team

Title	Responsibilities
Chief Operating Officer	<ul style="list-style-type: none"> • Permit Matters • Responsible Corporate Official (Signatory Authority) • Conduct Training and Education Sessions
General Manager	<ul style="list-style-type: none"> • Team Coordinator • Conduct Training and Education Sessions
Site Manager	<ul style="list-style-type: none"> • Inspections and Monitoring Requirements • Conduct Training and Education Sessions
Waste Approval Coordinator	<ul style="list-style-type: none"> • Inbound Waste and Recyclable Control Program Supervisor • Conduct Training and Education Sessions
Senior Equipment Mechanic	<ul style="list-style-type: none"> • Secondary Containment at Storage and Transfer Areas • Preventative Maintenance Program Supervisor • Conduct Training and Education Sessions

The chief operating officer is the owner/operator of the facility and will manage the permitting issues associated with landfill operations. He/she will also be the responsible corporate official accountable for signing all forms, reports, and certifications submitted to the NYSDEC.

The General Manager will act as the team coordinator. The team coordinator is responsible for managing the SWPPP and ensuring its contents are accurate and aim to protect the waters of the State. The team coordinator must manage the inspections and monitoring, and the associated documentation. Additionally, the team coordinator reports to the chief operating officer and conveys information to the other members of the pollution prevention team. Familiarity with the facility's operation and BMP requirements is also necessary for the team coordinator to understand so that the potential for pollution and stormwater contamination can be prevented through implementation of the SWPPP.

The site manager is responsible for all inspection and monitoring requirements including the following:

- Regular Visual Inspections;
- Site Compliance Inspections;
- Quarterly Visual Monitoring Inspections;
- Annual Dry Weather Flow Monitoring;
- Benchmark Monitoring;
- Numeric Effluent Limitation Monitoring; and,
- Annual Certification Reports.

The waste approval coordinator will be responsible for managing the waste accepted by the facility through the inbound waste and recyclable control program. Weekly inspections of waste trucks at random to ensure acceptable waste loads are delivered to the facility will be included in the waste approval coordinator's duties. He/she will also establish the vendor certification forms signed by all vendors which acknowledge that each vendor understands the wastes accepted by the facility.

The senior equipment mechanic will be responsible for preventing releases from spills and leaks by ensuring secondary containment structures at transfer and storage areas are in good working order. The senior equipment mechanic shall manage liquid storage areas and the maintenance shop by ensuring spill kits are fully stocked and secondary containment structures have the proper BMPs employed to prevent a release to the environment. Additionally, he/she will implement and supervise the preventative maintenance program.

All members of the pollution prevention team will coordinate and conduct the orientation and annual education and training sessions for employees. Additionally, all members will be responsible for implementing the contents of the SWPPP and ensuring its currency.

3 POTENTIAL POLLUTANT SOURCES

The following table contains a list of industrial activities present at the site during initial construction. For each location identified, potential pollutants associated with that activity or material have been described. The site map in Attachment 3 shows the locations of each activity described. Earth/Soil Moving will occur throughout the site.

Table 3: Summary of Potential Pollutants and Pollutant Sources

Industrial Activity	Potential Pollutants
Soil/Aggregate Stockpiles	Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Turbidity
Earth/Soil Moving	TSS, TDS, Turbidity
Vehicle Operation and Maintenance	Diesel Fuel, Gasoline, Oils, Greases, Metals
Access and Haul Roads	TSS, TDS, Turbidity, Oils, Greases
Chemical Storage	Bulk Petroleum Products and Small Containers of Paints, Solvents, Degreasers, and other Equipment Maintenance Related Chemicals
Leachate Tank and Load-Out Pad Area	TDS, Organics, Metals, Other Ions, Trace Elements, Chemical Oxygen Demand (COD), pH, Alkalinity

4 SPILLS AND RELEASES

In the event of a spill or release, the location where the spill will likely discharge could impact stormwater. By identifying these locations prior to a spill, the flow path can be predicted and the contaminant intercepted before coming into contact with and impacting stormwater. No spills have been recorded at the facility to date. A form to document all spills or releases is provided in Attachment 4. An entry on the provided form should be completed in the event of a spill or release and maintained in the SWPPP.

Locations of potential spills that could impact stormwater include the leachate storage tank and the maintenance building where petroleum and other materials are stored. Additional information including their drainage pathways are specified on the site map and provided in Section 5.4.

5 STORMWATER CONTROLS

5.1 GOOD HOUSEKEEPING & MINIMIZING EXPOSURE

The implementation of good housekeeping practices not only aims to prevent accidental and unwanted discharges, but will promote a safe working environment. To prevent the potential for stormwater pollution and to keep exposed areas clean, good housekeeping practices shall be implemented throughout the facility.

Liquid storage areas (i.e. maintenance shop and the leachate tank and load-out pad) and locations with the potential for leakage or spillage shall be inspected regularly to ensure storage containers and containment structures are in good working order. Good housekeeping will include ensuring secondary containment drainage systems and transfer area secondary containment drainage systems are locked in a closed position when not in use. All drums shall be properly labeled and maintained indoors, in a bermed area, in overpack containers, on spill pallets, or in similar containment devices for storage. Material handling and staging areas will be properly identified and facility staff will be educated on the proper methods and cleanup procedures. Diversion of runoff away from these storage areas via dikes, berms, containment trenches, culverts, and surface grading will minimize stormwater from coming into contact with potential contaminants. Additionally, permanent or semi-permanent covers over containment bins and dumpsters, and locations where materials are transferred, stored, or stockpiled shall be provided to prevent contact with stormwater. Similarly, drip pans shall be inspected for leaks and potential overflow, and employed under leaking equipment until the leak is repaired. Observation and identification of minor issues by staff throughout the workday will prevent major issues from occurring. Any problems encountered shall be promptly remedied.

Municipal waste and recyclables produced by onsite personnel shall be regularly collected and properly disposed of. The proper containment or disposal/recycling of residual liquids from recyclable containers and the prevention of the accumulation of particulate matter and fluids in high traffic areas shall be managed with good housekeeping measures. The frequent sweeping of paved roads, Dodge Road in particular, and the maintenance of haul and access roads will also be conducted. Additionally, well maintained and properly located lavatory facilities will be present to prevent stormwater contamination.

5.2 REGULAR INSPECTIONS

Regular visual inspections of all BMPs shall be conducted and documented by the site manager at least once every seven calendar days. The goal of these inspections is to evaluate conditions and maintenance needs of stormwater management devices and to avoid situations that may result in the practice becoming a source of pollutants, detect leaks and ensure the good condition of drums, tanks, and containers, and evaluate the performance of existing stormwater BMPs.

Regular visual inspections of all Erosion and Sediment Controls (ESCs) shall also be conducted at least once every seven calendar days. When disturbance of more than five acres of soil at any one time occurs at the site, two site inspections every seven calendar days will be conducted, separated by a minimum of two full calendar days.

The landfill will be formally inspected by the site manager or his designated representative on a weekly basis for malfunctions, deterioration, operator errors, and fugitive discharges which may cause a release to the environment, or a threat to human health (see Operation and Maintenance Manual (O&M)). Similarly, the O&M Manual and (Spill Prevention, Control, and Countermeasure (SPCC) Plan include the inspection of petroleum bulk storage areas. To prevent multiple inspections of the same areas, the items covered on the O&M Manual and SPCC Plan inspection forms will not be included on the SWPPP regular inspection forms. All inspection forms shall be maintained in their respective documents and referenced when necessary.

Routine inspections of all BMPs (other than erosion and sediment controls, see Section 5.9) shall include the following areas:

- Chemical handling and storage areas (SPCC Plan);
- Vehicle and equipment maintenance areas;
- Fueling areas (SPCC Plan);
- Active landfill operation areas (O&M Weekly Site Inspection);
- Areas used for storage of materials/wastes that are exposed to precipitation (O&M Weekly Site Inspection);
- Leachate collection and treatment systems (O&M Weekly Site Inspection);

- Locations where equipment and waste trucks enter and exit the site (O&M Weekly Site Inspection); and,
- Other potential sources of pollution.

The SWPPP inspection form is provided and copies should be maintained for five years from the termination of this permit in Attachment 5 of this SWPPP. This form will be used and will aid in determining the effectiveness of the constructed BMPs, and allow for inspection of all areas of disturbance and all points of discharge. Additionally, color digital photographs shall be printed within seven calendar days of the inspection and maintained along with the inspection form. If corrective action is taken, photographs after the remedy is employed should also be appended to the inspection form.

5.3 PREVENTATIVE MAINTENANCE PROGRAM

Preventative maintenance programs are important at any facility in order to avoid stormwater pollution. Inspecting, maintaining, and repairing industrial equipment and BMPs, as well as documenting any maintenance performed on a regular basis will allow for the continued operation of such systems and the minimization of stormwater contamination. Specifically, the maintenance of all containers for chemical storage, all elements of leachate collection and treatment systems, and the integrity and effectiveness of intermediate and/or final cover shall be conducted to prevent leaking and commingling with stormwater. Processing equipment maintenance activities are to be performed daily as identified in Table 10-1 of the O&M Manual.

Regular inspections as described in Section 5.2 will aid in identifying required maintenance on ineffectively operating BMPs. Routine maintenance of all equipment and machinery will be handled onsite, including certain major repair work by laborers. Some major repairs requiring special tools will be completed by local private repair services. Preventative maintenance should be completed prior to the next anticipated storm event to maintain the effectiveness of stormwater controls. Attachment 6 provides a form to document all maintenance activities. An entry on this form should be filled out accordingly and maintained in the SWPPP.

5.4 SPILL PREVENTION AND RESPONSE

The following sections identify the areas at the site that have the potential to cause spills and leaks which may impact stormwater, and BMPs that shall be employed to minimize chemical exposure.

5.4.1 Leachate Storage Tank

The leachate collection and removal system is designed to remove the peak flow of leachate attributed to a 25-year, 24-hour storm from the landfill within seven days. The baseliner slope will provide gravity drainage of leachate through a stone blanket drain and pipe network to a sump at the low point in the southeast corner of the landfill. Leachate will be pumped from the sump through a side slope riser pipe to the leachate forcemain, and discharge to the leachate storage tank.

The leachate storage and load-out facility includes the transfer pumping and a 161,000 gallon, aboveground, glass-fused-to-steel, bolted-plate storage tank. Per the requirements of Subpart 360-6, a 177,100 gallon minimum secondary containment tank, allowing for containment of 110% of the volume of the primary leachate storage tank, is provided. The primary and secondary tanks are as shown on the Leachate Storage and Loadout Details permit drawing. The leachate storage and transportation strategy is designed to manage leachate generation associated with the three month peak flow period as required by paragraph 360-2.7(b)(10). The transportation schedule will require hauling of two to five loads of leachate from the site each day during peak leachate generation periods.

The transfer pumping system incorporates valves, controls, pumps, and other components designed to convey and direct collected leachate from the leachate sump in the landfill to the storage tank. The facility includes a truck loading pad that is designed to contain spills, directing any spilled leachate or contaminated runoff back into the storage tank. The storage tank is positioned above a bed of coarse sand inside a geomembrane-lined, reinforced concrete ringwall foundation that allows for the containment and detection of any minor leakage from the tank structure. The tank, ringwall foundation, and the leak detection system are positioned inside a secondary containment tank with a clay-lined base, designed to retain 110% of the leachate storage tank volume in the event of a more significant leak.

5.4.2 Petroleum Bulk Storage

The maintenance and repair shop will house the parts room and a service area. The service area will be complete with machines, tools, equipment, and supplies for the comprehensive maintenance and repair of heavy equipment, small tools, and machines used in the site operations. The first floor of the maintenance shop will be graded so that any spill or leak flows towards the center of the building and into a grated floor sump. In the event of a spill or leak, the grated floor sump will retain the material and the proper removal/disposal of the material will be required. The grated floor sump will have no engineered outlet and will require manual removal of both contaminated and/or uncontaminated liquid.

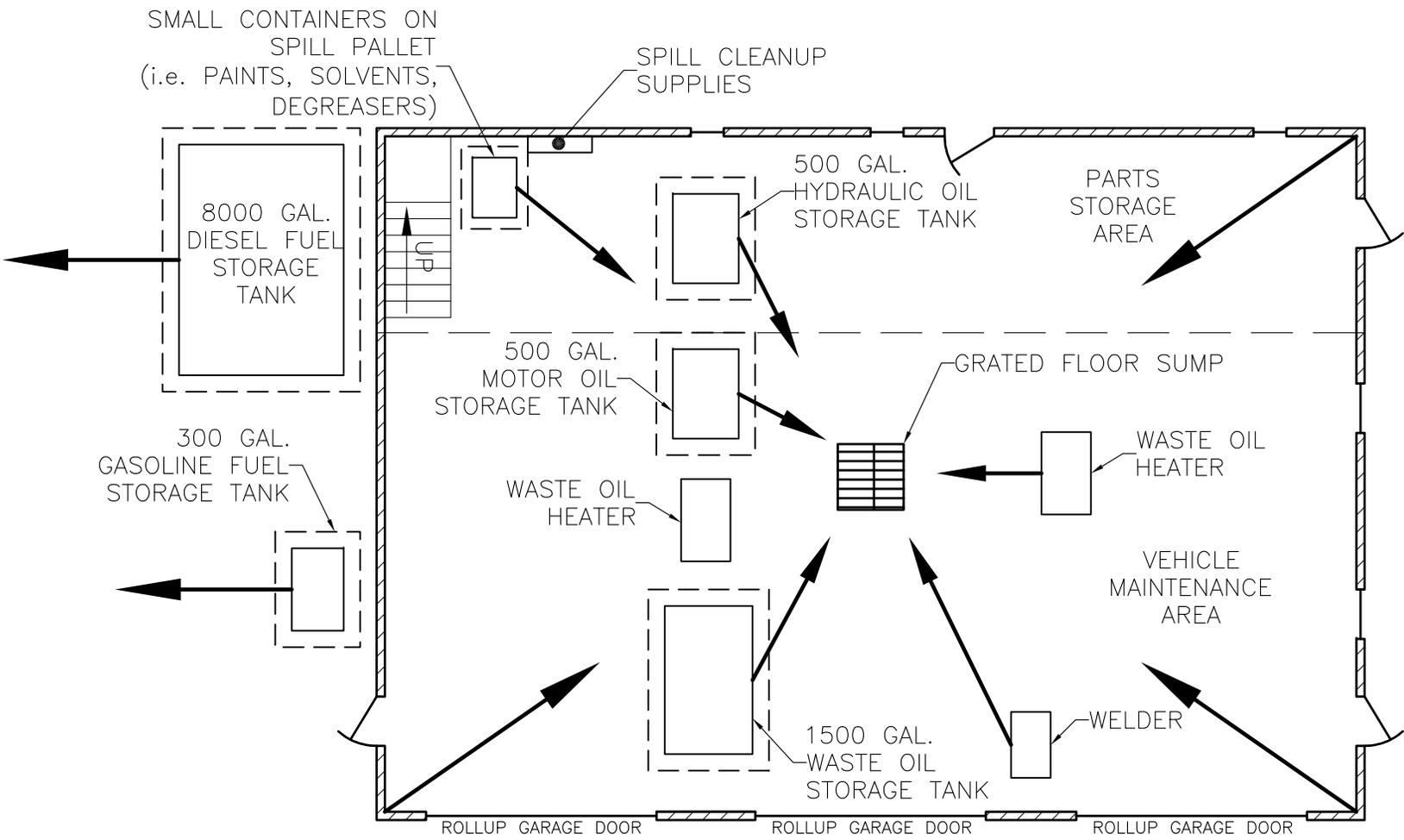
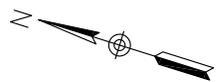
Absorbents will be used when appropriate to absorb the liquid in the grated floor sump. Soiled materials shall be placed in a designated drum, container, or bag located on spill pallets or in other secondary containment measures in the maintenance shop in accordance with the SPCC Plan. The containers will be properly labeled and constructed adequately for the material being stored so as to not corrode or cause a reaction. A hazardous waste determination shall be performed on all soiled absorbents to determine proper disposal of the material. If the material is determined hazardous, disposal will comply with 6 NYCRR Parts 370-374 and 376, if not, disposal will be in compliance with Part 360.

Five tanks of petroleum liquids will be kept onsite for fueling and maintenance of equipment. An 8,000 gallon diesel tank and 300 gallon gasoline tank will be located outside of the equipment maintenance and repair shop, while a 1,500 gallon waste oil tank, 500 gallon hydraulic oil tank, and 500 gallon motor oil tank will be located inside as shown in Figure 2. These tanks will be constructed, installed, maintained, and inspected monthly under a valid petroleum bulk storage registration according to 6 NYCRR Parts 612-614. All tanks are constructed of steel, carbon steel, or iron and are assembled with a modified double-walled secondary containment system. Leak detection will consist of an impervious barrier/concrete pad and all tanks will be equipped with a product level gauge for overfill prevention. The 1,500 gallon waste oil tank will have aboveground steel, carbon steel, or iron piping with a pressurized piping leak detector. Inspections will be designed so that any stormwater accumulation in the secondary containment of the outdoor tanks and subsequent contamination of surfacewater does not occur.

A valid registration certificate shall be kept current and displayed onsite at all times. Monthly inspections of these tanks will be required to detect any abnormalities, deficiencies, or leaks in accordance with 6 NYCRR Subpart 613.6 and records of the inspections must be made available to the NYSDEC upon request. An inspection form is provided in the O&M Manual.

The operator or carrier shall employ practices for preventing transfer spills and accidental discharges. Prior to transfer, the operator or carrier must determine that the receiving tank has available capacity to receive the volume of petroleum to be transferred. The operator or carrier

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LEGEND:

--- SECONDARY CONTAINMENT

← FLOW PATHS

DAIGLER ENGINEERING, P.C.
 CIVIL & GEO-ENVIRONMENTAL ENGINEERING
 2620 GRAND ISLAND BLVD. GRAND ISLAND, NEW YORK 14072

SEALAND WASTE, LLC.		MAINTENANCE SHOP FIRST FLOOR PLAN STORMWATER POLLUTION PREVENTION PLAN			FIGURE 2
SCALE: NTS	REVISION # 0				
February 2013		TOWN OF CARROLL	CHAUTAUQUA COUNTY	NEW YORK	

must monitor every aspect of the delivery and take immediate action to stop the flow of petroleum when the working capacity of the tanks has been reached or an equipment failure or emergency occurs. Since the total capacity of the storage tanks is greater than 1,320 gallons, the facility is considered a non-transportation-related facility, and partakes in the storing, use, and consumption of oil. A SPCC Plan has been developed according to the requirements of 40 CFR 112.7 and Subparts B and C of the rule.

Additionally, smaller containers unmanaged by the PBS certificate will be present in the shop and will consist of typical maintenance shop materials including paints, solvents, degreasers, etc. Appropriate spill containment and good housekeeping measures, as specified in Section 5.1, will be prescribed and followed by site personnel for such items.

5.4.3 Spill Cleanup and Response

If stormwater contamination or the potential for stormwater contamination is detected, proper cleanup methods to alleviate the problem shall be taken which include the use of spill kits, dry absorbents, wet vacuum, etc. The issue shall be documented on the form in Attachment 4 and reported to the appropriate individual listed in Table 2. Used spill kits and absorbents shall be properly disposed of and new materials restocked in their proper locations for future use.

In the event that spilled or leaked chemicals are detected in secondary containment systems, the containment system shall be emptied via siphon, pump, or valve, and properly disposed of within 24 hours of detection. The secondary containment system shall be thoroughly cleaned and rinsed three times to remove any residual contamination and the rinse water properly disposed. Prior to discharge of the next batch of stormwater, screening to determine if pollutants are present shall be done by performing a visual inspection for visible evidence of contamination. If detected, a sample of the first batch of stormwater after cleanup has occurred for volume, pH, the substance stored within the containment area, and any other pollutants of concern will determine if the accumulated stormwater can be discharged as uncontaminated water.

Similarly, if stormwater is detected in a secondary containment system during a regular inspection, screening, as described above, shall be conducted. Again, if no contamination is found, the water may be discharged as stormwater; however, if the screening suggests contamination, a sample shall be taken and analyzed, to determine proper disposal methods.

When accumulated stormwater requires removal, a logbook of each discharge shall be maintained on the form provided in the SPCC Plan.

Reporting of spills or leaks shall be reported to the NYSDEC within two hours by calling (518) 457-7362.

5.4.4 Secondary Containment at Storage and Transfer Areas

Monitoring of discharge volume/flow of all outlets from secondary containment systems and transfer areas shall be completed to ensure discharges are not occurring. In the event of a spill or leak from the storage area secondary containment system or the transfer area secondary containment system which is recorded on the log in Attachment 4, the first discharge following the cleanup of the spill or leak shall be sampled for volume/flow, pH, the substance of concern, and any other pollutants that may impact stormwater in accordance with 40 CFR 136. Monitoring records including laboratory testing results, chain of custody forms, etc. associated with the first discharge following a spill or leak shall also be maintained in Attachment 4 of this SWPPP.

5.5 TRAINING AND EDUCATION

The O&M Manual describes an employee training program which provides personnel with a structured and organized instruction program associated with their assigned duties, relating to both routine and emergency operating conditions. This training program includes notifications of the facility's operating requirements, instruction in waste management procedures, as well as inspection and maintenance procedures, emergency response procedures, and the proper use of personal protective and emergency equipment.

All new employees hired to work at the facility will be trained. As part of the introductory training efforts, each new employee will be provided a facility orientation. An explanation of the relationship between the employees' position and the operation of the facility will be provided. This will include a discussion of the site operations and an overview of the nature of the overall site activities including environmental stewardship, solid waste handling, and safety perspectives.

With regards to the SWPPP, the pollution prevention team must be given training on and understand the information presented within the SWPPP so this information can be conveyed to all employees. Employees and select subcontractors, when appropriate, will be educated on the SWPPP during their orientation with a refresher course being held annually. Training and education are intended to make all employees conscious of the potential for stormwater pollution so that impacts can be minimized and prevented. The form in Attachment 7 should be used to document the employees present for each SWPPP training and education meeting. Completed training logs should be kept on record in this attachment.

Training sessions will be conducted by a pollution prevention team member and will include the following topics:

- Purpose of the SWPPP;
- Spill response;
- Good housekeeping;
- Material management practices;
- How to recognize unauthorized discharges;
- How to evaluate the conditions and maintenance needs of stormwater controls and equipment that may contribute to contamination of stormwater if not functioning properly;
- Proper sampling and reporting procedures;
- How to identify when corrective actions are required;
- Identification of material that is not accepted at the facility;
- How to identify and remedy leaky containers and vehicles;
- Dry cleanup methods; and,
- Prohibition of non-stormwater discharges.

5.6 NON-STORMWATER DISCHARGES

Aside from non-stormwater flows such as firefighting activities, air conditioning or compressor condensate, irrigation drainage, landscape watering, external building wash downs, uncontaminated groundwater or spring water, or foundation drains, other non-stormwater discharges shall be eliminated immediately. Elimination of non-stormwater discharges are

important because this water can contain significant pollutant loads which can negatively impact the waters they are discharged to. The following describes the known non-stormwater discharges that will be present at the site during initial construction. These discharges are deemed allowable by documenting them in this SWPPP.

Currently, four groundwater drain associated with the existing landfill intercept perched groundwater and discharge it to the surface. Groundwater is directed through two, four-inch diameter Schedule 40 PVC drain tiles and two, six-inch diameter perforated HDPE drain tiles located below the soil liner at an elevation of approximately 1,776.5 feet amsl. The surface discharges along the northeastern and eastern edges of the existing landfill (Outfall 005, and 006, respectively) discharge to undisturbed areas and spread laterally over the ground without directly entering a surface water body; instead, seeping into the shallow subsurface, and apparently discharging to the drainage channel along Dodge Road. This roadside channel conveys drainage to the tributary of Storehouse Run. These drain tiles have been dry when observed and the surrounding ground does not show evidence of any active discharge. Outfall 04A and 04B are located along the southern and western edges of the existing landfill and will discharge to drainage channels eventually treated by Temporary Sediment Basin 1 (TSB-1) before discharging offsite through Outfall 004.

Drain Tile 2 has been observed actively flowing and staining is typically evident on the ground beneath the drain. Groundwater samples from this discharge were obtained on August 31, 2011 during an existing waste investigation, and again on March 26, 2013 as part of a site-wide groundwater sampling event. Samples were analyzed for Part 360 baseline parameters.

Ammonia is the only parameter for which exceedances of 6 NYCRR Part 703 C(TS) surface water standards were measured in the Drain Tile 2 samples. Ammonia concentrations measured in leachate samples from the existing landfill were of similar concentrations, while concentrations reported in groundwater samples are generally less, suggesting evidence of minor leachate mixing. Considering the placement of the drain tile system immediately below the 1×10^{-5} cm/sec soil liner, and the lack of a leachate collection system, this result was not unexpected.

Trichlorofluoromethane (Freon 11) is the single volatile organic compound detected in the groundwater drain sample. The measured concentration of 4 µg/L is less than the Part 703 GA drinking water standard of 5 µg/L and was only measured in the August 31, 2011 sample. No volatile organic compounds were detected in the non-stormwater discharge sample taken on March 26, 2013. .

These results were submitted to the NYSDEC in a letter titled “Carroll Landfill Expansion Project, New Stormwater Discharges Associated with Industrial Activity” (May 6, 2013). This correspondence was in accordance with Appendix E of the Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP) (Permit No. GP-0-12-001 effective October 1, 2012). Additionally, the results were used to estimate effluent limitation concentrations for the outfalls listed in Section 5.10. This non-stormwater discharge has been added to the site’s Environmental Monitoring Plan (EMP) (Drain Tile 2) under which it will be monitored quarterly for Part 360 Routine Parameters and annually for Part 360 Baseline Parameters. It is proposed that Non-Stormwater Discharge 2 be allowed to continue to discharge as it is under current conditions as initial development of the new landfill cells will not affect its pollution potential. However, should monitoring support the existence of a worsening trend, then this discharge can be conveyed to the leachate collection system once installed and eventually be treated by a POTW.

Upon construction of the subgrade, two known non-stormwater discharges from the site will exist; the groundwater drain discharge from the trench drain and groundwater pumping wells (Outfall 007) and the porewater drain (Outfall 01/02A).

Short term, the groundwater wells, trench drains and sump pits will be utilized for excavation and landfill construction events. The three wells will pump groundwater through a manifold to a wet well at the top of the slope. These three wells will be activated to allow for continued excavation required for the installation of the trench drain. Once the trench drain is operational, the wells will be abandoned. From that wet well groundwater will drain by gravity to unnamed tributary to Storehouse Run as shown.

Longer term groundwater control systems include the geocomposite porewater drain. Groundwater originating below the liner system will be conveyed by gravity through the

geocomposite to the porewater drain pipe network, and eventually to the porewater drain sump where it will be pumped to the site wide contact water drainage system. Documentation of non-stormwater discharges will be completed on the visual inspection report form.

5.7 WASTE, GARBAGE, AND FLOATABLE DEBRIS

Regular observations for waste materials should be conducted during the weekly visual inspections to ensure waste, garbage, and floatable debris are not discharged to surface waters. If garbage is identified, the waste shall be collected and disposed in the proper location. Regular municipal waste pick-up and the emptying of onsite dumpsters will be scheduled to reduce the potential for scattered garbage. The O&M Manual identifies daily inspections of the truck scale for debris, ice, and damage and policing the site buffers and entrance road for litter. When C&D waste is accepted, observation and removal of such debris shall be included in these regular inspections.

5.8 DUST GENERATION AND OFFSITE TRACKING

The regular maintenance of access and haul roads will minimize the tracking of waste materials. Sweeping along Dodge Road shall be conducted when deemed necessary by facility personnel due to offsite tracking. The facility entrance will be policed for mud and dust daily as required by the O&M Manual. The regular application of water to onsite trafficked surfaces via a water truck will reduce the generation of dust during dry and windy days. Water not evaporated on the road surfaces will migrate to roadside channels and discharge to the sediment basins. It is intended for stormwater to be recycled onsite by utilizing stormwater accumulated in the sediment basins in the water truck; therefore, the water used in the water truck is not assumed to be a non-stormwater discharge.

5.9 EROSION AND SEDIMENT CONTROLS (ESCs)

The construction of ESCs prior to land disturbance is important to prevent potential discharges to surface waters due to eroded soils. As such, regular visual inspections of all ESCs shall be conducted and documented by qualified personnel at least once every seven calendar days. When disturbance of more than five acres of soil at any one time occurs at the site, two site inspections every seven calendar days will be conducted, separated by a minimum of two full calendar days. The routine inspection form found and maintained in Attachment 5 will be used

and will aid in determining the effectiveness of the constructed ESCs, and allow for inspection of all areas of disturbance and all points of discharge. Additionally, the inspection form will identify the need for maintenance, repair, and/or corrective action of the existing ESCs, and the need for added ESCs. Combining the visual inspection form and ESC inspection form will provide sufficient observation to determine the effectiveness of the control structures; therefore, specific ESC inspection forms are not necessary. When possible, corrective actions shall begin being implemented within one business day and be fully implemented within seven calendar days of the inspection.

During initial construction, erosion may result during the construction of roads and ponds, excavation to grade, and the construction of the perimeter berms. Prior to any soil disturbance occurring, ESCs will be constructed to minimize erosion. If stormwater contamination issues are presented, appropriate action will be taken to alleviate the problem.

The following sections describe some of the specific ESCs that can be enacted at the site to minimize or prevent stormwater contamination in accordance with the NYS Standards and Specifications for Erosion and Sediment Control, August 2005. The site map in Attachment 3 depicts the specific locations and types of controls that shall be employed during the initial construction phase of site development. The construction of ESCs should be in conformance with the NYS Standards and Specifications for ESC. Should additional ESCs be constructed, the site map and this SWPPP shall be updated. Upon construction of project-specific ESCs, an individual Erosion and Sediment Control Plan (ESCP) may be developed to reflect individual project construction activities. Project-specific ESCP's shall be maintained in Attachment 9 of this SWPPP.

5.9.1 Orange Construction Fencing

Placing orange construction fencing around sensitive areas will divert vehicles and equipment from entering and disturbing the soils. By not disturbing the soils, loose soils can be minimized reducing sediment loading. Additionally, areas of the site which are desirable to be preserved such as trees or wetlands, can be delineated via orange construction fencing to prevent intrusion.

5.9.2 Diversions

Earthen swales, berms, dikes, or other diversion structures will intercept water and allow it to be directed and conveyed to stable outlet locations. Diversions can be used to divert run-on and concentrated flows around the property to prevent contact with pollutant sources. Diversions can also be used to control runoff from steeply sloping or upland areas. Flatter slopes result in lower velocities and subsequently a decrease in soil erosion. Additionally, these structures can act to remove sediments from concentrated flows. Diversion channels lined with a synthetic material or riprap can provide adequate protection to channels with higher flows and velocities. Similarly, channels lined with vegetation will also provide erosion control and some filtration of sediments, and should be constructed as soon as possible following construction.

5.9.3 Outlet Protection

Outlets from culverts and channels are important to stabilize using riprap, or other material, to reduce the depth, velocity, and energy of the water. By providing outlet protection, erosion of downstream channels will be minimized.

5.9.4 Straw Bales

The purpose of straw bales is to prevent sediment laden runoff from entering downstream control structures. The straw bales shall be bedded into the ground and anchored with wood stakes. Straw bales shall be replaced upon inspection, every three months, or earlier if they are determined to be ineffective, decaying, or falling apart.

5.9.5 Silt Fencing

Silt fencing is a geotextile fabric used as a temporary perimeter control to retain soil and prevent migration at or near its source. Generally, the fencing will be used to minimize velocities and the amount of suspended sediments in water as it is conveyed to other control structures, such as sediment basins. Silt fencing shall be installed where appropriate to prevent sediment loads entering adjacent wetlands or offsite drainage ways, and prior to soil disturbance in accordance with manufacturer's specifications. Silt fence will be used at 40 foot vertical intervals on intermediate cover surfaces to reduce or eliminate sediment loads into drainage channels. Silt fence will be placed five feet from the toe of all fill slopes and at the edge of all clearing limits where surface water runs off or towards the boundary of the site. Additionally, straw bales shall be anchored at each end of the silt fence to provide strength.

5.9.6 Stabilization

Mulching, seeding, and stake plantings can aid in stabilizing steep or disturbed slopes. As such, erosion and sediment transport will be reduced. Disturbed and completed construction areas will be vegetated as soon as is practicable to stabilize the soil and minimize erosion. Temporary vegetation will be established on intermediate cover and temporary surfaces. Permanent vegetation will be established on final cover surfaces, grass-lined permanent drainage channels, perimeter berms, and pond slopes. The seed mixture specification will be in accordance with the technical specifications.

Seeded areas will be fertilized and mulched following seeding to provide enhanced growth and erosive force protection. To determine the rate and type of fertilizer to be used at the site, a soil sample analysis will be conducted. The Agro-One Soils Laboratory at Cornell University, College of Agriculture and Life Sciences will perform soil analyses based on soil samples provided by the facility. The recommended fertilizer specifications provided by the laboratory will comply with the New York Runoff Law Article 17 Title 21. Fertilizer will be maintained in waterproof bags in the maintenance shop using proper spill prevention control measures.

Mulch will consist of clean hay, straw, or cellulose wood-fiber to preserve moisture and soil temperatures. Hydro seeding may be used on disturbed areas, as well as natural or synthetic erosion matting applied before or after seeding as per manufacturer recommendations. Surface roughening can also be employed prior to planting to aid in the establishment of vegetative cover. All stabilization efforts shall be employed using the NYS Standards and Specifications for ESC.

5.9.7 Check Dams

Rock check dams will be employed to decrease velocities in channels and to catch sediment as it flows through the channel. Check dam inspections shall be completed after storms, and during the routine inspections to ensure their structural integrity. Sediment deposited upstream, debris, or other unwanted materials shall be removed during inspections. A check dam shall not be more than two feet tall, with the center located nine inches below the edges. By creating this weir effect, water in the channel is prevented from flowing along the banks and causing additional erosion. Spacing of check dams is dependent on the channel slope with the toe of the first check dam at the same elevation as the crest of the next downstream check dam.

5.9.8 Sediment Traps

Sediment traps are a small excavation and/or embankment located near the point of discharge of a drainage channel to intercept and remove sediments from stormwater. Sediment traps shall be constructed in line with road side channels prior to the channel flowing adjacent to a bridge, and where deemed appropriate or in accordance with the NYS Standards and Specifications for ESC. Upon inspection, sediment traps shall be cleared of sediments and restored to the original dimensions when half of the trap has accumulated sediments or when the structure is no longer adequately removing particles.

5.9.9 Sediment Basins

Both permanent and temporary sediment basins or ponds, will be constructed to settle out particles from stormwater. Inspection of the sediment basins shall include a determination of the depth of sediment and if removal is necessary to maintain effectiveness. Additionally, the outlets shall be inspected for clogged or debris laden structures. See Section 5.10 for additional details.

5.10 STORMWATER MANAGEMENT CONTROLS

Traditional stormwater management practices which include BMPs for diversion, infiltration, reuse, containment, and reduction of stormwater runoff, have been designed for initial construction and for final post-closure conditions. The design, construction, and maintenance of all stormwater management controls generally conform to the NYS Stormwater Management Design Manual, August 2010 (The Manual). Stormwater management controls will require development and amendments throughout the development of the landfill. Such amendments will require the SWPPP to be modified.

5.10.1 Initial Construction

Stormwater management during initial construction will consist of the construction of Sediment Basin 1, TSB-1, access roads, perimeter berms, and appropriate surface grading to contain stormwater runoff. Access roads leading towards the location of Sediment Basin 1 will allow for construction of the graded filters, forebay, the sediment basin, and sediment basin embankments. Perimeter diversion channels shall be sized and constructed for post-closure conditions (See Appendix G of the Engineering Report). Grass-lined or riprap-lined diversion channels will be located throughout the site to intercept stormwater flowing over the land and direct it to the

appropriate outfalls. Generally, channels will be located at the tops and/or bottoms of fill and cut slopes and along access roads. As excavation of the first landfill cell occurs, liner construction will commence and excavation will continue towards the southeast corner of the site. Excavated soils will be used for perimeter berms and fill slopes.

Drainage areas have been mapped out as shown on the site map. Four onsite drainage areas were identified and correspond to their respective outfalls. Areas outside the delineated drainage areas will be unaffected by development during this initial construction phase.

5.10.1.1 Outfall 001 and 002

The largest drainage area will be managed by the Sediment Basin 1 system which consists of a forebay, a basin, and two sand filters located in the southeast corner of the facility. The 20.3 acre drainage area will consist of the southern portion of the site including the landfill liner system in Cell 1 and the borrow area west of Cell 1. The impervious area is approximately 9.9 acres and consists of the liner, the access road to Sediment Basin 1, the access road to the working face of the landfill, and the sediment basin maintenance roads. None of the roads will be paved; however, the compaction from truck travel and construction will result in these roads being relatively impervious.

Water will be diverted along the east side of Cell 2 which flows south into a easterly flowing grass-lined channel along the southern property boundary. Water directly hitting the landfill liner before waste is deposited will flow towards a low point in the subgrade and be pumped up the side slope east to the culvert under the access road and on to Sediment Basin 1. Once waste is accepted, stormwater hitting the liner system/waste will no longer be treated by the Sediment Basin 1 system but instead be considered and treated as leachate. A roadside channel along the access road to the landfill cell will be sloping with the road to a pump. This pump will be located at the low point along the west side of Cell 1. Water intersected before it enters the liner system will also be diverted to this pump. The pump will then direct water south to the grass-lined channel along the southern property boundary. The access road to Sediment Basin 1 will be graded to the west and at a one percent slope towards a roadside channel. This channel will flow and discharge into Forebay 1. Roads surrounding the sediment basins will be built during sediment basin construction.

Runoff entering the Sediment Basin 1 system will be treated through settling in a hard bottomed forebay. The water will migrate to the sediment basin which will be equipped with an outlet structure designed for the extended detention of the water quality volume and channel protection volume. The 10-year and 100-year storms will be released so that the post-development discharges will not exceed pre-development flows at a study point located along Storehouse Run. The outlet structure will divert water to one of two graded filters. The graded filters will likely not operate simultaneously, with the second only being used during times of maintenance or cleaning. The graded filters will be discharged to Storehouse Run via Outfalls 001 or 002.

5.10.1.2 Outfall 003

Diversion water ponds and channels, located along the western boundary, will service offsite water entering the site from the west. The drainage area serviced by Outfall 003 is 41 acres and includes 31 acres of drainage treated by the ponds and drainage channels, and 10 acres already entering the Sandberg Road roadside channel prior to flowing onsite via this channel. The area within the property boundary and the watershed accounts for 3.1 acres. Impervious area is minimal and only consists of the centerline to the northern edge of Sandberg Road (0.57 acres). This impervious area will not be affected by construction and will be present during pre- and post-development.

Water entering the site at the northwestern corner will be conveyed via a grass-lined channel and detained by Pond 1 before it is released to another grass-lined channel and enters Pond 2. Both ponds are equipped with outlet structures for extended detention of the water quality volume and channel protection volume. Release of the 10-year and 100-year storms so that the post-development discharges at Outfall 003 will not exceed pre-development flows will be achieved. Water discharged from Pond 2 will enter a culvert and flow to a manhole located at the southwest corner of the site. The grass-lined channel beginning at the southern edge of Pond 2 and extending to the discharge point along Sandberg Road will intercept offsite water before flowing into the disturbed landfill area. The water from Pond 2 and from this grass-lined channel will combine and discharge to the Sandberg Road roadside channel and conveyed offsite through Outfall 003. Because this water is not expected to come into contact with site activities or materials associated with the facility, nor are significant pollutant loads from offsite a concern,

it is expected that no additional treatment will be required; however, monitoring and visual inspections will confirm this presumption.

5.10.1.3 Outfall 004 & Temporary Sediment Basin 1

Outfall 004 was broken into three separate watershed subbasins; 004-1, 004-2, and 004-3. All three subbasins are routed to TSB-1 and discharged via culvert into an intermittent stream that flows offsite (Outfall 004). Eventually, the unnamed watercourse merges onsite with a tributary of Storehouse Run.

TSB-1 will consist of a forebay sized to hold minimum 10% of the water quality volume. The temporary basin is a standard stormwater management practice (SMP) designed in general accordance with the Manual. The basin can a total volume of 72,400 cubic feet for water quality treatment and quantity controls. The system was designed for channel protection, and safe conveyance of the 10-year and 100-year storm events. Freeboard is also provided.

Subbasin 004-1

The drainage area (8.8 acres onsite, 9.1 acres total) for Subbasin 004-1 is located to the north of the existing landfill and consists of mostly undisturbed area, and a small portion of offsite drainage from the northwest (0.20 acres). A grass-lined drainage channel will be located north of the access road circumventing the existing landfill. This channel will divert water east along the access road through an existing culvert and continue east. This access road and the perimeter access road along the north side of the site are the only impervious areas in this drainageshed and total 0.44 acres. A second grass-lined channel along the western side of the entrance area will be graded south. Both channels will converge and flow under the entrance area via culvert to a grass-lined channel located between the existing landfill and the proposed access road. This grass-lined channel will convey the runoff from Subbasin 004-1 into TSB-1. The cut slope to the west of the entrance area will be seeded and mulched to reduce erosion.

Subbasin 004-2

The entrance area, which includes the leachate collection and transfer area, the maintenance shop, and scale house has been segregated as a drainage area so that any spills or leaks that may occur from petroleum bulk storage can be contained and managed. Water falling directly on this 2.2-acre area will flow to a bioretention area near the weigh scale via surface grading. The

bioretention area is a standard SMP with runoff reduction capacity and was designed in accordance with the Manual to treat the minimum runoff reduction volume. The majority of the area, 1.9 acres, is impervious which accounts for the entrance roads, buildings, leachate tank, and parking areas. Similar to all access roads, this entrance area will not be paved but constructed of highly compacted soil and gravel. The underdrains of the bioretention area will discharge to the same location where Subbasin 004-1 discharges and be conveyed via grass-lined channel to TSB-1.

Subbasin 004-3

The second largest drainage area (13.8 acres) contains the southern portion of the existing landfill, an overburden stockpiling area, and a portion of undisturbed area to the northwest.

Water flowing around the 1.5-acre stockpiling area will flow into a grass-lined channel towards the temporary sediment basin. The access road roadside channel from the northwest will also intercept water from the west. Both flows will be diverted through a culvert under the access road and flow in the grass-lined channel north of Cell 1. This channel along the northern edge of the cut slope will also intercept runoff from the existing landfill. Water flowing in the channel along the western edge of the fill slope for the site perimeter road leading to Sediment Basin 1 will flow southwest. Water along the top of the landfill liner and flowing down the northern cut slope will flow to a low point in the subgrade and be pumped to the temporary sediment basin.

The impervious area in this drainageshed consists of a portion of the site perimeter road, the access road leading to the landfill cell, and the overburden stockpiling area. Again, while none of these areas will be paved, they will be constructed of highly compacted soils. The total impervious area is 1.9 acres.

5.10.1.4 Temporary Sediment Basin 2

Temporary Sediment Basin 2 (TSB-2) was sized for Phase 4 of landfill development to handle runoff from the CDPO. During Initial Construction, TSB-2 will be utilized to manage non-contaminated stormwater accumulated in the secondary containment of the leachate storage tank sump and the leachate transfer pad. Discharge from TSB-2 will be directed to the grass-lined channel north of the access road around the existing landfill and eventually discharge to TSB-1.

Calculations are provided in the Engineering Report for TSB-2 for Phase 4 and will not be further investigated in this revision of the SWPPP.

5.10.1.5 Outfalls 04A, 04B, 005, and 006

Outfalls 04A, 04B, 005, 006, and 007 are non-stormwater discharges/groundwater discharges associated with the existing or proposed landfill areas. Outfalls 04A and 04B will be discharged through Outfall 004. See section 5.6 for additional detail.

5.10.2 Post-Closure

The Final Grading and Drainage Plan permit drawing (Sheet PD-9) shows the location of stormwater management structures for post-closure. Diversion water ponds and channels, located along the western boundary, will service water entering the site from the west. Water entering the site at the northwestern corner will be conveyed via a grass-lined channel and detained by Pond 1 before it is released to another grass-lined channel and enters Pond 2 as described in Section 5.10.1.

Precipitation which falls directly on the final cover will begin as sheet flow and will be conveyed via diversion swales located every 30 vertical feet, sloping at two percent. The swales empty into rock-lined downchutes running perpendicular to the swales. The high velocity, high energy water flowing in the downchutes is controlled by stilling basins located at the bottom of each downchute. Water is then conveyed by culvert or open channel to sediment basins. The surface water drainage has been divided, and water flowing to Sediment Basin 1 and its corresponding forebay will manage the water entering Downchutes 1 and 2. Sediment Basin 2 will detain water from Downchute 3. Sediment Basin 1 will be constructed during the initial construction phase and Sediment Basin 2 will be constructed later during Phase 5.

Both sediment basins will be constructed with a hard bottomed forebay for sediment removal. The sediment basins will release the one-year storm and water quality volume over a 24-hour period for channel protection. The basins are designed with outlet structures that contain and release the 10-year and 100-year storms to ensure post-development flows do not exceed pre-development flows at the specified design points. The outlet structures are designed to discharge to graded filters to remove additional sediment and other particulates. Once treatment is complete, the water will be discharged directly to Storehouse Run. The ponds, sediment basins,

and other stormwater structures have been constructed in accordance with the NYS Stormwater Management Design Manual, August 2010. Appendix G of the Engineering Report should be referenced for stormwater modeling and analysis results including sizing criteria, post-development and pre-development maps, calculations, etc. for the post-closure stormwater management controls.

The O&M Manual includes the inspection and maintenance schedules for post-closure activities and the responsible parties.

5.11 SALT STORAGE PILES

Any salt storage piles, used for deicing of roads and paved surfaces, shall be covered or enclosed to prevent exposure to precipitation. Piles are not expected at the site; however, if they are required, the locations of piles will be identified on the site map.

5.12 STOCKPILED MATERIALS, PROCESSED MATERIALS, AND NON-RECYCLABLE WASTES

During initial construction, there will be soil and stone stockpiles. A designated area for stockpiling along the western side of the property will be surrounded by drainage channels to divert water from flowing into the 1.5-acre area. The area itself will be graded outward towards these drainage channels. Processed materials and non-recyclable wastes will not be present at the site during initial construction.

5.13 INBOUND WASTE AND RECYCLABLE CONTROL PROGRAM

Contained in the O&M Manual is a list of wastes that will be accepted and those that will not be accepted for disposal. Before the facility begins accepting waste loads, signs posted at the entrance of the facility will inform users of the types of wastes that are not accepted for disposal. Facility personnel will be instructed as to the type of waste acceptable for disposal, and will be responsible for the identification and rejection of unacceptable loads delivered to the site.

To ensure suppliers of scrap and recyclable waste materials are delivering the appropriate wastes to the site, all new vendors will be required to sign a form certifying that they understand what is accepted by the facility. All loads must comply with the following as required for acceptance as C&D debris:

- Residual fluids shall be drained and properly recycled or disposed; and,
- Mercury, lead, CFCs/HCFCs, and/or PCB containing materials shall be properly collected and removed for recycling and/or disposal.

After the initial construction phase, routine waste inspection activities include, when possible, screening before waste is deposited at the working face, and after the waste has been discharged from the truck. In addition, at least one waste collection vehicle will be chosen at random on a weekly basis for inspection of its contents by the waste approval coordinator. The results of the weekly inspections will be recorded and maintained on file at the site.

Should an unacceptable waste load be encountered before the waste has been deposited at the working face, the scale master and waste approval coordinator will be notified, all pertinent information associated with the load will be recorded on a Waste Rejection Form (found in the O&M Manual), and the vehicle will be required to leave the facility. A written incident report and the Waste Rejection Form will be filed with the NYSDEC Region 9 office.

In the event an unacceptable waste load has been deposited at the waste screening area or the working face, or a spill or other release has occurred, the onsite equipment will, if possible, remove and segregate the waste. The NYSDEC and if appropriate, the Chautauqua County Department of Health, will be contacted. If required, an approved disposal facility would be contacted to properly dispose of any material in accordance with NYSDEC approved procedures.

A separate “residential drop off” area will be provided to isolate residents and small private contractors from the regular waste vehicle traffic. This facility will consist of two or three 30 yard roll-off containers set adjacent to a ramp that allows pickup trucks or other single axle trucks to pull up to the roll-off and afford relatively easy unloading of approved waste materials to the roll-offs. All loads of material destined for the residential drop off area are required to enter through the scale for proper waste screening and documentation. Residents and customers with small vehicles or waste loads may utilize the residential drop off area during regular business hours. At no time will small or private vehicles be allowed to enter the landfill or working face area.

6 DOCUMENTATION OF PERMIT ELIGIBILITY

6.1 ENDANGERED SPECIES

EDR, of 238 West Division Street, Syracuse, New York, completed an ecological assessment to determine the potential presence or absence of threatened, endangered, or rare plant or animal species, any unusual habitats and habitats that may be important for more common species. Their January 2005 Vegetation and Wildlife Survey Report documents the results of the assessment. Their findings were updated for the Carroll Landfill DEIS and are summarized below.

There are two federal and state-listed endangered species in Chautauqua County; the rayed bean and clubshell. Both species are mollusks or clams and have been documented well downstream of the property. Fish and mollusks species will not be directly impacted by construction activity onsite. However, there is potential for indirect impacts to the species in Storehouse Run since the site's stormwater runoff will be directed to the stream. Potential impacts would include changes in temperature and increased sediment loading. Through proper stormwater controls and BMPs appropriate for a C(TS) waterbody classification as listed in Section 5, such potential indirect impacts will be minimized.

The bald eagle was delisted by the federal government in 2007. The species remains on New York State's Threatened Species List (NYSDEC, 2007) and continues to receive federal protection under the Bald and Golden Eagle Protection Act. Bald eagle sightings have been made by locals near the project site and according to the 2010 Bald Eagle Report produced by the NYSDEC (Nye, 2010)³, there is a recognized bald eagle territory near the project area. The northern long eared bat is listed as a threatened species with the nearest known occurrence approximately 10 miles to the northeast of the site. All other federal or state-listed endangered or threatened species are not within the range of the project.

Under Part 182, Endangered and Threatened Species of Fish and Wildlife; Species of Special Concern; Incidental Take Permits, entities may request a determination from the NYSDEC as to

³ Nye, P. (2010). New York State Bald Eagle Report. New York State Department of Environmental Conservation. Albany, New York. Available at http://www.dec.ny.gov/docs/wildlife_pdf/baea2010.pdf. Accessed on June, 26, 2012.

whether a proposed activity is likely to result in the take or taking of any species listed as endangered or threatened. Due to the possible presence of sensitive species, a Request for Part 182 Determination in agreement with Subpart 182.9, was submitted to the State on April 19, 2011 to ensure project compliance in support of wildlife management and preservation activities throughout New York State. The State confirmed, via letter, that no effects will be realized in this regard.

Although the development of the site will reduce the amount of forested area, the habitat will be replaced with different habitats which may improve the diversity; therefore, the impacts are not considered significant. Displacement of wildlife will be an unavoidable, but temporary result of site development.

6.2 HISTORIC PLACES

A search of the New York State Office of Parks, Recreation, and Historic Preservation (NYS OPRHP)'s Geographic Information Systems (GIS) map data revealed that a portion of the site was identified as archeologically sensitive. The initial site assessment was performed on October 13, 2004 by Robert Dean of the NYS OPRHP. The site (NYS OPRHP Site #A013-03-000032) was referred to as the Dodge Road Foundation. The description from this initial report was rather generic; "a foundation of un-mortared stone" from the historic EuroAmerican time period. After filing for a more formal review of the project area, OPRHP required a Phase I archeological investigation of the area be performed by a 36 CFR 61 qualified archeologist in conformance with the State Historic Preservation Office Phase I Archeological Report Format Requirements, established by letter dated May 5, 2005 and effective August 30, 2005.

Between late summer and early fall of 2011, Archaeological Services (AS) of the Rochester Museum & Science Center (RMSC) or (AS/RMSC) conducted a Phase I cultural resource investigation of the entire project area. The AS/RMSC completed a thorough records review, reconnaissance level survey, and subsurface investigation over a majority of the property. Records for the site and the surrounding area revealed there has been little development in the area besides the scattered rural farmlands. Maps of the area from as early as 1867 show little change besides some limited rural residential development. The only recognized modification to the project area itself since 1954 has been the construction of the existing Jones-Carroll Landfill.

During the reconnaissance level survey AS/RMSC determined that just over half the site was not suitable for Phase IB testing for reasons related to previous disturbance, slopes greater than 15%, and wetlands. The subsurface of the remaining 23.5 acres of the project area was investigated at 15-foot intervals, unless disturbance was encountered then the interval was increased to 30 feet as is standard practice. In all, 361 shovel test pits were completed across the site to depths between six to 20 inches. No artifacts or materials with any cultural affiliation were recorded.

AS/RMSC concluded that there was a distinct lack of prehistoric Native American cultural material or historic EuroAmerican cultural material on the site. Additionally, some of the area's attributes such as marshy wetlands, relatively well-drained soils with less than 15% slope, several small creeks, and rolling topography reason the conclusion that there is low potential for a prehistoric site, except for the possible transient camp or resource procurement site. The only man-made materials found were brick on the ground surface associated with the documented Dodge Road Foundation site. The bricks appear to be part of a shallow well. Since bricks are not generally diagnostic, they are considered insignificant according to AS/RMSC. Their final recommendation was that no further archeological work is necessary within the project area.

On December 21, 2011 the NYS OPRHP concurred with the AS/RMSC's findings and issued an opinion by way of letter that the project will have no effect upon cultural resources. During the Supplemental Site Investigation in late 2012, a stone-lined spring structure was discovered on the southwest slope of the property. The spring house was located and is shown on the site map in Attachment 3. However, correspondence with the NYS OPRHP determined the stone-lined spring was insignificant.

A search for historical locations near the project site was performed using the public databases maintained by the U. S. Department of the Interior's National Park Service and the NYS OPRHP and Pennsylvania Historical & Museum Commission. In New York State, county listings for Chautauqua and Cattaraugus Counties were assessed and in Pennsylvania Warren and McKean Counties were assessed. There are no sites that are listed or eligible for the States or National Register of Historic Places within a five-mile radius of the site.

7 REPORTING RESULTS AND RETENTION OF RECORDS

7.1 DISCHARGE MONITORING REPORT (DMR)

DMRs, provided by the NYSDEC, shall be submitted to the NYSDEC as required and shall report monitoring results for each outfall based on results received from the laboratory. Laboratory reports and chain of custody forms shall be maintained in Attachment 14 with their associated DMRs.

8 INSPECTION SCHEDULE

The following table is the schedule for conducting inspections and all documentation resulting from inspections:

Table 4: Inspection Schedule

Activity	Frequency	Accompanying Documentation
Good Housekeeping	Regularly	NA
Routine Visual Inspections	Weekly or Twice Weekly when 5+ acres Disturbed (<i>minimum 2 days separation between inspections</i>)	Routine Visual Inspection Form (Attachment 5)
Preventative Maintenance	Regularly	Maintenance Activities Form (Attachment 6)
Spill Cleanup and Response	As Necessary	Spills and Releases Log (Attachment 4)
Employee Training and Education	Upon Employment and Annually	Training and Education Log (Attachment 7)
Secondary Containment Discharge Monitoring	As Necessary (<i>when stormwater is discharged from secondary containment</i>)	Laboratory Reports, Chain of Custody Forms (Attachment 4)
Updates to the SWPPP	As Necessary	NA

9 SWPPP CERTIFICATION, AVAILABILITY, AND AMENDMENTS

9.1 CERTIFICATION OF THE SWPPP

The following statement certifies that the information contained within this SWPPP is accurate. The following duly authorized representative of Sealand Waste, LLC and the document preparer of Daigler Engineering, P.C. acknowledge the content of the SWPPP, and understand the dynamic nature of the SWPPP.

Operator: Daniel Bree
Sealand Waste, LLC
85 High Tech Drive
Rush, New York 14543

Preparer: Allyson M. Zurawski, E.I.T.
Daigler Engineering, P.C.
2620 Grand Island Blvd.
Grand Island, New York 14072

“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 manage 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 fine and imprisonment for knowing violations.”

Signature: _____

Daniel Bree, Sealand Waste, LLC Owner/Operator

Date: _____

Signature: _____

Allyson M. Zurawski, E.I.T., Daigler Engineering, P.C. Engineer

Date: _____

9.2 AVAILABILITY OF THE SWPPP

A paper copy of the SWPPP shall be maintained onsite and at 2620 Grand Island Blvd., Grand Island, New York. Additionally, a digital copy will be maintained at 2620 Grand Island Blvd., Grand Island, New York. Should the NYSDEC or others require a copy of the document, one will be made available upon request.

9.3 KEEPING THE SWPPP CURRENT

The SWPPP is a dynamic document requiring frequent amendments and changes. As the facility develops, the SWPPP shall be amended to reflect changes in design, construction, operation, or maintenance which may affect the potential for the discharge of pollutants. Although major changes may require reissuance of the SWPPP under the next sequential revision number as indicated in the footer, minor changes can be marked on the original document for incorporation at a later date. Changes may include modifications of maps, descriptions of industrial activities, stormwater controls, and additional inspections, monitoring, and/or analysis requirements. If the SWPPP is found to be ineffective, it shall be modified so that the BMPs continue to prevent stormwater discharges to waters of the State and maintain their effectiveness. Once amendments to the SWPPP are complete, the document will require a new signed and dated certification (see Section 9.1) by the responsible parties.

9.4 DEADLINES FOR CORRECTIVE ACTIONS

Modifications of BMPs shall be completed before the next anticipated storm event, if practicable, but not more than 12 weeks after completion of a site inspection, unless granted permission by the NYSDEC. Should a modification take longer than 12 weeks, a request in writing should be submitted to the NYSDEC including a schedule for completing the proposed project.

The NYSDEC has the authority to require the owner/operator to implement modifications to the SWPPP should the SWPPP no longer meet one or more of the requirements of the facility's permit. Modifications shall be completed and a written letter to the NYSDEC shall be submitted which includes all changes made to the SWPPP within 14 days of a notification.

ATTACHMENT 1

**NYS Department of Environmental
Conservation SPDES Individual Permit**

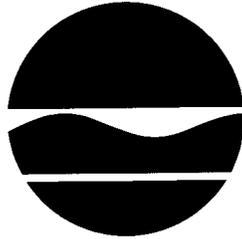
Individual permit to be inserted upon issuance

ATTACHMENT 2

**Form NY-2C, Permit Modifications,
Notice of Termination**

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division Of Water



APPLICATION FORM NY-2C
for
Industrial Facilities

This form must be completed by all persons applying for a new SPDES permit OR a modification of an existing SPDES permit for the discharge of industrial wastewater to the waters of New York State.

SEE GENERAL INSTRUCTIONS INSIDE COVER

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES)

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: Carroll Landfill	SPDES Number:
--	---------------

15. Facility Ownership: (Place an "X" in the appropriate box)

Corporate Sole Proprietorship Partnership Municipal State Federal Other

Are any of the discharges applied for in this application on Indian lands? Yes No

16. List information on any other environmental permits for this facility:

Issuing Agency	Permit Type	Permit Number	Permit Status		
			Active	Applied for	Inactive
NYSDEC	Air State Facility Permit			X	
NYSDEC	Part 360 Solid Waste Permit			X	
NYSDEC	Water Quality Certification			X	
NYSDEC	Protection of Waters			X	
NYSDEC	Petroleum Bulk Storage Certificate			X	
US. Army Corps	Section 404 Freshwater Wetlands			X	

17. Laboratory Certification:

Were any of the analyses reported in Section III of this application performed by a contract laboratory or a consulting firm?

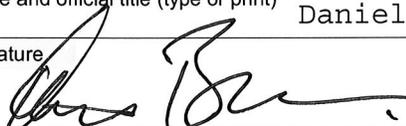
YES - Complete the following table.

NO - Go to Item 18 below.

Name of laboratory or consulting firm	Address	Telephone (area code and number)	Pollutants analyzed
TestAmerica, Inc	10 Hazelwood Dr Amherst, NY 14228	(716) 691-2600	pH, Temp, Turbidity, Conductivity, Metals, TOC, BOD, TSS, TDS, Hardness, Alkalinity, Hg, COD, Nitrogen, CN, TRP, Sulfate, Bromide, Chloride, Color, VOCs,

18. Certification

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 fine and imprisonment for knowing violations.

Name and official title (type or print) Daniel Bree	Date signed
Signature 	Telephone number (585) 359-9242
	FAX number

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section I - Permittee and Facility Information

Please type or print the requested information.

1. Current Permit Information (leave blank if for new discharge)

SPDES Number:	DEC Number:
---------------	-------------

2. Permit Action Requested: (Check applicable box)

A **NEW** proposed discharge
 An **EBPS INFORMATION REQUEST** response
 A **RENEWAL** of an existing SPDES permit
 A **MODIFICATION** of the existing permit
 An **EXISTING** discharge currently without permit

Does this request include an increase in the quantity of water discharged from your facility to the waters of the State?

YES - Describe the increase:
 NO - Go to Item 3. below.

3. Permittee Name and Address

Name Sealand Waste, LLC		Attention Daniel Bree	
Street Address 85 High Tech Drive			
City or Village Rush	State NY	ZIP Code 14543	

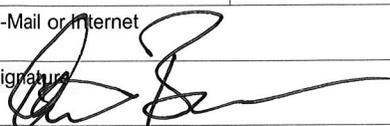
4. Facility Name, Address and Location

Name Carroll Landfill			
Street Address 309 Dodge Road		P.O. Box	
City or Village	State NY	ZIP Code 14738-0497	
Town Carroll	County Chautauqua		
Telephone	FAX	NYTM - E 658337	NYTM - N 4653297
Tax Map Info (New York City, Nassau County and Suffolk County only)			
Section	Block	Subblock	Lot

5. Facility Contact Person

Name Daniel Bree		Title Owner	
Street Address 85 High Tech Drive		P.O. Box	
City or Village Rush	State NY	ZIP Code 14543	
Telephone (585) 359-9242	FAX	E-Mail or Internet	

6. Discharge Monitoring Report (DMR) Mailing Address

Mailing Name Daniel Bree			
Street Address 85 High Tech Drive		P.O. Box	
City or Village Rush	State NY	ZIP Code 14543	
Telephone (585) 359-9242	FAX	E-Mail or Internet	
Name and Title of person responsible for signing DMRs Daniel Bree, Owner		Signature 	

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: Carroll Landfill	SPDES Number:
--	---------------

7. Summarize the outfalls present at the facility:

Outfall Number	Receiving Water	Type of discharge
001	Storehouse Run	Stormwater
002	Storehouse Run	Stormwater
01/02A	Onsite Surface Water Channel	Groundwater
003	Sandberg Rd Roadside Channel	Stormwater
004	Onsite Intermittent Stream	Stormwater
04A & 04B	Onsite Surface Water Channel	Groundwater
005	Dodge Rd Roadside Channel	Groundwater
006	Ground surface/groundwater	Groundwater
007	Onsite Intermittent Stream	Groundwater

*Outfalls 001 and 002 service the same drainage area. The outfalls will likely not operate simultaneously. Outfall 002 is used when the sandfilter at Outfall 001 is taken offline for cleaning/maintenance.

8. Map of Facility and Discharge Locations:

Provide a detailed map showing the location of the facility, all buildings or structures present, wastewater discharge systems, outfall locations into receiving waters, nearby surface water bodies, water supply wells, and groundwater monitoring wells, and attach it to this application. Also submit proof, either by indication on the map or other documentation, that a right of way for the discharges exists from the facility property to a public right of way.

9. Water Flow Diagram:

See Figure 1.

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: Carroll Landfill	SPDES Number:
--	---------------

10. Nature of business: (Describe the activities at the facility and the date(s) that operation(s) at the facility commenced)

It is the intention of the applicant to continue construction & demolition debris land disposal activities as well as introduce construction & demolition debris processing and yard waste composting facilities.

Landfilling is expected to commence upon receipt of all applicable permits.

11. List the 4-digit SIC codes which describe your facility in order of priority:

Priority 1 4 9 5 3	Description: Refuse systems	Priority 3 	Description:
Priority 2 5 0 9 3	Description: Scrap & Waste Materials	Priority 4 	Description:

12. Is your facility a primary industry as listed in Table 1 of the instructions?

- YES - Complete the following table.
- NO - Go to Item 13. below.

Industrial Category	40 CFR		Industrial Category	40 CFR	
	Part	Subpart		Part	Subpart

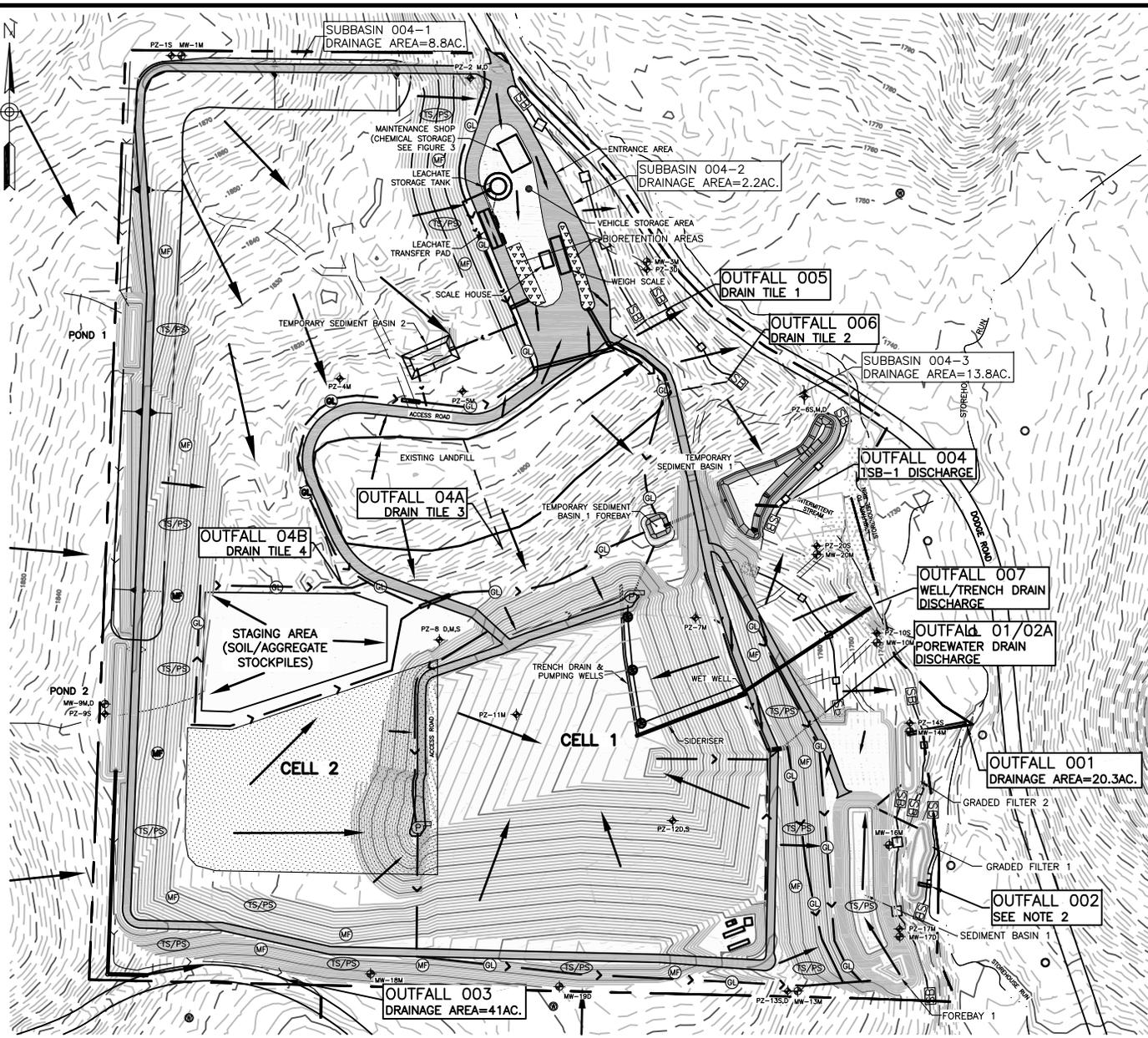
13. Does this facility manufacture, handle, or discharge recombinant-DNA, pathogens, or other potentially infectious or dangerous organisms?

- YES - Attach a detailed explanation to this application.
- NO - Go to Item 14 below.

14. Is storm runoff or leachate from a material storage area discharged by your facility?

- YES - Complete the following table, and show the location of the stockpile(s) and discharge point(s) on the diagram in Item 9.
 Recycling facility stockpiles to be shown in Phase 4/future permit modification figure
- NO - Go to Item 15 on the following page.

Size of area	Type(s) of material stored	Quantity of material stored	Runoff control devices
3,895sf	Wood waste	600 cy	temp sediment basin 2
3,421sf	Unprocessed non-wood material	680 cy	temp sediment basin 2
5,430sf	Processed Clean Wood	800 cy	temp sediment basin 2
8,482sf	Processed Other Wood	1,600 cy	temp sediment basin 2
15,080sf	Aggregate	8,160 cy	temp sediment basin 2
5,027sf	Raw yard waste	1,241 cy	temp sediment basin 2
8,217sf	Windrows & Finished Compost	1,228 cy	temp sediment basin 2



- LEGEND:**
- STORMWATER PUMP
 - TEMPORARY/PERMANENT SEEDING
 - MULCH & FERTILIZER APPLICATION
 - GRASS-LINED CHANNEL
 - CULVERT
 - STRAW BALE
 - SILT FENCING
 - STORMWATER FLOW DIRECTION
 - ACCESS ROAD
 - PROPERTY BOUNDARY
 - DIVERSION SWALES/CHANNELS
 - STREAM
 - MW-1M MONITORING WELL
 - PZ-1S PIEZOMETER
 - GROUNDWATER PUMPING WELL
 - RESIDENTIAL WATER WELL
 - ESTIMATED LOCATION RESIDENTIAL WATER WELL
 - WETLAND BOUNDARY
 - BIORETENTION AREAS
 - BORROW AREA

- NOTES:**
1. THE SIZE OF THE PROPERTY IS 53.9 ACRES.
 2. OUTFALL 002 IS UTILIZED WHEN THE SAND FILTER AT OUTFALL 001 IS TAKEN OFFLINE FOR CLEANING/MAINTENANCE.
 3. OFFSITE DRAINAGE WILL BE DIVERTED ALONG THE WESTERN SIDE OF THE PROPERTY AND DISCHARGED ALONG SANDBERG ROAD. OFFSITE LANDUSE CONSISTS OF MOSTLY WOODY VEGETATION. SIGNIFICANT POLLUTANT LOADS ARE NOT EXPECTED FROM THE WEST.
 4. THERE ARE SIX NON-STORMWATER DISCHARGES ONSITE. ALL ARE GROUNDWATER DISCHARGES ASSOCIATED WITH THE EXISTING OR PROPOSED LANDFILL AREAS; DRAIN TILES 1-4, WELL/TRENCH DRAIN DISCHARGE, & POREWATER DISCHARGE.

DAIGLER ENGINEERING, P.C.
 CIVIL & GEO-ENVIRONMENTAL ENGINEERING
 2620 GRAND ISLAND BLVD. GRAND ISLAND, NEW YORK 14072
 (716) 773-6872 (716) 773-6873 FAX

SEALAND WASTE, LLC		MAP OF FACILITY, DISCHARGE LOCATIONS, & WATER FLOWS		FIGURE 1
SCALE: 1" = 300'	REVISION # 1	INDIVIDUAL INDUSTRIAL SPDES APPLICATION FORM NY-2C		
October 2015	TOWN OF CARROLL	CHAUTAUQUA COUNTY	NEW YORK	

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
--	---------------

1. Outfall Number and Location

Outfall No.: 001		
Latitude 42 ° 00 ‘ 44 “	Longitude -79 ° 05 ‘ 03 “	Receiving Water Storehouse Run

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	precipitation dependent			
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 24.9 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 0.068 MGD	d. Daily Maximum Flow 0.19 MGD	e. Maximum Design flow rate 27.5 MGD
---	---------------------------------------	---	--	--

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 001
Facility Name: Carroll Landfill	SPDES Number:

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:

In the stream:

Within a lake or ponded water:

Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.

Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached? <input type="checkbox"/> YES <input type="checkbox"/> NO
Feet	Feet	Feet/Sec	

Section II - Outfall Information

Outfall No.: 001
SPDES Number:

Facility Name: **Carroll Landfill**

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

YES - Complete the following table.

Information on the intake and discharge configuration of this outfall is attached.

NO - Go to Item 9. below.

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
Average change in temperature (delta T)	Maximum change in temperature (delta T)	Maximum temperature	hours per day	days per year	From	To		
							MGD	

9. Are any water treatment chemicals or additives that are used by your facility subsequently discharged through this outfall?

YES - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

NO - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

10. Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving water in relation to this outfall in the past three (3) years?

YES - Complete the following table.

NO - Go to Item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic or Acute?	Subject species	Testing date(s)		Submitted? (Date)
					Start	Finish	

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 001
SPDES Number:	

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
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Outfall No.: 001

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	21.3	15.3			5.9	1.5	24	mg/L	kg			
b. Chemical Oxygen Demand (COD)	264	189			57.8	14.9	24	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<72			<100	<26	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	1020	732			688	178	24	mg/L	kg			
e. Oil & Grease	<10	<7			<10	<2.6	16	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	9.0	6.5			2.7	0.7	24	mg/L	kg			
h. Ammonia (as N)	6.0	4.3			0.5	0.1	24	mg/L	kg			
i. Flow	Value 0.19		Value		Value 0.068		1	MGD	MGD	Value		
j. Temperature, winter	Value 12 degC		Value		Value 11.2 degC		5			Value		
k. Temperature, summer	Value 29.4 degC		Value		Value 24.4 degC		19			Value		
l. pH	Minimum 7.61	Maximum 9.47	Minimum	Maximum			24			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater?

Yes - Go to Item ii. below.

No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:

Acid:

Base/Neutral:

Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

Yes - Concentration and mass data attached.

No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

Yes - Source or reason for presence in discharge attached

Yes - Quantitative or qualitative data attached

No

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
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1. Outfall Number and Location

Outfall No.: 002		
Latitude 42 ° 00 ‘ 42“	Longitude -79 ° 05 ‘ 05 “	Receiving Water Storehouse Run

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	precipitation dependent			
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 24.9 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 0.068 MGD	d. Daily Maximum Flow 0.19 MGD	e. Maximum Design flow rate 27.5 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 002
Facility Name: Carroll Landfill	SPDES Number:

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
Feet	Feet	Feet/Sec	<input type="checkbox"/> YES
			<input type="checkbox"/> NO

Section II - Outfall Information

Outfall No.: 002
SPDES Number:

Facility Name: **Carroll Landfill**

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

YES - Complete the following table.

Information on the intake and discharge configuration of this outfall is attached.

NO - Go to Item 9. below.

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
Average change in temperature (delta T)	Maximum change in temperature (delta T)	Maximum temperature	hours per day	days per year	From	To	MGD	

9. Are any water treatment chemicals or additives that are used by your facility subsequently discharged through this outfall?

YES - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

NO - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

10. Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving water in relation to this outfall in the past three (3) years?

YES - Complete the following table.

NO - Go to Item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic or Acute?	Subject species	Testing date(s)		Submitted? (Date)
					Start	Finish	

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
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Outfall No.: 002

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	21.3	15.3			5.9	1.5	24	mg/L	kg			
b. Chemical Oxygen Demand (COD)	264	189			57.8	14.9	24	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<72			<100	<26	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	1020	732			688	178	24	mg/L	kg			
e. Oil & Grease	<10	<7			<10	<2.6	16	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	9.0	6.5			2.7	0.7	24	mg/L	kg			
h. Ammonia (as N)	6.0	4.3			0.5	0.1	24	mg/L	kg			
i. Flow	Value 0.19		Value		Value 0.068		1	MGD	MGD	Value		
j. Temperature, winter	Value 12 degC		Value		Value 11.2 degC		5			Value		
k. Temperature, summer	Value 29.4 degC		Value		Value 24.4 degC		19			Value		
l. pH	Minimum 7.61	Maximum 9.47	Minimum	Maximum			24			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater?

Yes - Go to Item ii. below.

No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles: Acid: Base/Neutral: Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

Yes - Concentration and mass data attached.

No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

Yes - Source or reason for presence in discharge attached

Yes - Quantitative or qualitative data attached

No

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
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1. Outfall Number and Location

Outfall No.: 01/02A		
Latitude 42 ° 00 '44.2"	Longitude -79 ° 05 ' 8.7"	Receiving Water Onsite Surface Water Channel

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify): groundwater porewater drain						11		X	
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 5.8 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 0.016 MGD	d. Daily Maximum Flow 0.029 MGD	e. Maximum Design flow rate 0.029 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 01/02A
Facility Name: Carroll Landfill	SPDES Number:

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached? <input type="checkbox"/> YES <input type="checkbox"/> NO
Feet	Feet	Feet/Sec	

Section II - Outfall Information

Outfall No.: 01/02A
SPDES Number:

Facility Name: **Carroll Landfill**

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

YES - Complete the following table.

Information on the intake and discharge configuration of this outfall is attached.

NO - Go to Item 9. below.

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
Average change in temperature (delta T)	Maximum change in temperature (delta T)	Maximum temperature	hours per day	days per year	From	To		
							MGD	

9. Are any water treatment chemicals or additives that are used by your facility subsequently discharged through this outfall?

YES - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

NO - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

10. Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving water in relation to this outfall in the past three (3) years?

YES - Complete the following table.

NO - Go to Item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic or Acute?	Subject species	Testing date(s)		Submitted? (Date)
					Start	Finish	

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 01/02A
SPDES Number:	

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
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Outfall No.: 01/02A

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	2.3	0.25			2.1	0.13	24	mg/L	kg			
b. Chemical Oxygen Demand (COD)	29.0	3.2			25.9	1.6	24	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<11			<100	<6.0	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	225	24.5			171	10	24	mg/L	kg			
e. Oil & Grease	<10	<1.1			<10	<0.6	0	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	1.1	0.12			0.65	0.04	24	mg/L	kg			
h. Ammonia (as N)	2.3	0.02			0.12	0.007	24	mg/L	kg			
i. Flow	Value 0.029		Value		Value 0.016		1	MGD	MGD	Value		
j. Temperature, winter	Value 11.5 degC		Value		Value 10.8 degC		24			Value		
k. Temperature, summer	Value 11.5 degC		Value		Value 10.8 degC		24			Value		
l. pH	Minimum 7.76	Maximum 8.05	Minimum	Maximum			24			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater?

Yes - Go to Item ii. below.

No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:

Acid:

Base/Neutral:

Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

Yes - Concentration and mass data attached.

No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

Yes - Source or reason for presence in discharge attached

Yes - Quantitative or qualitative data attached

No

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: <u>Carroll Landfill</u>	SPDES No.:
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Outfall No.: <u>01/02A</u>

3. Projected Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results of at least one analysis for each pollutant that you know or have reason to believe is present in this discharge, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a on the preceding page.

List the name and CAS number for each pollutant that you know or have reason to believe is present in the discharge from this outfall. For each pollutant listed from Tables 6, 7, or 8, provide the results of at least one analysis for that pollutant, and determine the mass discharge based on the flow rate reported in Item 1.i. For each pollutant listed from Table 9, or any other toxic pollutant not listed in Tables 6-10, you must provide concentration and mass data (if available) and/or an explanation for their presence in the discharge. Make as many copies of this table as necessary for each outfall.											Page <u>1</u> of <u>2</u>		
Pollutant and CAS Number	Effluent data							Units		Intake data (optional)		Believed present, no sampling results available	
	a. Maximum daily value		b. Maximum 30 day value (if available)		c. Long term average value (if available)		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value			d. Number of analyses
	(1)Concentration	(2) Mass	(1)Concentration	(2) Mass	(1)Concentration	(2) Mass				(1)Concentration	(2) Mass		
Aluminum, Total CAS Number: 07439-90-5	18.7	2.0			6.4	0.4	24	mg/L	kg				
Barium, Total CAS Number: 07440-42-8	0.14	0.02			0.13	0.008	24	mg/L	kg				
Boron, Total CAS Number: 07440-42-8	0.09	0.01			0.05	0.003	24	mg/L	kg				
Chloride, Total CAS Number: 24959-67-9	5.77	0.63			4.62	0.28	24	mg/L	kg				
Chromium, Total CAS Number: 07440-47-3	0.02	0.002			0.01	0.0005	24	mg/L	kg				
Copper, Total CAS Number: 07440-50-8	0.02	0.003			0.01	0.0005	24	mg/L	kg				
Iron, Total CAS Number: 07439-89-6	27.2	3.0			9.2	0.55	24	mg/L	kg				
Magnesium, Total CAS Number: 07439-95-4	11.5	1.3			9.2	0.55	24	mg/L	kg				
Manganese, Total CAS Number: 07439-96-5	0.21	0.023			0.15	0.009	24	mg/L	kg				
Nickel, Total CAS Number: 07440-02-0	0.02	0.002			0.01	0.0005	24	mg/L	kg				
Sodium, Total CAS Number: 07440-23-5	21.9	2.4			9.9	0.6	24	mg/L	kg				
Sulfate, Total CAS Number: 14808-79-8	15	1.6			13.6	0.82	24	mg/L	kg				
Vanadium, Total CAS Number: 07440-62-2	0.03	0.003			0.01	0.0006	24	mg/L	kg				

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
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1. Outfall Number and Location

Outfall No.: 003		
Latitude 42 ° 00 ' 40 "	Longitude -79 ° 05 ' 21 "	Receiving Water Sandberg Road Roadside Channel

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	precipitation dependent			
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge		Process SIC code:
Describe the contributing process	Category Subcategory	Quantity per day Units of measure
b. Name of the process contributing to the discharge		Process SIC code:
Describe the contributing process	Category Subcategory	Quantity per day Units of measure
c. Name of the process contributing to the discharge		Process SIC code:
Describe the contributing process	Category Subcategory	Quantity per day Units of measure
d. Name of the process contributing to the discharge		Process SIC code:
Describe the contributing process	Category Subcategory	Quantity per day Units of measure

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 50.3 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 0.14 MGD	d. Daily Maximum Flow 1.3 MGD	e. Maximum Design flow rate 123 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 003
Facility Name: Carroll Landfill	SPDES Number:

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:

In the stream:

Within a lake or ponded water:

Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.

Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached? <input type="checkbox"/> YES <input type="checkbox"/> NO
Feet	Feet	Feet/Sec	

Section II - Outfall Information

Outfall No.: 003
SPDES Number:

Facility Name: **Carroll Landfill**

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

YES - Complete the following table.

Information on the intake and discharge configuration of this outfall is attached.

NO - Go to Item 9. below.

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
Average change in temperature (delta T)	Maximum change in temperature (delta T)	Maximum temperature	hours per day	days per year	From	To		
							MGD	

9. Are any water treatment chemicals or additives that are used by your facility subsequently discharged through this outfall?

YES - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

NO - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

10. Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving water in relation to this outfall in the past three (3) years?

YES - Complete the following table.

NO - Go to Item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic or Acute?	Subject species	Testing date(s)		Submitted? (Date)
					Start	Finish	

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 003
SPDES Number:	

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
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Outfall No.: 003

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	2.0	9.7			1.2	0.6	6	mg/L	kg			
b. Chemical Oxygen Demand (COD)	21.1	103			20.1	10.5	6	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<488			<100	<52.2	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	656	3194			516	269	6	mg/L	kg			
e. Oil & Grease	<10	<48.8			<10	<5.2	0	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	1.3	6.4			1.1	0.56	12	mg/L	kg			
h. Ammonia (as N)	0.09	0.4			0.04	0.02	6	mg/L	kg			
i. Flow	Value 1.29		Value		Value 0.14		1	MGD	MGD	Value		
j. Temperature, winter	Value 12.1 degC		Value		Value 12.0 degC		2			Value		
k. Temperature, summer	Value 21.5 degC		Value		Value 20.3 degC		4			Value		
l. pH	Minimum 7.8	Maximum 8.1	Minimum	Maximum			6			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater?

Yes - Go to Item ii. below.

No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:

Acid:

Base/Neutral:

Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

Yes - Concentration and mass data attached.

No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

Yes - Source or reason for presence in discharge attached

Yes - Quantitative or qualitative data attached

No

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
--	---------------

1. Outfall Number and Location

Outfall No.: 004		
Latitude 42 ° 00 '48.9"	Longitude -79 ° 05 '48.5"	Receiving Water Onsite Intermittent Channel

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	precipitation dependent			
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 24.9 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 0.068 MGD	d. Daily Maximum Flow 0.19 MGD	e. Maximum Design flow rate 27.5 MGD
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State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
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1. Outfall Number and Location

Outfall No.: 004		
Latitude 42 ° 00 48.9"	Longitude -79 ° 05 ' 8.5"	Receiving Water Onsite Intermittent Channel

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water	precipitation dependent			
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):									
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 30.4 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 0.083 MGD	d. Daily Maximum Flow 0.16 MGD	e. Maximum Design flow rate 36.3 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 004
Facility Name: Carroll Landfill	SPDES Number:

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:

In the stream:

Within a lake or ponded water:

Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.

Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached? <input type="checkbox"/> YES <input type="checkbox"/> NO
Feet	Feet	Feet/Sec	

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 004
SPDES Number:	

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
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Outfall No.: 004

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	21.3	13.3			5.9	1.9	24	mg/L	kg			
b. Chemical Oxygen Demand (COD)	264	165			58	18	24	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<72			<100	<26	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	1020	635			688	217	24	mg/L	kg			
e. Oil & Grease	<10	<7			<10	<3	16	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	9.0	5.6			2.7	0.9	24	mg/L	kg			
h. Ammonia (as N)	6.0	3.7			0.5	0.2	24	mg/L	kg			
i. Flow	Value 0.19		Value		Value 0.068		1	MGD	MGD	Value		
j. Temperature, winter	Value 12.0 degC		Value		Value 11.2 degC		5			Value		
k. Temperature, summer	Value 29.4 degC		Value		Value 24.4 degC		19			Value		
l. pH	Minimum 7.61	Maximum 9.47	Minimum	Maximum			24			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater?

Yes - Go to Item ii. below.

No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles: Acid: Base/Neutral: Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

Yes - Concentration and mass data attached.

No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

Yes - Source or reason for presence in discharge attached

Yes - Quantitative or qualitative data attached

No

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
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1. Outfall Number and Location

Outfall No.: 04A		
Latitude 42 ° 00 48.1"	Longitude -79 ° 05 15.3"	Receiving Water Onsite Surface Water Channel

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify): groundwater drain						0.6		X	
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 0.3 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 8.6e-4 MGD	d. Daily Maximum Flow 0.23 MGD	e. Maximum Design flow rate 0.23 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 04A
	SPDES Number:

5. Is this a seasonal discharge?

YES - Complete the following table.
 NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:
 In the stream:
 Within a lake or ponded water:
 Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
 Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?	<input type="checkbox"/> YES
Feet	Feet	Feet/Sec		<input type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 04A
SPDES Number:	

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
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Outfall No.: 04A

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	<2.0	<1.7			<2.0	<0.006	2	mg/L	kg			
b. Chemical Oxygen Demand (COD)	8.6	7.4			<5.6	<0.02	2	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<86			<100	<0.33	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	180	155			175	0.6	2	mg/L	kg			
e. Oil & Grease	<10	<8.6			<10	<0.03	0	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	0.14	0.12			0.13	0.0004	2	mg/L	kg			
h. Ammonia (as N)	0.12	0.10			0.12	0.0004	2	mg/L	kg			
i. Flow	Value 0.23		Value		Value 8.6e-4		1	MGD	MGD	Value		
j. Temperature, winter	Value 11.0 degC		Value		Value 9.5 degC		2			Value		
k. Temperature, summer	Value 11.0 degC		Value		Value 9.5 degC		2			Value		
l. pH	Minimum 6.7	Maximum 7.5	Minimum	Maximum			2			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater? Yes - Go to Item ii. below.
 No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for: Volatiles: Acid: Base/Neutral: Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall? Yes - Concentration and mass data attached.
 No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall? Yes - Source or reason for presence in discharge attached
 Yes - Quantitative or qualitative data attached
 No

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
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1. Outfall Number and Location

Outfall No.: 04B		
Latitude 42 ° 00 '47.4"	Longitude -79 ° 05 '19.3"	Receiving Water Onsite Surface Water Channel

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify): groundwater drain						0.6		X	
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 0.3 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 8.6e-4 MGD	d. Daily Maximum Flow 0.56 MGD	e. Maximum Design flow rate 0.56 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 04B
Facility Name: Carroll Landfill	SPDES Number:

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:

In the stream:

Within a lake or ponded water:

Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.

Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached? <input type="checkbox"/> YES <input type="checkbox"/> NO
Feet	Feet	Feet/Sec	

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 04B
SPDES Number:	

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
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Outfall No.: 04B

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	<2.0	<4.2			<2.0	<0.006	2	mg/L	kg			
b. Chemical Oxygen Demand (COD)	8.6	18.1			5.6	0.018	2	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<211			<100	<0.33	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	180	377			175	0.57	2	mg/L	kg			
e. Oil & Grease	<10	<21			<10	<0.03	0	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	0.14	0.29			0.13	0.0004	2	mg/L	kg			
h. Ammonia (as N)	0.12	0.25			0.11	0.0004	2	mg/L	kg			
i. Flow	Value 0.56		Value		Value 8.6e-4		1	MGD	MGD	Value		
j. Temperature, winter	Value 11.0 degC		Value		Value 9.5 degC		2			Value		
k. Temperature, summer	Value 11.0 degC		Value		Value 9.5 degC		2			Value		
l. pH	Minimum 6.7	Maximum 7.5	Minimum	Maximum			2			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater?

Yes - Go to Item ii. below.

No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:

Acid:

Base/Neutral:

Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

Yes - Concentration and mass data attached.

No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

Yes - Source or reason for presence in discharge attached

Yes - Quantitative or qualitative data attached

No

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
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1. Outfall Number and Location

Outfall No.: 005		
Latitude 42 ° 00 52.4"	Longitude -79 ° 05 11.8"	Receiving Water Dodge Road Roadside Channel

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify): groundwater drain						0.6		X	
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 0.3 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 8.6e-4 MGD	d. Daily Maximum Flow 0.56 MGD	e. Maximum Design flow rate 0.56 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 005
	SPDES Number:

5. Is this a seasonal discharge?

YES - Complete the following table.

NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

- In the streambank:
- In the stream:
- Within a lake or ponded water:
- Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
- Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?
Feet	Feet	Feet/Sec	<input type="checkbox"/> YES
			<input type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 005
SPDES Number:	

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
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Outfall No.: 005

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	<2.0	<4.2			<2.0	<0.006	2	mg/L	kg			
b. Chemical Oxygen Demand (COD)	8.6	18.1			5.6	0.018	2	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<211			<100	<0.33	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	180	377			175	0.57	2	mg/L	kg			
e. Oil & Grease	<10	<21			<10	<0.03	0	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	0.14	0.29			0.13	0.0004	2	mg/L	kg			
h. Ammonia (as N)	0.12	0.25			0.11	0.0004	2	mg/L	kg			
i. Flow	Value 0.56		Value		Value 8.6e-4		1	MGD	MGD	Value		
j. Temperature, winter	Value 11.0 degC		Value		Value 9.5 degC		2			Value		
k. Temperature, summer	Value 11.0 degC		Value		Value 9.5 degC		2			Value		
l. pH	Minimum 6.7	Maximum 7.5	Minimum	Maximum			2			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater? Yes - Go to Item ii. below.
 No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for: Volatiles: Acid: Base/Neutral: Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall? Yes - Concentration and mass data attached.
 No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall? Yes - Source or reason for presence in discharge attached
 Yes - Quantitative or qualitative data attached
 No

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
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1. Outfall Number and Location

Outfall No.: 006		
Latitude 42 ° 00 '47.7"	Longitude -79 ° 05 '6.06	Receiving Water Onsite Intermittent Channel

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify): groundwater drain						0.6		X	
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 0.3 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 8.6e-4 MGD	d. Daily Maximum Flow 0.23 MGD	e. Maximum Design flow rate 0.23 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 006
SPDES Number:	

5. Is this a seasonal discharge?

YES - Complete the following table.
 NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:
 In the stream:
 Within a lake or ponded water:
 Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
 Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?	<input type="checkbox"/> YES
Feet	Feet	Feet/Sec		<input type="checkbox"/> NO

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: Carroll Landfill	Outfall No.: 006
SPDES Number:	

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

YES - Complete the following table. Treatment codes are listed in Table 4.

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

NO - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
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Outfall No.: 006

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	<2.0	<1.7			<2.0	<0.007	2	mg/L	kg			
b. Chemical Oxygen Demand (COD)	15.7	13.5			14.9	0.05	2	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<87			<100	<0.33	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	360	309			360	1.2	1	mg/L	kg			
e. Oil & Grease	<10	<8.7			<10	<0.03	0	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	810	705			770	2.5	2	mg/L	kg			
h. Ammonia (as N)	340	292			195	0.63	2	mg/L	kg			
i. Flow	Value 0.23		Value		Value 8.6e-4		1	MGD	MGD	Value		
j. Temperature, winter	Value 8.6 degC		Value		Value 8.6 degC		1			Value		
k. Temperature, summer	Value 11.0 degC		Value		Value 11.0 degC		0			Value		
l. pH	Minimum 6.6	Maximum 6.6	Minimum	Maximum			1			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater?

Yes - Go to Item ii. below.

No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles: Acid: Base/Neutral: Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

Yes - Concentration and mass data attached.

No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

Yes - Source or reason for presence in discharge attached

Yes - Quantitative or qualitative data attached

No

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: <u>Carroll Landfill</u>	SPDES No.:
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Outfall No.: <u>006</u>

3. Projected Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results of at least one analysis for each pollutant that you know or have reason to believe is present in this discharge, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a on the preceding page.

Pollutant and CAS Number	Effluent data							Units		Intake data (optional)		Believed present, no sampling results available	
	a. Maximum daily value		b. Maximum 30 day value (if available)		c. Long term average value (if available)		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value			d. Number of analyses
	(1)Concentration	(2) Mass	(1)Concentration	(2) Mass	(1)Concentration	(2) Mass				(1)Concentration	(2) Mass		
Aluminum, Total CAS Number: 07439-90-5	0.23	0.20			0.13	0.0005	2	mg/L	kg				
Barium, Total CAS Number: 07440-42-8	0.12	0.10			0.11	0.0004	2	mg/L	kg				
Boron, Total CAS Number: 07440-42-8	0.33	0.28			0.28	0.0009	2	mg/L	kg				
Chloride, Total CAS Number: 24959-67-9	5.7	4.9			4.8	0.02	2	mg/L	kg				
Chromium, Total CAS Number: 07440-47-3	0.002	0.002			0.002	5.2e-6	2	mg/L	kg				
Copper, Total CAS Number: 07440-50-8	0.002	0.002			0.002	5.2e-6	2	mg/L	kg				
Iron, Total CAS Number: 07439-89-6	3.7	3.2			2.0	0.007	2	mg/L	kg				
Magnesium, Total CAS Number: 07439-95-4	22.0	18.9			21.6	0.07	2	mg/L	kg				
Manganese, Total CAS Number: 07439-96-5	0.6	0.5			0.6	0.002	2	mg/L	kg				
Nickel, Total CAS Number: 07440-02-0	0.002	0.001			0.002	3.7e-6	2	mg/L	kg				
Sodium, Total CAS Number: 07440-23-5	7.3	6.3			6.9	0.02	2	mg/L	kg				
Sulfate, Total CAS Number: 14808-79-8	55.9	48.0			41.5	0.14	2	mg/L	kg				
Trichlorofluoromethane CAS Number: 00075-69-4	0.004	0.003			0.002	7.3e-6	2	mg/L	kg				
Zinc, Total 07440-66-6	0.006	0.005			0.004	1.2e-5	2	mg/L	kg				

Page 1 of 1

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: Carroll Landfill	SPDES Number:
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1. Outfall Number and Location

Outfall No.: 007		
Latitude 42 ° 00 '47.7"	Longitude -79 ° 05 '6.06"	Receiving Water Onsite Intermittent Channel

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify): groundwater trench drain						230		X	
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge 168.9 MG	b. Daily Minimum Flow 0 MGD	c. Daily Average Flow 0.16 MGD	d. Daily Maximum Flow 0.33 MGD	e. Maximum Design flow rate 0.43 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

	Outfall No.: 007
Facility Name: Carroll Landfill	SPDES Number:

5. Is this a seasonal discharge?

YES - Complete the following table.
 NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply	N/A		MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:

In the stream:

Within a lake or ponded water:

Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.

Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located? N/A

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: N/A

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached? <input type="checkbox"/> YES <input type="checkbox"/> NO
Feet	Feet	Feet/Sec	

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name: Carroll Landfill	SPDES No.:
--	------------

Outfall No.: 007

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data						Units		Intake data (optional)			
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	2.3	2.9			2.1	1.2	24	mg/L	kg			
b. Chemical Oxygen Demand (COD)	29.0	36.4			25.9	15.3	24	mg/L	kg			
c. Total Suspended Solids (TSS)	<100	<125			<100	<61	0	mg/L	kg			
d. Total Dissolved Solids (TDS)	225	282			171	101	24	mg/L	kg			
e. Oil & Grease	<10	<12.5			<10	<7.6	0	mg/L	kg			
f. Chlorine, Total Residual (TRC)	0	0			0	0	0	mg/L	kg			
g. Total Organic Nitrogen (TON)	1.1	1.4			0.32	0.38	24	mg/L	kg			
h. Ammonia (as N)	0.17	0.21			0.12	0.07	24	mg/L	kg			
i. Flow	Value 0.33		Value		Value 0.16		1	MGD	MGD	Value		
j. Temperature, winter	Value 11.5 degC		Value		Value 10.8 degC		24			Value		
k. Temperature, summer	Value 11.5 degC		Value		Value 10.8 degC		24			Value		
l. pH	Minimum 7.76	Maximum 8.05	Minimum	Maximum			24			Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

i. Does the discharge from this outfall contain process wastewater?

Yes - Go to Item ii. below.

No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:

Acid:

Base/Neutral:

Pesticide:

b. All applicants:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

Yes - Concentration and mass data attached.

No - Go to Item ii. below.

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

Yes - Source or reason for presence in discharge attached

Yes - Quantitative or qualitative data attached

No

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: <u>Carroll Landfill</u>	SPDES No.:
--	------------

Outfall No.: <u>007</u>

3. Projected Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

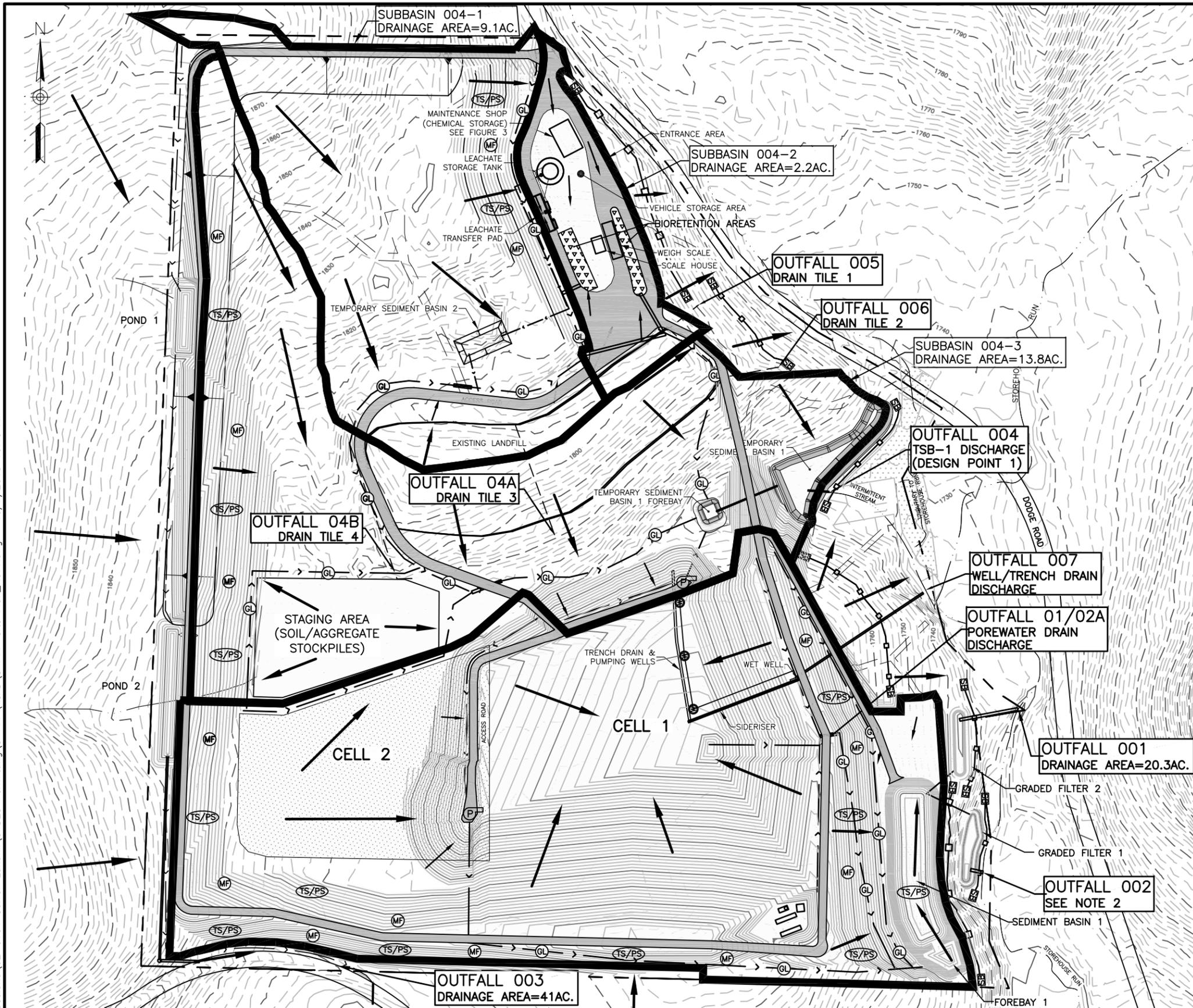
Provide analytical results of at least one analysis for each pollutant that you know or have reason to believe is present in this discharge, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a on the preceding page.

List the name and CAS number for each pollutant that you know or have reason to believe is present in the discharge from this outfall. For each pollutant listed from Tables 6, 7, or 8, provide the results of at least one analysis for that pollutant, and determine the mass discharge based on the flow rate reported in Item 1.i. For each pollutant listed from Table 9, or any other toxic pollutant not listed in Tables 6-10, you must provide concentration and mass data (if available) and/or an explanation for their presence in the discharge. Make as many copies of this table as necessary for each outfall.											Page <u>1</u> of <u>2</u>		
Pollutant and CAS Number	Effluent data							Units		Intake data (optional)		Believed present, no sampling results available	
	a. Maximum daily value		b. Maximum 30 day value (if available)		c. Long term average value (if available)		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value			d. Number of analyses
	(1)Concentration	(2) Mass	(1)Concentration	(2) Mass	(1)Concentration	(2) Mass				(1)Concentration	(2) Mass		
Aluminum, Total CAS Number: 07439-90-5	18.7	23.4			6.4	3.8	24	mg/L	kg				
Barium, Total CAS Number: 07440-42-8	0.14	0.18			0.13	0.07	24	mg/L	kg				
Boron, Total CAS Number: 07440-42-8	0.09	0.11			0.05	0.03	24	mg/L	kg				
Chloride, Total CAS Number: 24959-67-9	5.8	7.2			4.6	2.7	24	mg/L	kg				
Chromium, Total CAS Number: 07440-47-3	0.02	0.03			0.01	0.005	24	mg/L	kg				
Copper, Total CAS Number: 07440-50-8	0.02	0.03			0.01	0.005	24	mg/L	kg				
Iron, Total CAS Number: 07439-89-6	27.2	34.0			9.4	5.4	24	mg/L	kg				
Magnesium, Total CAS Number: 07439-95-4	11.5	14.4			9.2	5.4	24	mg/L	kg				
Manganese, Total CAS Number: 07439-96-5	0.21	0.27			0.15	0.09	24	mg/L	kg				
Nickel, Total CAS Number: 07440-02-0	0.02	0.03			0.01	0.005	24	mg/L	kg				
Sodium, Total CAS Number: 07440-23-5	21.9	27.4			9.9	5.8	24	mg/L	kg				
Sulfate, Total CAS Number: 14808-79-8	15.0	18.8			13.6	8.1	24	mg/L	kg				
Vanadium, Total CAS Number: 07440-62-2	0.03	0.03			0.01	0.006	24	mg/L	kg				

ATTACHMENT 3

Site Map & Phasing Plan

Q:\Sealand\02-0104 Carroll Landfill\SPDES Permitting\SWPPP\ACAD\SWPPP Site Plan_Rev1.dwg 10/7/2015 10:45 AM



- LEGEND:**
- STORMWATER PUMP
 - TEMPORARY/PERMANENT SEEDING
 - MULCH & FERTILIZER APPLICATION
 - GRASS-LINED CHANNEL
 - CULVERT
 - STRAW BALE
 - SILT FENCING
 - STORMWATER FLOW DIRECTION
 - ACCESS ROAD
 - PROPERTY BOUNDARY
 - DIVERSION SWALES/CHANNELS
 - STREAM
 - DRAINAGE AREA OUTLINE
 - BIORETENTION AREAS
 - WETLAND BOUNDARY
 - BORROW AREA

- NOTES:**
1. THE SIZE OF THE PROPERTY IS 53.9 ACRES.
 2. OUTFALL 002 IS UTILIZED WHEN THE SAND FILTER AT OUTFALL 001 IS TAKEN OFFLINE FOR CLEANING/MAINTENANCE.
 3. OFFSITE DRAINAGE WILL BE DIVERTED ALONG THE WESTERN SIDE OF THE PROPERTY AND DISCHARGED ALONG SANDBERG ROAD. OFFSITE LANDUSE CONSISTS OF MOSTLY WOODY VEGETATION. SIGNIFICANT POLLUTANT LOADS ARE NOT EXPECTED FROM THE WEST.
 4. THERE ARE SIX NON-STORMWATER DISCHARGES ONSITE. ALL ARE GROUNDWATER DISCHARGES ASSOCIATED WITH THE EXISTING OR PROPOSED LANDFILL AREAS; DRAIN TILES 1-4, WELL/TRENCH DRAIN DISCHARGE, & POREWATER DISCHARGE.

ALTERATION OF ANY SURVEY, DRAWING, DESIGN, SPECIFICATION OR REPORT MUST BE COMPLETED IN ACCORDANCE WITH SECTION 7209 PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.



NO.	REVISION	BY	DATE

JAMES A. DAIGLER, P.E.
NYSPE NO. 061689

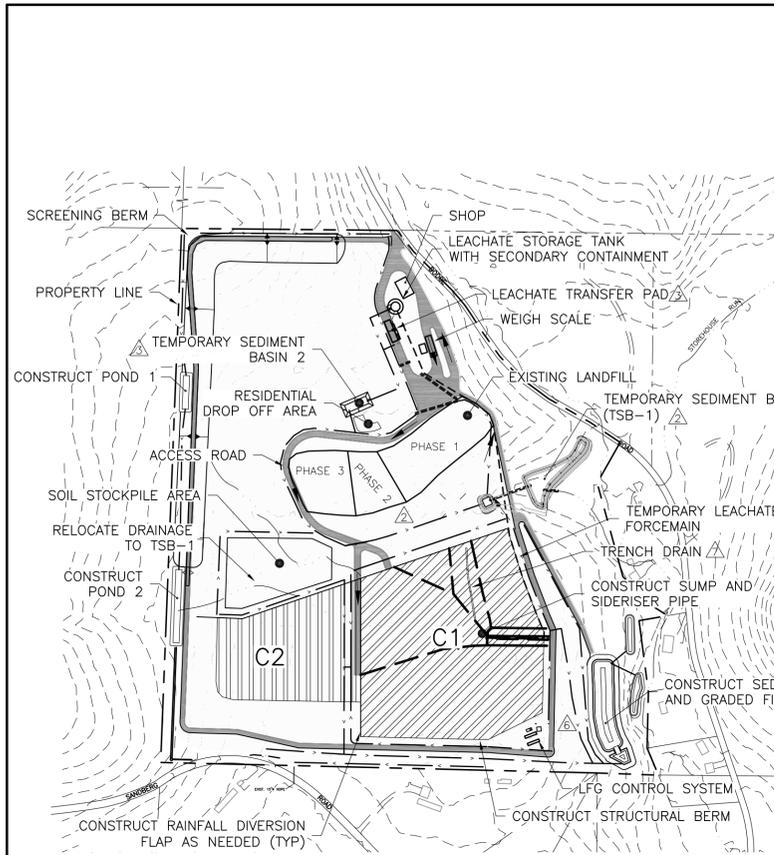
DATE: October 2015

SCALE: 1"=200'

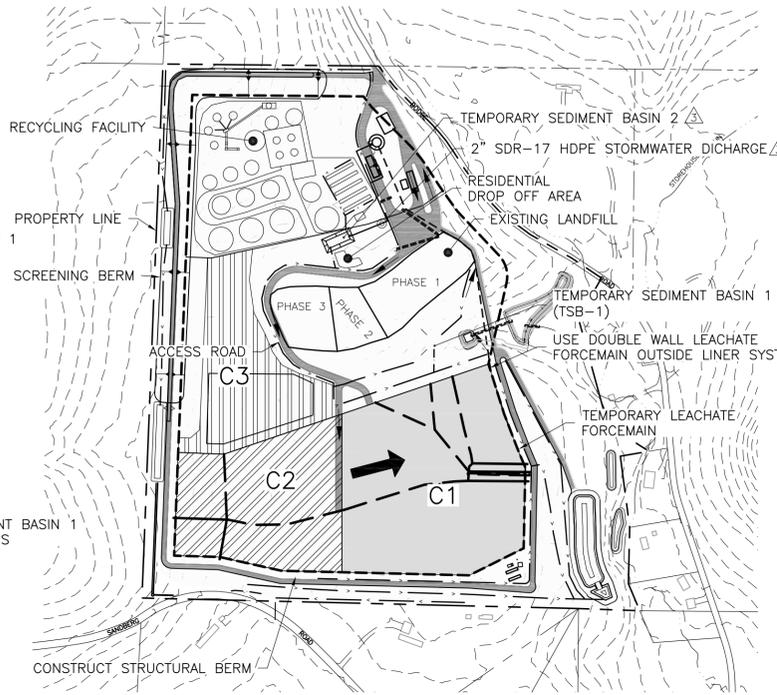
PREPARED FOR:	SEALAND WASTE, LLC
DES. BY:	DRW. BY:
DWG:	CHK. BY:
SWPPP Site Plan_Rev1.dwg	

SITE MAP-INITIAL CONSTRUCTION PHASE		
STORMWATER POLLUTION PREVENTION PLAN		
TOWN OF LEWISTON	NIAGARA COUNTY	NEW YORK

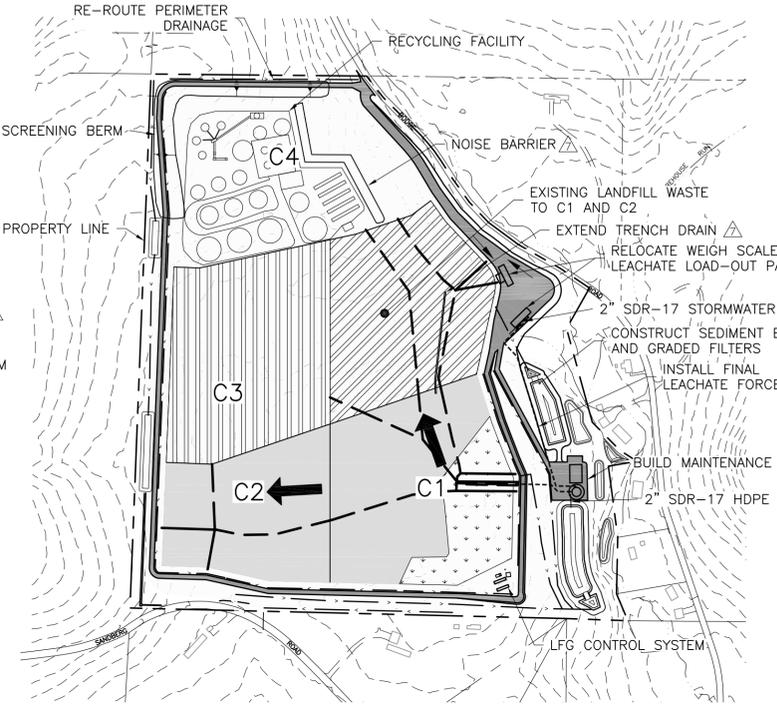
FIGURE
3



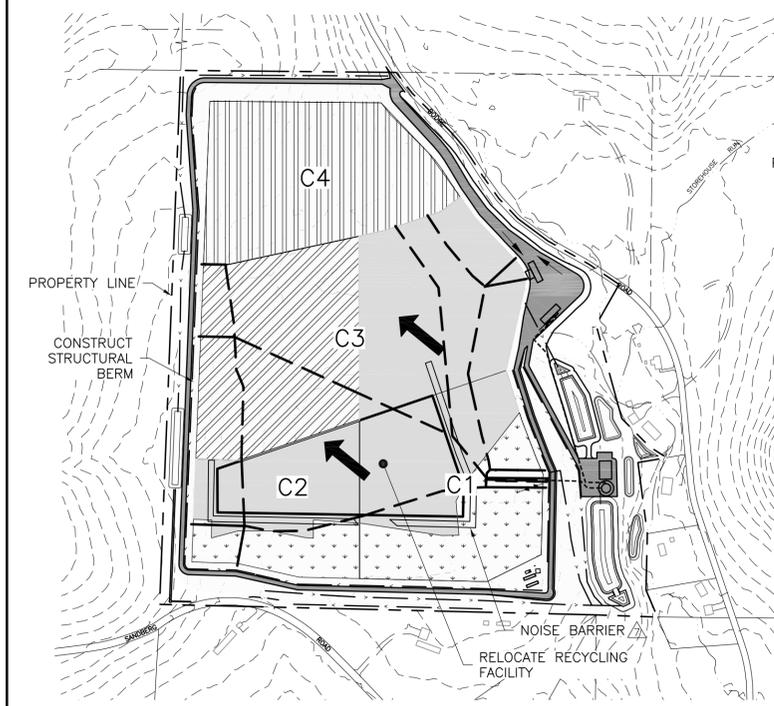
1 INITIAL CONSTRUCTION
Scale: 1"=300'



2 PHASE 4
Scale: 1"=300'

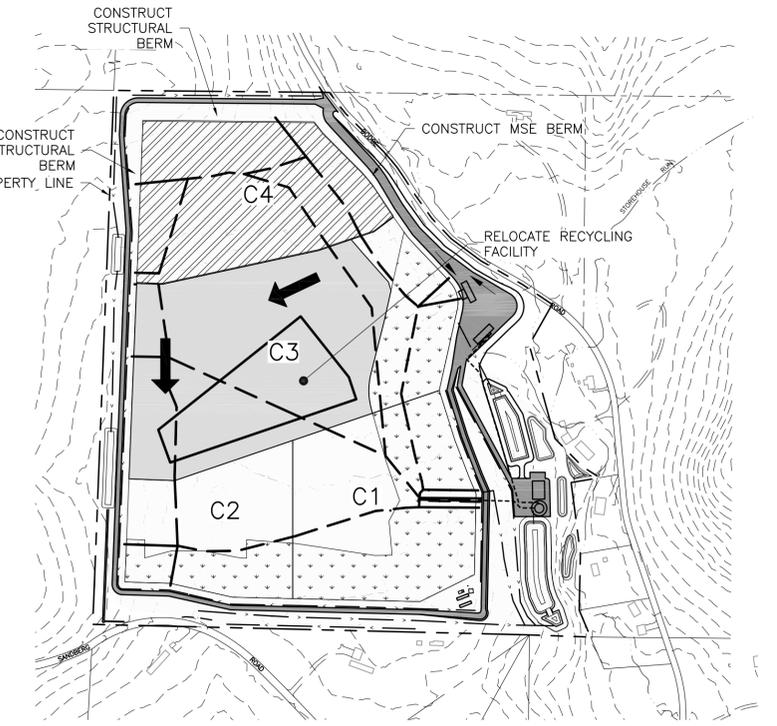


3 PHASE 5
Scale: 1"=300'



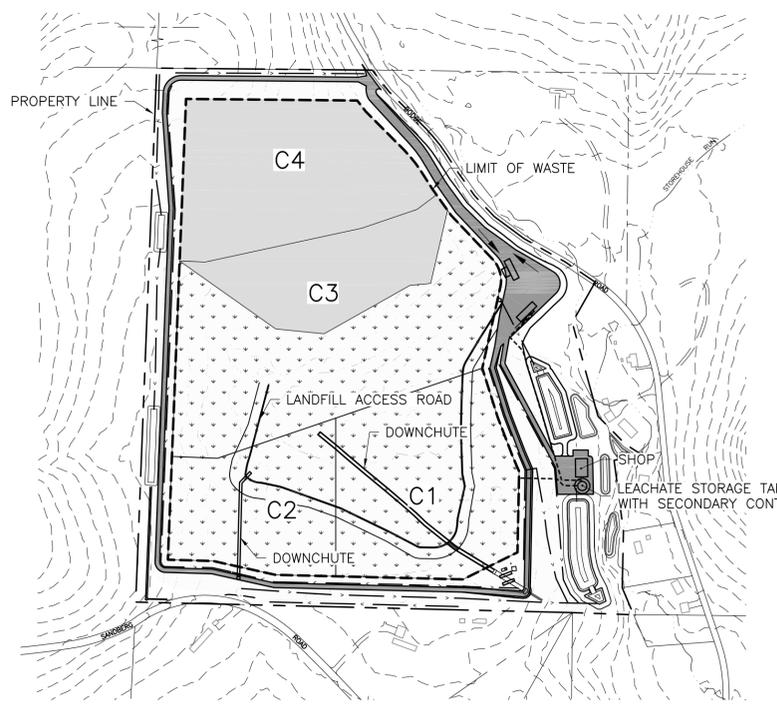
4 PHASE 6
Scale: 1"=300'

NOTE:
RECYCLING FACILITY TO BE RELOCATED SEQUENTIALLY DURING PHASE 6 TO ACCOMMODATE PROGRESS OF LANDFILLING IN CELL 1 AND 3, AND BORROW AREA IN CELL 4.

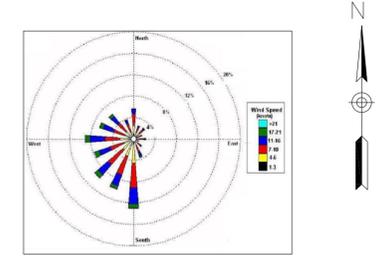


5 PHASE 7
Scale: 1"=300'

NOTE:
RECYCLING FACILITY TO BE RELOCATED SEQUENTIALLY DURING PHASE 7 TO ACCOMMODATE PROGRESS OF LANDFILLING IN CELL 3 AND CELL 4.



6 PHASE 8
Scale: 1"=300'



WIND ROSE
NOTE:
WIND ROSE REPRESENTS THE AVERAGE ANNUAL WIND DIRECTION AND SPEED DATA COLLECTED BY NOAA, JAMESTOWN, NEW YORK SOURCE DATES: 1973 TO 2003

- LEGEND:**
- BORROW AREA
 - LINER CONSTRUCTION
 - ACTIVE LANDFILLING
 - FINAL COVER
 - DIRECTION OF INITIAL FILL PLACEMENT
 - DRAINAGE CHANNEL FLOW DIRECTION
 - LEACHATE FORCEMAIN
 - ACCESS ROAD
 - LEAK DETECTION POINT
 - PRIMARY LEACHATE COLLECTION PIPE
 - PRIMARY LEACHATE CLEAN OUT PIPE

NOTE:
1. THE SIZE OF THE LANDFILL CELLS SHOWN HEREON ARE FOR ILLUSTRATION PURPOSES TO SHOW FILL SEQUENCING. THE ACTUAL SIZE AND NUMBER OF CELLS WILL BE DEPENDENT ON WEATHER AND MARKET CONDITIONS.
2. SEE PD-8 FOR FINAL GRADING AND DRAINAGE PLAN

NO.	REVISION	BY	DATE
1	ADDED TRENCH DRAIN AND NOISE BARRIER	TPP	10/02/15
2	ADDED LFG PAD AND DRAINAGE	TPP	10/02/15
3	REVISED FINAL COVER PLACEMENT PROGRESSION	TPP	5/14/15
4	ADDED DRAINAGE PHASE 5 TANK AND TRANSFER PAD TO FOREBAY SB 1 AND 2	TPP	3/06/15
5	ADDED DRAINAGE TO INITIAL PHASE TANK AND TRANSFER PAD TO TEMPORARY SEDIMENT BASIN 2	TPP	3/02/15
6	ADDED INITIAL CONSTRUCTION RETENTION BASIN	TPP	6/06/14
7	ADDED PLCRS PIPING AND SUBGRADE DRAIN IN PHASES	TPP	7/01/14

DAIGLER ENGINEERING, P.C.
CIVIL & GEO-ENVIRONMENTAL ENGINEERING
2620 GRAND ISLAND BLVD. GRAND ISLAND, NEW YORK 14072
(716) 773-6872 (716) 773-6873 FAX

JAMES A. DAIGLER, P.E.
NYSPE NO. 061689

DATE: March 2014

SCALE: 1"=300'

PREPARED FOR: SEALAND WASTE, LLC.			PHASING PLAN			SHEET PD-10
DES. BY:	DRW. BY:	CHK. BY:				
DWG.	PD-9 CARROLL-PHASING.dwg	TOWN OF CARROLL	CHAUTAUQUA COUNTY	STATE OF NEW YORK		

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ATTACHMENT 4

Spills and Releases Log

Stormwater Pollution Prevention Plan Spills and Releases Log

SPILLS AND RELEASES LOG			
Date & Time of Spill	Type of Spill, Location, Approximate Quantity Released	Was there a Release to a Nearby Waterbody?	Describe How and When the Release Was Remedied <i>(i.e. dry absorbent, wet vacuum, etc.)</i>
		<input type="checkbox"/> YES <input type="checkbox"/> NO	
		<input type="checkbox"/> YES <input type="checkbox"/> NO	
		<input type="checkbox"/> YES <input type="checkbox"/> NO	
		<input type="checkbox"/> YES <input type="checkbox"/> NO	
		<input type="checkbox"/> YES <input type="checkbox"/> NO	
		<input type="checkbox"/> YES <input type="checkbox"/> NO	
		<input type="checkbox"/> YES <input type="checkbox"/> NO	

ATTACHMENT 5

Routine Visual Inspection Form

Stormwater Pollution Prevention Plan Routine Visual Inspection Report

GENERAL INFORMATION			
Project Name:	Carroll Landfill Expansion	Project Location:	Town of Carroll, New York
Inspector Name:		Inspectors Initials (When Complete):	
Inspector Title(s):			
Inspector Contact Information:			
Date of Inspection:			
Inspection Start Time:		Inspection End Time:	
Type of Inspection:	<input type="checkbox"/> Routine <input type="checkbox"/> Pre-Storm Event <input type="checkbox"/> Post-Storm Event		
Describe Current Site Activities:			
WEATHER INFORMATION			
Current Conditions (mark all that apply):	<input type="checkbox"/> Clear <input type="checkbox"/> Sunny <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Windy <input type="checkbox"/> Other:		
Precipitation:	<input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> Other:		
Overall Ground Conditions:	<input type="checkbox"/> Dry <input type="checkbox"/> Frozen <input type="checkbox"/> Saturated/Wet		
Ambient Temperature:		Ground Cover Conditions:	

Date: _____ Initials: _____

The following table describes the Inspection Points shown on the site map contained in Attachment 3 of the SWPPP. During inspection, if areas not identified on the table are observed and require repairs, maintenance, and/or corrective action, blank spaces are provided and should be completed accordingly. Photographs should be printed and attached to this form.

At minimum, the following observations should be noted at each inspection point:

- Condition of runoff at all points of discharge
- Effectiveness of BMPs/ESCs
- Impacts of site activities on surrounding waterways, wetlands, and ground surfaces
- Photos at each inspection point

Inspection Point Description	What to Inspect	Repairs, maintenance, corrective action required?	Date repairs, maintenance, corrective, action completed?	Notes <i>(Location, type of action required, conditions at inspection point, discharges occurring, etc.)</i>	Photo Number <i>(include camera number or time taken)</i>
Secondary Containment of the 8000 and 300 gal fuel storage tanks	Stormwater in secondary containment structure, visible evidence of contamination (sheen/odor/oils)	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
Vehicle and Equipment Maintenance Areas	Signs of leak/spill, proper management of materials and equipment	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
Diversion Channels & Check Dams	Sediment accumulation, channel erosion, areas of rock displacement, erosion under rocks	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			

Date: _____ Initials: _____

Stormwater Pollution Prevention Plan
Routine Visual Inspection Report

Inspection Point Description	What to Inspect	Repairs, maintenance, corrective action required?	Date repairs, maintenance, corrective, action completed?	Notes <i>(Location, type of action required, conditions at inspection point, discharges occurring, etc.)</i>	Photo Number <i>(include camera number or time taken)</i>
Straw Bales	Decaying or falling apart, properly anchored/ installed	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
Silt Fence	Rips/tears in fabric, areas where stormwater flows around or through, proper installation and function	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
Permanent/ Temporary Seeding & Mulched Areas	Bare spots, additional mulch needed, erosion and sediment transport	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
Sediment Traps & Sediment Basins	Depth of accumulated sediment, floating debris, clogged outlet structures	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
Outfalls	Accumulated sediment, clogged discharge structures, unusual discharge	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			

Date: _____ Initials: _____

Stormwater Pollution Prevention Plan
Routine Visual Inspection Report

Inspection Point Description	What to Inspect	Repairs, maintenance, corrective action required?	Date repairs, maintenance, corrective, action completed?	Notes <i>(Location, type of action required, conditions at inspection point, discharges occurring, etc.)</i>	Photo Number <i>(include camera number or time taken)</i>
Were any allowable non-stormwater sources/discharges identified? <i>(i.e. fire hydrant flushing, potable water sources, air conditioning/compressor condensate, irrigation drainage, landscape watering, building washdowns, foundation drains)</i>		<input type="checkbox"/> YES <input type="checkbox"/> NO			
Existing Landfill Non-Stormwater Discharge Points	Inspect all 4 non-stormwater discharge pipes, Check for abnormal stains/smudges/odors	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
Subsurface Groundwater Discharge to Level Spreader	Check for abnormal stains/smudges/odors, clogged level spreader	<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
Was any waste, garbage, or floatable debris identified? If yes, was the waste eliminated and placed in the proper containment location?		<input type="checkbox"/> YES <input type="checkbox"/> NO			
		<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			

Date: _____ Initials: _____

Stormwater Pollution Prevention Plan
Routine Visual Inspection Report

Inspection Point Description	What to Inspect	Repairs, maintenance, corrective action required?	Date repairs, maintenance, corrective, action completed?	Notes <i>(Location, type of action required, conditions at inspection point, discharges occurring, etc.)</i>	Photo Number <i>(include camera number or time taken)</i>
		<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
		<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			
		<input type="checkbox"/> NA <input type="checkbox"/> YES <input type="checkbox"/> NO			

Notes: _____

Date: _____ Initials: _____

SECTOR L EROSION AND SEDIMENT CONTROLS	
Describe the condition of all natural surface water bodies located within/adjacent to the property boundary.	
Are there any discharges of sediment or other pollutants from the site? Describe condition of runoff.	
Describe areas that are disturbed at the time of this inspection.	
Describe areas that have been stabilized/in the process of stabilization at the time of this inspection.	

Date: _____ Initials: _____

ATTACHMENT 6

Maintenance Activities Form

Stormwater Pollution Prevention Plan Maintenance Activities Log

MAINTENANCE LOG			
Name:			
Title:			
Contact Information:			
Date Maintenance was Identified:		Date Maintenance was Completed:	
Description of Maintenance Performed:			
Signature (When Complete):			

MAINTENANCE LOG			
Name:			
Title:			
Contact Information:			
Date Maintenance was Identified:		Date Maintenance was Completed:	
Description of Maintenance Performed:			
Signature (When Complete):			

ATTACHMENT 7

Employee Training and Education Log

ATTACHMENT 8

**Project-Specific Erosion and Sediment
Control Plans**

ATTACHMENT 9

**Discharge Monitoring Reports,
Laboratory Results, & Chain of Custody
Forms**