

***Virginia Department of Environmental Quality
Permit-by-Rule Modification
Permit #561***

OPERATIONS MANUAL

FOR

TROY TRANSFER

**5498 Richmond Road
Troy, Virginia 22974**

Prepared For:



GFL OF VIRGINIA, LLC

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1. Introduction

1.1 Project Description

GFL of Virginia, LLC (GFL) operates a municipal solid waste (MSW) transfer station, Troy Transfer, in Troy, Virginia (Figure 1), Fluvanna County. The facility is located at 5498 Richmond Road approximately one-half mile west of the intersection of State Routes 15 and 250. The facility is currently operated as an MSW collection facility, i.e., transfer station, under PBR #561, issued to County Waste, LLC in June 2018. GFL purchased the 1.474-acre property on which the transfer station is located and the Troy Truck Facility on the neighboring parcel from County Waste, LLC in January of 2020.

In accordance with Virginia Solid Waste Management Regulations (9 VAC 20-81-410), GFL intends to operate the transfer station under a modified permit-by-rule, using the existing building for the delivery, handling, storage and transfer of MSW and single-stream recyclables (SSR). Solid waste collection facilities, like Troy Transfer are a use-by-right under the Fluvanna County Code in Zone I-1 (Industrial, Limited) where the facility is located.

The facility has a maximum design and construction capacity of 1,000 tons per day. The proposed operational capacity is 850 tons per day.

1.2 Public Participation

Documentation of the public participation process required for this permit modification is included in Appendix A.

1.3 Facility Design

Facility controls will provide safeguards to employees, the environment and surrounding neighborhood. The 200' x 90' transfer station building has a concrete floor, poured-concrete push walls, metal siding and a metal roof. Tipping and transfer of waste and SSR from GFL-owned compactors or private waste trucks to GFL-owned transfer trailers occur inside the building. Floors are constructed of an easily cleanable, smooth, reinforced concrete.

The facility has been designed to accept up to 1,000 tons per day of material consisting of MSW and recyclables (SSR), which are handled in separate areas. The site plan and building layout plan are provided as Figure 2 and Figure 3.

The building floor is sloped to the leachate collection drain, which conveys liquids to a 5,000-gallon storage tank. The tank contents are emptied and transported by a qualified hauler to a disposal facility as necessary.

A Certification of Design and Construction was submitted with the permit-by-rule application for the transfer station in October 2009, which was updated in 2018 and again in 2024. Notices and certifications required for this PBR application are provided in Appendix B.

1.4 Facility Setting

The property is not located on an aquifer or in a unique, unstable, or otherwise limiting geologic setting. The facility does not impact wetlands, is not in an area subject to base floods, and is not within 50 feet of any stream.

The facility is not located closer than 200 feet to any residential area, health care facility, school, recreational park area or similar type of public institution.

Variance Application

The building is located closer than the 50' offset from the property boundary required by the current regulations (9VAC 20-81-320). The distances on the west, northwest, and northeast sides of the transfer station building do not meet the 50' requirement, which came into effect after the MRF obtained its PBR (#561) in November 2009. These areas will continue to be used to provide access to the building for vehicles, as they were previously when the facility was a MRF. An application for a variance from 9 VAC 20-81-320.C.1. (Appendix C) was submitted to the Department on April 9, 2018.

1.5 Types of Materials Accepted

The transfer station will accept:

- Residential, commercial, and institutional waste
- Recyclables such as plastic, glass, cardboard, paper and metal

Household hazardous wastes will not be accepted at the facility. The facility will not accept industrial, medical, radioactive or hazardous wastes, friable asbestos, liquids, sludges, ashes, or septage. Unacceptable waste is discussed in Section 4, Waste Control Plan.

1.6 Facility Access

Site roads adjoining the transfer station are paved with asphalt, gravel and concrete. Traffic will access the transfer station from State Route 250 (Richmond Rd.) via the adjacent GFL truck parking facility. The truck yard has sufficient room to accommodate several tractor-trailers or collection vehicles for queuing before and after the scale, if necessary. This design serves to minimize traffic congestion at the facility or on the state road. The truck yard is paved with asphalt, which provides an all-weather surface suitable for loaded vehicles. Figure 2 illustrates on-site traffic patterns.

1.7 Loading Areas and On-Site Roads

On-site roadways and parking areas are composed of asphalt pavement, which significantly reduces creation of dust. Surfaces will be maintained to minimize ponding and dust generation. The site is graded to ensure that stormwater drains away from the building.

The tipping and loading floors are constructed of high-strength concrete designed to withstand the anticipated loads.

1.8 Stormwater Management

The ground surface is sloped away from the building to prevent stormwater from entering the building. Stormwater runoff from the majority of the site is carried via sheet flow to the existing wet pond on the adjacent GFL truck parking facility. Effluent from the wet pond exists through a concrete drainage structure that drains to a larger stormwater pond on the adjacent van der Linde property. In the southwest corner of the site, stormwater runoff sheet flows to a catch basin that drops into the wet pond discharge pipe. The catch basin inlet is protected by a vegetated buffer and compost filter sock. A concrete loading/storage dock behind the Troy transfer building drains directly to the van der Linde stormwater pond.

2. Description of Operations

2.1 Schedule of Operation

The days and hours of operation are:

Monday-Saturday 6:00 am to 7:00 pm for receiving materials
Monday-Saturday 24 hours per day for material handling and loading

2.2 Material Transport and Delivery

The majority of materials are collected by and delivered to the facility by residential and commercial/industrial collection trucks. All waste transport vehicles entering or exiting the facility must be tarped or otherwise adequately covered to contain waste inside the vehicle.

When collection vehicles arrive at the facility, they will be weighed at the scale. On-site personnel will direct trucks to the appropriate location for unloading. Loads will be inspected by facility personnel for unacceptable waste. MSW and SSR will be unloaded in separate areas of the building, as shown on Figure 3, Building Layout. All material-handling activities at the facility take place within the building.

2.3 Site Equipment

The primary equipment used to conduct material handling operations at the facility includes:

- Wheel loaders, or equivalent
- Excavators with grapple
- Yard tractor

GFL will rent or lease equipment from local vendors where appropriate when on-site equipment is being serviced or is otherwise not available. Additionally, when a specific equipment need is identified during operation of the facility, the equipment may be rented, leased or purchased from area vendors such as Carter Machinery Company Inc. in Mechanicsville, VA (804-380-0269).

Specified equipment or equivalents are readily available and require minimal lead-time for delivery to the site.

Operators will be responsible for ensuring that equipment is routinely inspected and maintained in accordance with manufacturers' recommendations for safe operation. Equipment manuals will be provided to operators.

2.4 Material Working Area and Storage

The MSW and SSR receiving areas (total of 18,000 sqft) are sized to allow a working capacity of up to 1,000 tons of material, which is the maximum amount of material that may be received per day as designed. The facility maintains adequate space by transferring incoming loads continuously throughout the workday. There will be no overnight storage of uncontainerized MSW on the tipping floor. Partially-loaded trailers may remain overnight inside the building with a maximum capacity of 23 tons of MSW and 19 tons of SSR.

All materials will be stored so that they will not create nuisance or unsanitary conditions. Containers, transfer trailers and portable bunker dividers allow flexibility to modify the facility's storage capacity as conditions warrant.

2.5 Loading Procedures

MSW is transferred from the tipping floor to a transfer trailer using a loader and or an excavator with a grapple. SSR is transferred into a separate transfer trailer using a stationary compactor and loader. Care will be exercised to make sure trailers are in place with lids open, that only acceptable materials are loaded, and that unacceptable materials are set aside for special handling. Full SSR trailers will be sent to an appropriate processing facility. Full MSW trailers will be sent to a permitted solid waste management facility. Partially-loaded trailers may be temporarily stored inside the building.

2.6 Unauthorized Waste

Procedures for handling unauthorized waste are discussed in the Waste Control Plan (Section 5).

2.7 Daily Cleanup

All materials remaining at the facility at the close of operations each day will be contained inside the building. At the end of each day, all MSW will be consolidated into a transfer trailer or container. Personnel will clean receiving areas and remove any waste generated during daily activities to control odors and vectors. The floor of the building will be washed with water, if necessary. Any liquids will be directed to the floor drain into the storage tank for disposal. A spill clean-up kit will be maintained on site for larger spills. Litter around the site will be picked up periodically during the day.

3. Operational Controls

3.1 Access Control

Fencing is provided around the perimeter of the property. The entrance from Richmond Road is gated to prevent entrance into the facility during non-operating hours. All traffic will enter and exit the facility via the adjoining GFL truck yard. The General Manager or designee will be available on-site during Facility operating hours. The gate at the GFL truck yard will be locked when that facility is closed.

3.2 Signs

Signs posted at the facility include the following:

Exterior:

- Facility Identification, Hours of Operation, Acceptable and Unacceptable Waste
- Vehicle Tarping Requirement
- Speed Limit 5 MPH
- Personal Protection Requirements

Interior:

- Emergency Telephone Numbers
- No Smoking

3.3 Water Supply

The building is supplied with water for washing waste-handling areas.

3.4 Fire Protection and Control

The building is a pre-engineered metal structure, which minimizes fire hazards. “No Smoking” signs are posted in several areas. Smoking is permitted only in designated outdoor areas. Burning of materials is not permitted at the facility.

Fire protection features include a dry sprinkler system and a fire hydrant to the northeast of the building, both supplied by a large-volume water holding tank on the neighboring van der Linde property. Wall-mounted, general-purpose ABC fire extinguishers are available at several locations in the building for use in the event of a fire. Fire extinguishers are inspected annually by a licensed vendor and serviced or recharged when necessary.

If necessary, the building will be evacuated and 911 will be called for firefighting assistance. Site access routes are maintained to allow unrestricted movement of site vehicles and emergency response equipment.

3.5 Ventilation

Ventilation of the building is through the door openings, as well as exhaust fans mounted in the northwest and southeast walls.

3.6 Traffic

Incoming vehicles enter the facility from Route 250 (Richmond Road) via the GFL truck yard. Departing vehicles exit the same way. There is sufficient room near the site entrance to accommodate tractor-trailers or

collection vehicles for queuing. The queuing capacity was evaluated assuming waste arrives in average-sized, rear-loading garbage collection truck. The facility currently receives up to 12 trucks in a peak hour with its operational capacity of 500 tpd. With the design capacity at 1,000 tpd, double that of the current operational capacity up to 24 trucks could be received in a peak hour. Based on the available space between the site entrance and the building, a single-file line of up to 20 trucks could be received in one peak hour. Plus, sufficient space is available to add an additional row of trucks if needed. Therefore, the facility has sufficient queuing capacity as designed to manage incoming vehicles without allowing the waiting collection vehicles to back up onto the Richmond Road. In the event that traffic becomes congested, GFL employees will manage traffic. Collection vehicles will be weighed and proceed to the building to unload. After tipping, collection vehicles will exit the facility via the truck yard.

3.7 Control of Litter, Vectors, Insects, Noise and Odors

Litter

The primary means of litter control at the facility is to perform waste handling activities inside the building. All hauling vehicles entering the site and all transfer trailers leaving the site are required under current state law to utilize adequate covers or other means of containing the material being hauled. Additionally, loaded transfer vehicles and containers staged outdoors are kept covered. The building and grounds of the facility are inspected daily for wind-blown papers and litter. Any litter that is found will be collected and disposed.

Vectors and Insects

Certain aspects of the facility operation will reduce the attraction of vectors. Materials are unloaded and loaded inside the building. All incidental waste is containerized in order to discourage infestation. The building floor is washed when necessary. Loaded vehicles are required to be covered when entering and leaving the facility. Poison or traps may be used in the event signs of vectors are observed. If necessary, GFL will contract with a local pest-control service to eliminate any vectors that are identified.

Noise

All waste-handling takes place inside the building, which minimizes noise at the site. Drivers entering the facility will be warned of faulty exhaust systems and advised to have them repaired prior to re-entry. Internal combustion equipment used at the facility is equipped with mufflers.

Odors and Dust

Loaded vehicles are required to be covered when entering and leaving the facility, reducing the potential for odors. Also, waste-handling takes place inside the building, which minimizes odors and dust. Waste handling areas are cleaned at the end of each day of operation in order to prevent odors and other nuisance conditions. Odor neutralizers or deodorizers will be used as needed to control any short-term problems. Dusty conditions in traffic areas are not anticipated due to paved roadways, short on-site travel distances and limited speed. Dust generation will be minimized by maintaining roadways. Trucks are not permitted to idle their engines for longer than five minutes. Burning of materials is not permitted.

3.8 Inspections

The General Manager or designee will conduct a random inspection of one load of MSW per operating day. The load will be examined for signs of unauthorized waste. The inspection results will be recorded on an inspection form or log and kept on file at the facility.

The General Manager is also responsible for ensuring that daily equipment inspections are performed.

3.9 Maintenance and Best Management Practices

The roads and grounds of the facility will be maintained in good condition in order to eliminate litter and dust. On-site roads will be kept passable. During the winter months, snow and ice will be removed from roads, parking areas and ramps as needed. Interior traffic areas will be kept free of debris and waste through routine maintenance, so they do not pose a threat to employee safety or impede traffic. The building floor will be cleared at the end of each business day. Material will be consolidated into a trailer or container.

Drainage features shall be routinely inspected and cleaned as necessary to ensure that there is no standing water. Maintenance activities shall be recorded in the facility maintenance log. Building and site maintenance for the facility shall be performed on an as-needed basis.

3.10 Salvaging

Salvaging or other retrieval activities are not permitted unless specifically authorized by facility management.

4. General Facility and Personnel Management

4.1 Facility Startup/Shutdown

At the beginning of each workday, the gate is unlocked. Employees are required to report to the main office at the beginning of each shift to receive work instructions. Appropriate safety clothing/gear will be donned before work begins. Equipment will be checked for necessary maintenance before it is operated.

At shutdown, equipment is properly turned off and stored in a safe manner. Employees are required to sign in and out of the facility using a biometric time clock.

4.2 Personnel Responsibilities

Listed below are the general duties that personnel will perform at the facility:

General Manager

The General Manager is responsible for ensuring that the facility is operated in compliance with all approved permits and applicable federal, state and local rules and regulations. The General Manager is the point of contact with VDEQ. The General Manager has a current certification from the Virginia Board for Waste Management Operations (Class I) in the operation of a waste management facility. The General Manager is responsible for recordkeeping, self-inspections and implementation of safety and contingency plans. The General Manager is responsible for ensuring that adequate staff are present during operating hours in order to ensure safe, efficient, and environmentally-sound operation of the facility. The General Manager supervises facility personnel and works closely with the Lead Operator, who acts on behalf of the General Manager when the General Manager is not present at the site. When occasional vacancies in staff positions occur, the General Manager or designee will temporarily fill the position. The General Manager may designate certain duties to appropriate employees.

Operator/Laborer

Operators are responsible for operating all equipment used for transfer of material at the facility. The operator coordinates tipping of material at the appropriate location and performs inspections of waste as it is unloaded to determine its acceptability. Operators are responsible for completing daily equipment inspections and ensuring that equipment is routinely maintained for safe operation. Operators perform housekeeping duties inside and outside the facility, perform facility maintenance, and help ensure the facility is operated safely. An operator will act on behalf of the General Manager when the General Manager is not present.

Clerical Staff

Duties of clerical staff include:

- Collecting information for reporting to VDEQ,
- Preparing customer use and status reports,
- Collecting and maintaining vehicle status reports,
- Documenting tonnage entering and leaving the facility.

Drivers

Drivers employed by GFL are responsible for the safe operation of vehicles and for the safe tipping of waste at the facility and at the final disposal location. Drivers are also responsible for staging empty and loaded vehicles at the facility, and assisting the General Manager as appropriate.

4.3 Safety and Health

GFL strives to provide a safe working environment for employees and to follow operating practices that promote the safety of all employees and visitors. All employees receive safety orientations and regular training in procedures to safely perform their duties. All employees and visitors are expected to observe all necessary rules, regulations and literature regarding safety and the proper use of safety equipment. Failure to follow such directives will be grounds for disciplinary action or expulsion from the facility. Hazardous or unsafe conditions must immediately be brought to the attention of the General Manager.

Personal Protective Equipment (PPE)

All employees and visitors are required to wear reflective shirts or reflective vests, hard hats or bump caps, and eye protection. In addition, employees are required to wear PPE appropriate for the duties that they perform. A first aid kit and eye wash station are located in the building for easy access. All employees are required to become familiar with the facility's health and safety policy as part of their training.

4.4 Personnel Training Program

When hired, personnel will be given a tour of the facility and familiarized with its operations. Equipment operators will receive the training needed to safely operate equipment used at the site. A formal training and orientation program will be mandatory for new employees. The training program will include the following:

- Facility orientation
- Review of the facility's health and safety policy
- Review of this Operations Manual
- Training for the employee's specific work duties, including use of appropriate PPE

OSHA training will be given monthly on such topics as:

- Fire safety
- Respiratory protection
- Noise exposure
- PPE
- Blood borne pathogens
- Emergency response
- Hazard communications
- Electrical safety
- Lockout/Tagout
- Confined space entry

Employees will be required to affirm that they have reviewed the Operations Manual and understand its contents. A log will be maintained for each training session that documents the topics discussed and any updates to facility procedures. The Operations Manual and the health and safety policy will be available to employees at the office.

5. Waste Control Plan

The Waste Control Plan is to be implemented to ensure that only authorized materials are accepted at the facility. This program consists of monitoring incoming waste, staff training, customer notification, and a planned response in the event that unacceptable waste is unloaded at the facility.

5.1 Acceptable Waste

GFL accepts MSW (commercial, institutional, and household waste), CDD (construction and demolition debris), and single-stream recyclables (SSR). Signage posted at the site entrance and scale lists acceptable and unacceptable materials.

5.2 Unacceptable Waste

The General Manager is responsible for ensuring that unauthorized waste is not accepted at the facility. Employees will be taught about the types of waste that are acceptable and not acceptable at the facility.

Unacceptable wastes include the following:

- Regulated hazardous waste as defined in 9VAC20-60
- Regulated medical waste as defined in 9VAC20-120
- Radioactive materials
- Infectious waste
- Processed waste
- Sealed containers
- Hot ashes
- Sludge waste
- Liquid waste
- Asbestos waste
- Explosives

5.3 Inspection

To detect and prevent the delivery of unauthorized wastes to the facility, facility personnel will inspect each incoming load. A load containing unauthorized waste will be refused by facility personnel if recognized prior to unloading. The employee will notify the facility's certified operator of the rejected load. The hauler of the material will be notified by the General Manager, who will maintain a log of rejected waste loads.

5.4 Handling of Unauthorized Waste

In the event that unauthorized or unacceptable waste is unloaded at the facility, it will be managed in accordance with applicable federal or state laws and regulations. The waste will be collected and disposed by an organization authorized to transport such waste to an approved facility for final disposition. The following protocol will be followed.

1. The employee observing the incident will notify the General Manager immediately. The employee will note the hauler of the suspect material. The material will be marked with caution tape or cones and secured to prevent leakage or contamination of other materials.
2. The General Manager will report the incident to the Department verbally within 24 hours, and in writing within five days. The following information will be provided in the written report:
 - Date waste was received
 - Type and origin of waste
 - Hauler
 - Date of ultimate disposal
 - Location and method of disposal

Records will be retained in the facility operating record for at least three years. The Department will be notified of each incident in the facility's annual report.

3. The General Manager will arrange for disposition of the material according to department-approved procedures. The material will be removed as soon as practicable, but no longer than five days after discovery. Unacceptable non-hazardous materials will be hauled to a permitted solid waste management facility.

Regulated Medical or Hazardous Wastes

If regulated hazardous waste is discovered at the facility, the General Manager will contact Emergency Management Inc. (EMI; 919-201-3033), a broker service that will assess the situation and dispatch appropriate vendors to perform the cleanup. Reports from EMI detailing the cleanup event will be kept on file and reported as detailed in bullet 2. above. Hazardous waste must be removed from the facility within 90 days.

If regulated medical waste is suspected in a load, it will be moved to an isolated area or loaded into a container. The location will be marked with caution tape. Appropriate PPE will be worn by personnel to inspect the material. If the material is confirmed to be regulated medical waste, it will be loaded into a labeled container. The General Manager will contact EMI (see above).

5.5 Training

Facility personnel will be trained to recognize, remove and report any unauthorized wastes. Formal training for this situation is part of the ongoing employee training program. Employees involved in the receipt, transfer and handling of waste and recyclables will be trained in the procedures for controlling the flow of waste and the identification, handling and reporting of unauthorized waste.

5.6 Customer Notification

As part of the Waste Control Plan, GFL will notify its clients of acceptable wastes and waste preparation practices. Haulers will also be notified in the event that unacceptable material arrives at the facility and is traced to them.

6. Records, Recordkeeping and Reporting

6.1 Facility Records

The maintenance of complete and accurate records is essential for efficient and orderly facility operation. GFL will keep the following types of records documenting the operation and management of the facility on the premises.

- Records documenting the quantity and type of material received at the facility
- Records of handling of unauthorized waste
- Self-inspection logs
- Maintenance and equipment checklists, schedules, and performance records
- Emergency reports
- Safety and accident reports
- Records and data used to develop or support the facility's PBR application, including any supplemental information required to comply with state or local regulations pertaining to the operation of the facility

Records pertaining to the operation of the facility will be kept on file at the facility.

7. Contingency Plan

The Contingency Plan describes actions to be taken during an emergency. Topics include local arrangements for emergency response, designation of an emergency response coordinator, emergency equipment, emergency reporting and evacuation plan. Good housekeeping practices will help ensure that contingency measures or corrective actions will not be required. However, this Plan has been developed to respond to non-normal operating conditions or situations that may be encountered during the life of the facility.

GFL will familiarize the fire department with the facility and its operations. The fire department will be provided with the facility layout, evacuation plan and the contact telephone number for the General Manager/EC. The Operations Manual will also be provided to the Fluvanna County Emergency Management Coordinator.

7.1 Reporting an Emergency

Type of Emergency	How to Report
Fire or Explosion	911
Medical	911
Violence	911
Bomb Threat	911
Oil or Chemical Spill/Leak	911
Other Hazardous Incident	911

Emergency phone numbers shall be conspicuously posted at the facility. New employees will be advised of emergency procedures at the time of hire.

In the event of an emergency, the Department shall be notified verbally of the emergency within 24 hours of discovery:

- Paul Hansohn, Solid Waste Inspector (VRO): 540-574-7819

The details of the incident and the remediation or corrective action taken shall be fully described in writing to the Department within five working days of the event (see 9VAC20-81-530.C.3).

Unauthorized Material

Unauthorized material handling procedures are discussed in the Waste Control Plan, Section 5.

7.2 Emergency Coordinator (EC)

The EC is responsible for explanation of and compliance with company policy regarding emergency procedures to employees. The EC's telephone number will be provided to the responding fire, ambulance and police services for use in the event of an off-hours emergency.

- Emergency Coordinator:
Brian Ulickas, General Manager
Cell Phone: 434-989-6884

The Emergency Coordinator will be responsible for coordinating responses to emergency situations at the facility and for providing direction to facility employees. The EC will keep a record of incidents requiring emergency procedures and of injuries requiring first aid or further medical attention.

7.3 Fire or Explosion

Wall-mounted, general-purpose ABC fire extinguishers are placed at several locations in the building for use in fighting small fires. Fire protection features include a dry sprinkler system and a fire hydrant to the northeast of the building, both supplied by a large-volume water tank. In the event of a fire or explosion, the EC will ensure that all facility employees evacuate the facility. The EC will contact the proper agency to respond to the incident, and make a determination to notify haulers of temporary facility closure.

7.4 Chemical Spill/Leak/Oil Spill

In the event of a release of hazardous materials or petroleum products, the EC will ensure that the release is contained using spill control materials, and if required, all facility employees evacuate the facility. The EC will contact the proper agency to respond to the incident, and make a determination to notify haulers of temporary facility closure.

7.5 Emergency Equipment

Wall-mounted, general-purpose ABC fire extinguishers are placed at several locations in the building. Scheduled fire extinguisher maintenance will be performed at regular intervals by a licensed vendor. Spill containment materials are located in a spill kit outside the building along its eastern wall. A loader is available to assist in emergency response efforts. Additional materials and equipment maintained on site for emergency situations include sand buckets, drain covers, empty drums, brooms and shovels. First aid supplies and an eye wash station are available in the transfer building and office in the event of a personal injury.

7.6 Evacuation Plan

Evacuation of the building during an emergency will be through the south side of the building. The opening is clearly visible and accessible from any location in the building.

The EC will be responsible for verbal notification of all employees within the facility that evacuation is necessary. All employees will meet at the east corner of the site. Roll call will then be taken by the EC or designated person.

7.7 Unusual Traffic Conditions

Adverse weather conditions, vehicular accident or limited access may cause unusual traffic conditions. In the event that traffic becomes congested at the facility, GFL employees will direct traffic into the site as conditions permit. In the event that a lengthy delay is expected, haulers will be notified by telephone regarding the cause for temporary facility closure and the anticipated time or date for the resumption of normal operations.

7.8 Adverse Weather Conditions

Adverse weather conditions generally consist of high winds, heavy rains, freezing rain or snowfall. In instances of snowfall or freezing rain that may limit entry to the site, the Manager will make a decision as to whether material will be accepted at the facility or if waste receipt should be cancelled for the day. Corrective action will be taken to help ensure safe access to the site during normal operating hours. In the event that a lengthy delay is expected, haulers will be notified by telephone regarding the cause for temporary facility closure and the anticipated time or date for the resumption of normal operations.

7.9 Equipment Malfunction and Breakdown

In the event that a piece of equipment breaks down or becomes unavailable for another reason (i.e., scheduled maintenance) it will be replaced by another of comparable capability obtained from a local contractor or rental company as discussed in Section 2.3.

GFL equipment mechanics or employees will perform most repair work and routine maintenance. Major repair jobs will be contracted to local heavy-equipment repair vendors.

7.10 Temporary Facility Closure

Adverse weather conditions, vehicular accident or unforeseen circumstances may necessitate the temporary shutdown of the facility. In the event that the facility will be closed for more than one day, haulers will be notified that the facility is temporarily closed and that MSW may be re-routed to an alternate facility such as Republic Services Old Dominion Landfill in Henrico, VA or Waste Management Maplewood (Amelia) Landfill in Jetersville, VA. SSR loads may be taken to the GFL MRF in Chester, VA.

7.11 Landfill Closure

In the event that a disposal facility is closed due to adverse weather conditions, or unforeseen circumstances, outgoing waste will be re-routed to an alternative recycling or disposal facility.

8. Closure Plan

8.1 Project Description

In the event of permanent closure of the facility, the following initial Closure Plan will be implemented. VDEQ-VRO will be notified in writing of any changes to this Closure Plan. Amendments to the Closure Plan may be made by GFL when, and if, changes in the Operations Manual or facility design affect the Closure Plan. The amended Closure Plan will be placed in the operating record and submitted to the department.

Closure Standards

The facility will be closed in a manner that minimizes the need for further maintenance, and controls, minimizes, or eliminates, to the extent necessary to protect human health and the environment, the post-closure escape of uncontrolled leachate, surface runoff, or waste decomposition products to the ground water, surface water, and atmosphere.

8.2 Steps to Closure

GFL will notify the Director of DEQ in writing at least 180 days before the date the facility is expected to begin closure. A sign will be posted prominently at the facility, notifying all persons of the final date that materials will be accepted at the facility. The sign will remain in place until closure activities are completed. After closure, barriers will be placed at the facility access points to prohibit the delivery of materials to the facility.

Within six months after receiving the last load of incoming material, the transfer station will be cleaned by removing and properly disposing of all materials and the interior cleaned to a visual standard, using conventional methods (e.g., brooms and shovels). Transfer trailers, hauling trucks, and any loading equipment will be removed. Wash water will be collected and properly disposed. Litter will be removed and properly disposed.

8.3 Closure Schedule

For the purposes of preparing this schedule, it is assumed that the facility will operate for thirty years, that is, until 2054. Closure will be completed within six months of the date of the last receipt of waste according to the following hypothetical schedule.

May 31, 2054 Notification to Director of DEQ of intent to close.
 Public notice of intent to close.
 Amended Closure Plan placed in operating record.

June 30, 2054 Last material accepted. Facility is closed.
 Begin removal of all materials, solid wastes and decontamination of surfaces and equipment.

October 31, 2054 Complete decontamination and restoration of site.

November 30, 2054 Certification submitted to DEQ from a registered professional engineer that the facility was closed in accordance with the closure plan.

8.4 Closure Cost Estimate

To provide an estimate of the funds required, it is assumed that up to 892 tons of MSW and SSR will be on-site when closure occurs, this includes the permitted daily intake, one filled trailer of MSW, and approximately two trailers worth of SSR. Materials on site during closing will be disposed of at a landfill or an appropriate processing facility. The leachate tank, assumed to be full to its 5,000-gallon capacity, will be emptied and left in place. Leachate will be disposed of at a nearby wastewater treatment facility.

In a worst-case scenario, a third-party contractor may close and decontaminate the facility. It is expected that the facility will be closed in several days with a team of one supervisor and two laborers to manage the materials, sweep and wash the equipment, building floor, push walls, and surrounding concrete and asphalt areas, collect and dispose of wash water, and perform general site cleanup, and two equipment operators and rental of an additional loader to load transfer trailers. Rental of tractors, trailers, and drivers may also be required.

The closed facility will not pose any threat to human health or the environment. Therefore, no post-closure costs are required. P.E. certification of the closure includes time and expenses for travel to observed site conditions following closure activities in addition to the final certification.

The building, when cleaned, will be retained for use as a storage shed or other appropriate use. The closure cost estimate form is included in Appendix D.

9. Notices and Certifications

Copies of the following notices and certifications are provided in Appendix B.

Certification of Siting Standards

A Certification that the facility meets the siting standards of 9 VAC 20-81-320 is dated March 23, 2018. An application for a variance from 9 VAC 20-81-320.C.1. (Appendix C) was submitted to the Department on April 9, 2018.

Certification of Operations Manual

A Certification that the facility has an Operations Manual that meets the standards of 9 VAC 20-81-340.B was last updated on October 16, 2024.

Certification of Design/Construction and Closure Plan

A Certification of Design and Construction was submitted with the permit-by-rule application for the MRF in October 2009. For this PBR modification, a certification signed by a registered professional engineer that the facility has been designed and constructed in accordance with the applicable standards of 9 VAC 20-81-330.B., and that the closure plan for the transfer station meets the applicable standards of 9 VAC 20-81-360 is provided. The Certification of Design and Construction was updated on October 17, 2024 following a permit-by-rule modification to increase the daily intake capacity.

Certification of Consistency with Local Solid Waste Management Plan

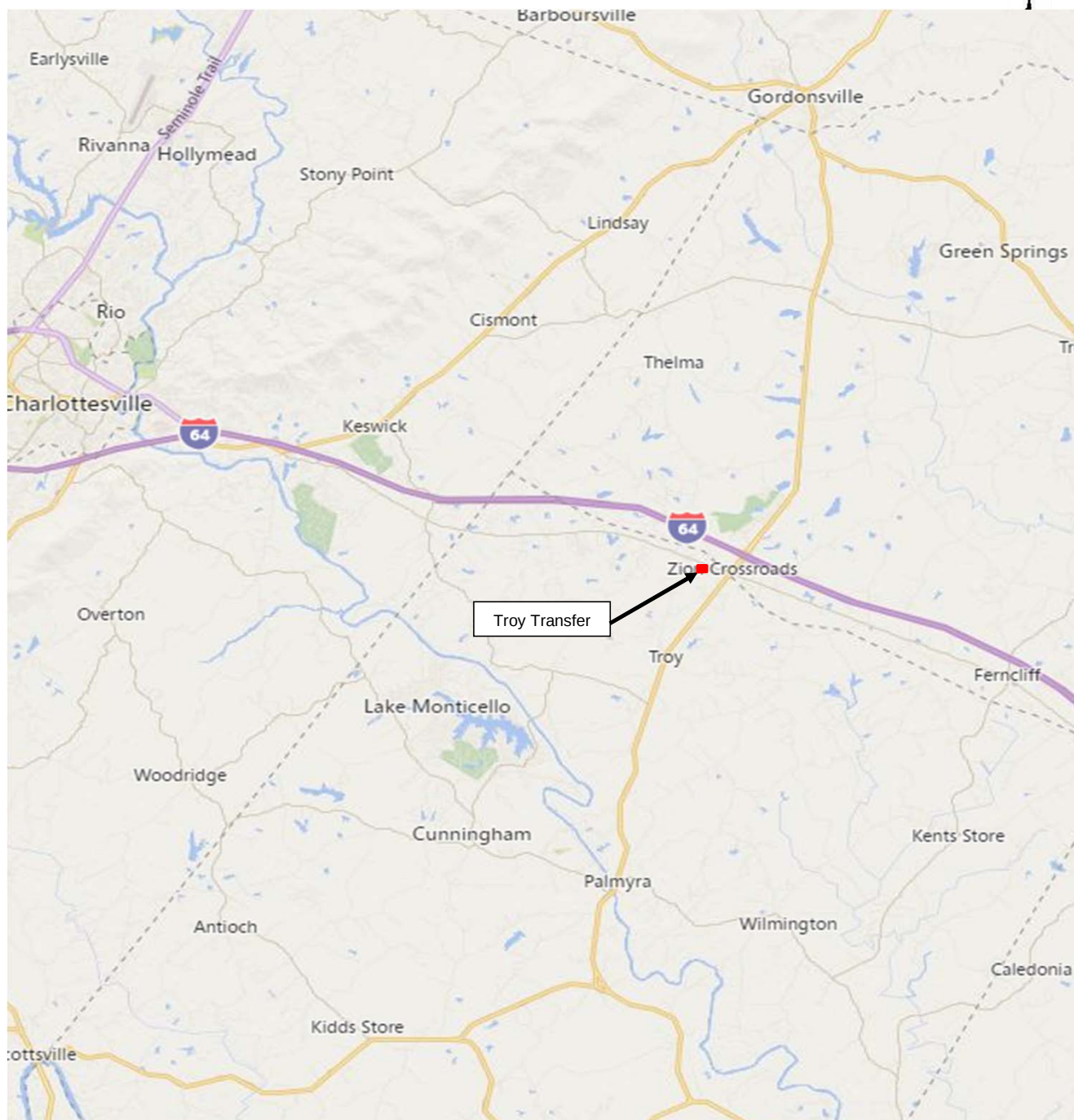
The Local Government Certification Request (DEQ Form SW-11-1) was completed by the local municipality dated TBD.

Figures

EnSol, Inc.



ENGINEERING + ENVIRONMENTAL



Source: <http://www.bing.com/maps>

Not to scale

EnSol, Inc.		GFL of Virginia, LLC PBR #561 Modification Application	FIGURE 1
Environmental Solutions 661 Main Street, Niagara Falls, NY 14301 Ph:716-285-3920 Fax: 716-285-3928			SITE LOCATION MAP
Prepared By: BJD Date: 9/12/24			
		Troy Transfer 5498 Richmond Rd. Troy, Virginia 22974 Fluvanna County	

CLIENT: _____

GFL OF VIRGINIA, LLC



SITE: _____

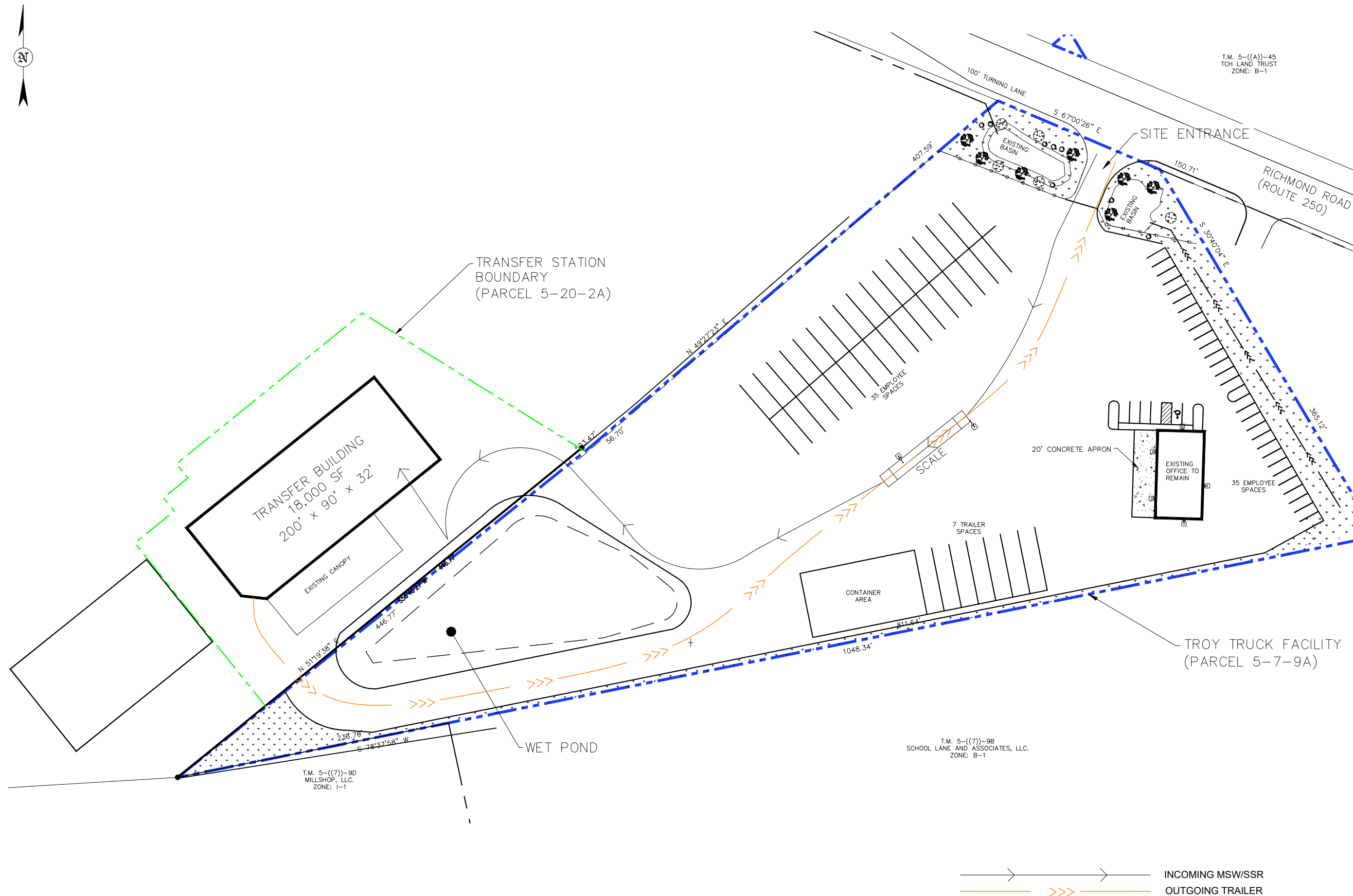
TRIOY TRANSFER
STATION

CITY OF _____ TRIOY
COUNTY OF _____ FLUVANNA
STATE OF _____ VIRGINIA

PROJECT: _____

PBR #561 MODIFICATION
APPLICATION

TITLE:		
SITE PLAN		
ISSUE:		
DES: KLP	DRN: BPB	CHK: JIB
PROJECT NO: 180-A0001	DATE: OCTOBER 2024	
GRAPHIC SCALE:		
		
FILE: 17-0065 Transfer Building Access.dwg		
FIGURE: 2		



Appendices

EnSol, Inc.

ENGINEERING + ENVIRONMENTAL

Appendix A

EnSol, Inc.

ENGINEERING + ENVIRONMENTAL

Public Participation Documentation

PUBLIC PARTICIPATION FOR SOLID WASTE PERMIT-BY-RULE FACILITY

In accordance with Virginia Solid Waste Management regulations 9 VAC 20-81-410.A.3. and 9 VAC 20-81-450.B.4., citizens may comment on a permit-by-rule modification application for Troy Transfer, a solid waste transfer facility (formerly Zion Crossroads Recycling Center) located at 5498 Richmond Road in Troy, Virginia. The facility is operated under Permit-by-Rule #561 issued by the Virginia Department of Environmental Quality.

COMMENT PERIOD: Date Range

NAME AND ADDRESS OF APPLICANT: GFL of Virginia, LLC, 5498 Richmond Rd., Troy, VA 23112. The facility is owned and operated by GFL of Virginia, LLC.

PURPOSE OF NOTICE: The purpose of this notice is to allow the public to comment on a proposed modification to the solid waste transfer station's permit-by-rule (PBR), which will be modified by the Virginia Department of Environmental Quality after public comments are received.

PROJECT DESCRIPTION: The facility is located at 5498 Richmond Rd in Troy, VA approximately one-half mile west of the intersection of State Routes 15 and 250 (Richmond Rd.). Municipal solid waste (MSW) and single-stream recyclables (SSR) are unloaded inside the transfer building and loaded into transfer trailers. Full SSR trailers are sent to an appropriate processing facility. Full MSW trailers are sent to a permitted solid waste management facility.

The Troy Transfer Station proposes to increase the permitted intake capacity from 500 tons per day to 850 tons per day. This action is a modification to PBR permit condition II, Facility Description (Background). The Troy Transfer Station was designed, constructed, and certified to receive 1,000 tons per day of waste. Although no new construction or physical alterations to the facility will be made, according to the Virginia DEQ PBR Modification FAQ document, a requested increase in daily intake capacity is considered a design modification. The requested increase will serve to better handle the waste management needs of the region following the closure of the nearby Republic Services Transfer Station.

TO REVIEW THE PERMIT APPLICATION: A copy of the permit-by-rule modification document is available for review and copying at the Fluvanna County Public Library, 214 Commons Blvd., Palmyra, VA during regular business hours.

PUBLIC MEETING: A public meeting to be held to answer questions and receive feedback from the interested public on **Xday, X, 2024 at 6:00 pm, at the Best Western Plus Crossroads Inn & Suites, 135 Wood Ridge Terrace, Zion Crossroad, VA.**

HOW TO COMMENT: Oral and written comments will be received during the public meeting. Written comments also may be submitted at any time during the 30-day comment period noted above. Written comment should be addressed to Bethany Acquisto, Ph.D., EnSol, Inc., 3000 Alt Blvd., Grand Island, NY 14072. Comments must include the name and address of the person commenting and a brief statement regarding the interest of the person commenting and how the operation of the facility may affect the citizen.

**SUMMARY of PUBLIC PARTICIPATION FOR SOLID WASTE PERMIT-
BY-RULE FACILITY**

**TO BE PROVIDED AT THE CONCLUSION
OF THE PUBLIC COMMENT PERIOD**

Appendix B

EnSol, Inc.

ENGINEERING + ENVIRONMENTAL

Current Notices and Certifications



4 Enterprise Ave.
Clifton Park, N.Y. 12065

March 23, 2018

Graham Simmerman
Land Protection & Revitalization Program Manager
DEQ VRO - Valley Regional Office
4411 Early Road
P.O. Box 3000
Harrisonburg, VA 22801

Re: Certification of Siting Standards
Troy Transfer MSW Transfer Station, formerly Zion Crossroads Recycling Center, LLC Material
Recovery Facility
Permit-by-Rule #561 Modification

Dear Mr. Simmerman:

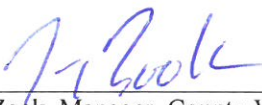
County Waste, LLC (County Waste) is submitting an application to modify Permit-by-Rule #561 to operate a municipal solid waste (MSW) transfer station located in Zion Crossroads (Troy), Virginia. The facility was previously operated as an MSW materials recovery facility (MRF) under PBR #561, issued to Zion Crossroads Recycling Center, LLC in November 2009. A certification of siting standards was submitted with the PBR application for the MRF in October 2009. County Waste has purchased the 1.474-acre portion of the Zion Crossroads Recycling Center property on which the transfer station (former MRF) is located. County Waste will own and operate the transfer station.

Variance from 9 VAC 20-81-320.C.1 Siting Requirements

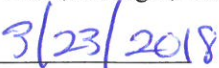
When subdividing the 1.474-acre parcel from the Zion Crossroads Recycling Center property, the west property line was drawn at the adjacent building wall, which is 42.9 feet from the transfer station building. In addition, the building is approximately 40' from the east property boundary (see attached subdivision plat). In both cases, these areas are used to provide access to the building for vehicles, as they were previously when the building operated as a MRF.

Certification by Applicant

In accordance with the Virginia Solid Waste Management Regulations 9 VAC 20-81-410.A.2.b, County Waste hereby certifies that the Troy Transfer facility located at 73 Hunters Branch Road, Troy, Virginia meets the applicable siting standards of 9 VAC 20-81-320, with the exception described above.



Jay Zook, Manager, County Waste, LLC



Date



5498 Richmond Road
Troy, VA 22974

October 15, 2024

Ms. Laura Stuart
Land Protection Program Manager
Virginia Department of Environmental Quality
4411 Early Road
P.O. Box 3000
Harrisonburg, VA 22801
laura.stuart@deq.virginia.gov

Re: Operations Manual Certification
GFL of Virginia, LLC
Permit by Rule #561 Modification
Troy Transfer Facility
Troy, VA

Dear Ms. Stuart,

GFL of Virginia, LLC (GFL) is submitting an application to modify Permit-by-Rule #561 to operate a municipal solid waste (MSW) transfer station located in Troy, Virginia. The Operations Manual has been updated to include the increased operational capacity of the facility.

Certification by Applicant

In accordance with the Virginia Solid Waste Management Regulations 9 VAC 20-81-410.A.2.d, GFL hereby certifies that the Operations Manual for the transfer station addresses the applicable standards of 9 VAC 20-81-340 and that the Operations Manual is maintained in the operating record in accordance with 9VAC20-81-485.B.



Brian Ulickas, General Manager, GFL of Virginia, LLC

10/16/2024
Date



EnSol, Inc.
661 Main St.
Niagara Falls, NY 14301
716.285.3920

ensolinc.com

October 17, 2024

Ms. Laura Stuart
Land Protection Program Manager
Virginia Department of Environmental Quality (VDEQ)
4411 Early Road
P.O. Box 3000
Harrisonburg, VA 22801

Re: P. E. Certification
Troy Transfer MSW Transfer Station, Zion Crossroads (Troy), Virginia
Permit-by-Rule #561 Modification

Dear Ms. Stuart:

On behalf of GFL of Virginia, LLC (f/k/a County Waste, LLC), EnSol, Inc. (EnSol) intends to submit an application, to modify Permit-by-Rule #561 to increase the daily intake capacity from 500 tons per day to 850 tons per day. Although no new construction or physical alterations to the facility were made, according to the Virginia DEQ PBR Modification FAQ document, a requested increase in daily intake capacity is considered a design modification as it pertains to the onsite queuing capacity. Additionally, modifications were made to the closure plan and closure cost estimate as part of the permit modification. Therefore, the following certifications are provided.

Engineer's Certification of Design/Construction Standards

In accordance with the Virginia Solid Waste Management Regulations 9 VAC 20-81-410.2.e.(1), John B. Battaglia, P.E. hereby certifies that the facility, as modified, has been designed and constructed in compliance with the applicable standards of 9 VAC 20-81-330.B to receive a daily intake of up to 1,000 tons of material. This Certification is a professional opinion based upon professional experience, a review of applicable regulations in effect at the time of this Certification, and interpretation of the regulatory requirements.

Engineer's Certification of Closure Plan

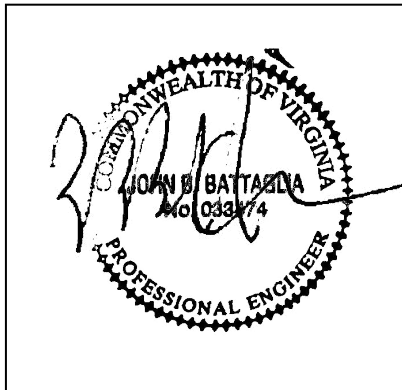
John B. Battaglia, P.E. hereby certifies that the closure plan for the transfer station meets the applicable standards of 9 VAC 20-81-360.2. The closure plan will be maintained in the operating record and updated as necessary. This Certification is a professional opinion based upon professional experience, a review of applicable regulations in effect at the time of this Certification, interpretation of the regulatory requirements, a site visit, review of the Closure Plan and Operations Manual, and an interview with the director of facility operations for GFL of Virginia, LLC.

Sincerely,

EnSol, Inc
John B. Battaglia, P.E.
VA License No. 033474

10/17/24

Date



cc: Brian Ulickas – GFL of Virginia, LLC
Jenny Poland, DEQ CO, Solid Waste Permit Coordinator
Paul Hansohn, VRO Solid Waste Inspector
JengHwa Lyang, Ph.D., P.E., DEQ VRO, Solid Waste Permit Writer
Bethany Acquisto – EnSol, Inc.

Summary of Certifying Conditions:

Regulatory Condition	Certification Status
Design/Construction Standards - 9 VAC 20-81-330.B. Solid Waste Transfer Stations	
1. An all-weather road suitable for loaded collection vehicles shall be provided from the entrance gate to the unloading, receiving, or tipping area.	Previously certified; not applicable to this modification
2. The floors in the unloading, receiving, or tipping areas shall be constructed of easily cleanable materials, provided with a water supply for transfer area cleaning purposes, and equipped with drains or pumps, or equivalent means to facilitate the removal of wastewater to proper storage or disposal.	Previously certified; not applicable to this modification
3. Truck wheel curbs or other safety facilities shall be provided to prevent backing or falling into a pit if one is used for tipping.	Previously certified; not applicable to this modification
4. The transfer unloading, receiving, tipping, and storage structures, buildings, and ramps shall be of a material that can be easily cleaned.	Previously certified; not applicable to this modification
5. Onsite queuing capacity shall be provided for the expected traffic so that the waiting collection vehicles do not back up onto the public road.	Onsite queuing capacity exceeds the expected traffic during peak hour of operation under design conditions
6. Portions of the transfer station used solely for storage of household hazardous waste shall have a containment system designed in accordance with 40 CFR 267.173, as amended. The requirements of this section do not apply to household hazardous waste packaged in U.S. Department of Transportation-approved shipping containers and removed from the site within 10 days from the date of collection.	Previously certified; not applicable to this modification
7. If the transfer station is used to store waste materials, storage units shall be designed to reduce the potential for fires and migration of vectors, and to prevent escape of wastes, wash waters, odors, dust, and litter from the facility.	Previously certified; not applicable to this modification
Closure Plan Standards - 9 VAC 20-81-360.2. Closure Plan and Modification of Plan	
a. The owner or operator of any facility shall have a written closure plan. This plan shall identify the steps necessary to completely close the facility/unit at its full operation under the permit conditions. The closure plan shall include, at least a schedule for final closure including, as a minimum, the anticipated date when wastes will no longer be received, the date when completion of final closure is anticipated, and intervening milestone dates that will allow tracking of the progress of closure.	A written closure plan including all required elements in 2.a. is provided in the Operations Manual.
b. The owner or operator may amend his closure plan at any time during the active life of the facility. The owner or operator shall so amend his plan any time changes in operating plans or facility design affects the closure plan. The amended closure plan shall be placed in the operating record.	The closure plan was slightly amended in the current version of the Operations Manual. The current Operations Manual will be placed in the facility's operating record.

c. The owner or operator shall submit to the department the amended closure plan that was placed in the operating record.	The Department will be provided with a copy of the Closure Plan with the NOI.
d. At least 180 days prior to beginning closure of each unit, the owner or operator shall notify the department of the intent to close.	Not applicable at this time.
e. The owner or operator shall provide to the department a certification from a professional engineer that the facility has been closed in accordance with the closure plan.	This is part of the closure plan and an estimate to provide this certification is included in the closure cost estimate.



Local Government Certification Request
DEQ Form SW-11-1

Part 1: Zoning Certification Request

Applicant Information

APPLICANT: GFL of Virginia, LLC

APPLICANT'S MAILING ADDRESS: 5498 Richmond Road, Troy, VA 22974

FACILITY/BUSINESS NAME: Troy Transfer Station

FACILITY LOCATION (ADDRESS and/or PARCEL ID): 5498 Richmond Road, Troy, VA 22974

TYPE OF SOLID WASTE MANAGEMENT FACILITY: Transfer Station

Certification Request

The applicant is in the process of completing an application for a permit for a solid waste management facility to be issued by the Virginia Department of Environmental Quality. In accordance with §10.1-1408.1 Code of Virginia (1950), as amended, before such a permit application can be considered complete, the applicant has to obtain certification from the governing body of the county, city, or town in which the facility is to be located that the location and the operation of the proposed facility and/or its proposed expansion is in accordance with all applicable local ordinances. *The undersigned requests that an authorized representative of the local governing body sign the certification below.*

SIGNATURE OF THE APPLICANT: 

TYPED OR PRINTED NAME: Brian Ulickas

Date: 10/16/2024

TITLE: General Manager

TELEPHONE: (434) 290-1134

NOTE: The applicant should enclose an appropriate map showing the location of the proposed facility / expansion.

Zoning Certification

The undersigned certifies that the location and operation of the proposed facility/expansion is consistent with all applicable local ordinances adopted pursuant to Chapter 22 (§15.2-2200 et seq.) of Title 15.2. of the Code of Virginia.

Is the facility limited by a Special Use, Conditional Use, or similar permit / authorization from the locality?

☒ NO ☐ YES (please attach to this form)

SIGNATURE OF THE AUTHORIZED

LOCAL GOVERNMENT REPRESENTATIVE: 

TYPED OR PRINTED NAME: Todd Fortune

DATE: 10/28/2024

TITLE: Director of Planning

TELEPHONE: (434) 591-1910

COUNTY, CITY, or TOWN: Fluvanna County, VA



Local Government Certification Request
DEQ Form SW-11-1

Part :Solid Waste Management Plan Certification Request

Applicant Information

APPLICANT: GFL of Virginia, LLC

APPLICANT'S MAILING ADDRESS: 5498 Richmond Road, Troy, VA 22974

FACILITY/BUSINESS NAME: Troy Transfer Station

FACILITY LOCATION (ADDRESS and/or PARCEL ID): 5498 Richmond Road, Troy, VA 22974

TYPE OF SOLID WASTE MANAGEMENT FACILITY: Transfer Station

Certification Request

The applicant is in the process of completing an application for a permit for a solid waste management facility to be issued by the Virginia Department of Environmental Quality. In accordance with §10.1-1408.1 and §10.1-1411, Code of Virginia (1950), as amended, before such a permit application can be considered complete, the applicant has to obtain certification from the governing body of the county, city, or town in which the facility is to be located that the location and the operation of the proposed facility and/or its proposed expansion is: either consistent with the local or regional solid waste management plan (SWMP) or has initiated the process of amending the SWMP to include the new or expanded facility. For a permit by rule (PBR) application in accordance with §10.1-1408.1.Q, the facility must be consistent with the SWMP that has been developed and approved in accordance with §10.1-1411. *The undersigned requests that an authorized representative of the solid waste planning unit sign the certification below.*

SIGNATURE OF THE APPLICANT: 

TYPED OR PRINTED NAME: Brian Ulickas

Date: 10/16/2024

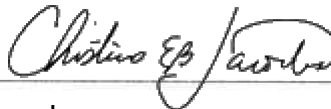
TITLE: General Manager

TELEPHONE: (434) 290-1134

NOTE: The applicant should enclose an appropriate map showing the location of the proposed facility / expansion.

Solid Waste Management Plan Certification

The undersigned certifies that the proposed facility/expansion is consistent with the local or regional solid waste management plan (SWMP) or this plan is being amended for consistency. If the application is for a PBR, the undersigned certifies that the proposed facility is consistent with the SWMP and the SWMP has been approved in accordance with §10.1-1411.

SIGNATURE OF THE AUTHORIZED
LOCAL GOVERNMENT REPRESENTATIVE: 

TYPED OR PRINTED NAME: Christine EB Jacobs

DATE: 11.25.2024

TITLE: Executive Director, TJPDC

TELEPHONE: _____

COUNTY, CITY, or TOWN: Thomas Jefferson Planning District Commission, SWPU

Appendix C

EnSol, Inc.

ENGINEERING + ENVIRONMENTAL

Application for Variance

EnSol, Inc.
Environmental Solutions

Professional Engineering • Business Consulting

661 Main Street
Niagara Falls, NY 14301

Ph (716) 285-3920 • Fx (716) 285-3928
E-Mail jbattaglia@ensolinc.com

Sent via electronic mail and USPS

April 9, 2018

Mr. Graham Simmerman
Land Protection & Revitalization Program Manager
DEQ VRO
4411 Early Road
P.O. Box 3000
Harrisonburg, VA 22801

Re: Variance Application – Siting Requirements
County Waste, LLC
Permit by Rule #561 Modification
Troy Transfer - Former Zion Crossroads Recycling Center
Troy, VA

Dear Mr. Simmerman:

On behalf of County Waste, LLC (County Waste), 12230 Deergrove Road, Midlothian, VA 23112, EnSol, Inc. (EnSol) has prepared this variance request in accordance with 9VAC20-81-760.

APPLICANT'S INTEREST IN THE PROPOSED ACTION: County Waste is applying for a modification of Permit-by-Rule #561 to operate a municipal solid waste (MSW) transfer station located in Zion Crossroads (Troy), Virginia. The facility is currently operated as an MSW materials recovery facility (MRF) under PBR #561, issued to Zion Crossroads Recycling Center, LLC in November 2009. County Waste has purchased the 1.474-acre portion of the Zion Crossroads Recycling Center property on which the MRF is located. This parcel is shown on the attached Subdivision Plat. County Waste will own and operate the transfer station.

DESCRIPTION OF THE ACTION: The transfer station building is less than 50 feet from the property boundary that is required by the current regulation, 9VAC20-81-320.C.1. Siting Requirements. A variance is sought to allow the building to be closer than 50 feet to the property boundary.

NEED AND JUSTIFICATION FOR THE ACTION: The transfer station will use the existing building for its operations. As shown on the attached Subdivision Plat, the building is closer than 50' to the boundary of the subdivided parcel. The building was constructed in 2008-2009 in accordance with the regulations that were in effect at that time. A Certification of Siting Standards (9VAC20-80-360.B.) was included in the 2009 PBR application. The facility has been operated as a MRF since that time. When the parcel was subdivided to separate the transfer station, it was not possible to provide a 50' separation due to the proximity of the Zion Crossroads buildings and the property boundary.

9VAC20-81-720. VARIANCES TO PERMITTING REQUIREMENTS:

Technical conditions exist that make a strict application of the regulation difficult to achieve. It would not be feasible to relocate the facility on the property to meet the 50' distance requirement of the current regulation.

Granting the variance will not result in an unreasonable risk to the public health or the environment. Operation of the facility under County Waste will continue generally unchanged: the amount of waste, number and type of vehicles, and site activities will be consistent with existing operations. The facility is located in an industrial use district, over 1,300 feet from a residential area, and is operated under the authority of VDEQ.

DURATION OF THE VARIANCE: The variance will be needed for the life of the facility, estimated to be approximately 30 years.

POTENTIAL IMPACT OF THE VARIANCE: The variance will result in no potential impact on public health or the environment over the existing MRF, as it will allow the facility to continue to operate in essentially the same manner and conditions as during the past nine years.

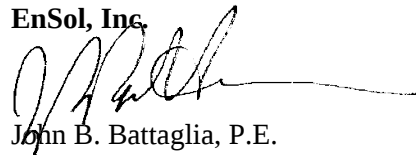
FEES: In accordance with 9VAC20-90-120, the variance base fee of \$390 and a siting variance fee of \$520 (totaling \$910) have been mailed separately to VDEQ Accounts Receivable, P.O. Box 1104, Richmond, Virginia 23218. A copy of the check is included.

CERTIFICATION STATEMENT:

"I certify that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Sincerely,

EnSol, Inc.



John B. Battaglia, P.E.
Project Engineer

Cc: Jerry Cifor – County Waste
Jay Zook – County Waste
Bob Griffin – County Waste

Enclosures

Subdivision Plat
Copy of variance application fee



BOUNDARY LINE TABLE		
Line	Direction	Length
L1	N 56°24'43" E	43.41'
L2	N 33°35'17" W	14.67'
L3	N 56°24'43" E	26.89'
L4	N 33°35'17" W	15.51'

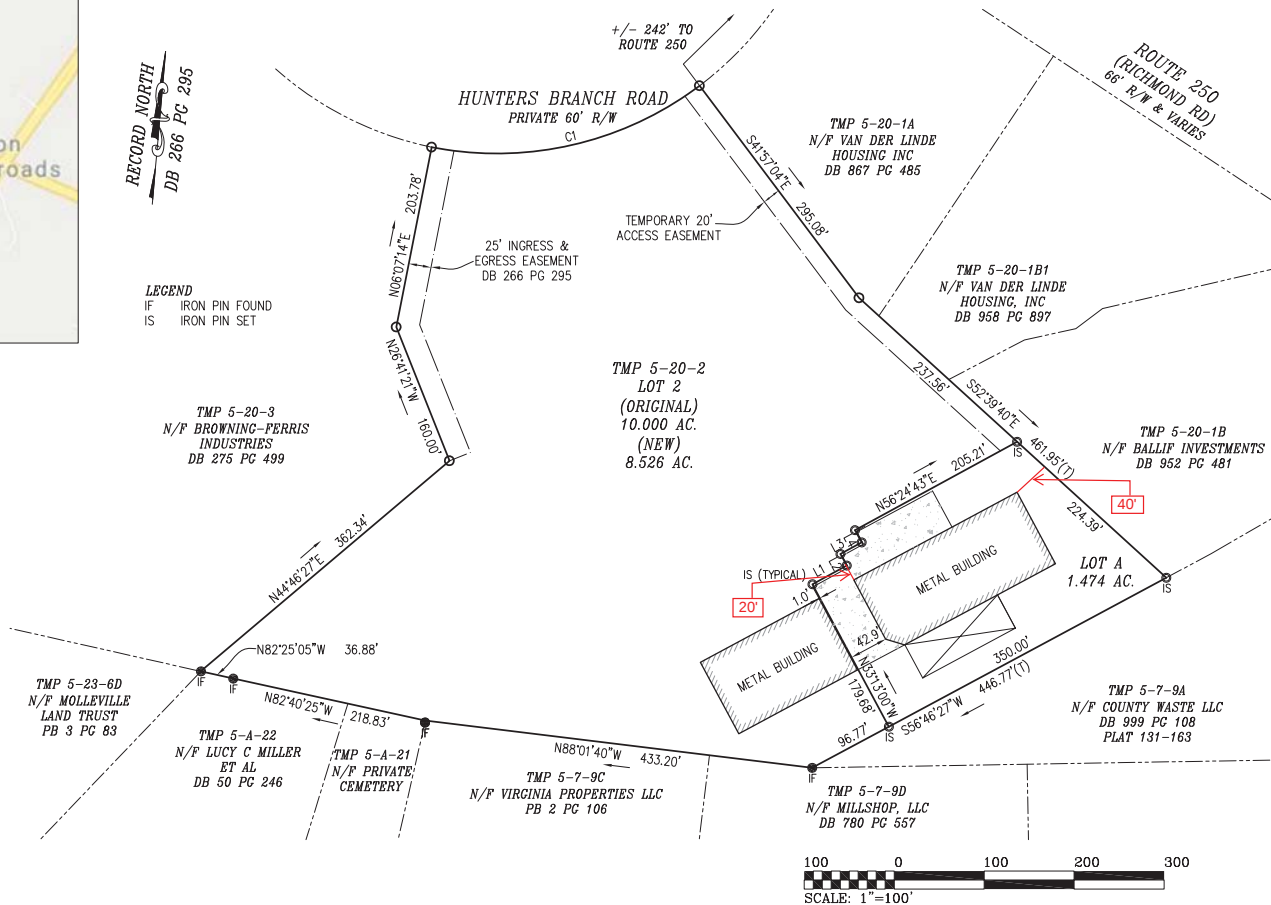
BOUNDARY CURVE TABLE						
Curve	Length	Radius	Delta	Tangent	Chord	Chord Bearing
C1	314.63'	375.00'	48°04'20"	167.24'	305.48'	N 72°05'04" E

AREA CALCULATIONS

EXISTING AREAS:	
TMP 5-20-2	10.000 AC
TOTAL	10.000 AC
REVISED AREAS:	
TMP 5-20-2	8.526 AC
PROPOSED LOT A	1.474 AC
TOTAL	10.000 AC

NOTE:

ALL NEW PROPERTY CORNERS SHALL BE MONUMENTED WITH IRON PINS UNLESS OTHERWISE NOTED.



NOTES:

- THIS PLAT HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT THEREFORE NECESSARILY INDICATE ALL ENCUMBRANCES ON THE PROPERTY SHOWN HEREON.
- THIS PLAT HAS BEEN PREPARED FROM AN ACTUAL FIELD SURVEY DONE AS PER THE DATE OF THIS PLAT USING MONUMENTS FOUND TO EXIST AT THE TIME OF THIS SURVEY.
- THE AREA SHOWN HEREON IS LOCATED IN ZONE "X" AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN AS SHOWN ON FEMA MAP NO 51065C0100C, EFFECTIVE DATE MAY 16, 2008. THIS DETERMINATION HAS BEEN MADE BY GRAPHIC METHODS, NO ELEVATION STUDY HAS BEEN PERFORMED AS A PORTION OF THIS PROJECT.
- OWNER OF RECORD: VB REAL ESTATE LLC
- SOURCE OF TITLE: DB 699 PG 847 & PLAT 266-295
- ZONING: I-1 (INDUSTRIAL, LIMITED); FRONT - NOT LESS THAN 100' FROM R/W, PARKING LOTS NOT LESS THAN 50' FROM R/W; WHEN ADJOIN AGRICULTURAL, RESIDENTIAL, OR BUSINESS DISTRICTS MIN YARD SHALL BE 50', ALL PARKING LOTS SHALL BE NOT LESS THAN 25' FROM RESIDENTIAL OR AGRICULTURAL.
- TMP 5-20-2 IS AFFECTED BY SPECIAL USE PERMITS 06:08, 09:02 AND 09:07 (SEE 13 CONDITIONS BELOW)
 - MEETING ALL VDOT REQUIREMENTS;
 - MEETING ALL REQUIREMENTS OF THE HEALTH DEPARTMENT;
 - THE FACILITY SHALL ONLY RECEIVE MATERIALS DURING THE FOLLOWING OPERATING HOURS:
6 AM TO 7 PM MONDAY THROUGH SATURDAY;
 - THE FACILITY MAY NOT OPERATE UNTIL IT HAS RECEIVED THE REQUIRED PERMIT-BY-RULE FOR A MATERIALS RECOVERY FACILITY FROM THE VIRGINIA DEPT. OF ENVIRONMENTAL QUALITY;
 - THE APPLICANT WILL COMPLY WITH ALL APPLICABLE STATE REGULATIONS REGARDING FINANCIAL ASSURANCE AND WILL SUBMIT DOCUMENTATION OF SUCH COMPLIANCE TO THE COUNTY PRIOR TO BEGINNING OPERATIONS AT THE FACILITY; AND FROM TIME TO TIME THEREAFTER ON DEMAND OF THE ZONING ADMINISTRATOR;
 - ALL PROCESSING OF WASTE SHALL BE DONE WITHIN AN ENCLOSED FACILITY WITH NOISE LEVELS NOT EXCEEDING 70 DECIBELS (DBA) AT THE PROPERTY LINE;
 - THE FACILITY SHALL RECEIVE NO MORE THAN 1,000 TONS OF MATERIAL PER DAY WITH A TOTAL SITE STORAGE CAPACITY OF 1 (ONE) MONTH'S WORTH OF MATERIAL;
 - THIS PERMIT SHALL APPLY ONLY TO THE PROPERTY SHOWN AS PARCEL 5-20-2 ON A PLAT DATED MARCH 8, 2000 A COPY OF WHICH IS ATTACHED HERETO;
 - USE SHALL ALLOW FOR THE RECEIPT, PROCESSING, AND RECYCLING OF MUNICIPAL SOLID WASTE IN ADDITION TO THE RECEIPT, PROCESSING, AND RECYCLING OF CONSTRUCTION AND DEMOLITION DEBRIS;
 - VIOLATION OF ANY OF THESE CONDITIONS SHALL BE GROUNDS FOR REVOCATION OF THE SPECIAL USE PERMIT;
 - A RECYCLING CENTER OPEN TO FLUVANNA CITIZENS SHALL BE SHOWN ON THE FINAL SITE PLAN;
 - RESTRICT ALL VAN DER LINDE OWNED TRUCK TRAFFIC TO USE I-64 UNLESS DIRECT SERVICE OFF OF ROUTE 250 IS REQUIRED; AND
 - THE OPERATOR OF THE FACILITY SHALL PROVIDE LITTER CONTROL ALONG BOTH SIDES OF THE PUBLIC ROADS WITHIN 1/4 MILE OF THE FACILITY NO LESS THAN TWICE PER MONTH ON ALTERNATING WEEKS, AND ON A SPECIFIED SCHEDULE ACCEPTABLE TO THE PLANNING DIRECTOR.

OWNER'S CERTIFICATION

THE PLATTING AND SUBDIVISION OF TAX MAP 5-20 PARCEL 2, RECORDED IN DEED BOOK 699 PAGE 847 AND PLAT 0 DEED BOOK 266 PAGE 295 AND DESIGNATED HUNTERS BRANCH CENTER, LOCATED IN THE PALMYRA MAGISTERIAL DISTRICT, CONTAINING 10.000 TOTAL ACRES, IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNERS, PROPRIETORS AND TRUSTEES, IF ANY; THAT ALL STREETS SHOWN ON THE PLAT ARE HEREBY IRREVOCABLY OFFERED FOR DEDICATION TO PUBLIC USE, IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT OF FLUVANNA COUNTY, VIRGINIA.

VB REAL ESTATE LLC
73 HUNTERS BRANCH ROAD
TROY, VA 22974

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL REQUIREMENTS OF THE BOARD OF SUPERVISORS AND ORDINANCES OF FLUVANNA COUNTY, VIRGINIA, REGARDING THE PLATTING OF SUBDIVISIONS WITHIN THE COUNTY, HAVE BEEN COMPLIED WITH.

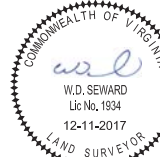
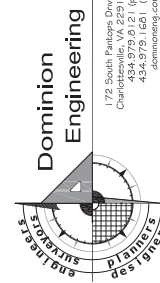
W. D. SEWARD, LS - LIC. NO. 1934 DATE

COMMONWEALTH OF VIRGINIA -
CITY/COUNTY OF:
TO WIT: THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED
BEFORE ME THIS ____ DAY OF ____ 20__

SIGNATURE OF NOTARY PUBLIC
REG. NO.:
MY COMMISSION EXPIRES: _____

THE SUBDIVISION SHOWN HEREON HAS BEEN REVIEWED AND APPROVED BY THE UNDERSIGNED IN ACCORDANCE WITH EXISTING REGULATIONS, AND MAY BE COMMITTED TO RECORD.

SUBDIVISION AGENT DATE



REVISIONS:	NO.	DESCRIPTION	DATE	DRAWN BY:	CHECKED BY:	WDS
				WWW		
				AS SHOWN		
				SCALE		

PROJECT TITLE:	SUBDIVISION PLAT	
	TAX MAP 5-20 PARCEL 2	
SHEET TITLE:	LOT 2 HUNTERS BRANCH CENTER	
	PALMYRA DISTRICT, FLUVANNA COUNTY, VA	

PROJECT NO: 17.0064

SHEET NO:

V1

1 OF 1

DATE: 12-11-2017

County Waste, LLC

Vendor

TREASURER OF VIRGINIA

Vendor ID

TREAS12

Date

04/09/2018

Check Number

029186

Invoice Number	Doc Date	Post Date	Voucher Number	Description	Amount	Discount	Paid Amount
SITING VARIANCE	04/09/2018	04/09/2018	00000000000068701	PBR#561 SITING VARIANCE	\$910.00	\$0.00	\$910.00

TOTALS:	\$910.00	\$0.00	\$910.00
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County Waste, LLC

Vendor

TREASURER OF VIRGINIA

Vendor ID

TREAS12

Date

04/09/2018

Check Number

029186

Invoice Number	Date	Voucher Number	Description	Amount	Discount	Paid Amount
SITING VARIANCE 2	04/09/2018	00000000000068701	PBR#561 SITING VARIANCE	\$910.00	\$0.00	\$910.00

TOTALS:	\$910.00	\$0.00	\$910.00
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DOCUMENT HAS A COLORED BACKGROUND. SECURITY FEATURES LISTED ON BACK.



County Waste, LLC
4 Enterprise Ave
Clifton Park, NY 12065

Comerica Bank
Detroit, Michigan 48275

Apr 9, 2018	029186
DATE	CHECK NO.

9-9-720

Pay Nine Hundred Ten Dollars And 00 Cents

\$910.00

to the Order of:

TREASURER OF VIRGINIA
VDEQ ACCOUNTS RECEIVABLE
PO BOX 1104
RICHMOND, VA 23218

Void after 90 days

Appendix D

EnSol, Inc.

ENGINEERING + ENVIRONMENTAL

Closure Cost Estimate



Solid Waste Management Facility Cost Estimate Form, DEQ Form CE SWMF

I. FACILITY INFORMATION

Facility Name: Troy Transfer Station
Location Address: 5498 Richmond Road
City, State, Zip: Troy, VA 22974

Permit No. PBR561

FA Holder: GFL of Virginia, LLC
Estimate Prepared by: Bethany Acquisto, Ph.D. - EnSol, Inc.

II. OPERATIONAL AND CLOSURE DETAILS

Process Rate: 850 tons/day
Storage Capacity: 332 cubic yards
Process Area: square feet

Closure Plan Title: Closure Plan (OM, Sec 8)
Closure Plan Date: 2024
P.E. Certification Date: 2024

III. Total Closure Cost Estimate

Closure Cost Element	Total Cost	Notes
Total Waste Removal Cost (including stockpiles):	\$47,000	Specify Loading / Hauling and Disposal Rate (\$/ton) or (\$/cy): \$51.52/ton
Total Leachate / Washwater Removal Cost:	\$1,400	Specify Loading / Hauling and Disposal Rate (\$/ton) or (\$/gal): \$.28/gallon
Total Decontamination Cost:	\$14,000	
Total Postclosure Cost (if necessary):	\$	
Total P.E. Certification of Closure:	\$6,100	
Total Other:	\$	Specify:
Total:	\$68,500	

References: Please indicate references used to develop this cost estimate, specify any assumptions made, and provide any supplemental calculations as necessary: See attached calculation sheet.

IV. CERTIFICATION BY PREPARER

This is to certify that the cost estimates pertaining to the engineering features and monitoring requirements of this solid waste management facility have been prepared by me and are representative of the design specified in the facility's Closure Plan. The estimate is based on the cost of hiring a third party and does not incorporate any salvage value that may be realized by the sale of wastes, facility structures, or equipment, land or other facility assets at the time of closure. In my professional judgment, the cost estimates are a true, correct, and complete representation of the financial liabilities for closure and postclosure care of the facility and comply with the requirements of 9 VAC 20-70 and all other DEQ rules and statutes of the Commonwealth of Virginia.

SIGNATURE: Bethany Acquisto DATE: 10/17/24

NAME: Bethany Acquisto, Ph.D.
TITLE: Senior Engineer/Environmental Group Leader
Acknowledgement by Owner / Operator:

SIGNATURE: Brian Ulickas GM DATE: 10/17/2024

NAME: Brian Ulickas
TITLE: General Manager, GFL of Virginia, LLC

TROY TRANSFER STATION
CLOSURE COST CALCULATIONS

Liquid Waste Removal Cost Calculation

Gallons of Liquid waste =	5000	gallons
Liquid Waste Removal Cost =	\$0.28	per gallon (provided by GFL of Virginia, LLC)
1000 gallons x \$0.28/gallon =	\$1,400.00	

Solid waste removal cost calculation

Waste Removal Cost, \$ = [(Process rate, TPD) + (Storage Capacity, tons)] x (Loading/Hauling + Disposal Rate, \$/ton)

Process Rate =	850	tons/day
MSW Storage Capacity =	23	tons (provided by GFL of Virginia, LLC)
SSR Storage Capacity =	36	tons (provided by GFL of Virginia, LLC)
Total Solid Waste Storage =	59	tons
Disposal Cost =	\$51.52	\$/ton (provided by GFL of Virginia, LLC)
(850 tons/day + 42 tons storage) X \$51.52/ton =	\$47,000.00	(rounded to nearest thousand)

Waste Storage Volume Calculation

MSW density* =	0.4	tons/yd ³
SSR Density** =	0.131	tons/yd ³
MSW Storage Capacity =	23	tons
SSR Storage Capacity =	36	tons
MSW Volume =	57.5	yd ³
SSR Volume =	274.81	yd ³
Total Waste Volume =	332.31	yd ³

*Source: DEQ Cost Estimate Form Instructions

**Source: EPA Volume-to-Weight Conversion Factors, 2016