



WASTE MANAGEMENT

18633 Statts Rd. WC 865
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Springdale, AR 72765
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July 8, 2004

Steve Martin
Chief, Solid Waste Management Division
Arkansas Department of Environmental Quality
8017 I-30, P.O. Box 8913
Little Rock, AR 72219-8913

AFIN: 72-00144
Pmt #: 0162-SR-2 S
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SCAN M
Doc ID#: 23629 D
To: SM7557 file

Subject: **Annual Engineering Inspection Report (2003-2004)**
Tontitown Landfill – Class 4 (Old Landfill)
AFIN: 72-00144 Permit Nos: 0123-SR-2/0162-SR-2

Dear Mr. Martin:

We are pleased to submit the Annual Engineering Inspection Report for the Tontitown Landfill–Class 4 (Old Landfill), for the reporting period of July 1, 2003 through June 30, 2004, in accordance with *Section 22.619-Engineering Inspection Reports*.

The enclosed report addresses operational compliance with permit conditions, permit plans and specification and the narrative. The current plan for the facility is to complete a boundary survey of the disposal area for the purpose of placing the site into the post-closure monitoring period.

If you should have any questions about this, please feel free to contact me at 982-7336.

Sincerely,

James E. Dunbar, P.E.
Division Landfill Engineer

Copy: Tontitown Operating Record POR 9.11.1

**ANNUAL ENGINEERING
INSPECTION REPORT**

**TONTITOWN LANDFILL
CLASS 4 (Old Landfill)**

AFIN: 72-00144 Permit Nos: 0123-SR-2/0162-SR-2

FOR THE REPORTING PERIOD:

**JULY 01, 2003
to
JUNE 30, 2004**

Prepared By:

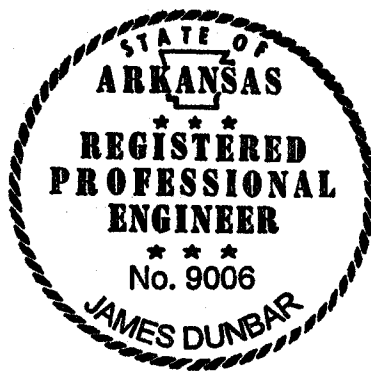
**JAMES E. DUNBAR, P.E.
WASTE MANAGEMENT OF ARKANSAS, INC.**



WASTE MANAGEMENT, INC.

PROFESSIONAL ENGINEER'S CERTIFICATION

As required in Arkansas Regulation 22 (Section 22.619), inspections of the Waste Management – Tontitown Class 4 (Old Landfill) were performed throughout the reporting period of July 1, 2003 to June 30, 2004. The purpose of this annual report is to address operational compliance with permit conditions, permit plans, specifications and the narrative.



James E. Dunbar

James E. Dunbar, P.E.
Arkansas Professional Engineer (No. 9006)

7-8-2004
Certification Date

ANNUAL ENGINEERING INSPECTION REPORT

TONTITOWN LANDFILL CLASS 4 (Old Landfill)

AFIN: 72-00144 Permit Nos: 0123-SR-2/0162-SR-2

This engineering inspection report for the Tontitown Landfill – Class 4 (Old Landfill) is prepared in accordance with *Section 22.619- Engineering Inspection Reports* which requires that each landfill site be inspected annually and to prepare a report addressing operational compliance with permit conditions, permit plans and specifications and the narrative.

General

The operations and management of the facility was reviewed in comparison to the approved plans and specifications. The following items document the compliance aspects of the facility as specified in Regulation 22, Section 22.619.

1. **The volume remaining in the current landfill cell or area and the projected date for opening new cells or areas.**

As of June 30, 2004, there was no remaining capacity in the permitted disposal area. During the reporting period of July 1, 2003 to June 30, 2004, no waste was placed within the permitted disposal area.

2. **The estimated remaining permitted site life considering the current waste stream.**

As of June 30, 2004, there was no remaining capacity in the permitted disposal area.

3. **Compliance of facility fill progression with the approved permit plans and specifications, and narrative.**

Based on a visual site inspection of the permitted disposal area, the site is in substantial compliance with the approved permit plans and specifications, and narrative. See the Site Map for the location of the Class 4 – Old Landfill.

4. Compliance with the operating requirements of this regulation and permit conditions.

Based on a review of the operating requirements of Regulation 22 and the specific permit conditions, the Class 4-Old Landfill facility is in substantial compliance. No inspections by ADEQ were performed for this facility during the reporting period.

During the reporting period of July 1, 2003 to June 30, 2004, a total of 214,125 gallons of leachate was removed from the disposal area. Table 1 lists the volumes of leachate removed for each month. All leachate was taken to approved treatment facilities; a copy of the analytical testing is included as Attachment 1.

5. Changes or proposed changes to the operating plan.

There have been no significant changes to the operating plan during the reporting period.

6. Maintenance of the storm water control.

Storm water from the permitted disposal area is diverted to sedimentation basins prior to discharge. Erosion control measures include final vegetation cover, berms and straw bales (as necessary) on the side slopes and along the base of the landfill.

7. Status of capping and closure of completed areas.

A Construction Quality Assurance (CQA) document was prepared and submitted to ADEQ on August 17, 2001 which details the installation of the final cap.

A landfill boundary survey will be performed for the disposal limits. Completion of this item will allow the site to be placed into post-closure status.

8. Status of remedial or corrective actions taken.

There have been no remedial or corrective actions taken during the reporting period.

9. Any other items impacting permit compliance at the landfill.

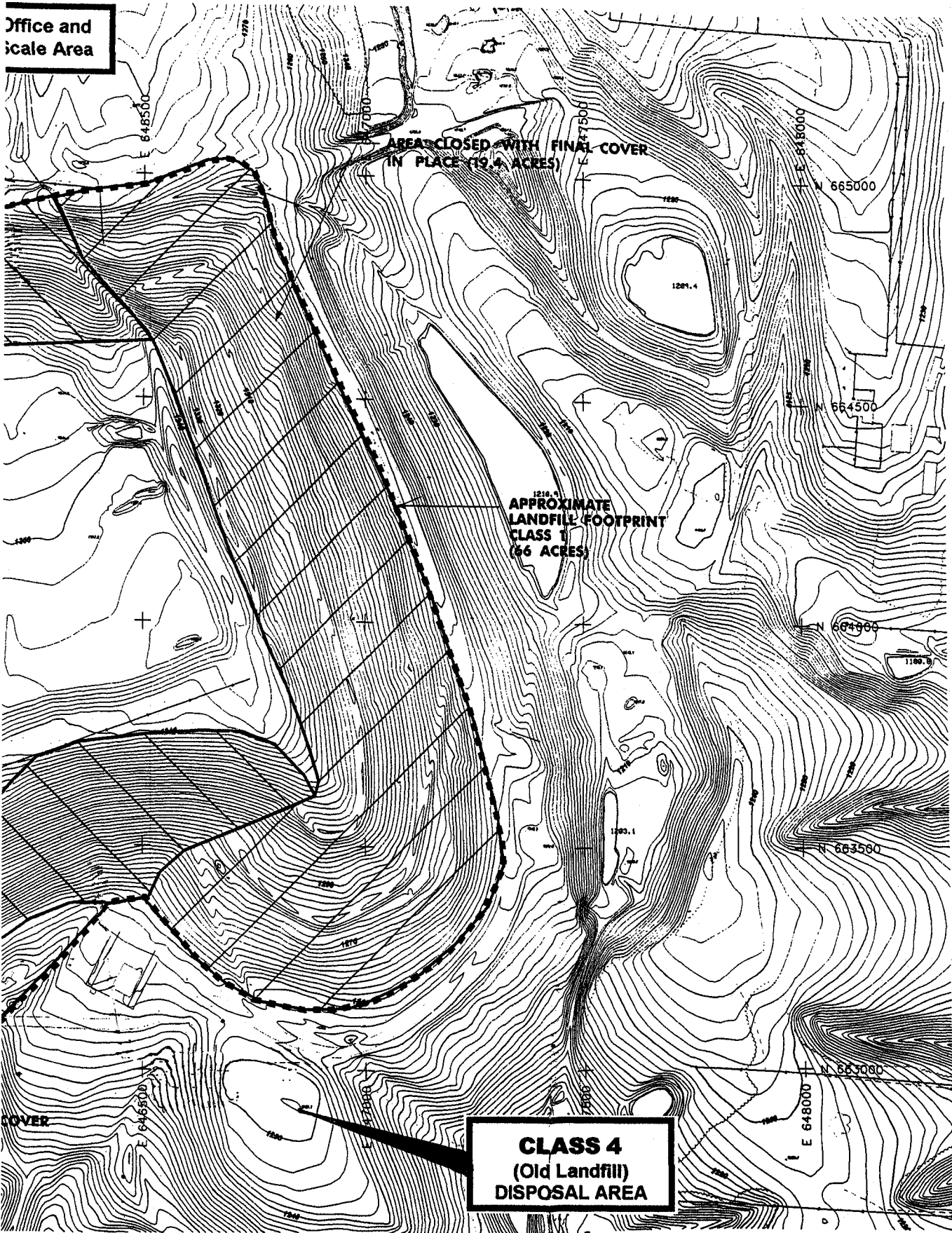
There are no other significant items impacting permit compliance at the landfill during the reporting period.

SITE MAP

for

**TONTITOWN LANDFILL
CLASS 4 (Old Landfill)**

Office and
Scale Area



CLASS 4
(Old Landfill)
DISPOSAL AREA

Approved By: Jim Dunbar
Checked By: Jim Dunbar
Drawn By: Corp. CADD

Project Location:
TONTITOWN LANDFILL
SPRINGDALE, ARKANSAS

2004 TOPOGRAPHY DATED
DECEMBER 24, 2003

Drawing No. AR03-0087-AIR-02
Scale: As Shown
Date: MARCH 2004
Sheet Number: **2**

TABLE 1

**MONTHLY LEACHATE QUANTITIES
REMOVED FROM
TONTITOWN LANDFILL
CLASS 4 (OLD LANDFILL)**

<u>Month/Year</u>	<u>Leachate Volume (Gallons)</u>
July 2003	3,295
August 2003	3,396
September 2003	10,741
October 2003	9,913
November 2003	12,659
December 2003	30,292
January 2004	10,851
February 2004	31,220
March 2004	21,201
April 2004	21,629
May 2004	42,832
June 2004	16,096
<hr/>	
Total for Reporting Period	214,125

Note: Leachate was disposed at the Muskogee Waste and Water Company, Inc. (Oklahoma), City of Sapulpa (Oklahoma) Wastewater Treatment facility, City of Springdale Water Utilities (Arkansas), and the City of Rogers (Arkansas) Pollution Control facility.

ATTACHMENT 1

LEACHATE ANALYTICAL RESULTS FROM TONTITOWN LANDFILL CLASS 4 (OLD LANDFILL)

ATTACHMENT

LABORATORY REPORT

**SEVERN TRENT LABORATORIES, INC.
Amherst, NY**

**THIRD QUARTER 2003
SAMPLING EVENT**

LANDFILL LEACHATE

**TONTITOWN LANDFILL
(Waste Management)**

ANALYTICAL REPORT

Job#: A03-6520

STL Project#: NY5A5817.2

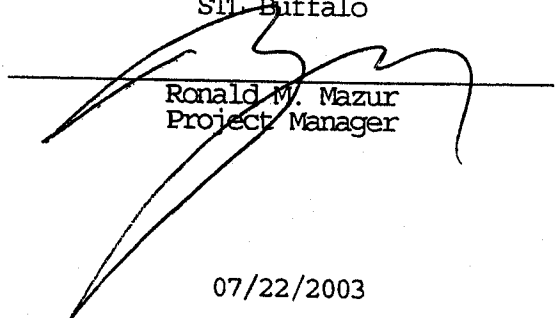
Site Name: Tonitown Landfill

Task: Tonitown Tank 3

Jim Dunbar
Two Pine Landfill
100 Two Pine Drive
N. Little Rock, AR 72117

CC: David Jaros
Mike Caldwell

STL Buffalo



Ronald M. Mazur
Project Manager

07/22/2003

Severn Trent Laboratories, Inc.

STL Buffalo • 10 Hazelwood Drive, Suite 106, Amherst, NY 14228

Tel 716 691 2600 Fax 716 691 7991 • www.st-inc.com

Date: 07/22/2003
 Time: 09:43:10

Waste Management, Inc.
 Tonitown Landfill
 Tonitown Tank 3

8/22 Page: 1
 Rept: AN1219

Sample ID: Tank 3
 Lab Sample ID: A3652001
 Date Collected: 07/09/2003
 Time Collected: 11:15

Date Received: 07/10/2003
 Project No: NY5A5817.2
 Client No: L10923
 Site No: AR03

Parameter	Result	Flg	MDL	Detection	Units	Method	Date	
				Limit			Analyzed	Int
Metals Analysis								
Arsenic, Total	ND		0.0046	0.010	MG/L	200.7	07/14/03	TRB
Barium, Total	0.41		0.00074	0.20	MG/L	200.7	07/14/03	TRB
Copper, Total	0.034		0.0017	0.025	MG/L	200.7	07/14/03	TRB
Silver, Total	ND		0.0018	0.025	MG/L	200.7	07/14/03	TRB
Zinc, Total	0.11		0.0022	0.020	MG/L	200.7	07/14/03	TRB
Wet Chemistry Analysis								
Ammonia (As N)	32.5		0.45	0.50	MG/L-N	350.1	07/11/03	KAM
Biochemical Oxygen Demand	14.4		0.57	2.0	MG/L	405.1	07/10/03	GH
pH (Field)	7.49			0.00000	S.U.	150.1	07/09/03	JM
Phenolics, Total	ND		0.0030	0.010	MG/L	420.2	07/14/03	JMS
Phosphate as P04	0.12		0.0070	0.010	MG/L-P	365.2	07/14/03	RP
Total Dissolved Solids (TDS)	1150		2.8	10	MG/L	160.1	07/11/03	KEG
Total Kjeldahl Nitrogen (TKN)	40.1		0.77	1.0	MG/L-N	351.2	07/15/03	NAP
Total Suspended Solids (TSS)	ND		1.0	4.0	MG/L	160.2	07/11/03	KEG

ANALYTICAL REPORT

Job#: A03-6519

STL Project#: NY5A5817.2

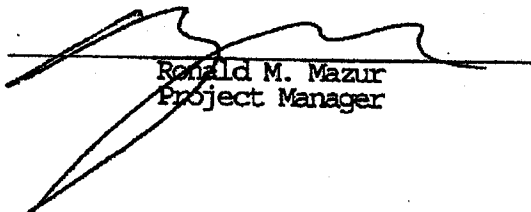
Site Name: Tonitown Landfill

Task: Tonitown Tank 6

Jim Dunbar
Two Pine Landfill
100 Two Pine Drive
N. Little Rock, AR 72117

CC: David Jaros
Mike Caldwell

STL Buffalo



Ronald M. Mazur
Project Manager

08/04/2003

Severn Trent Laboratories, Inc.
STL Buffalo • 10 Hazelwood Drive, Suite 106, Amherst, NY 14228
Tel 716 691 2600 Fax 716 691 7991 • www.stl-inc.com

Date: 08/04/2003
Time: 13:05:54

Tonitown Landfill
Tonitown Tank 6

Page: 1
Rept: AN1178

Sample ID: Tank 6
Lab Sample ID: A3651901
Date Collected: 07/09/2003
Time Collected: 10:45

Date Received: 07/10/2003
Project No: NYSA5817.2
Client No: L10923
Site No: AR03

Parameter	Result	Flag	Detection	Units	Method	Date/Time		Analyst
			Limit			Analyzed		
Metals Analysis								
Arsenic, Total	0.011		0.010	MG/L	200.7	07/12/2003	04:13	BKL
Barium, Total	0.42		0.20	MG/L	200.7	07/12/2003	04:13	BKL
Copper, Total	ND		0.025	MG/L	200.7	07/12/2003	04:13	BKL
Silver, Total	ND		0.025	MG/L	200.7	07/12/2003	04:13	BKL
Zinc, Total	ND		0.020	MG/L	200.7	07/12/2003	04:13	BKL
Wet Chemistry Analysis								
Ammonia (As N)	33.6		0.50	MG/L-N	350.1	07/11/2003	14:10	KAM
Biochemical Oxygen Demand	41.3		2.0	MG/L	405.1	07/10/2003	07:00	GH
pH (Field)	7.03		0.00000	S.U.	150.1	07/09/2003		JM
Phenolics, Total	ND		0.010	MG/L	420.2	07/14/2003	18:29	JMS
Phosphate as PO4	2.0		0.010	MG/L-P	365.2	07/14/2003	16:00	RP
Total Kjeldahl Nitrogen (TKN)	49.4		1.0	MG/L-N	351.2	07/15/2003	06:00	NAP
Total Suspended Solids (TSS)	16.0		4.0	MG/L	160.2	07/11/2003	11:00	KEG

ATTACHMENT

LABORATORY REPORT

SEVERN TRENT LABORATORIES, INC.
Amherst, NY

**FOURTH QUARTER 2003
SAMPLING EVENT**

LANDFILL LEACHATE

WM TONTITOWN LANDFILL, LLC
(Waste Management)

Date: 11/17/2003
 Time: 16:41:47

Waste Management, Inc.
 Tonitown Landfill
 Tonitown Tank 3

9/25

Page
 Rept:

Sample ID: Tank 3
 Lab Sample ID: A3A59201
 Date Collected: 10/31/2003
 Time Collected: 10:45

Date Received: 11/01/2003
 Project No: NY5A5817.2
 Client No: L10923
 Site No: AR03

Parameter	Result	Flg	MOL	Detection Limit	Units	Method	Date Analyzed	I
Metals Analysis								
Arsenic, Total	ND		0.0049	0.010	MG/L	200.7	11/04/03	B
Barium, Total	0.43		0.00021	0.20	MG/L	200.7	11/04/03	B
Copper, Total	0.070		0.0024	0.025	MG/L	200.7	11/04/03	B
Silver, Total	ND		0.00076	0.025	MG/L	200.7	11/04/03	B
Zinc, Total	0.069		0.0071	0.020	MG/L	200.7	11/04/03	B
Wet Chemistry Analysis								
Ammonia (As N)	32.7		0.18	0.20	MG/L-N	350.1	11/04/03	K
Biochemical Oxygen Demand	5.8		0.57	2.0	MG/L	405.1	11/01/03	R
Electrical Conductance (Field)	2.1			1.0	UMHOS/CM	120.1	10/31/03	J
pH (Field)	7.78			0.00000	S.U.	150.1	10/31/03	J
Phenolics, Total	ND		0.0030	0.010	MG/L	420.2	11/07/03	J
Phosphate as P04	0.13		0.0070	0.010	MG/L-P	365.2	11/03/03	R
Temperature (Field Test)	19.5			0	°C	170.1	10/31/03	J
Total Dissolved Solids (TDS)	1260		2.8	10	MG/L	160.1	11/04/03	S
Total Kjeldahl Nitrogen (TKN)	40.6		0.38	0.50	MG/L-N	351.2	11/05/03	E
Total Suspended Solids (TSS)	ND		1.0	4.0	MG/L	160.2	11/03/03	K

11/17/2003
 16:41:47

Waste Management, Inc.
 Tonitown Landfill
 Tonitown Tank 3

1025

Page:
 Rept: AN12

Sample ID: Tank 6
 Lab Sample ID: A3A59202
 Date Collected: 10/31/2003
 Time Collected: 10:05

Date Received: 11/01/2003
 Project No: NYS5A5817.2
 Client No: L10923
 Site No: ARO3

Parameter	Result	Flg	MDL	Detection Limit	Units	Method	Date Analyzed	Int
Metals Analysis								
Arsenic, Total	0.012		0.0049	0.010	MG/L	200.7	11/04/03	BI
Barium, Total	0.51		0.00021	0.20	MG/L	200.7	11/04/03	BI
Copper, Total	ND		0.0024	0.025	MG/L	200.7	11/04/03	BI
Silver, Total	ND		0.00076	0.025	MG/L	200.7	11/04/03	BI
Zinc, Total	ND		0.0071	0.020	MG/L	200.7	11/04/03	B
Wet Chemistry Analysis								
Ammonia (As N)	37.2		0.18	0.20	MG/L-N	350.1	11/04/03	K
Biochemical Oxygen Demand	19.0		0.57	2.0	MG/L	405.1	11/01/03	R
Electrical Conductance (Field)	2.5			1.0	UMHOS/CM	120.1	10/31/03	J
pH (Field)	7.30			0.00000	S.U.	150.1	10/31/03	J
Phenolics, Total	ND		0.0030	0.010	MG/L	420.2	11/07/03	J
Phosphate as PO4	1.6		0.0070	0.010	MG/L-P	365.2	11/03/03	R
Temperature (Field Test)	19.6			0	°C	170.1	10/31/03	J
Total Dissolved Solids (TDS)	1590		2.8	10	MG/L	160.1	11/04/03	S
Total Kjeldahl Nitrogen (TKN)	39.7		1.5	2.0	MG/L-N	351.2	11/05/03	E
Total Suspended Solids (TSS)	27.0		1.0	4.0	MG/L	160.2	11/03/03	K

ATTACHMENT A

LABORATORY REPORT

SEVERN TRENT LABORATORIES, INC.
Amherst, NY

FIRST HALF 2004 SAMPLING EVENT

LANDFILL LEACHATE

TONTITOWN LANDFILL
(Waste Management)

Date: 02/13/2004
Time: 15:12:52

Waste Management, Inc.
Tonitown Landfill
State Parameters

918

Page:
Rept: A

Sample ID: Tank 6
Lab Sample ID: A4078901
Date Collected: 01/29/2004
Time Collected: 11:10

Date Received: 01/30/2004
Project No: NY5A5817.2
Client No: L10923
Site No: AR03

Parameter	Result	Flg	MDL	Detection Limit	Units	Method	Date Analyzed	In
Metals Analysis								
Cadmium, Total	ND		0.00059	0.0050	MG/L	200.7	02/03/04	BK
Chromium, Total	ND		0.00063	0.010	MG/L	200.7	02/03/04	BK
Copper, Total	ND		0.0024	0.025	MG/L	200.7	02/03/04	BK
Lead, Total	0.086		0.0035	0.0050	MG/L	200.7	02/03/04	BK
Nickel, Total	0.37		0.0016	0.040	MG/L	200.7	02/03/04	BK
Zinc, Total	0.022		0.0071	0.020	MG/L	200.7	02/03/04	BK
Wet Chemistry Analysis								
Biochemical Oxygen Demand	20.5		0.57	2.0	MG/L	405.1	01/31/04	KW
Chemical Oxygen Demand (COD)	288		3.7	10	MG/L	410.4	02/04/04	KW
Chloride	11.4		0.32	0.50	MG/L	300.0	02/05/04	SS
Sulfate	231		3.5	10	MG/L	300.0	02/05/04	SS
Total Dissolved Solids (TDS)	1770		2.8	10	MG/L	160.1	01/31/04	SM

Date: 02/26/2004
 Time: 14:38:14

Waste Management, Inc.
 Tonitown Landfill
 Rogers Parameters

924

Page: 1
 Rept: AN1219

Sample ID: Tanks 3&6
 Lab Sample ID: A4078201
 Date Collected: 01/29/2004
 Time Collected: 11:24

Date Received: 01/30/2004
 Project No: NY5A5817.2
 Client No: L10923
 Site No: AR03

Parameter	Result	Flg	MDL	Detection			Date	
				Limit	Units	Method	Analyzed	Int
Metals Analysis								
Arsenic, Total	ND		0.0049	0.010	MG/L	200.7	02/03/04	BKL
Barium, Total	0.50		0.00021	0.20	MG/L	200.7	02/03/04	BKL
Cadmium, Total	ND		0.00059	0.0050	MG/L	200.7	02/03/04	BKL
Chromium, Total	ND		0.00063	0.010	MG/L	200.7	02/03/04	BKL
Copper, Total	0.20		0.0024	0.025	MG/L	200.7	02/03/04	BKL
Lead, Total	0.090		0.0035	0.0050	MG/L	200.7	02/03/04	BKL
Mercury, Total	ND		0.00006	0.00020	MG/L	245.2	02/02/04	AJY
Nickel, Total	0.12		0.0016	0.040	MG/L	200.7	02/03/04	BKL
Silver, Total	ND		0.00076	0.025	MG/L	200.7	02/03/04	BKL
Zinc, Total	0.11		0.0071	0.020	MG/L	200.7	02/03/04	BKL
Wet Chemistry Analysis								
Ammonia (As N)	1.6		0.0090	0.010	MG/L-N	350.1	02/02/04	ERK
Biochemical Oxygen Demand	24.9		0.57	2.0	MG/L	405.1	01/31/04	KW
Phenolics, Total	0.030		0.0030	0.010	MG/L	420.2	02/06/04	LRM
Phosphate as P04	0.31		0.0070	0.010	MG/L-P	365.2	02/02/04	KEG
Total Dissolved Solids (TDS)	1490		2.8	10	MG/L	160.1	01/31/04	SM
Total Kjeldahl Nitrogen (TKN)	31.2		0.77	1.0	MG/L-N	351.2	02/04/04	ERK
Total Suspended Solids (TSS)	28.0		1.0	4.0	MG/L	160.2	01/31/04	SM

ATTACHMENT

LABORATORY REPORT

**SEVERN TRENT LABORATORIES, INC.
Amherst, NY**

**SECOND QUARTER 2004
SAMPLING EVENT**

LANDFILL LEACHATE

**WM TONTITOWN LANDFILL, LLC
(Waste Management)**

04/20/2004
12:28:18

Waste Management, Inc.
Tonitown Landfill
Rogers Parameters

10\24

Page: 2
Rept: AN1219

Sample ID: OLDCLAS4
Lab Sample ID: A4313302
Date Collected: 04/08/2004
Time Collected: 16:00

Date Received: 04/09/2004
Project No: NY5A5817.2
Client No: L10923
Site No: ARO3

Parameter	Result	Flg	MDL	Detection Limit	Units	Method	Date Analyzed	Int
Metals Analysis								
Arsenic, Total	ND		0.0049	0.010	MG/L	200.7	04/12/04	BKL
Barium, Total	0.42		0.00021	0.20	MG/L	200.7	04/12/04	BKL
Copper, Total	ND		0.0024	0.025	MG/L	200.7	04/12/04	BKL
Silver, Total	ND		0.00076	0.025	MG/L	200.7	04/12/04	BKL
Zinc, Total	ND		0.0071	0.020	MG/L	200.7	04/13/04	TRB
Wet Chemistry Analysis								
Alkalinity, Bicarbonate (As CaCO3)	1660		44.8	20.0	MG/L	310.2	04/12/04	KEG
Alkalinity, Carbonate (As CaCO3)	ND		2.2	1.0	MG/L	310.2	04/12/04	KEG
Ammonia (As N)	28.3		0.18	0.20	MG/L-N	350.1	04/13/04	ERK
Biochemical Oxygen Demand	5.0		0.57	2.0	MG/L	405.1	04/10/04	KW
Phenolics, Total	ND		0.0030	0.010	MG/L	420.2	04/14/04	LRM
Phosphate as PO4	0.36		0.0070	0.010	MG/L-P	365.2	04/12/04	GH
Total Dissolved Solids (TDS)	1270		2.8	10	MG/L	160.1	04/13/04	SM
Total Kjeldahl Nitrogen (TKN)	34.4		0.38	0.50	MG/L-N	351.2	04/14/04	ERK
Total Suspended Solids (TSS)	ND		1.0	4.0	MG/L	160.2	04/13/04	SM

Date: 04/20/2004
Time: 12:28:18

Waste Management, Inc.
Tonitown Landfill
Rogers Parameters

7144

Rep

Sample ID: NEWCLAS4
Lab Sample ID: A4313301
Date Collected: 04/08/2004
Time Collected: 16:15

Date Received: 04/09/2004
Project No: NY5A5817.2
Client No: L10923
Site No: AR03

Parameter	Result	Flg	MDL	Detection Limit	Units	Method	Date Analyzed	Initials
Metals Analysis								
Arsenic, Total	0.012		0.0049	0.010	MG/L	200.7	04/12/04	BI
Barium, Total	0.47		0.00021	0.20	MG/L	200.7	04/12/04	BI
Copper, Total	ND		0.0024	0.025	MG/L	200.7	04/12/04	BI
Silver, Total	ND		0.00076	0.025	MG/L	200.7	04/12/04	BI
Zinc, Total	ND		0.0071	0.020	MG/L	200.7	04/13/04	T
Wet Chemistry Analysis								
Alkalinity, Bicarbonate (As CaCO3)	390		2.2	1.0	MG/L	310.2	04/12/04	K
Alkalinity, Carbonate (As CaCO3)	ND		2.2	1.0	MG/L	310.2	04/12/04	K
Ammonia (As N)	50.1		0.45	0.50	MG/L-N	350.1	04/13/04	E
Biochemical Oxygen Demand	25.3		0.57	2.0	MG/L	405.1	04/10/04	K
Phenolics, Total	ND		0.0030	0.010	MG/L	420.2	04/14/04	L
Phosphate as PO4	1.1		0.014	0.020	MG/L-P	365.2	04/12/04	G
Total Dissolved Solids (TDS)	1720		2.8	10	MG/L	160.1	04/13/04	S
Total Kjeldahl Nitrogen (TKN)	53.6		0.77	1.0	MG/L-N	351.2	04/14/04	E
Total Suspended Solids (TSS)	24.0		1.0	4.0	MG/L	160.2	04/13/04	S