



Florida Department of  
Environmental Protection  
Inspection Checklist

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**FACILITY INFORMATION:**

**Facility Name:** TOMOKA FARMS ROAD LANDFILL

**On-Site Inspection Start Date:** 08/10/2010

**On-Site Inspection End Date:** 08/10/2010

**WACS No.:** 27540

**Facility Street Address:** 1990 TOMOKA FARMS ROAD

**City:** DAYTONA BEACH

**County Name:** VOLUSIA

**Zip:** 32114

**INSPECTION PARTICIPANTS:**

(Include ALL Landfill and Department Personnel with Corresponding Titles)

**Principal Inspector:** Brad Whidden, Inspector

**Other Participants:** Gloria-Jean DePradine, Inspector; Allen Rainey, Inspector; Caroline Shine, Inspector; Chet Perves; Rick Wilson, P.E.; Sam Levin, P.E.; Carlo Lebron, P.E; Jennifer Stirk; Lenny Marion

**INSPECTION TYPE:**

Routine Operation Inspection for Landfill - Class I facility

Routine Operation Inspection for Landfill - Class III facility

Routine Operation Inspection for Other Facilities - Source-Separated Organics (SOPF) facility

Routine Long Term Care Inspection for Landfill - Class I Closed - Long Term Care facility

Routine Operation Inspection for Other Facility (user defined)

**ATTACHMENTS TO THE INSPECTION CHECK LIST:**

This Cover Page to the Inspection Checklist may include any or all of the following attachments as appropriate.

SECTION 1.0 - FILE REVIEW

SECTION 2.0 - LANDFILL OPERATION AND MAINTENANCE

SECTION 3.0 - LANDFILL - CLOSED

Inspection Date: 08/10/2010

**SECTION 1.0 - FILE REVIEW**

## Requirements:

The requirements listed in this section provide an opportunity for the Department's inspector to indicate the conditions found at the time of the inspection. A "Not Ok" response to a requirement indicates either a potential violation of the corresponding rule or an area of concern that requires more attention. Both potential violations and areas of concern are discussed further at the end of this inspection report.

Item No.	FILE REVIEW (Pre- or Post-Inspection, as appropriate.) Completed	Ok	Not Ok	Unk	N/A
1.1	For landfills and C&D disposal facilities, does the facility have a current plan for the method and sequence of filling wastes? 62-701.500(2)(f) for landfills; 62-701.730(7)(a) for C&D debris sites	✓			
1.2	For landfills, are the following records being reported to the Department?(Check any that are Not OK) <input type="checkbox"/> Waste reports (annually) 62-701.500(4) <input type="checkbox"/> Annual estimate of remaining life 62-701.500(13)(c)	✓			
1.3	Is leachate sampled, tested and disposed as required? 62-701.500(8)(a), 62-701.510(6)(c)	✓			
1.4	Is gas monitoring being performed as required by the permit? 62-701.500(9), 62-701.530(2)	✓			
1.5	Are the results of the gas sampling reported to the Department quarterly? 62-701.530(2)(c)	✓			
1.6	Is water quality sampling and testing performed according to standard procedures and at the required frequencies? 62-701.510(2) for landfills; 62-701.730(4)(b) and (10) for C&D debris sites; 62-713.400(3) for stationary soil treatment facilities.	✓			
1.7	Do the results of the water quality testing suggest there may be adverse impacts to water quality from the operation of the solid waste facility? 62-701.510(3) and (4); 62-701.730(4)(c) and (10) for C&D debris sites; 62-713.400(3) for stationary soil treatment facilities.			✓	
1.8	For closed landfills and C&D disposal facilities with final elevations higher than 20 feet above grade, has a final survey report verifying the final elevations and contours of the facility been submitted to the Department? 62-701.600(6)(b), 62-701.730(9)(d)	✓			
1.9	Is financial assurance adequate? 62-701.630 for landfills; 62-701.710(7)(a) and (10)(a) for waste processing facilities; 62-701.730(11)(a) for C&D debris facilities; 62-713.600(6)(a) for stationary soil treatment facilities; 62-711.500(3) for waste tire facilities. NOTE: The Solid Waste Financial Coordinator in Tallahassee can assist with this information.	✓			
1.10	Are cost estimates current and adjusted every year? 62-701.630(4) for landfills; 62-701.710(7)(b) and (10)(a) for waste processing facilities; 62-701.730(11)(b) and (c) for C&D debris facilities; 62-713.600(6)(b) and (c) for stationary soil treatment facilities; 62-711.500(3) for waste tire facilities.	✓			
1.11	For C&D debris disposal and disposal with recycling facilities, is an Annual Report submitted to the Department for the disposal operation by April 1st of each year? 62-701.730(12)				✓
1.12	For C&D recycling facilities with no disposal, is an Annual Report for the recycling facility submitted to the Department by April 1st of each year? 62-701.710(9)(b)				✓
1.13	For compost facilities, has the compost product been sampled and analyzed every 20,000 tons or every 3 months (whichever is sooner)? 62-709.530(1)				✓
1.14	For compost facilities, has the annual report been submitted by June 1st? 62-709.530(3)				✓

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**SECTION 2.0 - LANDFILL OPERATION AND MAINTENANCE**

## Requirements:

The requirements listed in this section provide an opportunity for the Department's inspector to indicate the conditions found at the time of the inspection. A "Not Ok" response to a requirement indicates either a potential violation of the corresponding rule or an area of concern that requires more attention. Both potential violations and areas of concern are discussed further at the end of this inspection report.

Item No.	SOLID WASTE PROHIBITIONS (unless "grandfathered" in, see 62-701.300(18)) Completed	Ok	Not Ok	Unk	N/A
2.1.1	Unauthorized storage, processing, or disposal of solid waste except as authorized at a permitted solid waste management facility or other exempt facility. 62-701.300(1)(a)	✓			
2.1.2	Unauthorized disposal or storage prohibited, except yard trash, within 500 feet of a potable water well? 62-701.300(2)(b)	✓			
2.2	Unauthorized storage or disposal of yard trash prohibited within the minimum setbacks of (Check any that are Not OK) 62-701.300(12) <input type="checkbox"/> 100 feet from potable water wells (except on-site)? <input type="checkbox"/> 50 feet from water bodies?	✓			
2.3	Unauthorized disposal or storage prohibited in any natural or artificial body of water including ground water and wetlands? (Does not apply to standing water after a storm event.) 62-701.300(2)(d)	✓			
2.4	Unauthorized disposal or storage prohibited, except yard trash, within 200 feet of any natural or artificial body of water, including wetlands without permanent leachate controls, except impoundments or conveyances which are part of an on-site, permitted stormwater management system or on-site water bodies with no off-site discharge? 62-701.300(2)(e)	✓			
2.5	Unauthorized open burning of solid waste prohibited except in accordance with Department requirements? 62-701.300(3)	✓			
2.6	Are the following unauthorized wastes or special wastes properly controlled, managed and disposed? (Check any that are Not OK) <input type="checkbox"/> Hazardous waste 62-701.300(4) <input type="checkbox"/> Biomedical waste 62-701.300(6) <input type="checkbox"/> Yard trash 62-701.300(8)(c) <input type="checkbox"/> Whole waste tires 62-701.300(8)(e) <input type="checkbox"/> Regulated asbestos waste 62-701.520(3), 62-701.730(19) <input type="checkbox"/> Used oil and oily wastes, except as exempted 62-701.300(11) <input type="checkbox"/> PCB wastes 62-701.300(5) <input type="checkbox"/> Lead-acid batteries 62-701.300(8)(a) <input type="checkbox"/> White goods 62-701.300(8)(d) <input type="checkbox"/> Liquids 62-701.300(10) <input type="checkbox"/> CCA treated wood 62-701.300(14)	✓			
2.7	Are only permitted waste types disposed at facility? 62-701.340(2), 62-701.500(6)(a), 62-701.500(2)(c)	✓			

Item No.	LANDFILL OPERATION AND MAINTENANCE Completed	Ok	Not Ok	Unk	N/A
2.8	Is there a trained operator on-site at Class I and III landfills when receiving wastes? 62-701.500(1)	✓			
2.9	Is there at least one trained spotter at each working face when receiving wastes at Class I and III landfills? 62-701.500(1)	✓			
2.10	Are the following records or plans current and available on-site? (Check any that are Not OK) <input type="checkbox"/> Training Plan 62-701.320(15)(a) <input type="checkbox"/> Operating Plan 62-701.500(2) <input type="checkbox"/> Waste weight records 62-701.500(4) <input type="checkbox"/> Precipitation records 62-701.500(8)(g)	✓			

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Item No.	LANDFILL OPERATION AND MAINTENANCE Completed	Ok	Not Ok	Unk	N/A
2.10	<input type="checkbox"/> Load-checking program records 62-701.500(6)(a) <input type="checkbox"/> Training records 62-701.320(15)(a) <input type="checkbox"/> Operation record 62-701.500(3) <input type="checkbox"/> Quantity of leachate 62-701.500(8)(f)	✓			
2.11	Is the operation plan substantially followed? 62-701.500(2)	✓			
2.12	Is incoming waste weighed? 62-701.500(4)(a) and (2)(d)	✓			
2.13	Is the method and sequence of filling waste according to plans? 62-701.500(2)(f)	✓			
2.14	Is access properly controlled to prevent unauthorized waste disposal? 62-701.500(5)	✓			
2.15	Is waste compacted as required? 62-701.500(7)(a)	✓			
2.16	Are the working face and side slopes above ground graded to a slope no greater than 3 feet horizontal to 1 foot vertical rise? 62-701.500(7)(c)	✓			
2.17	Is a narrow working face practiced? 62-701.500(7)(d)	✓			
2.18	Is the frequency, amount and quality of initial cover, as required? 62-701.500(7)(e)	✓			
2.19	Is the frequency, amount and quality of intermediate cover, as required? 62-701.500(7)(f)	✓			
2.20	Is litter controlled and are litter control devices maintained? 62-701.500(7)(i) and (11)(f)	✓			
2.21	Is erosion control adequate? 62-701.500(7)(j)	✓			
2.22	Is the leachate collection and removal system maintained and operated as required? 62-701.500(2)(j), 62-701.500(8)(b) and (h)	✓			
2.23	Is leachate disposed of or treated as required? 62-701.500(8)(b), (c) and (d)	✓			
2.24	If leachate recirculation is practiced at the facility, is it done in accordance with Department requirements and the Operation Plan? 62-701.400(5)				✓
2.25	Is gas controlled to not cause objectionable odors beyond the property boundary? 62-701.530(3)(b)	✓			
2.26	Is gas controlled to not allow combustible gas concentrations to exceed specified limits? 62-701.530(3)(a)	✓			
2.27	Are gas vents intact and functioning properly? 62-701.500(9), 62-701.530(1)(a)3	✓			
2.28	Is mixing of leachate and stormwater prevented or minimized? 62-701.500(10), 62-701.400(9)(c)	✓			
2.29	Is stormwater management system maintained and operated as required? 62-701.500(10)	✓			
2.30	Is there sufficient operating equipment? 62-701.500(11)(a)	✓			
2.31	Is there sufficient reserve equipment (or other arrangements)? 62-701.500(11)(b)	✓			
2.32	Are communication facilities adequate? 62-701.500(11)(c)	✓			
2.33	Are approved dust control methods adequate? 62-701.500(11)(d)	✓			
2.34	Are fire protection and fire fighting capabilities adequate and operational? 62-701.500(11)(e)	✓			
2.35	Are there required signs for operational directions and public information? 62-701.500(11)(g)	✓			
2.36	Are all-weather access roads and inside perimeter roads properly maintained? 62-701.500(12)	✓			
2.37	Are ground water wells intact and properly maintained? 62-701.510(2)(b), 62-701.620(8)	✓			
2.38	Are all additional specific conditions (not otherwise addressed above) in the permit, Department order, or certification, if any, being followed? 62-701.320(1), 403.161, F.S.	✓			

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**SECTION 3.0 - LANDFILL - CLOSED**

## Requirements:

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Type of Cover: Geosynthetic Cap

Closure/Final Cover Date: 12/17/2003

Post-Closure Utilization: None

Surrounding Land Use: Existing Landfill

Date Long-Term Care Began: 12/17/2003

Item No.	LANDFILL - CLOSED Completed	Ok	Not Ok	Unk	N/A
3.1	Is site access controlled to prevent any unauthorized dumping? 62-701.600(3)(i)	✓			
3.2	Are any unauthorized wastes stored or disposed at the site? 62-701.600(3)(i)	✓			
3.3	Is stormwater management system maintained and operated as required? 62-701.600(3)(h)	✓			
3.4	Is the final cover properly vegetated? 62-701.600(3)(f)2	✓			
3.5	Are there any signs of erosion of the final cover? 62-701.620(1)	✓			
3.6	Is there any evidence of damage to the barrier layer of the final cover? 62-701.620(1)	✓			
3.7	Are areas of differential settlement being properly filled? 62-701.600(3)(f)4	✓			
3.8	Are there any areas of ponding water on the final cover? 62-701.600(3)(f)3	✓			
3.9	Is the leachate collection and removal system maintained and operated as required? 62-701.500(2)(j), 62-701.500(8)(b) and (h)	✓			
3.10	Is leachate disposed of or treated as required? 62-701.500(8)(b), (c) and (d)	✓			
3.11	Are there any signs of leachate seeps at the closed landfill? 62-701.500(8)(b), 62-701.620(1)	✓			
3.12	Condition of the ground water monitoring wells in accordance with the ground water monitoring plan. 62-701.620(1) (Check any that are Not OK) <input type="checkbox"/> Access to monitoring wells <input type="checkbox"/> Damage to monitoring wells <input type="checkbox"/> Monitoring wells protected, secured and labeled.	✓			
3.13	Are the wells for gas monitoring and detection intact and operable? 62-701.620(5)	✓			
3.14	Is the gas collection system (active or passive) operating and maintained? 62-701.620(5) <input type="checkbox"/> Signs of stressed vegetation <input type="checkbox"/> Odors or foul smells	✓			
3.15	Is gas monitoring being conducted as required? 62-701.620(5)	✓			
3.16	Is there any evidence that gas pressure is interfering with or causing failure of the final cover? 62-701.530(1)(a)4	✓			
3.17	If required, are survey monuments properly installed? 62-701.600(6)	✓			
3.18	Is there a potential hazard to public health and the environment resulting from the post-closure utilization of the solid waste disposal facilities or surrounding land-use changes? 62-701.610(1)	✓			
3.19	If waste is being relocated, is this performed according to the Department's requirements? 62-701.610(2)				✓
3.20	Are all additional specific conditions (not otherwise addressed above) in the closure or permit for long-term care, Department order, or certification, if any, being followed? 62-701.620(2), 403.161, F.S.	✓			

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Item No.	LANDFILL - CLOSED Completed	Ok	Not Ok	Unk	N/A
3.20		✓			

**COMMENTS:**

08/10/2010

Class I landfill:

The working face is now located on the upper south side slopes near the surface. The facility plans to be in this area until the disposal area meets the level of the adjacent top tier of the landfill. There were a few waste tires observed in the working face. Intermediate cover was applied on the surface in the areas of previous disposal. Jennifer Stirk said this took place around early June.

The previous disposal area was on the south side slopes in the area of the old haul road. This area now has intermediate cover in place. There were no leachate seepage areas seen on the slopes. A small seepage area at the toe of the slope was addressed shortly after the last inspection. Jennifer Stirk said that no seepage has occurred since. The facility has completed disposal on the areas of the south side slopes in and around the former haul road and intermediate cover is in place. Lenny Marion said that the horizontal limit on these side slopes has been reached.

There was a fair amount of blown litter concentrated on the west side slopes and surface areas. Laborers were picking up litter during the inspection. Heavy winds were present throughout the inspection.

The landfill Gas Collection System Phase IIC was inspected accompanied by C. Lebron (HDR). The expansion included the removal and installation of 7 vertical gas extraction wells. (EW-10R, 12R, 13R, 14R, 15R, 16R and 17R). Also, horizontal well piping on the southern side slope was retrofitted to allow continued monitoring while filling activities continue in this area. Detailed information regarding the construction of the system is provided in "Landfill Gas Collection System Expansion Certification Report" submitted by HDR dated May 12, 2010.

Class III landfill and Source Separated Organics area:

The processed and unprocessed yard trash areas have been moved south along the class III surface. The facility has multiple rows of unprocessed yard trash and a drop-off area. The Class III working face is also further south along the surface and east side slopes.

Closed Class I:

Jennifer Stirk noticed a small erosion area during a post storm event inspection at the beginning of August. This area is near the bottom of the north side slopes and has since been filled in.

Leachate Treatment Plant [user defined inspection]:

The facility's leachate treatment plant was inspected in conjunction with the DEP air program. The plant was constructed as an in-kind project established under Department Consent Order OGC #-07-2701 (issued by DEP air program). The plant is currently processing around 10,000 gallons of leachate per day, with an expected capacity of 45,000 gallons per day. The peak capacity is estimated to be 90,000 gallons per day.

Leachate is pumped from the landfill (North Cell) directly into the treatment plant. The facility's lined leachate ponds are used as storage for treated effluent (south pond) and untreated effluent (north pond). The north pond is also used as leachate storage when the plant is not operational.

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An overflow float valve is in place which will automatically divert untreated leachate into the north pond if the level gets too high. This valve can be opened manually and remotely from the facility office.

The chlorinated effluent tank has a screen in place over the surface for bird control. An overflow pipe directs treated effluent into the south pond in case of overflow. Pumps direct treated effluent to the facility's spray field and to a water truck dispenser for dust control as needed.

Rick Wilson stated that the seeded microorganisms need time to acclimatize to the process of leachate treatment. Methanol is added to the sequencing batch reactor (SBR) to enhance the denitrifying bacteria. Currently, there is no sludge being produced. Rick Wilson expects little sludge to be produced when the plant is at the expected capacity. Sludge will be disposed of in the class I landfill.

**ATTACHMENTS:**

Class I Overview



Class I Working Face



Backfilled ditch on E side



Unprocessed Yard Trash



Inspection Date: 08/10/2010

Class III working face



Leachate aeration tank



Chlorinated Effluent Tank





Inspection Date: 08/10/2010

**Signed:**

Brad Whidden  
\_\_\_\_\_  
**PRINCIPAL INSPECTOR NAME**

Inspector  
\_\_\_\_\_  
**PRINCIPAL INSPECTOR TITLE**

*Brad Whidden*  
\_\_\_\_\_  
**PRINCIPAL INSPECTOR SIGNATURE**

FDEP  
\_\_\_\_\_  
**ORGANIZATION**

8/10/2010  
\_\_\_\_\_  
**DATE**

Gloria-Jean DePradine  
\_\_\_\_\_  
**INSPECTOR NAME**

Inspector  
\_\_\_\_\_  
**INSPECTOR TITLE**

NO SIGNATURE  
\_\_\_\_\_  
**INSPECTOR SIGNATURE**

FDEP  
\_\_\_\_\_  
**ORGANIZATION**

Allen Rainey  
\_\_\_\_\_  
**INSPECTOR NAME**

Inspector  
\_\_\_\_\_  
**INSPECTOR TITLE**

NO SIGNATURE  
\_\_\_\_\_  
**INSPECTOR SIGNATURE**

FDEP Air Program  
\_\_\_\_\_  
**ORGANIZATION**

Caroline Shine  
\_\_\_\_\_  
**INSPECTOR NAME**

Inspector  
\_\_\_\_\_  
**INSPECTOR TITLE**

NO SIGNATURE  
\_\_\_\_\_  
**INSPECTOR SIGNATURE**

FDEP Air Program  
\_\_\_\_\_  
**ORGANIZATION**

Chet Perves  
\_\_\_\_\_  
**REPRESENTATIVE NAME**

NO SIGNATURE  
\_\_\_\_\_  
**REPRESENTATIVE SIGNATURE**

Volusia County  
\_\_\_\_\_  
**ORGANIZATION**

Rick Wilson  
\_\_\_\_\_  
**REPRESENTATIVE NAME**

P.E.  
\_\_\_\_\_  
**REPRESENTATIVE TITLE**

NO SIGNATURE  
\_\_\_\_\_  
**REPRESENTATIVE SIGNATURE**

Volusia County  
\_\_\_\_\_  
**ORGANIZATION**

Inspection Date: 08/10/2010

Sam Levin  
 \_\_\_\_\_  
**REPRESENTATIVE NAME**

P.E.  
 \_\_\_\_\_  
**REPRESENTATIVE TITLE**

NO SIGNATURE  
 \_\_\_\_\_  
**REPRESENTATIVE SIGNATURE**

S2Li  
 \_\_\_\_\_  
**ORGANIZATION**

Carlo Lebron  
 \_\_\_\_\_  
**REPRESENTATIVE NAME**

P.E  
 \_\_\_\_\_  
**REPRESENTATIVE TITLE**

NO SIGNATURE  
 \_\_\_\_\_  
**REPRESENTATIVE SIGNATURE**

HDR Engineering  
 \_\_\_\_\_  
**ORGANIZATION**

Jennifer Stirk  
 \_\_\_\_\_  
**REPRESENTATIVE NAME**

NO SIGNATURE  
 \_\_\_\_\_  
**REPRESENTATIVE SIGNATURE**

Volusia County  
 \_\_\_\_\_  
**ORGANIZATION**

Lenny Marion  
 \_\_\_\_\_  
**REPRESENTATIVE NAME**

NO SIGNATURE  
 \_\_\_\_\_  
**REPRESENTATIVE SIGNATURE**

Volusia County  
 \_\_\_\_\_  
**ORGANIZATION**

NOTE: By signing this document, the Site Representative only acknowledges receipt of this Inspection Report and is not admitting to the accuracy of any of the items identified by the Department as "Not Ok" or areas of concern.