

Solid waste compliance

8.4 REGULATORY INSPECTION SUMMARY

Date: 10/14/08
To: (Plant Mgr.) Ronald C. Hall
From: Linda Campbell

Regulatory Inspection Summary

- 1. Facility Inspected Kingston Fossil Plant
- 2. Date of Inspection & duration 10/14/08 - 1.5 hours
- 3. Purpose of Inspection (routine compliance, NOV follow-up, permit renewal)
Check progress on Clay Liner of Gypsum Pond
- 4. Media covered during inspection Solid Waste – New Gypsum Pond Area.
- 5. Name of Inspector & Agency Rick Brown - TDEC
- 6. Facility personnel participating or contacted during inspection D.J. McJunkin & Linda Campbell

7. Observations or problem identified by inspector
No problems. **NOTES from inspection form:** "A very large area of soil is being placed and compacted at a time. They are doing one lift over the entire approved lift. This results in a very large area to keep watered. Usually one lift is placed over another if the moisture density passed, and failed areas, if any, are reworked at the end. The way they are doing it should work, but a lot of watering and haul trips with the water truck will be needed."

8. Samples collected No

9. Records Reviewed No

10. Deficiencies None

Submitted by: Linda Campbell

cc: Mgr., ENV. AFF. (Sharon Figgures)
EDMS, Anda Ray

NOTE: This summary is to be provided to the facility manager and faxed or e-mailed to ENV AFF (751-7011) by the close of business on the day following the inspection. (See Section 6.2.6)



DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF SOLID WASTE MANAGEMENT

- PURPOSE**
- Clay liner installation
 - FML Synthetic liner
 - Drainage layer construction

INSPECTION CHECKLIST

- Interim Final

Name of Site <i>TVA Knoxville Land System Landfill</i>		Registration Number <i>101 73 974</i>	
Location <i>TVA Knoxville Land System Landfill</i>		Type of facility <input type="checkbox"/> Class I <input type="checkbox"/> Class II	
Owner/Operator <i>Tennessee Valley Authority</i>		<input type="checkbox"/> Other (explain) _____	
Inspection Date <i>2-16-98</i>	Time Inspection Began <i>2:26 PM</i>	Time Inspection Completed <i>3:00 P.M.</i>	Weather Conditions and Temperature <i>SUNNY, 80S</i>

CLAY LINER			FML SYNTHETIC LINER		
	Yes	No		Yes	No
Borrow Material			Material		
- Are rocks larger than 2 inches present?	<i>Only a few</i>	<input checked="" type="checkbox"/>	- Has liner been damaged during storage?	<input type="checkbox"/>	<input type="checkbox"/>
- Are any roots or debris present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	- Is FML proper thickness and type?	<input type="checkbox"/>	<input type="checkbox"/>
- Are borrow materials being field tested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Installation		
- Is the soil cohesive?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Is clay surface smooth and free of rocks?	<input type="checkbox"/>	<input type="checkbox"/>
Placement			- Is earth moving equipment kept off liner?	<input type="checkbox"/>	<input type="checkbox"/>
- Is subgrade (previous lift) scarified prior to placement?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	- Is QA manager on site?	<input type="checkbox"/>	<input type="checkbox"/>
- Is subgrade drying out?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	- Are seam surfaces clean and free of dirt?	<input type="checkbox"/>	<input type="checkbox"/>
- Are CQA personnel on site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Are liner anchors in conformance with design?	<input type="checkbox"/>	<input type="checkbox"/>
- Are loose lifts of proper thickness?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Is liner weighted against wind?	<input type="checkbox"/>	<input type="checkbox"/>
- Is a water truck on site to protect the liner from desiccation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Testing		
Compaction			- Have all seams been tested (or being tested)?	<input type="checkbox"/>	<input type="checkbox"/>
- Is compacted liner being field tested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Are destructive tests being performed?	<input type="checkbox"/>	<input type="checkbox"/>
- Do number of passes conform to plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Are nondestructive tests being performed?	<input type="checkbox"/>	<input type="checkbox"/>
- Is equipment on site appropriate for construction of liner?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Surface Finishing			DRAINAGE LAYER		
- Is the final lift smooth enough for placement of the geomembrane?	<i>N/A</i>	<input type="checkbox"/>	Material		
Protection			- Has geotextile been installed to protect FML (if necessary)?	<input type="checkbox"/>	<input type="checkbox"/>
- Is the liner being protected from desiccation and freezing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Is the FML exposed?	<input type="checkbox"/>	<input type="checkbox"/>
Final Grading			- Is drainage material free of dirt?	<input type="checkbox"/>	<input type="checkbox"/>
- Has liner been surveyed to check grade and thickness?	<i>N/A</i>	<input type="checkbox"/>	- Has (sand/aggregate) drainage material passed the minimum permeability specification?	<input type="checkbox"/>	<input type="checkbox"/>
			Placement Method		
			- Does placement method protect FML?	<input type="checkbox"/>	<input type="checkbox"/>
			- Is QA manager on site?	<input type="checkbox"/>	<input type="checkbox"/>
			- Have leachate trenches been installed according to plans?	<input type="checkbox"/>	<input type="checkbox"/>
			Geotextile		
			- Does geotextile meet the requirements outlined in the plans?	<input type="checkbox"/>	<input type="checkbox"/>
			Pipe		
			- Does pipe meet the size and thickness requirements specified in the design plans/drawings?	<input type="checkbox"/>	<input type="checkbox"/>
			Sumps		
			- Do sump location, configuration and construction materials conform to the approved plans?	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS: *A very large area of soil is being removed and compacted... some soil was left over... the water truck will be needed...*

PERSON INTERVIEWED: *[Signature]* (Signature) *[Title]* (Title)
 INSPECTED BY: *[Signature]* (Signature) *[Title]* (Title)