



STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
RICHARD A. LEOPOLD, DIRECTOR

September 26, 2011

Steve Thomas
Mahaska County Sanitary Landfill
2979 Highway 63
Oskaloosa, IA 52577

RE: Air Quality Inspection
Mahaska County Sanitary Landfill, 2979 Highway 63, Oskaloosa, IA
Facility No. 62-01-043

Dear Mr. Thomas:

Enclosed is the report completed by Bill Gross of the Field Office #5 staff following the inspection of your facility in Mahaska County.

The report should be self-explanatory. Please take note of the reminder listed near the end.

As a reminder, unless otherwise exempted, you are required to obtain a construction permit prior to the installation or alteration of equipment or control equipment that has the potential to emit pollutants to the atmosphere. For information and assistance with air construction permitting issues, contact the IDNR Air Quality Bureau construction permitting hotline at 877-247-4692.

You may contact Bill Gross (515-725-0271; bill.gross@dnr.iowa.gov) or this office with any questions or comments. Thank you for your assistance during this inspection.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ted Petersen".

Ted Petersen
Supervisor, Field Office #5

c: Dennis Thielen, Bryan Bunton, Michelle Kochheiser - DNR Air Quality Bureau (w/encl. via email)



**IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL SERVICES DIVISION
AIR QUALITY COMPLIANCE INSPECTION
FIELD OFFICE # 5**

FACILITY # 62-01-043

Operating Permit # NA

1. **Company Name:** Mahaska County Sanitary Landfill
 2. **Company Address:** 2979 Highway 63, Oskaloosa, IA 52577
 3. **Plant Address:** 2979 Highway 63, Oskaloosa, IA
 4. **Process and/or Product Type:** municipal solid waste disposal

5. Check Pollutant(s), Air Program Code(s), State Pollutant/Classification(s) as a total plant as they correspond with each other:

Pollutant(s)	NSPS	PSD	NESHAP	(Title V status)			violation
				Major	Synth. Minor	Minor	
VOC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NO _x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SO _x	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PM ₁₀	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RECORDS/PERMIT CONDITIONS/PERMITTING				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>


VISIT NUMBER: 1

6. **Inspection Type:** Routine
 7. **Inspection Date:** 9/9/11
 8. **Time Arrive:** 1:30 PM
 9. **Wind Speed & Direction:** 10 mph, north
 10. **Weather Conditions:** Partly Cloudy, 80°F.
 11. **Inspection Status:** Full
 12. **Time Depart:** 3:30 PM

13. **Persons Contacted:** Steve Thomas, manager

Phone: 641-673-9266

14. **Inspector:**  **Date:** 9/23/11
 Bill Gross

15. **Reviewer:**  **Date:** 9/26/11
 Ted Petersen

IOWA DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL SERVICES DIVISION, AIR QUALITY COMPLIANCE INSPECTION

Company Name: Mahaska County Sanitary Landfill Facility # 62-01-043 Operating Permit # NA

ID #	Emission Unit/Point Description & Location	INS T A D L L A T I O N	PER M I T	Applicable Regulations	CEQ Title	Maximum Capacity or Operating Limits	Actual Operating Condition (Process Input Rate)	OPERATING	OSCHERATING	CEQUMENT	OM	OPACITY %	OPERATING	RECEP	COMMENTS	IN DATE
1/1	Municipal Landfill	2	3	23.1(2)rr (Subpart WWW); 23.3(2)a,d	code 6	7	8	9	10	11	12	13	14	15	16	9/9/11
2/2	West Landfill Gas Flare [stack: 16', 6" dia., vert. unobst.]	2010	11-A-450	23.3(2)a,d; 23.3(3)e	A (CE1)	10/40% opacity auto. ignition	not operating; stack ok	as needed	ok	ok	ok	ok	ok	ok	x	
3/3	East Landfill Gas Flare [stack: 16', 6" dia., vert. unobst.]	2010	11-A-451	23.3(2)a,d; 23.3(3)e	A (CE2)	10/40% opacity auto. ignition	operating; stack ok	as needed	ok	ok	ok	ok	ok	ok	x	9/9/11
<p>Control Equipment Code</p> <p>0 - Unknown 1 - Not in Compliance 2 - In Compliance - Test 3 - In Compliance - Insp.</p> <p>Compliance Status 5 - On ERP Schedule 6 - Not on ERP Schedule 9 - In Compliance (Closed)</p> <p>BF - Bag Filter EP - Electrostatic Precip. CY - Cyclone A - Afterburner</p> <p>MC - Multiclone CR - Cone Roof FX - Fixed Roof IFR - Internal Floating Roof</p> <p>SC - Scrubber VS - Venturi Scrubber PBS - Packed Bed Scrubber PCS - Packed Column Scrubber</p> <p>WW - Waterwall DF - Dry Filter O - Other N - No Control</p>																

COMMENTS

This is the first DNR air quality inspection of this facility, though solid waste inspections are done routinely.

1/1: The DNR Air Quality Bureau must be contacted when the existing and planned (new cells) waste volume exceeds 925,493 tons. Waste tonnage records were being maintained (waste is weighed upon arrival).

2/2 & 3/3: The flare stacks are identical and are located on the north slope of the filled area. Solar panels power continuous sparking units which ignite landfill gasses venting through the stacks. Mr. Thomas reported that the flares are inspected quarterly by Terracon staff. At the time of my inspection, only the east flare had enough gas venting to sustain a flame.

Reminder:

Contact the DNR Air Quality Bureau when the existing and planned (new cells) waste volume exceeds 925,493 tons

Mahaska County Sanitary Landfill



east flare



west flare