

M/R files

Con 12-1-1
Doc # 39417

BELING CONSULTANTS

Professional Engineering and Environmental Services

April 1, 1997

Iowa Department of Natural Resources
Henry A. Wallace Building
900 East Grand Avenue
Des Moines, Iowa 50319

Attn: Mr. Cyrus Rustin, Environmental Engineer
Solid Waste Section

**SUBJECT: CLINTON COUNTY AREA SOLID WASTE AGENCY
SANITARY DISPOSAL PROJECT - SEMI-ANNUAL REPORT
PERMIT NO: 23-SDP-2-74C (West Site)
OUR FILE: 21352-B-10,897-32**

*Gas Monitors
Exempt
Closed before
5/18/97*

Gentlemen:

Enclosed please find the following information for the Clinton County Sanitary Disposal Projects for the period of June 1996 through December 1996.

1. Semi-annual engineering inspection reports.
2. Analytical results of the semi-annual groundwater well sampling of the West Site.
3. Monitoring well sampling forms.

If you have any questions or comments, or if you require additional information, please contact this office.

Very truly yours,

BELING CONSULTANTS, INC.

Robert G. Meyer

Robert G. Meyer, P.E. - L.S.

Vice President

Iowa Reg. #6788 / expires 12/31/97

enc / pmd

cc: Charles Goddard, Adm. - CCASWA (w/enc)
Iowa DNR, Regional Office - Washington, IA (w/enc)
B.J.Fetter - Beling

Davenport • Moline • Chicago • Joliet • Peoria • Beloit • Columbus

1218 E. 37th Street, Suite Two, Davenport, Iowa 52807 • (319) 386-0517

DATE STAMP

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NATURAL RESOURCES

Apr 4 1 17 PM '97



BELING CONSULTANTS

Professional Engineering and Environmental Services

November 8, 1996

Mr. Paul Reimers
Clinton County Area Solid Waste Agency
P.O.Box 996
Clinton, Iowa 52732

SUBJECT: CLINTON COUNTY SANITARY LANDFILL - MONTHLY REPORT
OUR FILE: 21310-B-10,897-29

Dear Mr. Reimers:

On November 6, 1996, Chuck Goddard and I observed the East and West Landfill Sites.

EAST LANDFILL SITE:

1. Satisfactory placement of refuse is occurring on the west side of Ravine #6.
2. The final cover has been completed on all of Ravine #5.
3. The new wet weather area is designated west of the haul road in Ravine #6 for Winter operations.
4. The haul road is in good condition, and has progressed west and south into Ravine #6.
5. The outlet ditch is in good condition; erosion is under control.
6. The small rills on the south side of the Ravine #5 berm have been corrected, and the seeding is becoming well established.
7. No standing water was observed in the working area.
8. Collection facilities are running smoothly, and designated areas appear orderly.
9. The demolition wood will be chipped on Tuesday, November 12, 1996.
10. Beling will perform monitoring well measure-downs next week.
11. No areas of non-conformance were noted.

Mr. Paul Reimers
Clinton County Area Solid Waste Agency
November 8, 1996
Page 2

11. Contractor has been submitting a monthly operating and maintenance report each month.

WEST LANDFILL SITE:

1. Erosion has stabilized along the northeast swale.
2. Erosion has been drastically reduced along the south swale.
3. Three straw bale ditch checks should be placed in the south swale, equally spaced from the berm to the toe of the dike.
4. Some minor bare spots and sparse vegetative cover were noted west of the cut-off berm. A no-till drilled overseeding is recommended.
5. A small low-spot has developed along the west side of the cut-off berm. This area holds a small amount of water and needs to be filled.
6. No visible signs of leachate or gas were observed.
7. No other areas of non-conformance were noted.
8. A large erosion-sinkhole has developed along the entrance road 300 feet east of the waste area. This is not related to landfill closure, but should be filled or marked for safety purposes.
9. Beling will perform monitoring well measure-downs next week.

Sincerely,

BELING CONSULTANTS, INC.


Brett J. Fetter
Project Engineer

pmd

cc: Chuck Goddard - CCASWA
Rittmer Excavating, Inc.
R.G.Meyer - Beling/Moline

GROUNDWATER SAMPLING RECORD

PROJECT NAME CCASWA PROJECT # 21310 WELL # MW-1
 LOCATION West Site SAMPLE ID # _____
 FIELD CREW RE & MC
 INITIAL DEPTH TO WATER _____ (FT) DATE 9-27-96 TIME _____

PURGING DATA
 WELL - STICKUP ~ 2 (FT) DIAMETER 2 (IN)
 REF. PT. ELEVATION N/A (FT MSL)
 DEPTH TO WATER 18.82 (FT)
 WATER SURFACE ELEVATION N/A (FT MSL)
 PURGING METHOD Bailer
 WELL PURGED FOR _____ MINUTES AT A RATE OF _____ GPM
 WEATHER CONDITIONS Cold, mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1445
 WELL DEPTH 30 (FT)
 DEPTH TO WATER 18.82 (FT)
 WATER COLUMN HEIGHT 11.18 (FT)
 BOREHOLE VOLUME 1.9 (GAL)
 VOLUME PURGED 5 (GAL)
 WELL PURGED "DRY"? ☒ YES ☐ NO

SAMPLING DATA
 INITIAL DEPTH TO WATER 28.6 (FT)
 METHOD Bailer
 COCR AND PHYSICAL APPEARANCE OF WATER _____
 WEATHER CONDITIONS Cold mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1445
1515

EVACUATION/STABILIZATION TEST DATA						
TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
1505	6.98	1338	11.9		2	RE
1510	7.12	1377	11.5	28.6	5	RE
<u>NU</u>						

REMARKS _____

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GROUNDWATER SAMPLING RECORD

PROJECT NAME CCASWA PROJECT # 21310 WELL # MW-1D
 LOCATION West Site SAMPLE ID # _____
 FIELD CREW RE & MC
 INITIAL DEPTH TO WATER _____ (FT) DATE 9-27-96 TIME _____

PURGING DATA
 WELL - STICKUP ~ 2 (FT) DIAMETER 2 (IN)
 REF. PT. ELEVATION N/A (FT MSL)
 DEPTH TO WATER 10.15 (FT)
 WATER SURFACE ELEVATION N/A (FT MSL)
 PURGING METHOD Bailer
 WELL PURGED FOR _____ MINUTES AT A RATE OF _____ GPM
 WEATHER CONDITIONS Cold, mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1450
 WELL DEPTH 52 (FT)
 DEPTH TO WATER 10.15 (FT)
 WATER COLUMN HEIGHT 41.85 (FT)
 BOREHOLE VOLUME 7.11 (GAL)
 VOLUME PURGED 10 (GAL)
 WELL PURGED "DRY"? ☒ YES ☐ NO

SAMPLING DATA
 INITIAL DEPTH TO WATER 49.8 (FT)
 METHOD Bailer
 ODOOR AND PHYSICAL APPEARANCE OF WATER _____
 WEATHER CONDITIONS Cold mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1515

EVACUATION/STABILIZATION TEST DATA						
TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
1500	6.70	1065	11.6		5	RE MC
1510	6.62	1029	11.2	49.8	5	

REMARKS _____

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GROUNDWATER SAMPLING RECORD

PROJECT NAME CCASWA PROJECT # 21310 WELL # MW-3D
 LOCATION West Site SAMPLE ID # _____
 FIELD CREW RE & MC
 INITIAL DEPTH TO WATER _____ (FT) DATE 9-27-96 TIME _____

PURGING DATA
 WELL - STICKUP ~ 2 (FT) DIAMETER 2 (IN)
 REF. PT. ELEVATION N/A (FT MSL)
 DEPTH TO WATER 13.74 (FT)
 WATER SURFACE ELEVATION N/A (FT MSL)
 PURGING METHOD Bailer
 WELL PURGED FOR _____ MINUTES AT A RATE OF _____ GPM
 WEATHER CONDITIONS Cold, mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 0950
 WELL DEPTH 53 (FT)
 DEPTH TO WATER 13.74 (FT)
 WATER COLUMN HEIGHT 39.26 (FT)
 BOREHOLE VOLUME 6.6 (GAL)
 VOLUME PURGED 11 (GAL)
 WELL PURGED "DRY"? ☒ YES ☐ NO

SAMPLING DATA
 INITIAL DEPTH TO WATER 51 (FT)
 METHOD Bailer
 CDGR AND PHYSICAL APPEARANCE OF WATER _____
 WEATHER CONDITIONS Cold misty

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1030

EVACUATION/STABILIZATION TEST DATA						
TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
1010	6.94	1104	10.6		6	RE
1025	6.71	1089	10.7	51	11	RE

REMARKS _____

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[Signature]

GROUNDWATER SAMPLING RECORD

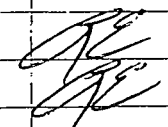
PROJECT NAME CCASWA PROJECT # 21310 WELL # MW-3
 LOCATION West Site SAMPLE ID # _____
 FIELD CREW RE & MC
 INITIAL DEPTH TO WATER _____ (FT) DATE 9-27-96 TIME _____

PURGING DATA
 WELL - STICKUP ~ 2 (FT) DIAMETER 2 (IN)
 REF. PT. ELEVATION N/A (FT MSL)
 DEPTH TO WATER 9.37 (FT)
 WATER SURFACE ELEVATION N/A (FT MSL)
 PURGING METHOD Bailer
 WELL PURGED FOR _____ MINUTES AT A RATE OF _____ GPM
 WEATHER CONDITIONS Cold, mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 0945
 WELL DEPTH 22 (FT)
 DEPTH TO WATER 9.37 (FT)
 WATER COLUMN HEIGHT 12.63 (FT)
 BOREHOLE VOLUME 2.1 (GAL)
 VOLUME PURGED 8 (GAL)
 WELL PURGED "DRY"? ☐ YES ☒ NO

SAMPLING DATA
 INITIAL DEPTH TO WATER 18.4 (FT)
 METHOD Bailer
 ODOR AND PHYSICAL APPEARANCE OF WATER _____
 WEATHER CONDITIONS Cold mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1020

EVACUATION/STABILIZATION TEST DATA						
TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
0955	6.98	1169	11.5		3	
1015	6.63	1115	11.5	18.4	5	

REMARKS _____

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GROUNDWATER SAMPLING RECORD

PROJECT NAME CCASWA PROJECT # 21310 WELL # MW-3BR
 LOCATION West Site SAMPLE ID # _____
 FIELD CREW RE & MC
 INITIAL DEPTH TO WATER _____ (FT) DATE 9-27-96 TIME _____

PURGING DATA
 WELL - STICKUP ~2 (FT) DIAMETER 2 (IN)
 REF. PT. ELEVATION N/A (FT MSL)
 DEPTH TO WATER 58.05 (FT)
 WATER SURFACE ELEVATION N/A (FT MSL)
 PURGING METHOD Bailer
 WELL PURGED FOR _____ MINUTES AT A RATE OF _____ GPM
 WEATHER CONDITIONS Cold, mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1040
 WELL DEPTH 183 (FT)
 DEPTH TO WATER 58.05 (FT)
 WATER COLUMN HEIGHT 125 (FT)
 BOREHOLE VOLUME 21.2 (GAL)
 VOLUME PURGED 32 (GAL)
 WELL PURGED "DRY"? ☐ YES ☒ NO

SAMPLING DATA
 INITIAL DEPTH TO WATER _____ (FT)
 METHOD Bailer
 ODOOR AND PHYSICAL APPEARANCE OF WATER _____
 WEATHER CONDITIONS Cold misty

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1145

EVACUATION/STABILIZATION TEST DATA						
TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
1110	7.78	639	12.2		21	RE
1125	7.62	614	12.0		26	RE
1140	7.65	606	11.8		32	RE

REMARKS _____

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GROUNDWATER SAMPLING RECORD

PROJECT NAME CCASWA PROJECT # 21310 WELL # MW-4
 LOCATION West Site SAMPLE ID # _____
 FIELD CREW RE & MC
 INITIAL DEPTH TO WATER 3.95 (FT) DATE 9-26-96 TIME 1345

PURGING DATA
 WELL - STICKUP ~2 (FT) DIAMETER 2 (IN)
 REF.PT. ELEVATION N/A (FT MSL)
 DEPTH TO WATER 3.95 (FT)
 WATER SURFACE ELEVATION N/A (FT MSL)
 PURGING METHOD Bailer
 WELL PURGED FOR _____ MINUTES AT A RATE OF _____ GPM
 WEATHER CONDITIONS Cold, windy Lt Rain

FIELD CREW RE & MC (INITIALS)
 DATE 9-26-96 START TIME 1345
 WELL DEPTH 26 (FT)
 DEPTH TO WATER 3.95 (FT)
 WATER COLUMN HEIGHT 22.05 (FT)
 BOREHOLE VOLUME 3.7 (GAL)
 VOLUME PURGED 8 (GAL)
 WELL PURGED "DRY"? ☒ YES ☐ NO

SAMPLING DATA
 INITIAL DEPTH TO WATER 25.2 (FT)
 METHOD Bailer
 ODOR AND PHYSICAL APPEARANCE OF WATER _____
 WEATHER CONDITIONS Cold windy Lt Rain

FIELD CREW RE & MC (INITIALS)
 DATE 9-26-96 START TIME 1420

EVACUATION/STABILIZATION TEST DATA						
TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
1300	7.31	2.74	12.1		3	RE
1315	7.23	2.51	12.2		8	MC

REMARKS _____

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GROUNDWATER SAMPLING RECORD

PROJECT NAME CCASWA PROJECT # 21310 WELL # MW-40
 LOCATION West Site SAMPLE ID # _____
 FIELD CREW RE & MC
 INITIAL DEPTH TO WATER _____ (FT) DATE _____ TIME _____

PURGING DATA
 WELL -- STICKUP 2 (FT) DIAMETER 2 (IN)
 REF.PT. ELEVATION N/A (FT MSL)
 DEPTH TO WATER 11.55 (FT)
 WATER SURFACE ELEVATION N/A (FT MSL)
 PURGING METHOD Bailer
 WELL PURGED FOR _____ MINUTES AT A RATE OF _____ GPM
 WEATHER CONDITIONS Cold windy

FIELD CREW RE & MC (INITIALS)
 DATE 9-26-96 START TIME 1345
 WELL DEPTH 51 (FT)
 DEPTH TO WATER 11.55 (FT)
 WATER COLUMN HEIGHT 39.45 (FT)
 BOREHOLE VOLUME 6.7 (GAL)
 VOLUME PURGED 20 (GAL)
 WELL PURGED "DRY"? ☐ YES ☒ NO

SAMPLING DATA
 INITIAL DEPTH TO WATER 41.35 (FT)
 METHOD Bailer
 ODOR AND PHYSICAL APPEARANCE OF WATER Cloudy
 WEATHER CONDITIONS Cold & windy

FIELD CREW RE & MC (INITIALS)
 DATE 9-26-96 START TIME 1425

EVACUATION/STABILIZATION TEST DATA

TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
	7.38	1586	12.5		7	RE
	7.27	1547	12.5		14	RE
	7.24	1519	12.5	41.35	20	RE

REMARKS _____

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07/24/97

GROUNDWATER SAMPLING RECORD

PROJECT NAME CCASWA PROJECT # 21310 WELL # MW-5
 LOCATION West Site SAMPLE ID # _____
 FIELD CREW RE & MC
 INITIAL DEPTH TO WATER _____ (FT) DATE 9-27-96 TIME _____

PURGING DATA
 WELL - STICKUP ~ 2 (FT) DIAMETER 2 (IN)
 REF. PT. ELEVATION N/A (FT MSL)
 DEPTH TO WATER 8.6 (FT)
 WATER SURFACE ELEVATION N/A (FT MSL)
 PURGING METHOD Bailer
 WELL PURGED FOR _____ MINUTES AT A RATE OF _____ GPM
 WEATHER CONDITIONS Cold, mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1330
 WELL DEPTH 14.5 (FT)
 DEPTH TO WATER 8.6 (FT)
 WATER COLUMN HEIGHT 5.9 (FT)
 BOREHOLE VOLUME 1 (GAL)
 VOLUME PURGED 7 (GAL)
 WELL PURGED "DRY"? ☐ YES ☒ NO

SAMPLING DATA
 INITIAL DEPTH TO WATER 11.78 (FT)
 METHOD Bailer
 ODOR AND PHYSICAL APPEARANCE OF WATER _____
 WEATHER CONDITIONS Cold misty

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1400

EVACUATION/STABILIZATION TEST DATA

TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
1335	6.58	2.11	13.8		1	RE
1340	6.55	1945	13.8		3	RE
1355	6.49	1921	13.5	11.78	3	RE

REMARKS _____

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09/27/96

GROUNDWATER SAMPLING RECORD

PROJECT NAME CCASWA PROJECT # 21310 WELL # MW-5BR
 LOCATION West Site SAMPLE ID # _____
 FIELD CREW RE & MC
 INITIAL DEPTH TO WATER _____ (FT) DATE 9-27-96 TIME _____

PURGING DATA
 WELL - STICKUP ~2 (FT) DIAMETER 2 (IN)
 REF. PT. ELEVATION N/A (FT MSL)
 DEPTH TO WATER 33.35 (FT)
 WATER SURFACE ELEVATION N/A (FT MSL)
 PURGING METHOD Bailer
 WELL PURGED FOR _____ MINUTES AT A RATE OF _____ GPM
 WEATHER CONDITIONS Cold, mist

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1330
 WELL DEPTH 33.35 (FT)
 DEPTH TO WATER 33.35 (FT)
 WATER COLUMN HEIGHT 97.65 (FT)
 BOREHOLE VOLUME 16.6 (GAL)
 VOLUME PURGED 26 (GAL)
 WELL PURGED "DRY"? ☐ YES ☒ NO

SAMPLING DATA
 INITIAL DEPTH TO WATER 39.45 (FT)
 METHOD Bailer
 ODOR AND PHYSICAL APPEARANCE OF WATER _____
 WEATHER CONDITIONS Cold misty

FIELD CREW RE & MC (INITIALS)
 DATE 9-27-96 START TIME 1430

EVACUATION/STABILIZATION TEST DATA						
TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
1445	7.74	993	12.2		16	RC
1450	7.42	944	12.1		21	RC
1455	6.89	956	11.2	39.45	25	RC

REMARKS _____

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LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 78420
Job No. 21310
Received: September 27, 1996
Clinton County Landfill - West Landfill
Collection Point: West Landfill - MW-3
Collected: September 27, 1996

Ammonia Nitrogen, mg/L	<0.05
Chemical Oxygen, mg/L	7
Chloride, mg/L	<5
Dissolved Iron, mg/L	0.03
Total Phenols, mg/L	0.005
Total Organic Halogens, mg/L	<0.005



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LABORATORY REPORT

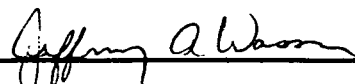
October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 78421
Job No. 21310
Received: September 27, 1996
Clinton County Landfill - West Landfill
Collection Point: West Landfill - MW-3D
Collected: September 27, 1996

Ammonia Nitrogen, mg/L	0.42
Chemical Oxygen, mg/L	183
Chloride, mg/L	<5
Dissolved Iron, mg/L	0.25
Total Phenols, mg/L	0.066
Total Organic Halogens, mg/L	<0.005



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LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 78422
Job No. 21310
Received: September 27, 1996
Clinton County Landfill - West Landfill
Collection Point: West Landfill - MW-3BR
Collected: September 27, 1996

Ammonia Nitrogen, mg/L	1.49
Chemical Oxygen, mg/L	112
Chloride, mg/L	<5
Dissolved Iron, mg/L	0.11
Total Phenols, mg/L	<0.005
Total Organic Halogens, mg/L	<0.005

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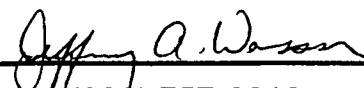
October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 78423
Job No. 21310
Received: September 27, 1996
Clinton County Landfill - West Landfill
Collection Point: West Landfill - MW-5
Collected: September 27, 1996

Ammonia Nitrogen, mg/L	0.31
Chemical Oxygen, mg/L	18
Chloride, mg/L	214
Dissolved Iron, mg/L	0.85
Total Phenols, mg/L	0.024
Total Organic Halogens, mg/L	0.038



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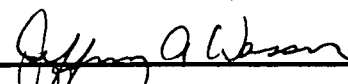
October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 78424
Job No. 21310
Received: September 27, 1996
Clinton County Landfill - West Landfill
Collection Point: West Landfill - MW-5BR
Collected: September 27, 1996

Ammonia Nitrogen, mg/L	0.74
Chemical Oxygen, mg/L	<2
Chloride, mg/L	12
Dissolved Iron, mg/L	0.90
Total Phenols, mg/L	<0.005
Total Organic Halogens, mg/L	<0.005



BELING CONSULTANTS

LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 78425
Job No. 21310
Received: September 27, 1996
Clinton County Landfill - West Landfill
Collection Point: West Landfill - MW-1
Collected: September 27, 1996

Ammonia Nitrogen, mg/L	0.16
Chemical Oxygen, mg/L	6
Chloride, mg/L	<5
Dissolved Iron, mg/L	0.09
Total Phenols, mg/L	0.007
Total Organic Halogens, mg/L	<0.005

BELING CONSULTANTS

LABORATORY REPORT

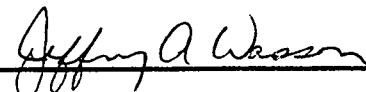
October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 78426
Job No. 21310
Received: September 27, 1996
Clinton County Landfill - West Landfill
Collection Point: West Landfill - MW-1D
Collected: September 27, 1996

Ammonia Nitrogen, mg/L	0.43
Chemical Oxygen, mg/L	<2
Chloride, mg/L	<5
Dissolved Iron, mg/L	<0.03
Total Phenols, mg/L	<0.005
Total Organic Halogens, mg/L	<0.005



BELING CONSULTANTS

CHAIN OF CUSTODY

Professional Planning and Engineering • Environmental Laboratory

Client Name: Clinton County Landfill Date Collected: 9-27-96
 Project Location: West Landfill Beling Job #: 21310
 Samples Collected By: R.J. Elgin (Print) [Signature] (Signature)

No. and Size of Containers	Sample/Description/Time		Testing Required*	Lab No.
2-PL 1-500ml	mW-3	1020	PH, Ammonia, Nitrogen, Diss Fe COD, Phenols TOX, Chloride	78420
	mW-3D	1030		78421
1-250 1 L Amber	mW-3BR	1145		78422
	mW-5	1400		78423
	mW-5BR	1430		78424
	mW-1	1515	↓	78425
	mW-1D	1515		78426

*Please indicate all parameters

Comments: _____

SAMPLE TRANSFERS

Relinquished By:		Accepted By:		
Name 1) <u>R. ELGIN</u>	Representing/Firm	Name <u>Jeffrey A. Wasson</u>	Representing/Firm	Date/Time
(Print)	<u>Beling</u>	(Print)	<u>Beling</u>	<u>9-27-96</u>
(Signature) <u>[Signature]</u>		(Signature) <u>[Signature]</u>		<u>16:53</u>
2) (Print)		(Print)		
(Signature)		(Signature)		
3) (Print)		(Print)		
(Signature)		(Signature)		

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FORM 552-7/92