

Con 12-1-1 Doc # 81300

September 26, 2014

Mr. Mick Leat lowa Department of Natural Resources Land Quality Bureau Wallace State Office Building 502 East 9th Street Des Moines, Iowa 50319-0034

Re:

Fall 2014 Semi-Annual Inspection Report

Clinton County Sanitary Landfill (West Site)

Permit No. 23-SDP-02-74C Project No. CCASW 15001

Dear Mick:

This brief report documents the semi-annual inspection required by the facility's lowa Department of Natural Resources Sanitary Disposal Project Permit and the Iowa Administrative Code. The semi-annual inspection was made to evaluate the site's general conformance with the permit and the approved plans and specifications.

If you have any questions regarding this report, please contact us at (515) 256-8814.

Sincerely,

BARKER LEMAR ENGINEERING CONSULTANTS

C.J. Lage / / Project Manager

Copies: Addressee

Brad Seward, CCASWA

Brock Swan, Progress Contracts

File

Electronic File

M:\CCASW\15001\Documents\Task 20 - Semi-annual Landfill Engineering Inspection - West Site\Documents\CCASW W 2014 Fall Inspect CL.doc

Brian L. Rath, P.E. Project Manager

Site Inspection Report Fall 2014

Clinton County Sanitary Landfill (West Site) Welton, Iowa Permit No. 23-SDP-02-74C Project No. CCASW 15001

Prepared For:

Clinton County Area Solid Waste Agency

Prepared By:

BARKER LEMAR ENGINEERING CONSULTANTS

1801 Industrial Circle West Des Moines, Iowa 50265 Phone: (515) 256-8814

Fax: (515) 256-0152

BRIAN L RATH 14659	hereby certify that this engineering document was prepared lirect personal supervision and that I am a duly licensed Prender the laws of the State of lowa. Brian L. Rath, P.E. License No. 14659 My license renewal date is December 31, 2014 Pages or sheets covered by this seal: Entire document.	
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1.0 Introduction

The facility was inspected on September 11, 2014. This landfill has been closed since September 24, 1992. The facility appeared to be in general conformance with the items listed in the General Provisions and Special Provisions sections of the Closure Permit. Figure 1 (attached) is a sitemap of the facility. Photos taken during the inspection are attached (see Figures 2a and 2b). A copy of the observation checklist used during the inspection is included in Attachment A. Items relating to observed conditions and non-compliance items are discussed below.

Brad Seward, Director of Operations and Education, was present during the inspection.

2.0 Observed Conditions

The following summarizes the maintenance activities or observations made during the site visit:

- The gate was locked and chained and a sign was posted noting the facility and contact information.
- The vegetation was noted to be well established.
- Stormwater ponding was not observed during the inspection.
- The site was recently mowed (see Figures 2a and 2b). To maintain vegetation integrity
 on the landfill cap it is recommended that the Agency continue to perform periodic
 mowing to better observe potential erosion and leachate seeps as well to reduce growth
 of saplings and noxious weeds.

3.0 Non-Conformance with Permit Conditions

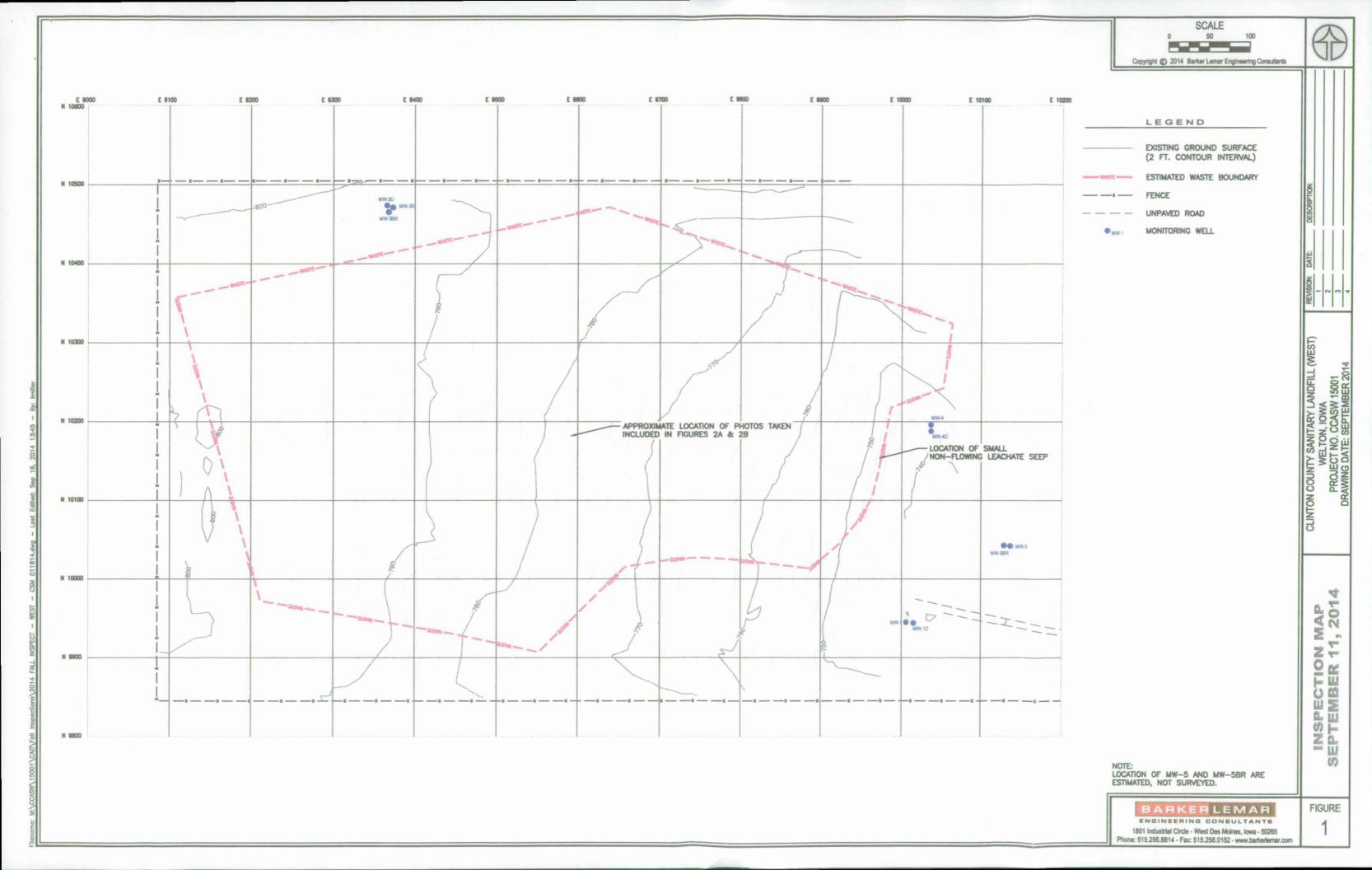
A small non-flowing leachate seep was observed during the inspection at the location shown on the attached Figure 1. This was likely the same seep as noted in the Spring 2014 Inspection Report as that seep had not yet been repaired. This was discussed with the Director who indicated it would be repaired this fall.

No other items of non-conformance with the permit conditions were noted.

4.0 General Comments

The observations presented in this report were based upon data obtained from the field observations made at the site, interviews with the site operator, and from information sources discussed in this report. This report provides a snap-shot in time of the conditions present at the time of the inspection and does not reflect variations in operating conditions that may occur throughout the year.

BARKER LEMAR has prepared this report for the exclusive use of our client. This report is meant for the specific application discussed and has been prepared in accordance with generally accepted engineering practices. No warranties, either express or implied, are intended or made.



			9 × 9

Photo No.

Date:

1

9/11/14

Direction Photo Taken: Facing west.

Photo Taken By: C.J. Lage.

Description: Clinton County Sanitary Landfill (West Site).



Photo No.

Date:

2

9/11/14

Direction Photo Taken: Facing east.

Photo Taken By: C.J. Lage.

Description: Clinton County Sanitary Landfill (West Site).



PHOTO DOCUMENTATION
CLINTON COUNTY SANITARY LANDFILL (WEST SITE)
CLINTON, IOWA
PROJECT NO. CCASW 15001

BARKER LEMAR

FIGURE 2a

		*

Photo No.

Date:

1

9/11/14

Direction Photo Taken: Facing north.

Photo Taken By: C.J. Lage.

Description: Clinton County Sanitary Landfill (West Site).



Photo No.

Date:

2

9/11/14

Direction Photo Taken: Facing south.

Photo Taken By: C.J. Lage.

Description: Clinton County Sanitary Landfill (West Site).



PHOTO DOCUMENTATION
CLINTON COUNTY SANITARY LANDFILL (WEST SITE)
CLINTON, IOWA
PROJECT NO. CCASW 15001

BARKERLEMAR

FIGURE 2b

ATTACHMENT A OBSERVATION CHECKLIST

SOLID WASTE LANDFILLS OBSERVATION CHECKLIST

	FACILITY INF	ORMATION				
-	Facility:	Clinton County Landfill (West) - Close	d	<u> </u>	Permit No.:	23-SDP-02-74C
	Location:	Welton, Iowa			Permit Issued:	September 24, 1992
	Type:	Sanitary Disposal Project			Permit Expires:	September 24, 2022
	туре.	Samtary Disposar Floject			r crimit Expires.	eoptombol 2 ij 2022
_				· · · · · · · · · · · · · · · · · · ·		
	INSPECTION	INFORMATION		·	<u> </u>	
	Operator:	NA			Inspector:	C.J. Lage
	Other Personnel:	Brad Seward, Director of Operations; E	Brock Swan, Contract Opera	ator	Engineer:	Brian L. Rath, P.E.
	Date:	September 11, 2014			_	
	Date.	September 11, 2014				
	WEATHER CO	ONDITIONS	10 to 12 to 13		<u>: </u>	
	Wind:	north @ 8 mph			Temperature:	52 degrees F.
	Other:	cloudy				
		REMENTS AND OPERATING P			Yes No	Comments
1)		ification, phone number, hours and days	s open, and categories of wa	aste		NA
21		d on a sign at the landfill entrance?	l rangir?			NA
		ce gate and all perimeter fences in good e being maintained?	repair		<u>x</u>	NA
	Are daily records I	.				NA .
,	•	• ,			NA	
5) Is a copy of the operating permit on file at the landfill office?6) Is there a copy of the landfill plans and specifications on file at the landfill office?						NA
7) Is the entrance road into landfill in good condition?						NA
8)	8) Is an all weather area available for adverse conditions?					NA
9)	9) Is solid waste being unloaded in the proper locations in accordance with the plans?					NA
10)	0) Is solid waste being spread and compacted properly?					NA
	•	g provided as required?				NA .
		d final cover being provided as required	?		<u>×</u> —	NIA .
		being maintained according to plans?	Aine ealideete ee eeu the .	-12		NA NA
	Are excavation elevations being maintained prior to accepting solid waste as per the plans? Have any sand pockets or major sand seams been encountered during excavation?			pians?		NA NA
	(5) Have any sand pockets or major sand seams been encountered during excavation? (6) Have current work areas been properly staked according to plans?					NA .
	16) Have current work areas been properly staked according to plans? 17) Is all required equipment available at the landfill site?					NA
,	17) Is all required equipment available at the landfill site? 18) Is operational equipment in good repair and operating in good repair?					NA
-	ls back-up equipm		•			NA
20)	Is litter being conti	rolled properly?				NA
21)	Are litter fences in	place and being used?				NA
22)	Has topsoil been p	placed on completed portions of the land	Ifill?		<u>x</u>	
	•	reas been properly graded and seeded	- · · · · · · · · · · · · · · · · · · ·	ons?	<u>x</u>	
		eas of the landfill showing adequate grov	=		<u>×</u> —	
•	ū	osion control being maintained on comp			<u>x</u>	See Section 3.0
•		of leachate on the surface in completed ate flows leaving the landfill site?	areas of the landing			Oce Decilon 5.5
-	-	of landfill gas problems?			<u>x</u>	
	Is there evidence	- ·				
,		of rodents or insects as a result of impro	per landfilling operations?		x	
31)	Does the landfill a	ccept demolition and construction waste	es in a separate location?			NA
32)	Are demolition and	d construction wastes being properly dis	posed of?			NA
33)	33) Are sanitary facilities available at the landfill site?					NA
		ailable at the landfill?				NA
35)	Is fire control avail	able at the landfill site?			NA	

SOLID WASTE LANDFILLS OBSERVATION CHECKLIST

B. HYDROGEOLOGICAL MONITORING SYSTEM PLAN

- 1) Has a hydrogeologic study been completed for the landfill?
- 2) Has a monitoring system plan been completed?
- 3) Are monitoring wells in good condition?
- 4) Are monitoring wells marked and identified?
- 5) Have monitoring wells/surface points been sampled according to the permit schedule?
- 6) Have the water sample test results been submitted to IDNR?

C. LEACHATE CONTROL

- 1) Has the landfill submitted plans/specifications for a leachate collection/treatment system?
- 2) Has the approved leachate collection and treatment system been constructed?
- 3) Does the landfill have permit from the local POTW to discharge leachate?

D. MISCELLANEOUS REQUIREMENTS

- 1) Is a certified landfill operator on site?
- 2) Has a Closure/Post Closure Plan been submitted to IDNR?
- 3) Are the SWA reports completed/submitted to IDNR quarterly?
- 4) Has the landfill received petroleum contaminated soil recently?
- 5) Has a quarterly soil sample been collected/analyzed of the aerated petroleum impacted soil?
- 6) Does the landfill have a permit amendment for recycling?

NA - Not applicable for a closed landfill.

Yes No		Comments	
X			
<u>x</u>			
<u>x</u>			
<u> </u>			
<u> </u>			
x			
Yes No		Comments	
165 140	NA	Comments	
	NA NA		
	NA		
	NA		
Yes No		Comments	
استنصبا استنصبا	NA		
<u>x</u>			
	NA		