

# FARMINGTON TRANSFER STATION

## TRANSFER STATION PERMIT RENEWAL APPLICATION

*Prepared:*  
**October 2015**

*Prepared For:*



**BFI Waste Services, LLC  
Farmington Transfer Station  
21682 South DuPont Highway  
Greenwood, Delaware 19950**

## FARMINGTON TRANSFER STATION

### TRANSFER STATION PERMIT RENEWAL APPLICATION

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Farmington Transfer Station  
21682 South DuPont Highway  
Greenwood, DE 19950

October 27, 2015

Mr. David Perrego  
DNREC  
Solid and Hazardous Waste Management  
89 Kings Highway  
Dover, DE 19901

**RE: Letter of Intent  
Solid West Management Facility Application  
Transfer Station Permit Renewal  
Farmington Transfer Station (BFI Waste Services, LLC)  
Permit No.: SW-06/03  
21682 South DuPont Highway  
Greenwood, Delaware 19950**

Dear Mr. Perrego:

This letter serves to formally request renewal of the solid waste permit (Permit #SW-06/03) for our Farmington Transfer Station located in Greenwood, Kent County, Delaware. The current permit was originally issued on May 2, 2006 and was modified on April 18, 2011 and again on July 2, 2012. The permit will expire on May 2, 2016.

Construction of the Farmington Transfer Station was completed in the spring of 2012 and it was approved to accept waste by DNREC via the permit modification dated July 2, 2012. There are no proposed changes to the facility or its operation and the purpose of this application is simply to renew the existing permit.

Enclosed are three (3) hard copies and one (1) electronic copy (on a compact disk) of the completed application package that includes the necessary supporting documentation and drawings.

If any questions, please contact me at [kschmit@republicservices.com](mailto:kschmit@republicservices.com) or (610) 223-0922.

Thank you,

A handwritten signature in blue ink, appearing to read "Karl Schmit".

Karl Schmit, PE  
Area Environmental Manger

cc: Al Hemma



## CHECKLIST FOR PERSONS APPLYING FOR A PERMIT (OR RENEWAL) TO CONSTRUCT AND/OR OPERATE A TRANSFER STATION

The attached application will not be processed unless all of the following information is provided by the applicant. The following checklist is based upon the specific requirements contained in the *Delaware Regulations Governing Solid Waste (DRGSW)*. Please complete this checklist by placing a check mark in the “Submitted” box for each included document. The applicant will be invoiced the application and public notice fees. The applicant should submit the fees via a check made out to the State of Delaware. The checklist, along with the completed application and the following additional documents, constitutes an application package. A permit will not be issued until all fees and required documentation has been received **The applicant must submit 3 copies of the completed application package as well as an electronic version suitable for distribution and posting on the DNREC website. Submit to:**

Department of Natural Resources and Environmental Control  
Solid & Hazardous Waste Management Branch  
89 Kings Highway  
Dover, DE 19901

Submitted	Description	Reference
✓	Letter of Intent.	DRGSW, Section 4.E.1
✓	Solid Waste Management Facility Application.	DRGSW, Section 4.E.1.a
	Once the application has been deemed complete, the Department will invoice the applicant for remittance of the public notice fee.	7 <u>Del. C.</u> , Section 6004
✓	Proof of ownership of the property, or copy of the lease agreement.	DRGSW, Section 4.E.1.b
✓	Plan of Operation.	DRGSW, Section 4.E.1.c
✓	Engineering Report.	DRGSW, Section 4.E.1.d
✗	Hydrogeological assessment if deemed necessary by the Department.	DRGSW, Section 4.E.1.e
✓	An environmental assessment.	DRGSW, Section 4.E.1.f
✓	Topographical and site location maps.	DRGSW, Section 4.E.1.g
✗	Proof that a coastal zone permit (if applicable) has been obtained.	DRGSW, Section 4.E.1.h
✓	Proof that all applicable zoning approvals have been obtained.	DRGSW, Section 4.E.1.h
✓	Proof that all other appropriate federal, state and local environmental permits have been obtained.	DRGSW, Section 4.E.1.h
✓	Conceptual Closure Plan.	DRGSW, Section 4.E.1.i
✓	Proof of financial responsibility for closure.	DRGSW, Section 4.E.1.j
✓	Proof that the facility meets siting criteria.	DRGSW, Section 4.E.1.k
✗	Other reports, data, maps, or information required by the Department.	DRGSW, Section 4.E.1.l

**FARMINGTON TRANSFER STATION  
GREENWOOD, KENT COUNTY, DELAWARE  
PERMIT NUMBER (SW-06/03)**

**APPLICATION FOR PERMIT RENEWAL**

**SUMMARY OF APPLICATION CHECKLIST INFORMATION**

**CHECKLIST:**

The Delaware Department of Natural Resources and Environmental Control (DNREC) Checklist for Persons Applying for a Permit (or Renewal) to Construct and/or Operate a Transfer Station is attached to the front of this text summary. This text summary follows the DNREC checklist in order and presents a summary of each item on the checklist that has been included in the application for permit renewal.

**1.0 Letter of Intent and Checklist for Transfer Station permit Renewal**

The required letter of intent to renew the solid waste permit for the Farmington Transfer Station (Dated October 30, 2015) is the cover letter used to submit this package. It presents the formal request to renew the existing permit. The permit renewal application requests no changes or modifications to the existing permit.

**2.0 Solid Waste Management Facility Application.**

A required Solid Waste Management Facility Application form has been completed with the required information and has been signed by the duly authorized representative of the applicant. The completed form is included as Attachment 1. Note that, per concurrence with DNREC, no Application Background Statement is required for this permit renewal

**3.0 Public Notice Fee**

Upon receipt of invoice from DNREC for the public notification fee, Republic will reimburse DNREC in accordance with the permit requirements. No payment is included herewith.

**4.0 Proof of Ownership of the Property, or Copy of the Lease Agreement.**

A copy of the current deed for the property is included in Attachment 2. This deed serves to document current ownership of the property by BFI Waste Services, LLC.

The property on which the Farmington Transfer Station is located is owed by BFI Waste Services, LLC, which is a wholly owned subsidiary of Republic Services. The property is a 20.0038 acre single tract of land. The property information obtained from the Kent County Recorder of Deeds is as follows:

Property Owner	BFI Waste Services, LLC
Tax Map Parcel No.	MN-00-193.00-01-48.01-000
Location ID	83565
Tax ID	82768
Deed Book Info.	Vol. 5798 Page 329

## **5.0 Plan of Operation**

A complete copy of the current Plan of Operation is included in Attachment 3. The Plan of Operation for the Farmington Transfer Station is a comprehensive written document that outlines the standard operating procedures for the facility. This document includes: general operating procedures, fire and safety requirements, training, systems and equipment, operation procedures and a contingency plan.

## **6.0 Engineering Report**

The Engineering Report, Final Report and Engineering Certification, dated June 19, 2012 is included as Attachment 4. This report served to certify the final construction of the Farmington Transfer Station and was submitted to DNREC in 2012. This report meets the requirements in *Delaware Regulations Governing Solid Waste* (DRGSW) 7 De Admin. Code 1301 Section 4.5.2.2.

## **7.0 Hydrogeological Assessment if Deemed Necessary by the Department**

*Not Applicable:* A hydrogeologic assessment is not required as part of the permitting process for a solid waste transfer station. Therefore, no assessment was conducted.

## **8.0 An Environmental Assessment**

A copy of the Environmental Assessment (EA) Report conducted on the subject property in 2005 is included in Attachment 5. Earth Tech, Inc., conducted this Environmental Assessment (EA) on the subject property for Eastern Shore Environmental Inc., who was the previous owner and who initially proposed developing the transfer station.

The scope of the EA remains substantially accurate, except that the ownership of the property changed in 2011, and it is now owned by BFI Waste Services, LLC. Additionally, the property was fully developed in 2012 and is now a solid waste transfer facility operating in compliance with the Delaware solid waste regulations. BFI Waste Services, LLC (which is a wholly owned subsidiary of Republic Services) is the legal business entity that formally built the transfer station in 2012 and who currently owns and operates it.

Based on the above, the EA as originally prepared in 2005 remains applicable to the facility. The only change necessary is to identify that BFI is now the owner of the property and operator of the transfer station. The copy of the EA in Attachment 6 has been supplemented with a cover sheet that appropriately identifies the change of ownership.

## **9.0 Topographical and Site Location Maps**

A site map with current topography and an as-built layout of the facility, along with a site location aerial photograph map are included within Attachment 6.

## **10.0 Proof that a Coastal Zone Permit (if applicable) has been obtained**

*Not Applicable:* The Coastal Zone permit is not applicable and is not required as part of the permitting process for this transfer station in particular.

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**11.0 Proof That all Applicable Zoning Approvals Have Been Obtained**

Building Permit information along with the Planning Approval from Kent County is submitted within Attachment 7.

**12.0 Proof That All Other Appropriate Federal, State and Local Environmental Permits Have Been Obtained**

Only one additional Federal, State, or Local Environmental permit has been issued to the Farmington Transfer Station. This permit for No Exposure Certification for the discharge of Stormwater under the NPDES program was issued by the DNREC Division of Water. A copy of the No Exposure Approval issued by DNREC is included in Attachment 8.

1. NPDES Conditional No Exposure. Issued 8/10/2012 - Expires 8/9/2017

**13.0 Conceptual Closure Plan**

The Engineers Estimate for Closure Costs prepared in June 2012 by Golder Associates is included in Attachment 9. This estimate presents the conceptual scope of work that would be required to permanently close the Farmington Transfer Station. This document has also been used to estimate the costs for the required closure work.

A conceptual plan for closure of the facility would include:

- Removal of the process and waste handling equipment from the site
- Removal and proper disposal of any remaining waste from the site
- Decontamination of the interior of the transfer building, scale and leachate holding tank
- Proper disposal of decontamination fluids
- Removal of accumulated sediments (as necessary) from stormwater basins
- Monitoring of stormwater for one year (as necessary), and
- Development of a properly certified report documenting all aspects of closure work.

**14.0 Proof of Financial Responsibility for Closure**

A copy of the approved bond issued June 15, 2012 is included in Attachment 10. This bond in the amount of \$222,510.00 is based on the closure plan cost estimates presented in the Engineers Estimate for Closure Costs prepared in June 2012.

**15.0 Proof That the Facility Meets Siting Criteria**

The current permit (Permit Number SW-06/03) is included in Attachment 11. Issuance of this permit by DNREC demonstrates that the facility meets the required siting criteria for a solid waste transfer station.

**16.0 Other Reports, Data, Maps, or Information Required by the Department.**

Per communication with DNREC personnel, no other information other than what has been included is considered necessary.

**ATTACHMENT 1**

**SOLID WASTE FACILITY APPLICATION**



Delaware Department of Natural Resources and Environmental Control  
Solid & Hazardous Waste Management Section

**Solid Waste Management Facility Application**

Please type or print all information

1. Facility Permit Information: (if applicable)

- A. Permit Number: SW-06/03
- B. Date of Expiration: May 2, 2016
- C. Are you requesting any changes to the conditions required by the current solid waste facility permit?  
 Yes  No (If "Yes", please attach the request and supporting documents.)

2. Facility Information:

Facility Name: Farmington Transfer Station

Street: 21682 South DuPont Highway

City: Greenwood County: Kent State: Delaware

Zip: 19950 Phone(s): 302-398-4292 Fax: \_\_\_\_\_

Total Site Area (Acres): 20.0038 Latitude: 38 51' 34.27" Longitude: 75 34' 40.99"

3. Owner Information:

Owner's Name: BFI Waste Services, LLC (Republic Services)

Contact Person: Karl Schmit Title: Area Env. Manager

Street Address: 4400 Mt. Pisgah Road

City: York State: PA Zip: 17406

Phone: 717-246-4624 Fax: \_\_\_\_\_ Email: kschmit@republicservices.com

4. Operator Information:

Operator's Name: BFI Waste Services, LLC (Farmington Transfer Station)

Contact Person: Don Lucas Title: Division Manager

Street Address: 907 Willow Grove Road

City: Felton State: DE Zip: 19943

Phone: 302-284-3459 Fax: \_\_\_\_\_ Email: dluca@republicservices.com

5. Type of Facility:

- |  |  |
|--|--|
| <input type="checkbox"/> Sanitary Landfill           | <input type="checkbox"/> Industrial Landfill         |
| <input checked="" type="checkbox"/> Transfer Station | <input type="checkbox"/> Materials Recovery Facility |
| <input type="checkbox"/> Thermal Recovery            | <input type="checkbox"/> Other _____                 |

6. Types of Solid Waste to be Accepted (check all that apply):

- Municipal     Industrial     Infectious     Other (specify) \_\_\_\_\_

7. Service Area (political jurisdictions and unincorporated area to be served by the facility):

**Kent & Sussex Counties, DE (C/D Waste, Recyclables);**

Kent, Talbot, Caroline, Queen Anne, Dorchester, & Wicomico Counties, MD (MSW, C/D Waste, Recyclables)

8. Estimated Quantities of Waste Expected to be Handled at the Facility:

- A. Average daily tonnage expected during peak season (may be a range): Not Applicable
- B. Maximum daily tonnage expected: 660 tons
- C. Average weekly tonnage expected during peak season (may be a range): Not Applicable
- D. Maximum weekly tonnage expected: Not Applicable tons

Note: Maximum daily and weekly tonnages must consider operating hours and days specified in Section 11 of this form. Analysis required by the Environmental Assessment must consider maximum expected tonnages whenever estimates of waste handling activity are needed. The Engineering Report required by the DRGSW must indicate the maximum tonnage which the facility is designed to process (per hour/per day).

9. Disposal Capacity of Proposed Landfill Cells (if applicable):

- A. Cell Designation: NOT APPLICABLE
- B. Cell Acreage: \_\_\_\_\_
- C. Cell Capacity (years): \_\_\_\_\_
- D. Cell Capacity (cubic yards): \_\_\_\_\_

10. Disposal Capacity Remaining in Existing Landfill (if applicable):

**NOT APPLICABLE**

11. Operating Hours:

A. Daily Operating Hours (include all time periods when waste may be handled): M-F 06:00 to 18:00 and Saturday 06:00 to 14:00 Closed Sundays

B. Daily Business Hours (i.e. hours open to the public): Not Applicable (Commercial Only)

C. Days of Operation: 5 days (Monday through Saturday)

D. Operating Days Per Year: 307

12. Applicant Background Information:

If an Environmental Permit Application Background Statement is required by 7 Del. C., Chapter 79, please complete the Environmental Permit Application Background Statement.

Has an Environmental Permit Application Background Statement been completed and attached?

Yes  No

Is any information in the Environmental Permit Application Background Statement considered by the applicant to be confidential?  Yes  No

**INSTRUCTION:** The applicant may claim that some of the information presented in the Environmental Permit Applicant Background Statement is confidential. An applicant wishing to make such a claim should write, preferably in red ink, "claimed confidential information" at each point in the response where such confidentiality is claimed, and provide an explanation of why the release of such information would constitute an invasion of personal privacy or would seriously affect the applicant's business or competitive situation. The confidentiality determination will be subject to the **FOIA Regulation**, Section 6.

**I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in the application and all attachments and that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.**

10/27/15 Date  Signature of Applicant or Corporate Agent  
Name: Karl Schmit Phone: 717-246-4624  
Title: Area Env. Manager Email: kschmit@republicservices.com  
Company: Republic Services  
Address: 4400 Mt. Pisgah Road  
York, PA 17406

**ATTACHMENT 2**

**PROOF OF OWNERSHIP OF PROPERTY**

**(Property Deed and Kent County Property Information)**



Kent County  
Betty Lou McKenna  
Recorder of Deeds  
Dover, DE 19901

Instrument Number: 2011-188826

Recorded On: May 04, 2011 As-Deed

Parties: A-1 WASTE FARMINGTON PROPERTIES LLC

To BFI WASTE SERVICES LLC

# of Pages: 6

Comment:

**\*\*DO NOT REMOVE-THIS PAGE IS PART OF THE RECORDED DOCUMENT\*\***

Deed		86.00
	# of Pages	5
	# of Parcel IDs	1
Total:		86.00

**Realty Tax Information**

Affidavit Attached-No		
<b>STATE AND COUNTY OF KENT</b>		
	Value	800,000.00
State of Delaware		12,000.00
County of Kent		12,000.00
		24,000.00

*I hereby certify that the within and foregoing was recorded in the Recorder's Office in Kent County,*

**\*\*DO NOT REMOVE-THIS PAGE IS PART OF THE RECORDED DOCUMENT\*\***

**File Information:**

**Record and Return To:**

Document Number: 2011-188826  
Receipt Number: 289570  
Recorded Date/Time: May 04, 2011 09:07:51A  
Book-Vol/Pg: BK-RE VL-5798 PG-329  
User / Station: C Yerkes - Cashier 4

SAUL EWING LLP  
PO BOX 1266  
WILMINGTON DE 19899



*Betty Lou McKenna*

Accepted for Filing in:  
Kent County  
Doc# 188826  
On: May 04, 2011 at 09:07A

86 -

**Tax Parcel No. MN-00-193.00-01-48.01-000**

**PREPARED BY AND AFTER RECORDING RETURN TO:**

Williams Mullen  
200 South 10<sup>th</sup> Street, 16<sup>th</sup> Floor  
Richmond, Virginia 23219  
Attn: David A. Reed, Esq.

**SPECIAL WARRANTY DEED**

April 29, 2011

That **A-1 WASTE FARMINGTON PROPERTIES, L.L.C.**, a Delaware limited liability company ("Grantor"), for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) and other valuable consideration, the receipt of which is hereby acknowledged, has GRANTED, BARGAINED, SOLD, and CONVEYED, and by these presents does GRANT, BARGAIN, SELL and CONVEY unto **BFI WASTE SERVICES, LLC**, a Delaware limited liability company ("Grantee"), with an address of c/o Republic Services, Inc., 18500 N. Allied Way, Phoenix, AZ 85054, Attention General Counsel, all of that certain lot, tract or parcel of land located in Kent County, State of Delaware, and being more fully described on Exhibit "A" attached hereto and incorporated herein by reference.

TOGETHER WITH all improvements thereon, all oil, gas and mineral rights located at, on, upon under or associated therewith, riparian and other water rights, privileges and easements appurtenant to the certain lot, tract or parcel of land described in Exhibit "A" (collectively, the "Property").

For the same consideration recited above, Grantor hereby GRANTS AND CONVEYS all interest, if any, of Grantor in (i) strips or gores lying adjacent to the Property and abutting or immediately adjacent properties, and (ii) any land underlying and adjacent streets or roads.

This conveyance is made subject only to the encumbrances and exceptions described in Exhibit "B" attached hereto and incorporated herein by reference, but only to the extent they affect or relate to the property.

TO HAVE AND TO HOLD the Property, unto Grantee and Grantee's successors and assigns forever; and Grantor does hereby bind itself and its successors and assigns to WARRANT AND FOREVER DEFEND all and singular the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.



**EXHIBIT "A"****The Property**

**ALL** that certain tract, piece or parcel of land situated in Mispillion Hundred, Kent County and State of Delaware, lying on the Westerly side of DuPont Highway, being Lot 1 on a plan entitled "Minor Subdivision Plan-Lands of Masten Realty, Inc." as recorded in the Office of the Recorder of Deeds, in and for Kent County, State of Delaware, in Plot Book 81 at Page 89, and bounded as follows: on the North by land now or formerly of W. Ralph Brumbley (Deed Book 517-064), on the Northeast by land now or formerly of Jim Lee, Inc. (Deed Book 465-017), and by land now or formerly of Hooper Rust and Laurina Rust (A-15-314); on the East by land now or formerly of Francis P. Rust (Deed Record M-23-143); and by land now or formerly of Larry Rust, Christopher Rust, Francis Rust and Darlene Bradley (Deed Record D-24-410); on the Southeast by DuPont Highway (also known as U.S. Route 13) – 170 feet wide; on the South by Lot 2; on the West by land now or formerly of Delaware Railroad; being more particularly described according to a plan prepared by Braun Engineering & Surveying dated December 20, 2005, reference drawing 04129MINOR, said plan being an integral part hereof as follows:

**BEGINNING** at a point in the Westerly line of DuPont Highway at the Southeast corner for this subject land and the Northeasterly corner of Lot 2, said point being located when measured from the intersection of the Northerly line of Nine Foot Road (also known as County Road 62 – 60 feet wide) with the Westerly line of DuPont Highway the following two (2) courses and distances: A. By the arc of a circle curving to the right with a radius of 3,644.01 feet a distance of 373.59 feet to a point of tangency; B. North 19 degrees 47 minutes 42 seconds East a distance of 710.73 feet to the beginning point. Thence from said beginning point and continuing with said Lot 2 the following two (2) courses and distances: (1) North 64 degrees 22 minutes 31 seconds West a distance of 309.94 feet to a point; (2) North 37 degrees 23 minutes 44 seconds West a distance of 826.65 feet to a point at a corner for said Lot 2 in line of lands of the aforesaid Delaware Railroad. Thence with said land of Delaware Railroad (3) North 17 degrees 48 minutes 08 seconds East a distance of 302.54 feet to a point in line of said land of Delaware Railroad at a corner for land of the aforementioned Brumbley. Thence with said land of Brumbley (4) North 69 degrees 15 minutes 00 seconds East a distance of 1058.00 feet to a point at a corner for said land of Brumbley at a corner for land of the aforementioned Jim Lee, Inc. Thence with said land of Jim Lee, Inc. (5) South 73 degrees 04 minutes 00 seconds East a distance of 189.12 feet to a point in line of said land of Jim Lee, Inc. at a corner for land of the aforementioned Rust (Deed Record A-15-314). Thence with said land of Rust (Deed Record A-15-314), land of the aforementioned Rust (Deed Record M-23-143) and Rust (Deed Record D-24-410), the following two (2) courses and distances: (6) South 33 degrees 16 minutes 34 seconds West a distance of 1067.10 feet to a point; (7) South 65 degrees 10 minutes 12 seconds East a distance of 270.60 feet to a point at a corner for said land of Rust (Deed Record D-24-410) in the Westerly line of DuPont Highway. Thence with said line of DuPont Highway (8) South 19 degrees 47 minutes 42 seconds West a distance of 417.50 feet to the point and place of beginning. Containing within the above described courses and distances 20.0038+/- acres, subject to any rights-of-way, easements or restrictions as may be shown in any public records, or any regulations or requirements of any public agency.

**TOGETHER** with all rights of ingress, egress and regress, arising from the mutual, non-exclusive access easement described in that certain Deed dated December 29, 2005 and recorded at the Office of the Recorder of Deeds, in and for Kent County, Delaware, in Deed Book 2633, Page 279, across that certain portion of the adjoining property included in the following description:

**BEING** more particularly described according to a plan prepared by Braun Engineering & Surveying dated December 20, 2005 reference drawing 04129MINOR, said plan being an integral part hereof as follows:

**BEGINNING** at a point in the Westerly line of DuPont Highway at the Southeasterly corner for this subject land, said land being located when measured from the intersection of the Northerly line of Nine Foot Road (also known as County Road 62-60 feet wide) with the Westerly line of DuPont Highway the following two (2) courses and distances: A. by the arc of a circle curving to the right with a radius of 3644.01 feet a distance of 373.59 feet to a point of tangency; B. North 19 degrees 47 minute 42 seconds East a distance of 680.58 feet to the beginning point. Thence from said beginning point across Lots 1 and 2 as shown on the referenced Minor Subdivision Plan, the following four (4) courses and distances: (1) North 64 degrees 22 minutes 31 seconds West a distance of 100.52 feet to a point; (2) North 19 degrees 47 minutes 42 seconds East a distance of 60.31 feet to a point; (3) South 64 degrees 22 minutes 31 seconds East a distance of 100.52 feet to a point; (4) South 19 degrees 47 minutes 42 seconds West a distance of 60.31 feet to the point and place of beginning.

**EXHIBIT "B"**

Main Parcel

1. Access easement noted in Deed dated December 29, 2005, of record in the Office of the Recorder of Deeds, in and for Kent County, Delaware in Deed Book 2633, Page 279.
2. Grant of Perpetual Easements and Declaration of Restrictions of record in the Office aforesaid in Deed Book 569, Page 15.
3. Right of Way of record in the Office aforesaid in Deed Record F, Volume 21, Page 549.
4. Right of Way of record in the Office aforesaid in Deed Record Z, Volume 21, Page 217.
5. Right of Way of record in the Office aforesaid in Deed Record F, Volume 11, Page 115.
6. Tax Ditch Order: Kent Soil Conservation District vs. Nanticoke River, Tax Ditch of record in the Office aforesaid in Deed Book 3546, Page 141 and Deed Book 4866, Page 89.
7. Tax Ditch Order: Kent Soil Conservation District vs. Whitemarsh, Tax Ditch of record in the Office aforesaid in Deed Book 3528, Page 202 and Deed Book 4869, Page 245.
8. Rights of way, easements and assessments created by the Nanticoke River Tax Ditch and Whitemarsh Tax Ditch.
9. Notes, easements and restrictions noted on the Subdivision Plat of record in the Office aforesaid in Plat Book 81, Page 89.



# KENT COUNTY, DELAWARE

555 Bay Road, Dover, Delaware 19901-3615  
 (302) 744-2300 -- FAX (302) 736-2279

*"Serving Kent County With Pride"*

## PROPERTY INFORMATION

Planning and Building Permits Information

<b>Reference #</b>	MN MISPILLION HUNDRED	<b>Card # 1 of 2</b>
<b>Location ID</b> 83656	<b>Map Number</b> 6-00-19300-01-4801-00001	
<b>Tax ID</b> 88668	<b>Deed BVP</b> D 5798 0329	
<b>Parcel ID</b> 82768	<b>Property Code</b> P - PROPERTY	
<b>Current Owner</b>	<b>Property Location</b>	
BFI WASTE SERVICES, LLC,	DUPONT HWY	
P.O. BOX 29246	GREENWOOD , DE 19950	
PHOENIX, AZ 85038	<b>Zoning IG</b>	<b>Acres</b>
<b>Additional Owner</b>		

**Sub-Division**

Sales History				Liv.Sq.Ft	.0000
Date	Price	Assessment		Total Rooms	
0/00/00	800,000	Land	60,100		
0/00/00	0	Buildings	284,200	Full Bath	
		Total	565,500		
		Tax Value	565,500		

<b>Base Tax Due</b>		<a href="#">Last Billing Detail</a>	<a href="#">History</a>	
<b>Tax Penalty</b>	.00			
<b>Total Tax Bal.</b>	.00			
<b>Sewer Balance</b>	.00	<b>Sewer Account #</b>		
<b>Neighborhood #</b>	00600	<b>Coordinates</b>		0453684 E 0313733 N
<b>Fronting</b>	Residentia	<b>Lot Dimensions</b>		0000015.00
<b>Improvement</b>	IMPROVED	<b>School District</b>	26	WOODBRIIDGE
<b>Class</b>	Commerc	<b>Fire District</b>	47	FARMINGTON
<b>Appraised By</b>	SR	<b>Sewer District</b>	00	NONE
<b>Topography</b>	Level	<b>Ambulance District</b>	50	HARRINGTON
<b>MH Model</b>		<b>Trash District</b>		
<b>MH Color</b>		<b>Light District</b>		
<b>MH Manuf.</b>		<b>Tax Ditches</b>	D005	D 005 - NANTICOKE RIVER

<b>MH Serial #</b>			D006	D 006 - WHITE MARSH

<b>IMPROVEMENT KEY</b>	
<b>MANUF HM</b>	Manufactured Home
<b>MANUFCC</b>	Manufactured Home Class C Assessment

**Property Description**  
W. SD. RT. #13 BET.  
FARMINGTON & GREENWOOD  
20.0038 A.

	<b>Building 1</b>	<b>Building 2</b>	<b>Building 1</b>	<b>Building 2</b>
<b>Year Built</b>	2012		<b>Roof Cover</b>	
<b>Building Type</b>	Commerc		<b>Roof Type</b>	
<b>Building SqFt</b>			<b>Flooring</b>	
<b>Building Class</b>			<b>Floor Cover</b>	
<b>Building Perim</b>			<b>Fixture Ad</b>	
<b>Basement Type</b>			<b>Elevators</b>	
<b>Basement SqFt</b>			<b>Features</b>	
<b>Stories</b>			<b>Ext.Cond./B&gt;</b>	
<b>Height</b>			<b>Int.Cond.</b>	
<b>Heat/Cool</b>			<b>Int.Finish</b>	
<b>Heat Fuel</b>			<b>Foundation</b>	
<b>Air Cond.%</b>				

<b>OUTBUILDINGS</b>			
<b>Type/Dimn</b>	<b>Description</b>	<b>Type/Dimn</b>	<b>Description</b>
CFENC9WW6		CGATE 017X	
COVRDOORMT		COVRDOORMT	
CPAVCOBRDR		CPAVASPH 0	
*MISC 000X		*MISC 000X	
*MISC 000X		CYARDLTMHS	
CYARDLTMHD		CLOADDCKCO	
CLOADDCKCO			

**PROPERTY INFORMATION**  
[Planning and Building Permits Information](#)

<b>Reference #</b>	MN MISPILLION HUNDRED	<b>Card # 2 of 2</b>
<b>Location ID</b>	83656	<b>Map Number</b> 6-00-19300-01-4801-00002
<b>Tax ID</b>	88668	<b>Deed BVP</b> D 5798 0329
<b>Parcel ID</b>	82768	<b>Property Code</b> P - PROPERTY

**Current Owner**

BFI WASTE SERVICES, LLC,  
P.O. BOX 29246  
PHOENIX, AZ 85038

**Property Location**

DUPONT HWY  
GREENWOOD , DE 19950

**Zoning IG**

**Acres**

**Additional Owner**

**Sub-Division**

Sales History				Liv.Sq.Ft	.0000
Date	Price	Assessment		Total Rooms	
0/00/00	800,000	Land			
0/00/00	0	Buildings	28,100	Full Bath	
		Total	565,500		
		Tax Value	565,500		

Base Tax Due		<a href="#">Last Billing Detail</a>	<a href="#">History</a>	
Tax Penalty	.00			
Total Tax Bal.	.00			
Sewer Balance	.00	Sewer Account #		
Neighborhood #	00600	Coordinates		0453684 E 0313733 N
Fronting	Residentia	Lot Dimensions		0000015.00
Improvement	IMPROVED	School District	26	WOODBIDGE
Class	Commerc	Fire District	47	FARMINGTON
Appraised By	SR	Sewer District	00	NONE
Topography	Level	Ambulance District	50	HARRINGTON
MH Model		Trash District		
MH Color		Light District		
MH Manuf.		Tax Ditches	D005	D 005 - NANTICOKE RIVER
MH Serial #			D006	D 006 - WHITE MARSH

IMPROVEMENT KEY	
MANUF HM	Manufactured Home
MANUFCC	Manufactured Home Class C Assessment

**Property Description**  
W. SD. RT. #13 BET.  
FARMINGTON & GREENWOOD  
20.0038 A.

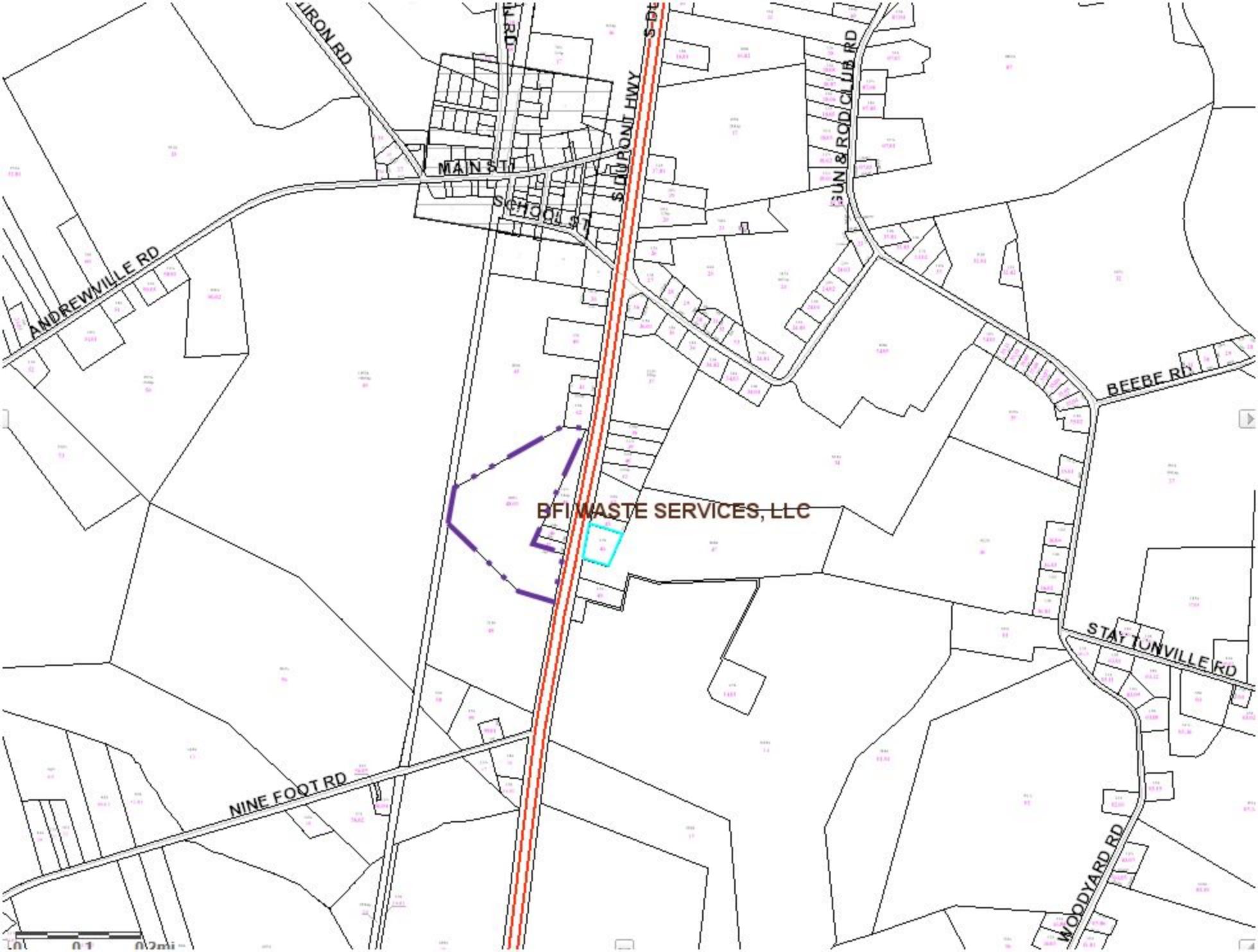
	Building 1	Building 2	Building 1	Building 2
<b>Year Built</b>	2012		<b>Roof Cover</b>	

**Building Type**    Commerc  
**Building SqFt**  
**Building Class**  
**Building Perim**  
**Basement Type**  
**Basement SqFt**  
**Stories**  
**Height**  
**Heat/Cool**  
**Heat Fuel**  
**Air Cond.%**

**Roof Type**  
**Flooring**  
**Floor Cover**  
**Fixture Ad**  
**Elevators**  
**Features**  
**Ext.Cond./B>**  
**Int.Cond.**  
**Int.Finish**  
**Foundation**

OUTBUILDINGS			
Type/Dimn	Description	Type/Dimn	Description





**BFI WASTE SERVICES, LLC**

0.1 0.2mi

**ATTACHMENT 3**  
**PLAN OF OPERATION**  
**(Revised July 2012)**

**Plan of Operation**

**Farmington Transfer Station  
DNREC Permit #SW-06/03  
BFI Waste Services, LLC.  
21682 South Dupont Highway  
Greenwood, DE 19950**



Prepared By:  
Eastern Shore Environmental, Inc.  
836 Postles Corner Road  
Little Creek, Delaware 19961

February 2005  
Revised: May 16, 2005  
Revised: July 2, 2012

June 2005

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Operations Inspection Checklist

## **1.0 FACILITY DESCRIPTION AND GENERAL OPERATING PROCEDURES**

This facility will operate as a solid waste transfer station, providing for the consolidation of solid waste deposited in the Transfer Station Building (“TSB”) by waste collection vehicles to be transferred into trucks for disposal at a final disposal location such as a landfill, incinerator or recycling facility.

### **1.1 Site Location**

The Farmington Transfer Station is located at 21682 South DuPont Highway, just north of Nine Foot Road, in Kent County, Delaware. The tax parcel number is MN-00193.00-01-48.00-000. A USGS location map showing the site location is attached in Drawing 1. The site is zoned I-G, General Industrial, by Kent County, with a Conditional Use Permit for a Solid Waste Transfer Station. The site has been used mainly for agricultural purposes since it was rezoned as I-G in 1985.

### **1.2 Facility Owner and Operator**

The site is owned by BFI Waste Services, LLC, a Republic Services company.

The site was previously owned, and permitted by Eastern Shore Environmental, Inc. (ESE). In July 2000, ESE had modified the Transfer Station Permit for that facility to permit the acceptance of Municipal Solid Waste (“MSW”), in addition to the already permitted Dry Waste. The adjacent Dover Air Force Base (“DAFB”) had subsequently claimed that it was unaware of this permit modification and the acceptance of MSW at this site. DAFB contended that wildlife, specifically birds, would be attracted to the MSW and jeopardize the safety of their air base operations. ESE had contracted with the United States Department of Agriculture to perform a scientific bird study of the site (DNREC subsequently ordered ESE to continue these bird surveys through Secretary’s Order No. 2002-A-0037). On June 1, 2004, the USDA issued a determination stating, in part, that “birds did not appear to be attracted to the activities at the transfer station.” Despite the determination that birds were not attracted to ESE’s transfer station. ESE agreed to undertake a search for a site and obtaining the required Kent County zoning approvals. ESE has located an appropriate site to relocate its operations, which is the subject of this permit application.

## **1.3 Description of Facility**

### **1.3.1 Weigh Station**

The weigh station is approximately 800 square feet office and consists of two adjacent 70-foot truck scales with a 10' flat and 20' sloped approaches on each side. Included in this building are administrative offices, meeting room and employee facilities. Visitors will be required to check-in before proceeding on-site.

### **1.3.2 Transfer Station Building**

The transfer station building (TSB) consists of an approximate 20,000 square foot steel frame building with concrete push walls around the perimeter of the building, concrete floors and steel siding. All truck doors are a steel roll-up design.

### **1.3.3 Administrative Building**

There is site plan approval for an approximate 3,000 square foot office building, located on the southeast corner of the site, adjacent to the site entrance. Future offices for company administration and management could be located here.

### **1.3.4 Maintenance Building**

There is site plan approval for an approximate 5,000 square foot building that will be steel frame with steel siding and concrete floor. Future maintenance of transfer station equipment, including trucks, loader and excavator will occur in this building.

## **1.4 Solid Waste Handling and Disposal Procedures**

The transfer facility consists of a weigh station and TSB. This facility will service commercial customers only. Trucks will enter the facility; weigh in at the weigh station, at which time the scale operator will utilize the overhead camera to perform a visual inspection of trucks with open-tops. The trucks will then proceed to the TSB to unload the waste on the tipping floor. Trucks will exit the facility, weighing out at the weigh station only if a tare weight is not on record for that vehicle. The material that is deposited into the building will be screened for unacceptable materials and may be culled for recyclables, if deemed appropriate for any particular load of waste. The non-recyclable waste will be staged on the tipping floor and then loaded into trucks for shipment to a final permitted disposal facility.

## 1.5 Schedule of Operation and Maintenance

### Operating Hours

The maximum hours of operation for solid waste acceptance are 6:00 A.M. to 6:00 P.M. Monday through Friday and 6:00 A.M. to 2:00 P.M. on Saturday (the facility may operate at reduced hours at the discretion of Operation Manager). The facility will be closed on Sundays. Current hours of operation will be posted on the gate and will be updated as necessary within the permissible hours of solid waste acceptance. Waste handling operations may occur from 12:00 A.M. on Monday through 11:59 P.M. on Saturday.

### Maintenance Schedule

Component	Maintenance Procedure
Leachate collection, storage and transfer systems	Each operating day - verify leachate tank level. Check floor drain, trench drains and secondary containment for leachate tank; clean if needed. Quarterly-Cleanout pipes connecting the floor trenches and the leachate tank utilizing a snake cleanout or equivalent
Alarm Systems	Fire Alarm – test each operating day Leachate Tank Level Alarm – test each operating day Security Alarm – test monthly
Fire Control Systems	Fire extinguishers (building and equipment) – Check levels in equipment each operating day; document monthly inspections of all fire extinguishers; ensure unobstructed access and signage. Fire sprinklers <u>Quarterly:</u> Main Drain Test, Check Static Pressure, Check residual pressure, Low pressure alarm, flow alarm, pre-action system, deluge system, check control valves; check name plates; spare sprinkler heads. <u>Annual:</u> Check tanks, pumps, water supply, control valves, functional test of all systems, components, functional test of all alarm devices, anti-freeze.
Access Control, Fences, Gates and Signs	Gates are locked and secured after each operating day. Inspect fence each operating day, ensure that signage is in place and legible.
General Housekeeping	Apply water mist or deodorizer when dust is escaping from the TSB or odors are detected outside of the fenced area of the facility. Daily litter patrol of the site and roadways leading to and from the site.

## 1.6 Operating Staff

Position	Responsibilities
Operations/Site Manager	Responsible for overall transfer station operations, compliance with DNREC regulations and safety procedures.
Lead Operator	Responsible for transfer station operations, compliance with regulations and safety procedures when Manager is not onsite.

Laborer	Sort Recyclables, direct traffic and site maintenance, including litter patrols. An Equipment Operator may also fulfill the role of Laborer.
Equipment Operators	Operate and perform general maintenance (check fluids, lights, grease) of transfer station equipment, including loaders, yard jockeys and excavators. Load waste into containers or trailers for shipment to final disposal facility. Site maintenance, including litter patrols. May be certified weigh master to operate scale.
Scale Operators	Weigh trucks maintain records of transfer station activity. Certified by the Delaware Department of Agriculture as a certified weigh master.
Truck Drivers	Transport solid waste and recyclables to final disposal facility.

The Operations/Site Manager is generally on duty from Monday through Friday, 8 A.M. through 6 P.M. When not onsite, there will be a Lead Operator who will be responsible for maintaining compliance and safety. One Laborer is on duty from 8 A.M. through 5 P.M, Monday through Friday. An additional Laborer will be required when daily incoming volumes exceed 300 tons per day, up to 660 tons per day. At least one Equipment Operator is on duty during all receiving hours. A minimum of two Equipment Operators are on duty during all receiving hours when daily incoming volumes exceed 300 tons per day, up to 660 tons per day. The Scale Operator will be on duty during all receiving hours. Equipment Operators who are certified weighmasters and the Operations Manager will operate the scale when the scale operator is not on duty and weighing operations are required. Truck drivers will be on duty as necessary to transport the waste from the facility. All personnel will be trained to fulfill the responsibilities of their respective positions.

## 2.0 FIRE AND SAFETY REQUIREMENTS

### 2.1 Employee Health and Safety

#### 2.1.1 OSHA

All employees at the site shall comply with the regulations and guidelines established by the Occupational Safety and Health Administration (OSHA).

#### 2.1.2 Employee Facilities

Employees shall be provided with sanitary facilities, drinking water and suitable shelter on site.

#### 2.1.3 Communications

Transfer station personnel shall be provided with two-way radios or direct connect telephones to communicate with the weigh station.

#### **2.1.4 First Aid Equipment**

A first aid supply cabinet shall be located in the TSB and the weigh station. The cabinets shall be maintained with an appropriate supply of first aid equipment. An eye wash station will be located in the TSB and maintained based on the manufacturer's recommendations.

#### **2.1.5 Spill Response Equipment and Supplies**

Spill control kits will be located in the TSB and near the fuel island. The kits will consist of absorbent media and a containment drum.

#### **2.1.6 Confined Space Entry Procedures**

It is anticipated that the operation of the facility will not require any confined space entry. Facility personnel are instructed to contact the Operations Manager if the need for confined space entry is encountered. Trained and certified personnel will perform any confined space entries required at the facility. The facility will maintain a confined space safety plan.

#### **2.1.7 Personal Protective Equipment**

All personnel will be trained on the appropriate and required use and storage of personal protective equipment. Any person inside the TSB must wear a hard hat, reflective vest and eye protection. All transfer station personnel working inside the TSB, who are not working inside a piece of equipment, must wear a hard hat, reflective vest, steel toed boots and eye protection. Hard hats, reflective vests and eye protection for transfer station personnel will be located in each employee's assigned locker. Additional hard hats and eye protection for visitors will be located adjacent to the man doors of the TSB.

### **2.2 Fire Prevention**

#### **2.2.1 Fire Extinguishers**

A State Fire Marshall approved sprinkler system will be operable in the TSB.

At least one fire extinguisher will be located in the weigh station. Five fire extinguishers will be located in the TSB; that include portable fire extinguishers kept on the heavy equipment. Fire extinguishers will be checked monthly and inspected annually. After discharge, or when the extinguisher gauge indicates a need for recharge, they will be serviced by a qualified vendor or replaced.

See 4.0 (Fire Control Systems).

### **2.2.2 Hot Loads**

All incoming loads of waste where smoke or flames are observed emanating will be segregated, if possible, and personnel will attempt to extinguish with a fire extinguisher. Failure to extinguish the load within one minute will result in the immediate notification to emergency services personnel at which time the building will be evacuated.

See 4.0 (Fire Control Systems).

## **3.0 TRAINING**

All transfer station employees shall receive, as a minimum, the following training.

- Operational and Contingency Procedures
- Waste Screening
- Health and Safety Procedures
- Fire Prevention and Protection
- Emergency First Aid and CPR

An American Red Cross certified training provider shall perform the Emergency First Aid and CPR training. Management or personnel who are trained as trainers shall perform the remaining training.

Initial training for waste screening shall occur within 30 days from date of hire. All other training will be performed within 45 days of hiring. All training shall be renewed annually.

Training records shall be maintained for all current transfer station personnel.

## **4.0 SYSTEMS AND EQUIPMENT**

### **4.1 System Designs**

#### **4.1.1 Leachate Collection, Storage and Transport**

Leachate will be gravity fed from the TSB tipping floor, which is constructed of an impervious concrete surface, to a floor drain system located in the tractor trailer tunnel.

The floor drain system will direct all leachate to a holding tank with a minimum capacity of 3,000 gallons, to be located outside and adjacent to the TSB. The holding tank will be constructed of double walled steel or will be a singled walled tank located within secondary containment. The secondary containment will include a drain hole that will be plugged during normal business operations, to be opened under supervision of transfer station personnel when rainwater accumulates in the secondary containment.

A high level alarm will indicate when the tank has reached 70% of capacity. At or before the time the tank reaches 70% of capacity, a licensed wastewater transport company will be contacted to remove the contents of the tank to be transported and disposed of at a licensed wastewater treatment facility. The tank level will be checked each operating day, manually with a graduated dipstick. When leachate removal is performed, the transport company will remove the leachate from the tank utilizing a transport vehicle integrated pump and flexible piping. The connection to the leachate tank is located within the secondary containment areas so that any possible spill at the connection point will be contained. A spill control kit located in the TSB is readily available as an additional safeguard to contain and clean leachate spills. The leachate is considered liquid waste and is not to be disposed of in the TSB.

Refer to section 1.5 of the Plan of Operation for additional maintenance requirements of the leachate collection system. Additional maintenance is required if any of the system inspections indicate that the system is not operating properly or if there is a malfunction in the alarm system.

#### **4.1.2 Alarm Systems**

Fire - The TSB and the weigh station are equipped with a fire alarm that will be triggered along with the TSB sprinkler system or when fire is detected at the weigh station. A manual pull alarm activator will be located in the TSB. The alarm is centrally monitored by an alarm system service.

Security- The TSB and the weigh station are equipped with a security alarm that will be triggered when unauthorized access is detected at one of the facility truck or man entrances. The alarm will be centrally monitored by an alarm system service.

Leachate- The leachate collection tank is equipped with a high level alarm that will indicate when the tank reaches 70% capacity.

#### **4.1.3 Fire Control Systems**

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A State Fire Marshall approved sprinkler system is installed and maintained in the TSB. Five fire extinguishers are located in the TSB; including portable ones on the heavy equipment; and one fire extinguisher is located in the weigh station. All personnel will be trained for emergency fire response procedures:

- Evacuate the area of the fire.
- Notify the emergency response coordinator.
- If the fire cannot be contained by the facility personnel, the emergency response coordinator will instruct the scale office personnel to notify the Fire Department and gives details of the type and location of the fire.
- Notify all other Transfer Station employees of the fire.
- Stop waste vehicles until notified otherwise.
- Evacuate the facility if deemed necessary by the emergency response coordinator.

The following procedures are used for fire located in the solid waste on the tipping floor:

- Notify the emergency response coordinator.
- Sprinklers are activated automatically if necessary.
- Ready the hand extinguishers.
- Isolate fire from the other solid waste on the floor using the loader.
- Extinguish solid waste and check for hot spots.
- If the fire cannot be contained by the facility personnel, the emergency response coordinator will instruct the scale office personnel to notify the Fire Department and gives details of the type and location of the fire.
- Notify all other Transfer Station employees of the fire.
- Stop waste vehicles until notified otherwise.
- Evacuate the facility if deemed necessary by the emergency response coordinator.

The following procedures are used for fire in the solid waste in an incoming or outgoing truck:

- Notify the emergency response coordinator.
- Direct truck to designated area cleared on the tipping floor.
- Discharge load if possible.
- Sprinklers are activated automatically if necessary.
- Ready the hand extinguishers.

- Extinguish solid waste and check for hot spots.
- If the fire cannot be contained by the facility personnel, the emergency response coordinator will instruct the scale office personnel to notify the Fire Department and gives details of the type and location of the fire.
- Notify all other Transfer Station employees of the fire.
- Stop waste vehicles until notified otherwise.
- Evacuate the facility if deemed necessary by the emergency response coordinator.

#### 4.1.4 Storm Water Control Structures

Storm water is managed via sheet flow to two storm water management ponds located on the southeastern side of the property. A berm, approximately 50 feet wide and peaking at approximately 5.5 feet above the mean grade of the southern portion of the property will be constructed along the length of the southern property boundary. The base of the berm, along with the remaining property will be graded to direct storm water in an easterly, southeasterly direction to the storm water management ponds. Berms will be constructed on each side of the existing ditches on the property, of sufficient height and width, to prevent storm water runoff from entering the ditches. Storm water will be released from the storm water management ponds into the ditch that runs along the eastern edge of the property in a controlled fashion via outlet devices from the ponds. All storm water control devices will be constructed in accordance with the Kent Conservation District approved storm water control plan.

#### 4.1.5 Site Access Control

A chain linked fence, at least 6 feet in height will surround the perimeter of the operations. There will be a small gap where the Tax Ditch leaves the property along the railroad tracks. This portion of the property will be captured by site cameras. Gates will be installed at the facility entrance and wherever access may be needed to other non-operational areas of the facility. The only access to the facility property is through the main entrance off of Route 13.

## 4.2 Operating Equipment

### 4.2.1 Weigh Scales

Two 70-foot truck scales will be located on each side of the weigh station. The 70-foot scales are the primary device utilized for weighing incoming loads of waste. A secondary scale is located inside the TSB under the load out areas for outgoing loads of waste. Each scale at the weigh station may be used as a

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backup in the event that one scale malfunctions. Both scales will be certified by the Delaware Department of Agriculture. Scales will be checked and calibrated on a quarterly basis and if improper operation is detected.

#### **4.2.2 Waste Screening Equipment**

An overhead camera will be located above the scale adjacent to the weigh station, for use by the scale operator to visually inspect incoming loads. The scale operator will report to the Operations Manager any damage or adjustment required of the camera.

#### **4.2.3 Waste Handling Equipment**

One front-end loader will be used for pushing waste into staging piles for loading into outgoing trucks. The loader may also be used for loading trucks with outgoing waste. Snow removal will also be performed with the loader.

One excavator will be used for loading trucks with outgoing waste, moving material around the TSB as necessary and segregating recyclables from the incoming waste. The loader and excavator will be inspected daily, including fluids and grease and maintained based on the manufacturers recommended inspection schedule.

#### **4.2.4 Storage Containers**

Steel open-top roll-off containers will be the typical storage medium for recyclables recovered from the incoming waste. Containers will be repaired as needed.

A minimum 3,000 gallon steel tank will be utilized for storage of leachate as described and maintained in the System Designs section in the Plan of Operation.

Above ground storage tanks for off-road diesel fuel and on-road diesel fuel may be located on site. They will be either double walled or located within secondary containment. The tanks will be inspected by transfer station personnel and repaired as needed.

Trailers and roll-off boxes will be utilized for temporary staging of outgoing recyclables and solid waste. All containers holding solid waste outside of the TSB will be covered with tarps that will be inspected by transfer station personnel and repaired or replaced as needed. The trailers will be maintained in accordance with the regulations of the Department of Transportation (DOT).

#### **4.2.5 Communication Equipment**

Two-way radios will be utilized by transfer station personnel to communicate with the weigh station. The radios will be repaired as needed.

#### **4.2.6 Trucks**

Tractors will be utilized for the shipment of trailers containing outgoing waste or recyclables. The tractors will be maintained per the manufacturer's recommendations and in accordance with the DOT. Roll-off trucks will be utilized for the shipment of open-top roll-off containers containing outgoing waste or recyclables and will be maintained per the manufacturer's recommendations and in accordance with the DOT.

Additional roll-off trucks, tractors and trailers will be parked on site for the shipment of incoming waste to the transfer station.

### **5.0 OPERATION PROCEDURES**

#### **5.1 Receiving and Shipping Solid Waste**

All trucks hauling solid waste to or from the transfer station must have a valid Delaware Solid Waste Transporter Permit, except those vehicles weighing less than 26,001 pounds or those vehicles hauling only source separated materials for reuse or recycling.

##### **5.1.1 Incoming Loads of Solid Waste**

The weigh master accounts for each load of waste entering and exiting the facility. Upon entering the facility, trucks will be directed by facility signage to a truck queuing area or directly to the scale. Trucks will utilize the queuing area when the scale is otherwise occupied by another vehicle or for roll-off trucks to remove the tarps from the trucks prior to entering onto the scale. The scale operator will direct trucks to enter onto the scale by means of an indicator light of green to proceed onto scale or red to wait before proceeding onto scale. Trucks will then be weighed-in. Trucks for which there are previously recorded tare weights on record will receive a transaction receipt (scale ticket) at that time. Trucks for which have no recorded tare weights will be required to weigh out as they exit the facility and receive their transaction receipt at that time. The scale tickets records the time, date, weight of the load and customer information.

The truck will then be directed by the scale operator to proceed in counterclockwise route around the TSB to the truck entrance doors on the northeast side of the building. Trucks will be directed by the transfer station personnel and facility signage to back into one of the incoming waste truck entrance doors of the facility. Loads may be segregated on the tipping floor based on the type of waste that is being hauled, either dry waste or MSW. After the loads have been deposited on the tipping floor, the driver and/or the transfer station personnel will confirm that the load has been fully removed from the truck. Transfer Station personnel will inspect the incoming material for prohibited materials. If prohibited materials are identified at the scale, prior to unloading a container or in the TSB, personnel will implement discovery of unauthorized wastes contingency procedures, as described in section 6.1.E in the Plan of Operation.

Acceptable materials may be culled for recyclables if personnel deem that the material contains recoverable material. Recovered materials are segregated into a designated area on the tipping floor or directly placed in containers, located inside or adjacent to the TSB. The remaining material is consolidated and staged on the tipping floor, in a pile that is accumulated adjacent to the loading bay and extended across the tipping floor in a westerly direction, as needed. Tires, appliances, batteries and creosote are to be handled in accordance with section 5.2 of the Plan of Operation. The truck will then exit the facility, continuing in a counterclockwise direction towards the scale. Trucks that have received the scale ticket for the deposited load will utilize the drive-by lane and exit the facility or proceed to park the vehicle in the designated truck parking area. If a truck needs to receive a scale ticket at that time, the scale operator will direct the truck driver to proceed on outbound scale. The truck will exit the facility after weighing out and receive a scale ticket.

### **5.1.2 Outgoing Loads of Solid Waste**

Trucks arriving at the facility to be loaded for outgoing waste will enter the facility and receive direction from the weighmaster to proceed directly to the TSB loading bay or to the trailer parking area. Trucks that are directed to the TSB loading bay will enter the facility through a door on the corner of the building that leads to the load-out tunnel. The trucks will then be loaded with the waste that has been accumulated on the tipping floor, adjacent to the loading bay.

Material is typically loaded in a first-in/first-out basis. This is effectuated by pushing or otherwise moving the most recently received waste adjacent to the loading bay. The trucks will be loaded with outgoing waste utilizing either an excavator or a loader. The loading bay will be located at a lower elevation than the tipping floor adjacent to the loading bay. The height differential will aid the operator to load the trailer with waste with improved vision and access to the receiving vehicle. A scale is located in the loading bay,

with a weight indicator for the operator to gauge when the truck has reached capacity, not to exceed the legal gross weight. After the desired weight of the truck has been reached, the driver will be directed to pull out of the loading bay to tarp the loaded trailer. No loading is permitted while personnel are outside their truck. All operators and drivers will be trained to adhere to this safety regulation.

Trucks will then exit straight through the TSB, via a door on the other corner of TSB, and proceed in a counterclockwise direction around the TSB to the outbound scale. A scale ticket will be provided to the driver. The driver will exit the facility. The driver may be instructed to stage the truck in the trailer staging area for later delivery. The trailer staging area can accommodate up to six tractor-trailers. Additional staging areas may include the TSB load-out area or the North end of the fenced-in area of the site. All waste must be shipped off the site within 72 hours of receipt, including waste that has been staged in trailers for shipment.

### 5.1.3 **Outgoing Loads of Recyclable Waste**

Loads of outgoing recyclable waste will be staged adjacent to the west side of the TSB. Trucks entering the facility to pick up recyclable waste will proceed on the scale and be directed by the weighmaster to the appropriate container or trailer to pick up. The driver will pick up the container or attach to the trailer and proceed in a counterclockwise direction around the TSB and proceed to the scale to weight out. The weighmaster will confirm that the gross weight of the truck does not exceed the vehicle's maximum gross vehicle weight restriction, or 80,000 pounds, whichever is less. The driver will be provided with a scale ticket and exit the facility.

### 5.1.4 **Recyclable Materials**

Materials that may be segregated from the non-recyclable waste for delivery to recycling facilities include:

- Old Corrugated Containers (OCC)
- Mixed Paper
- Concrete
- Metals (Ferrous and Non-Ferrous)
- Wood (brush, lumber, manufactured, stumps)
- Plastics

Additional materials may be identified for recycling as determined by management.

### 5.1.5 Recordkeeping

The weighmaster will record each load of waste received and shipped from the transfer station. This information is compiled and stored on computer and the information will be retained for a minimum of three years. The Site Manager will maintain a record of all operational related issues. At a minimum the following information will be recorded.

- A. A record of the solid waste received at the transfer station, including the type and weight of each load received each day. The records will include the company name, address and telephone number of each hauler delivering waste to the transfer station.
- B. A record of the type and weight of each load of solid waste delivered from the transfer station each day to its final destination.
- C. A record of fires, spills, uncontrolled releases and hot loads received at the transfer station.
- D. Fire and safety inspections.
- E. Major equipment maintenance.
- F. Destination of solid waste.

### 5.1.6 Waste Storage

Non-recyclable solid waste received at the transfer station may not remain at the transfer station for more than 72 hours without written approval from DNREC. Non-recyclable solid waste that is stored on the site must remain within the TSB or staged in trailers or containers for shipment. The trailers or containers will be staged in the designated staging area and must be sealed or an impermeable cover must be placed on the load. The weighmaster will keep a record of inventory in the TSB and staged trailers each day. The total incoming weight will be compared with the total non-recyclable and recyclable waste shipped each day. The difference will be added or deducted from the prior day's inventory. At no time shall the inventory exceed the waste received during the prior 72 hours. The weighmaster will notify the Operations Manager each operating day of the current inventory and amount of waste received during the prior 72 hours. The Operations Manager will schedule outgoing shipments of waste accordingly, to assure that non-recyclable waste does not remain at the transfer station for more than 72 hours. A tonnage inventory and tracking form is attached as Appendix 2 and will be utilized by the weighmaster to determine the preceding 72-hour waste inventory. Transfer Station personnel will notify the weighmaster the time and date of any occurrence when the tipping floor is empty. The weighmaster will adjust the 72-hour inventory accordingly. The weighmaster will utilize the loaded trailer inventory, Appendix 2a, to monitor on-site waste staged for shipment. No loaded trailer will be permitted to be staged for more than

3 days and the total trailer inventory will be added to the preceding 72-hour waste inventory to include the waste loaded in trailers in the 72-hour waste storage limit compliance calculation.

Recyclable waste shall be stored in trailers or open-top roll-off containers staged in the TSB or adjacent to the TSB in the designated recyclable material staging area. Recyclable material may remain on site for up to 30 days; unless written approval is received from DNREC, permitting extended storage time.

### 5.1.7 Monitoring Daily Waste Capacity

The weighmaster will monitor the total weight of incoming waste each day. When total incoming waste received each day reaches 80% of the permitted maximum, the weighmaster will notify the Operations Manager; or designee; who will ascertain the anticipated remaining waste to be delivered to the transfer station that day and notify the users of the facility of a projected cut-off time for incoming waste. The weighmaster will not permit waste to be disposed of at the facility in excess of the permitted capacity.

## 5.2 Preventing Unauthorized Wastes

The following materials may be accepted at the transfer station:

- Municipal solid waste
- Bulky waste
- Construction and demolition waste
- Vegetative waste
- Animal and food processing wastes
- Industrial wastes
- Any other wastes not specifically excluded herein and not requiring extraordinary handling procedures

The following Special Wastes are prohibited from acceptance at the transfer station, but may be present in incoming loads on an incidental basis. These materials are to be handled as described below. The presence of these materials does not require notification to DNREC, unless the operator deems there to be potential harm to human life or the environment.

Tires – Tires that are received at the transfer station will be segregated for disposal at a designated disposal facility or commingled with the remaining waste for final disposal.

Creosote – Creosote poles that are received at the transfer station will be segregated for disposal at a designated disposal facility or commingled with the remaining waste for final disposal.

Appliances – Appliances received at the transfer station will be segregated from the waste to determine if any appliance potentially containing CFCs has been certified free of CFCs. Appliances that are certified free of CFCs will be stored in a designated metal recycling container or area on the tipping floor. Air conditioners, refrigerators or other appliances that potentially contain CFCs without a certification that the CFCs have been removed will be placed in a designated area in the TSB for removal by a company that is certified to handle appliances that contain CFCs.

Vehicle Batteries – Vehicle batteries are to be removed from the waste and placed in a designated area in the TSB. Vehicle batteries will then be removed by a recycler for proper disposal.

The following materials shall be prohibited from acceptance at the transfer station and are defined as Unacceptable Waste:

- Asbestos or asbestos containing waste
- Bulk liquid waste
- Hazardous waste
- Infectious or medical waste
- Radioactive waste

### 5.2.1 Methods to Prevent Disposal of Unauthorized Waste

All loads of waste delivered to the transfer station are subject to an inspection program which includes the following components:

Customer Notices – All customers who use the transfer station receive a notice, informing them of the acceptable material guidelines at the transfer station. A sample notice is attached as Appendix 1.

Driver Training – Each driver delivering waste to the transfer station will receive the acceptable material guidelines and are instructed to inspect the loads of waste, to the extent possible, at the waste generator location.

Weighmaster Inspection – The weighmaster is trained to screen incoming waste. To the extent possible, the weighmaster will inspect incoming loads utilizing an overhead camera located at the weigh station.

Loads containing unacceptable waste are rejected from the facility or directed to a designated area so that the unacceptable materials may be removed by the customer for appropriate disposal.

Transfer Station Personnel Inspection – Each transfer station employee is trained to screen and inspect incoming waste. After a load is deposited on the tipping floor of the TSB, transfer station personnel will inspect the materials for unacceptable waste. Unacceptable waste will be isolated and the Operations Manager; or designee; is contacted for appropriate handling of the materials. If the unacceptable waste is deemed to require extraordinary handling or an immediate harm to human health, then the transfer station is evacuated and closed while appropriate personnel are contacted who are trained and authorized to handle the identified material. DNREC is contacted if any unacceptable material is disposed of in the TSB at the following phone numbers:

- Business Hours: 302-739-9403
- Emergency Hotline: 1-800-662-8802

Any company delivering unacceptable waste will be reeducated as to the requirements of waste delivered to the transfer station. Repeat offenders will be temporarily suspended from delivering waste to the transfer station and may be permanently barred if the infractions continue after disposal privileges had been suspended on a prior occasion.

### **5.3 Scavenging**

Scavenging is prohibited at the transfer station. All personnel and visitors will be instructed that disciplinary action will result from any scavenging. An employee is identified as scavenging materials from the TSB will face disciplinary action, up to and including termination of employment. Visitors will be expelled from the facility.

### **5.4 Controls of Nuisances or Hazards**

#### **5.4.1 Dust and Air Pollution**

The operation of the transfer station shall comply with 7 Del.C., Chapter 60 and the Regulations Governing the control of Air Pollution. All traffic carrying surfaces shall be paved and kept clean of significant buildup of dirt. All vehicles will be maintained in proper operating condition to minimize emissions and vehicles will be cleaned periodically to avoid accumulation of dirt.

#### 5.4.2 Litter Control

All waste handling activities will occur within the TSB. All outgoing loads must be covered before exiting the TSB. There are entrance doors to the TSB load-out tunnel that will be closed on windy days to prevent litter from blowing from the building. Transfer station personnel will inspect the property daily for any litter. Litter will be removed during scheduled litter patrols and when observed by transfer station personnel. The road adjacent to the transfer station site will be patrolled for litter and drivers will be trained to notify the weighmaster of any litter observed on roadways that is clearly the result of the operation of the transfer station. Fencing around the facility will control litter on site.

#### 5.4.3 Odor Control

Odors are mitigated by limiting all waste handling operations to within the TSB and removing the delivered wastes from the facility as soon as practicable, to minimize onsite waste storage; while practicing first-in, first-out waste handling. An odor control misting system will be activated if odors are determined to be leaving the TSB. If a complaint were received, the operations manager will inspect the facility, and determine if there is a specific odor causing material in the facility and if additional mitigation is necessary, including liquid or dry deodorizers.

#### 5.4.4 Vector Control

Vectors will be controlled by facility perimeter fencing and the use of a professional exterminator as needed. Bird deterrent methods will include the installation of bird netting on the transfer station ceiling. If necessary, monofilament wires of an appropriate length will be installed to extend from over the truck entrance doors to the areas outside those doors. These wires will be installed only if avian species attracted to waste are observed in the TSB on a consistent basis. The design of the overhead wire grid will be provided by the USDA. The FAA has been notified of the transfer station facility and has provided a notice of non-hazard to flight activity. Transfer station personnel will routinely inspect for signs of vector habitat at the facility and apply appropriate corrective measures through a professional vector control service.

#### 5.4.5 Noise

The facility is designed and situated so not to result in Intrusive Noise per Chapter 71, Section 7105 of DNREC Regulations Governing the Control of Noise. The truck entrance doors for incoming waste face away from the nearest offsite receptors of noise. The concrete and steel walls of the facility provide

additional noise attenuation and perimeter site buffers have been maximized in all directions. The noise generated by the adjacent Route 13 will typically obfuscate the noise generated by transfer station operations.

## 5.5 Site Access

All transfer station operations are enclosed by a fence. The gates will be locked when no personnel are on site to monitor the facility. A centrally monitored security system will prevent and provide notification of unauthorized access of the offices or TSB. Signs will be posed prohibiting trespassing and unauthorized access to the facility. Operating hours will be posed and personnel will be instructed to direct all visitors to the facility office. Transfer station personnel will be notified of authorized visitors during operating hours.

## 5.6 Traffic Routing

### 5.6.1 On-Site

All vehicles enter the facility from Route 13. Visitors and deliveries will be directed to the weigh station. All personnel who are not operating inside trucks or equipment are required to wear reflective vests, anywhere on the site and hard hats inside the TSB. Trucks delivering or receiving waste will be directed to the scale by the scale operator. When the scale is occupied, trucks will utilize the truck queuing area located between the facility entrance and the scale. Trucks with roll-off containers that require untarping will do so in a designated area, located adjacent to the truck queuing area. Pavement markings will separate the facility driveway from the area designated for trucks to untarp. The area designed for trucks to untarp will be considered a pedestrian area and trucks will be advised to operate in that area with due caution. Signs on the site will provide appropriate onsite routing instructions. Trucks that are delivering waste will be directed by the weigh-master to proceed in a counterclockwise direction around the TSB. The trucks will back into the TSB, and facility personnel will direct the trucks to deposit their loads of waste. Trucks will then exit the facility, continuing in a counterclockwise direction around the TSB back towards the weigh station. If a tare weight is on record for the truck, then the truck may exit the facility via the weigh station drive-by lane. Otherwise, trucks will be directed by the weighmaster to proceed on the scale when clear and then exit the facility. Trucks receiving outgoing waste will be directed by the weighmaster to queue on the south side of the TSB, adjacent to the trailer parking area. When directed by transfer station personnel, the trucks will enter the loading bay on the south side of the TSB and exit the facility via the north side of the facility after loading and covering the trailer. These trucks will proceed

in a counterclockwise direction around the TSB and proceed to the weigh station. The trucks will pick up the load manifest (weight ticket) at the weigh station and exit the facility. If the truck receiving outgoing waste is not delivering the load the same day, then the truck will proceed to the trailer parking area for staging. Additional parking for tractor-trailers is located in the TSB (1) and the North side of the fenced-in area of the site. Trailers will be staged on the site as needed. Speed limits will be posted around the facility and speed calming devices will be used to control the speed of vehicles using the facility.

### **5.6.2 Offsite**

Trucks will exit the facility and proceed South on Route 13. To proceed South, trucks will continue South on Route 13. Trucks that are traveling north from the facility make a left turn on Route 13 from the facility.

Trucks entering the facility from the North will travel South on Route 13 and make a right turn into the facility. Trucks entering the facility from the South will travel North on Route 13 and make a left turn into the facility via a median crossover constructed according to DeIDOT specifications.

All trucks are required to use designated truck routes and are prohibited from using Nine Foot Road, except to provide local service.

## **5.7 Operational Inspections**

The transfer station will be inspected each operating day. Inspection items will include equipment, housekeeping, litter, safety devices, fire protection equipment, leachate collection and noting any issue that requires attention. The Operations Manager will assign inspection responsibilities to properly trained transfer station personnel. An inspection checklist is attached as Appendix 3. Inspection results shall be maintained for three years. The operations manager will review the inspection results each day and take appropriate corrective actions where necessary.

## **6.0 CONTINGENCY PLAN**

### **6.1 Emergency Response Situations**

A. Hot Loads – If an incoming load is suspected to contain burning materials or in risk of igniting, the load will not be dumped. The load will be deposited outside of the TSB on the asphalt surrounding the building. If transfer station personnel cannot extinguish the fire, then the local fire department will be contacted.

B. Building Fires – Transfer station personnel will attempt to extinguish the fire with onsite equipment. If the fire cannot be controlled, the local fire department will be contacted. If the TSB sprinkler system is activated, the fire department will be contacted through the central monitoring service.

C. Equipment Fires – Transfer station personnel will attempt to extinguish the fire with onsite equipment. If the fire cannot be controlled, the local fire department will be contacted. If the TSB sprinkler system is activated, the fire department will be contacted through the central monitoring service. Onsite equipment may be used to remove the equipment if it is located in the TSB. Equipment that has ignited may not be operated.

D. Spills – Spills may be controlled by on-site personnel utilizing the onsite spill control equipment and supplies. Any spill or uncontrolled release that may endanger human health or the environment will be immediately reported to DNREC. Personnel will be trained in utilizing spill control equipment, provided with DNREC emergency contact numbers and will be trained to prevent spills from entering storm water control structures.

E. Discovery of Unacceptable Waste – Transfer station personnel are instructed to follow the procedures in the facility's waste screening program if Unacceptable Waste is discovered. Emergency services and DNREC will be immediately contacted if the substance may endanger human health or the environment, including asbestos, hazardous waste, and unidentifiable liquid or medical waste. If any of these wastes are detected on the site, then the vehicle is to be cordoned off, the operations manager is notified and all personnel are to evacuate the area until emergency services personnel arrive. If these items are detected inside the TSB, then the building is to be evacuated until emergency services personnel arrive. Facility personnel will immediately notify DNREC of Unauthorized Waste disposed of on the site or in front of the gate to the facility. The material will not be handled until further instruction from DNREC. DNREC will be notified of all deliveries of Unacceptable Waste.

F. Severe Weather – The operations manager will determine if continued operation during adverse weather will result in unsafe conditions. Operations may be suspended or reduced under adverse weather.

G. Medical Emergencies – Transfer station personnel are trained in first aid response. Emergency services personnel will be contacted if an injury requires more than basic first aid.

H. Power Outages – In the event of a power outage, the Weigh Station and Transfer Station are wired to an emergency generator capable of allowing continued operations. Operations will cease

immediately if the power outage results in unsafe working conditions or if the emergency generator fails. If the power outage results in the temporary shutdown of operations, then Transfer Station personnel will contact the companies that haul material to the facility to notify them of the temporary shutdown. Waste already discharged on the tipping floor will be stored on the tipping floor or within a transfer trailer in the load out pit until power is restored.

If a power outage causes a shutdown of scales and operations still continue, the weights of loads will be estimated based on capacity of the vehicle and an average waste for that type of vehicle.

## **6.2 Emergency Coordinators**

Emergency contacts are attached as Appendix 4. The list will be updated as necessary and a copy provided to DNREC. The Operations Manager will act as the emergency coordinator. All personnel will be trained in first response procedures to the events listed in the contingency plan. The Operations Manager will then be contacted as soon as practicable and will take additional measures as necessary. In the event that the Operations Manager is not available, the weighmaster will contact the appropriate parties.

## **6.3 Spill Notification Procedures**

The Operations Manager will be contacted immediately in the event of a spill. The Operations Manager will determine additional measures necessary to respond to any spill or release.

## **6.4 Location of First Aid Supplies**

First aid supplies are located in the weigh station and TSB. An eyewash station is also located in the TSB.

## 6.5 Listing, Location and Procedures for all Fire Control, Spill Control, and Emergency Response Equipment

Equipment	Location	Procedure
First Aid Supplies	TSB and WS	Personnel perform first aid. Contact 911 if necessary
Eye Wash	TSB	Contact 911. Utilize eye wash until emergency services responses.
Fire Extinguishers	TSB and WS	Used only for controllable fires. Contact 911 if necessary. Not for use in uncontrollable fires.
Fire Sprinkler	TSB	Automatically activates in the event of a fire in the TSB.
Spill Control Kit	TSB and all Trucks	Absorbent media will be used to contain and absorb and stored in drum or pail. Contact DNREC if spill is not controllable.
2-Way Radios	TSB and WS	Communicate with the weigh station in the event of an emergency or for day-to-day operations communications.

WS – Weigh Station      TSB – Transfer Station Building

## 6.6 Local Emergency Response Organizations

Site and building plans have been reviewed and approved by the Delaware Fire Marshall. The Farmington Fire Department will tour the facility after completion of construction and will be provided a means of entering the facility when not in operation.

## 6.7 Postings

An evacuation plan will be posted in all buildings on the transfer station site. The emergency contact list, permit (with operations plan attached), signs for no smoking, hard hat required, fire extinguishers, spill control kit, first aid supplies, eye wash station, authorized personnel only and/or other signs deemed necessary will be posted on the TSB.

**ATTACHMENT 4**

**DNREC APPROVAL OF ENGINEERS CERTIFICATION/FINAL REPORT  
JULY 2012**

**AND**

**ENGINEERING CERTIFICATION REPORT  
JUNE 2012**



June 19, 2012

Project No.: 123-86484

Republic Services, Inc.  
1961 Ashland Road  
Rockville, VA 23146

Attn: Mr. Timothy P. Torrez, P.E.  
Area Engineer – Virginia, Maryland, and Delaware

**RE: FINAL REPORT AND ENGINEERING CERTIFICATION  
FARMINGTON TRANSFER STATION  
FARMINGTON, KENT COUNTY, DELAWARE**

Dear Mr. Torrez:

Per your request, Golder Associates Inc. (Golder) is providing this final report and engineering certification for the Farmington Transfer Station located in Farmington, Kent County, Delaware to Republic Services, Inc. (RSI). This document has been prepared to provide compliance with Section 1301.4.5.2.2 of the State of Delaware Administrative Code related to Construction and Operation. This final report includes the following:

- Applicability and Associated Documents;
- Summary of Constructed Transfer Station Features;
- Status of Local Approvals; and,
- Conclusions.

## APPLICABILITY AND ASSOCIATED DOCUMENTS

### Regulatory Requirements

With respect to the construction of new Transfer Stations, Section 1301.4.5.2.2 of the State of Delaware Administrative Code requires the following:

*After the construction of a new transfer station has been completed, and prior to the receipt of solid waste, the permittee shall submit a final report for the Department's approval. The final report shall certify that the construction of the transfer station was completed in accordance with the permit requirements. The final report shall be certified correct by a Professional Engineer registered in Delaware. The permittee shall not commence operations, store or receive solid waste until the Department has provided its written notification that the construction and the final report meet the requirements of the permit and the Delaware Regulations Governing Solid Waste.*

Based on a site visit on June 4, 2012, this final report describes the facility components as noted during the visit and indicates that the facility has been constructed in substantial conformance with the applicable permit documents described herein, with exceptions and clarifications as described herein.

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## Applicable Documents

The following are the applicable permit-level design and regulatory documents applicable to the Farmington Transfer Station:

- Eastern Shore Environmental Municipal Solid Waste Transfer Facility Permit Application, Engineering Report , Revised May, 2005 prepared by Earth Tech, Inc. of Trevose, Pennsylvania. (Engineering Report).
- Associated engineering drawings entitled "Eastern Shore Environmental, Inc. Municipal Solid Waste Transfer Station, Kent County, Delaware. Drawing Nos. 82744-01 through 82744-07, Revision 1, dated May 12, 2005 (except Drawing 82744-02, dated February 15, 2005) and Drawing 82744 dated May 15, 2005), prepared by Earth Tech, Inc. of Trevose, Pennsylvania. (Permit Drawings).
- Delaware Department of Natural Resources and Environmental Conservation (DNREC) Solid Waste Facility Permit SW-06/03 for the Farmington Transfer Station, issued April 18, 2011.

## SUMMARY OF CONSTRUCTED TRANSFER STATION FEATURES

The following narrative represents the constructed features of the Transfer Station complex as documented during a site visit by Mr. Paul Whitty of Golder on June 4, 2012. Mr. Whitty is a Professional Engineer registered in the State of Delaware. This final report and engineering certification is based solely on observations made during this site visit. Note that several minor components of the facility were not complete as of the date of the site visit and are noted below.

The design features defined in the Engineering Report and Permit Drawings, in order of their appearance in the documents and as seen from the site entrance, along with any deviations from the permit-level to construction-level design, are addressed herein. The intent of the permit-level design is to provide a basic layout of the facility along with the minimum operational features and environmental controls for the proper operations of the facility. It should be noted that some design features presented in the permit-level design were changed as part of the construction-level design, but do not change the intent of the permit-level design and were generally installed as upgrades to the minimum requirements of the permit-level design. Such items are noted below.

### Office Building and Parking

- Not constructed at time of site walk. Planned for future construction.

### Maintenance Facility

- Not constructed at time of site walk. Planned for future construction.

### Scale House and Scales

- The Permit Drawings indicate only one (1) scale to be used for inbound and outbound purposes. The facility was constructed with dedicated inbound and outbound scales for ease of operation (see Photos 1, 3, 5, 6 and 42 in Attachment B).
- The Engineering Report calls for a Rodan RC Series Model No. 09503SP. The installed inbound and outbound scales were BTEK Scales (see Photo 2 in Attachment B).

### Transfer Building and Appurtenances

- The Permit Drawings show two (2) loading doors on the western face of the transfer building. The building was actually constructed with seven (7) loading doors on the northern face of the building (long end) to allow greater access to the tipping floor (see Photos 19, 20, 30 and 31 in Attachment B).

- The Mechanical Room, located on the western face of the building, is used to house the fire suppression equipment (see Photos 32, 33 and 34 in Attachment B).
- The push wall covers a portion of the loading pit and the entire southern and western ends of the transfer building. The Permit Drawings indicate a minimum eight (8) foot high push wall. The constructed push wall actually extends twelve (12) feet high in this area. On top of the push wall, a steel plate is welded to the steel columns to prevent any waste from getting in between the push wall and building structure (see Photos 23 through 28 in Attachment B).
- The Permit Drawings call for the tipping floor to be pitched at a one (1) percent slope to the western face of the transfer building and drain to a trench drain installed across the floor to a pre-cast sump pit with pump for leachate removal and pumping via forcemain under the floor slab. The actual construction of the tipping floor is as follows (as described by the Contractor):
  - A two (2) inch drop in 10 feet from each of the northern (loading doors), western (push wall) and southern (push wall) building sides to the tipping floor.
  - Six (6) inches of fall from the western side of the building to a drain at the center of the knee wall adjacent to the loading pit.
  - A total of eight (8) inches of fall from the western side of the building to the loading pit.
- A description of the facility leachate and washdown water collection system within the transfer building is as follows:
  - A drain through the knee wall above the loading pit allows drainage from the tipping to drain into the loading pit.
  - Drains were installed in between the load cells in the floor of the loading pits which convey liquids to a common drain outside of the transfer station building through the foundation wall. The drain enters the grit chamber along the entrance ramp to the loading pit (see Photo 21). Liquid drains by gravity from the grit chamber to a pumping station which pumps it into the wastewater tank.
  - The Permit Drawings call for a 3,000-gallon capacity above-ground storage tank with high-level alarm and readout. A 5,000-gallon capacity above-ground storage tank has been installed (see Photos 8, 9 and 11).
  - The Permit Drawings show a roof over the wastewater tank. RSI has indicated that a roof is not planned at this time, although facility personnel will routinely monitor the annular space between the tank and the secondary containment. RSI has indicated that if only rainwater has been collected in the containment, it will be discharged as stormwater. If it is determined that any leachate has been collected in the containment, it will be pumped back into the tank and the source of leachate will be investigated.
- Fire suppression system installed on building roof. A separate Mechanical Room housing the fire suppression pumps is provided on the western side of the transfer building. A dedicated water storage tank for fire suppression is provided on site (see Photos 22, 32, 33, and 34).

## Stormwater Ponds

- The Permit Drawings require two (2) stormwater ponds to be located along the western boundary of the property and drain into the Tax Ditch. The ponds were incorporated into the Stormwater Management and Sediment Control Plan submitted to the Kent County Soil Conservation District.

## Fueling Island

- The Engineering Report requires a fueling island consisting of 1,000-gallon and 2,500-gallon capacity above-ground diesel fuel tanks along with secondary containment dikes.
- Not constructed at time of site walk. Planned for future construction.

## Site Security/Safety Measures

- The Engineering Report calls for a lockable gate and six (6) foot high fence around site facilities and buildings. A fence has been installed around the majority of the property. (See Photos 35, 36, 37 and 41). The only gap in the fence is the area where the regulated Tax Ditch leaves the property. We have been informed by RSI that security cameras will be installed that will add to site security and safety measures and also capture the small gap in the fencing. Landscape/screening berms have been installed around the northern, eastern and southern boundaries of the property (see Photos 4, 6, 35, and 41).

## Tarping Platform

- The Engineering Report calls for a tarping platform for the transfer trailers. RSI has indicated that in lieu of a tarping platform, transfer trailers will be tarped from the ground for safety concerns. Thus, a tarping station is not planned at this time.

## As-built Drawing

The Contractor (Cambridge Companies) has compiled an overall as-built drawing of the facility and its constructed features. A copy of this as-built drawing is provided in Attachment C.

## STATUS OF LOCAL APPROVALS

As the building and other features are currently being completed, various local approvals are required to allow operations of the facility for its intended use. Below is a current status on the remaining inspections and approval for completion of the facility.

### Kent County Soil Conservation District (SCD)

- Awaiting the building contractor to complete the gutters and downspouts so that grading can be completed around the building, and the area stabilized.
- Anticipated schedule on completion and Kent County SCD approval is the week of June 18, 2012.

### Kent County Fire Marshall

- Anticipated schedule for Fire Marshall approval of fire suppression system is the week of June 18, 2012.

### Kent County Building Inspection and County Planning

- Currently working on safety railings, etc.
- Anticipated schedule on completion and Kent County Building Inspection and County Planning approval is the week of June 18, 2012.

### DNREC Wastewater Operations Permit

- Septic System has been inspected and approved (See Attachment A).

## CONCLUSIONS

Based on the site inspection of Monday, June 4, 2012, it is the opinion of Golder that the facility has been constructed in substantial conformance with permit requirements with the noted exceptions and clarifications described herein. Golder was not present during construction of the facility, and, thus no certification of construction other than what is presented herein is suggested or inferred.

Should you have any questions regarding this letter report, please do not hesitate to call.

Very truly yours,

**GOLDER ASSOCIATES INC.**



Paul A. Whitty, P.E.  
Senior Consultant  
State of Delaware P.E. No. 13809



Julie Bochanski, P.E.  
Senior Project Geotechnical Engineer



cc: M. Kamp