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**TURKLE - CLARK  
ENVIRONMENTAL  
CONSULTING, L.C.**

October 2, 2002

Jeff Simmons  
IDNR-Solid Waste Permits  
5th Floor, Wallace Bldg.  
Des Moines, IA 50319

RECEIVED OCT 2 0 2002

RE: Guthrie County Sanitary Landfill  
Fall 2002 Semi-Annual Inspection  
Permit #39-SDP-1-73C

Dear Jeff,

The routine fall 2002 semi-annual inspection of the Guthrie County Landfill was completed on September 3, 2002. Present were Marilyn Wolfe (gate attendant), Dick Stone (operator) and Cindy Turkle (TEC). Ms. Marilyn Wolfe is a certified landfill operators. Mr. Stone recently was hired full time to replace Mr. Soll who retired this summer. Mr. Stone had previously worked part time at the landfill/transfer station. Weather conditions were clear, warm, and dry, with winds S 0-5 MPH.

During the fall of 1997, Guthrie County completed the construction of a solid waste transfer station and on November 10, 1997, began transferring most of the waste generated in the planning area to the Carroll County Landfill. Construction and demolition waste was used to finish off the final portions of the landfill until it reached approved elevations during July of 2000. At that time, closure activities were initiated. During the fall of 2000, final cover was placed over the final portions of the site. Repairs and seeding of the area were completed during spring 2001. The site was surveyed and the additional closure documents submitted to the IDNR on November 28, 2001 for final approval. On September 12, 2002, the IDNR issued a closure permit for this landfill.

All waste from the Guthrie County service area is deposited in the transfer building where it is transferred to the Carroll County Landfill. Special wastes or large loads of construction and demolition waste are direct hauled to Carroll County. Recyclables are also transported to the Carroll County Recycling Center in Carroll for processing and marketing.

The recently received closure permit was issued September 12, 2002 and expires September 12, 2032. A renewed transfer station permit was issued February 20, 2002 and expires August 29, 2003. The following summarizes the provisions of the Guthrie County Landfill closure permit and describes the current status of the landfill operations. This report also serves as the **Annual Methane Gas Evaluation Report** as described in Special Provisions #4.



## **PERMIT PROVISION STATUS**

### **General Provisions**

1. MHF Engineering from Jefferson surveyed the site in October 2001. A final elevation topographic map was prepared and submitted to IDNR with the closure documents. The surveyors also completed a property survey that has also been provided to IDNR. A notation of the site's location has been filed with the Guthrie County Recorder. The maps indicate the separation of the landfill from the transfer station and recycling activities.
2. Semi-annual inspections are being conducted as required.

### **Special Provisions**

1. The site is inspected at least monthly by staff. Diversion and drainage systems are checked and when necessary routine maintenance performed. Some erosion has occurred on the east slope. However, it was difficult to determine the extent because of the sunflower/weed growth. Ms. Wolfe has already scheduled a farmer to conduct mowing of the site. Once the mowing is completed, the east terrace may need some rock check dams or similar erosion control structures to reduce the velocity of the surface water as it travels to the terrace intakes. Any erosion should be repaired as soon as possible to prevent it from becoming worse.

Most of the area has developed good vegetative growth, but several small areas need to be fertilized and reseeded to establish better vegetation. Previously, chicken litter/manure from a local hatchery has been applied and significantly helped establish vegetation. Ms. Wolfe intends to contact the hatchery for the application of additional manure following the mowing of the site.

2. As required in the permit, a fence separating the transfer station and the closed landfill has been installed and is adequate to control unauthorized entry. Locks still need to be installed on the gates.
3. Groundwater well levels and leachate piezometer levels are measured quarterly. The Annual Water Quality Report is being submitted by January 31 of each year.
4. **Annual Methane Gas Evaluation Report** Methane gas monitoring is being conducted by Landfill staff and as detailed in the site's Methane Gas Monitoring Plan. Since the last Evaluation Report, quarterly testing was conducted on January 11, 2002, May 7, 2002, and August 1, 2002. The fall 2002 monitoring has not been conducted yet. The fall 2001 monitoring was conducted October 10, 2001. No methane gas was detected during any of the sampling locations during any of these sampling events. Copies of this past year's results are included with this document. No evidence of stressed vegetation was observed or reported during any inspections. Only the continued sampling as required in the permit is recommended at this time.

5. The required financial assurance documents were submitted to IDNR March 28, 2002. At this time IDNR has not reviewed or commented on the submitted information.
6. Leachate control continues not to be required at this time. A groundwater quality assessment plan has not been required by IDNR.
7. The ERRAP submitted in December 2001 was approved by IDNR and continues to be applicable for this site.

Except as noted above, this landfill is in compliance with its closure permit and the IDNR regulations. If you have questions regarding this report, please call.

Respectfully submitted,



Cindy Turkle  
Senior Environmental Professional

#### CERTIFICATION

I hereby certify that this Report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under the laws of the State of Iowa, and that I am competent to prepare this document.

REVIEWING ENGINEER: Rick Gaejer

DATE: 10/18/02

IOWA REGISTRATION NO.: 8580

EXPIRATION DATE: 12/31/02

cc Steve Patterson  
Marilyn Wolfe  
IDNR Field Office #4

Enclosures

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GUTHRIE COUNTY LANDFILL

Comments Dry

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