Johnston County Landfill
Phase 5

Ground Water Monitoring Report

May 2007 Semi-annual
Monitoring Event

Johnston County Landfill
Smithfield, North Carolina
NC Solid Waste Permit # 51-01 and 51-02

Prepared for:
Johnston County Department of Public Utilities
309 East Market Street
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August 2007

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Johnston County – Phase 5 Lined Landfill
Semi-annual Ground Water Monitoring Report
May 2007 Sampling Event

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1.0 Introduction

The Johnston County Landfill, currently operating under Solid Waste Permit # 51-02 (Phase 5) is required to sbmit semiannual ground water monitoring reports for Phase 5. This report presents the results of the first semi-annual monitoring event for 2007. This event was performed to comply with the semi-annual monitoring schedule required by NC Solid Waste Regulations.

The ground water monitoring for the Phase 5 landfill included 10 ground water monitoring wells and four leachate lagoon monitoring wells. This report includes summaries of the field procedures, laboratory analyses, statistical analyses, and ground water characterization for the entire site. Also included are summary tables of the results, summary of the statistical analysis, graphs of the data, and laboratory analytical reports.

2.0 Sampling Procedures

The sampling event, performed by trained personnel from Johnston County Landfill, consisted of collecting samples from 10 ground water wells (MW-5-1, MW-5-2, MW-5-3, MW-5-4, MW-5-5, MW-5-6, MW-5-7, MW-5-8, MW-5-9, and MW-5-10), shown in **Figure 1**. This sampling was conducted in accordance with the approved site Sampling and Analysis Plan. Also included in the analysis was a trip blank for quality control. Surface water samples were collected from two locations (SWPT-5-1 and SWPT-5-2) up and downstream from the landfill on Middle Creek.

Sampling methods followed the protocol outlined in the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities (NCDENR, DWM). The depth to water in each well was gauged prior to purging and sampling. Field measurements of pH, specific conductivity, and temperature were obtained from each well. Water table elevations and field parameter results are included in **Tables 1 and 2** respectively.

All samples were collected by Johnston County personnel in laboratory prepared containers for the specified analytical procedures. Samples were obtained through dedicated Micropurge low flow pumps. Ground water samples were properly preserved, placed on ice, and transported to the laboratory facility, Environment 1, Inc., within the specified holding times for each analysis.

3.0 Field and Laboratory Results

3.1 Laboratory Analysis

Ground water samples were collected from the monitoring network associated with Phase 5 using dedicated low-flow pumps in the same manner as ground water samples from wells associated with Phases 1 through 4. These samples were analyzed for Appendix I constituents.

3.2 Field and Laboratory Results

All samples were transported to the laboratory facility under proper chain of custody analyzed at the specified DWM Practical Quantitation Limits for Appendix I constituents. The laboratory report is attached for your review as **Appendix A**.

Ground water and field measurements included in **Table 2**, remained similar to previous results. The laboratory analysis detected three (3) inorganic constituents; beryllium (MW-5-2), barium (MW-5-2, MW-5-8) and zinc (MW-5-3) and one (1) organic constituent; 1,2-dichloropropane (MW-5-2, MW-5-8). **Table 3** summarizes the list of constituents detected.

There are currently two surface water monitoring points associated with Phase 5 (SW-5-1, and SW-5-2). Laboratory analysis detected two (2) constituents; barium & methylene chloride in SW-5-1 & zinc in SW-5-2.

Concentration above 2L standard were found in MW-5-2 (1,2-dichloropropane & beryllium) and in MW-5-8 (1,2-dichloropropane). These are highlighted in **Table 3**.

4.0 Statistical Analysis & Results

4.1 Statistical Analysis

The laboratory analytical results were entered into our statistical database for the site. Data entry and analysis was performed using the Chempoint/Chemstat™ statistical software package developed specifically for RCRA Subtitle D sites (Starpoint Software, Cincinnati, OH). Chemstat follows EPA and DSWM protocols for approved statistical analysis methods for groundwater data.

Constituents;1,2-dichloropropane (MW-5-8) & Barium (MW-5-2) were found to be statistically significant (see **Table 4**).

4.2 2L/MCL Statistical Analysis

For wells that showed statistically significant differences from background concentrations, additional analysis was performed. This analysis has recently been required as part of ongoing Assessment monitoring for landfills in North Carolina. To perform the analysis, the respective 2L standard or MCL was determined for each parameter with statistically significant results. Each compliance well with statistical significance was re-analyzed against the lower of the 2L or MCL standard as a Ground Water Protection Standard (GWPS).

This analysis was performed using tolerance interval analysis. Since a smaller subset of wells was analyzed during this step, the compliance well data were retested for normal distribution. If the data were normally distributed, parametric tolerance intervals were constructed for each well and compared to the GWPS for each parameter. For those wells not exhibiting normal distribution, Poisson tolerance intervals were constructed. If the

distribution of the data was marginally normal, both tests were run to cross-check the results. All of these cross-checks yielded the same results from both test methods.

The statistical results for this additional analysis are presented in **Table 4**. An upper tolerance limit higher than the GWPS standard was considered to be a statistically significant result. This analysis indicated statistically significant results for MW-5-2 (barium) and for MW-5-8 (1,2-dichloropropane).

5.0 Ground Water Characterization

A potentiometric surface map was prepared from ground water elevation data collected during this sampling event. Ground water velocity was calculated for each monitoring well on-site using the equation V = (KI)/n where:

K = hydraulic conductivity
I = ground water gradient
n = porosity

Ground water velocities ranged from 0.004 feet/day (MW-5-10) to 0.525 feet/day (MW-5-2). These calculations are included in **Table 5**. The data indicates that ground water is flowing generally to the north towards the tributaries of Middle Creek. This is consistent with ground water flow patterns previously seen at this site. The potentiometric surface map (**Figure 1**) is also attached for your review.

6.0 Ground Water Assessment

During previous events well MW-5-8 was found to have detectable levels of 1,2 Dichloropropane. During the fall 2006 sampling event, the pump was removed and the well hand bailed to evaluate the possibility of the pump as the source of impact. During the fall 2006 event the sample collected from the well had no detectable levels of 1, 2 Dichloropropane.

During the spring 2007 event detectable levels of this constituent were found in MW-5-8 and MW-5-2 two cross-gradient wells on opposite sides of the landfill. Samples from MW-5-8 for this event were collected in the same manner as they had been in fall 2006. Therefore, since the pump was not used during this event, it is unlikely to have impacted the samples collected.

Given that the leachate has had a “J-value” detection of this constituent that is below the Practical Quantitation Limit and orders of magnitude below the detected level in the ground water and in previous events has been non-detected in is unlikely the landfill is the source of this impact.

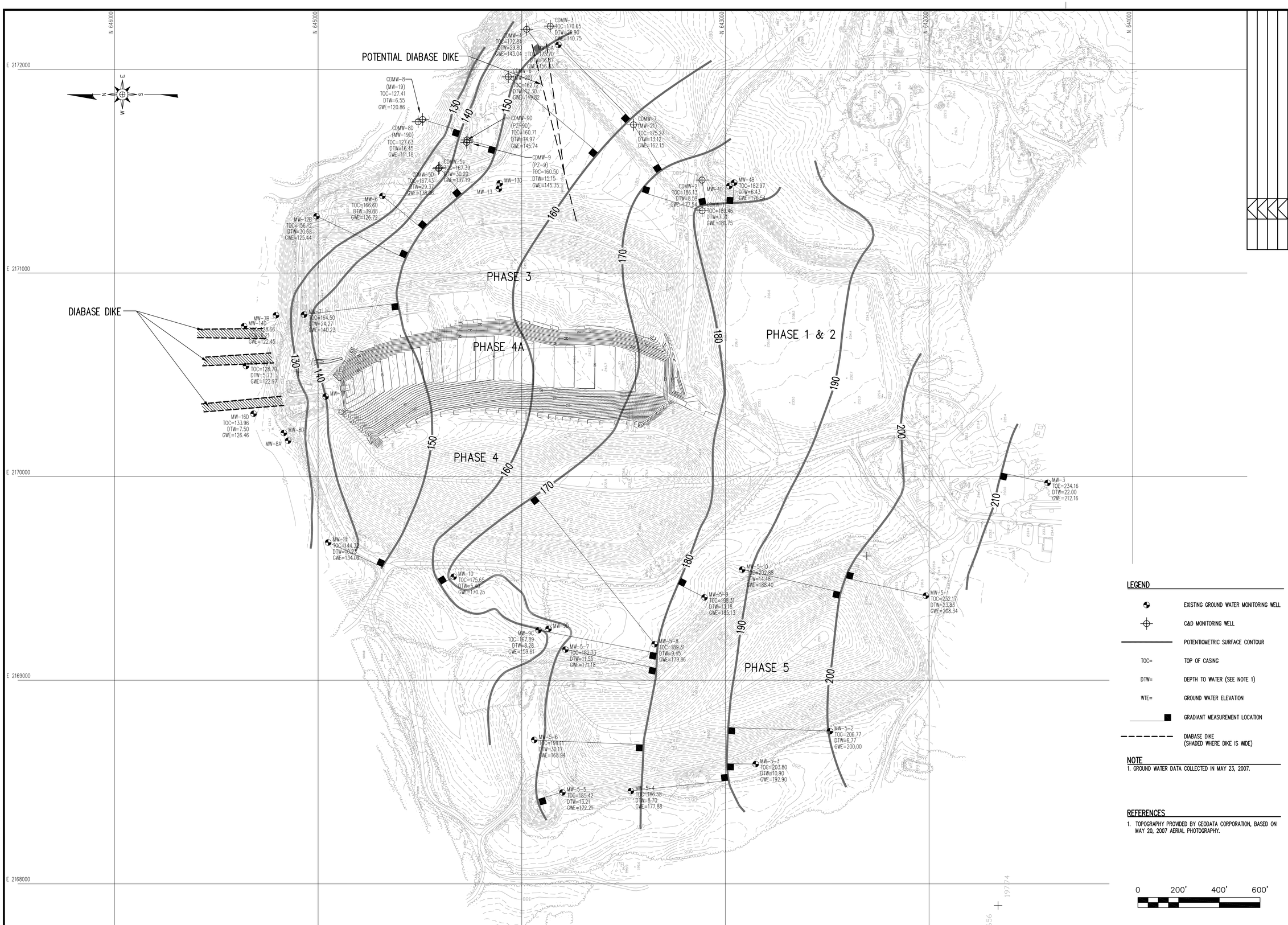
Further, given that this constituent is used as a pesticide and the site historically was a working farm, it appears that the historical use of the property may be the source. It should also be noted that other wells on-site that are associated with other landfill phases do not have detectable levels of this constituent, indicating it is restricted to relatively isolated area.

We will continue to monitor the levels of this constituent over the coming semi-annual events, as well as the barium and zinc levels which are likely due to natural variation and suspended solids in the samples.

7.0 Conclusions

The results of this monitoring event indicate three constituents detectable in groundwater collected from wells associated with Phase 5. We are continuing to evaluate the detections of 1, 2 dichloropropape in this phase but believe it to be due to historic fanning practices of the site. The next semi-annual sampling event will be performed in fall 2007. These results will be reported upon receipt of the laboratory data and completion of the statistical analyses.

Figures



LEGEND

- EXISTING GROUND WATER MONITORING WELL
- C&D MONITORING WELL
- POTENTIOMETRIC SURFACE CONTOUR
- TOC= TOP OF CASING
- DTW= DEPTH TO WATER (SEE NOTE 1)
- WTE= GROUND WATER ELEVATION
- GRADIANT MEASUREMENT LOCATION
- DIABASE DIKE (SHADED WHERE DIKE IS WIDE)

NOTE

1. GROUND WATER DATA COLLECTED IN MAY 23, 2007.

REFERENCES

1. TOPOGRAPHY PROVIDED BY GEODATA CORPORATION, BASED ON MAY 20, 2007 AERIAL PHOTOGRAPHY.

0 200' 400' 600'

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REVISION | NO. | DATE

SEAL

SEAL

PROJECT TITLE:
JOHNSTON COUNTY LANDFILL
SMITHFIELD, NORTH CAROLINA

DRAWING TITLE:
GROUND WATER
POTENTIOMETRIC SURFACE MAP
MAY 2007

DESIGNED BY: K.B.S.	DRAWN BY: J.A.L.
CHECKED BY:	PROJECT NO.: JOHN-4
SCALE: AS SHOWN	DATE: SEPT. 2007
FILE NAME: JOHN-D0516	
SHEET NO.	DRAWING NO. FIG. 1

G:\CAD\Johnston\John-4\sheets\JOHN-D0516.dwg - 9/5/2007 4:37 PM

Tables

Table 1
Johnston County Phase 5 Lined Landfill
Ground Water Elevations & Velocities
5/24/2007

Well	TOC Elevation (feet)	Water Level (feet)	GW Elev (feet)	Hyd. Cond. (ft/day)	Porosity (%)	Gradient (ft/ft)	Velocity (ft/day)
MW-5-1	232.17	23.83	208.34	2.275	0.2	0.020	0.228
MW-5-2	206.77	6.77	200	5.247	0.2	0.020	0.525
MW-5-3	203.8	10.9	192.9	0.995	0.2	0.019	0.095
MW-5-4	186.58	8.7	177.88	0.465	0.2	0.025	0.058
MW-5-5	185.42	13.21	172.21	0.261	0.2	0.017	0.022
MW-5-6	199.11	30.17	168.94	0.366	0.2	0.020	0.037
MW-5-7	182.73	11.55	171.18	0.422	0.2	0.019	0.040
MW-5-8	189.31	9.45	179.86	0.312	0.2	0.010	0.016
MW-5-9	198.31	13.18	185.13	0.309	0.2	0.034	0.053
MW-5-10	202.88	14.48	188.4	0.037	0.2	0.023	0.004
LL-1	na	na	na	na	na	na	na
LL-2	na	na	na	na	na	na	na
LL-3	na	na	na	na	na	na	na
LL-4	na	na	na	na	na	na	na

Notes

Velocity Calculated from V=K*I/n
V = velocity
K = Hydraulic Conductivity
I = Gradient
n = Porosity
Hydraulic Conductivity data from slug testing
Porosity values assumed from Groundwater & Wells (Driscoll)
na = not available

Table 2
Johnston County Phase 5 Lined Landfill
Field Parameters
5/24/2007

Well Identification #	Static Water Level (ft) * (DTW)	Temperature (°Celsius)	Turbidity (NTU)	pH	Specific Conductivity (uS/cm)
MW – 5-1	23.83	17.14	71.1	4.17	183
MW – 5-2	6.77	15.58	60	4.07	387
MW – 5-3	10.9	16.14	294	4.48	71
MW – 5-4	8.7	15.73	20.7	4.27	45
MW – 5-5	13.21	16.94	16.8	4.23	38
MW – 5-6	30.17	18.08	9.14	4.88	39
MW – 5-7	11.55	15.58	11.3	4.46	45
MW – 5-8	9.45	15.96	2.26	4.92	188
MW – 5-9	13.18	15.65	8.68	4.18	56
MW – 5-10	14.48	16.74	143	4.31	39
Phase 5 Direct Leachate	N/A	20.11	160	6.87	6470
Lagoon Lchte.#1	15.98	17.06	7.68	5.3	80
Lagoon Lchte. #2	16.59	16.55	11	5.38	90
Lagoon Lchte. #3	19.59	18.2	10.2	5.24	56
Lagoon Lchte. #4	9	14.51	14.1	5.44	85
SW5 – 1	N/A	19.35	7.62	5.63	317
SW5 – 2	N/A	17.34	41.6	6.22	103

Table 3
Johnston County Phase 5 Lined Landfill
Detected Inorganic and Organic Constituents
5/24/2007

Parameter	PQL	2L	MW-5-1	MW-5-2	MW-5-3	MW-5-4	MW-5-5	MW-5-6	MW-5-7	MW-5-8	MW-5-9	MW-5-10	SW-5-1	SW-5-2
1,2-Dichloropropane	1	0.56	ND	**4.7**	ND	ND	ND	ND	ND	**7.6**	ND	ND	ND	ND
Methylene Chloride	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1**	ND
Barium	100	2000	ND	**651**	ND	ND	ND	ND	ND	**285**	ND	ND	**616**	ND
Beryllium	1	--	ND	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
zinc	10	2100	ND	ND	**14**	ND	ND	ND	ND	ND	ND	ND	ND	**23**

Notes

ND = Not detected
Bold indicates level above PQL
Shading indicates level above 2L standard, or no standard is established.

All results are in ug/l.

Table 4
Johnston County Phase 5 Landfill
Statistical Analysis Summary
5/24/2007

LOCATION	PARAMETER	RESULT (ug/l)	%ND	Test	Statistically Significant?	2L/MCL statistical analysis	2L/MCL Test
MW-5-2	1,2-Dichloropropane	4.7	86.36	NPPL	N	---	---
MW-5-8	1,2-Dichloropropane	7.6	86.36	NPPL	Y	Y	MCL-PTI (EPA 1992)
MW-5-2	Barium	651	86.36	NPPL	Y	Y	MCL-PTI (EPA 1992)
MW-5-8	Barium	285	86.36	NPPL	N	---	---
MW-5-2	Beryllium	1	9318	PPL with 1/2 DL	N	---	---
MW-5-3	Zinc	14	93.18	PPL with 1/2 DL	N	---	---

Legend:

%ND	Method chosen due to percent non-detects
PPL	Poisson Prediction Limit
NPPL	Non-parametric Prediction Interval

Shading indicates statistical significance.

Notes:
MW-5-1 was used as the background well

Appendix A

Laboratory Analytical Report

Environment 1, Incorporated

REC'D JUN 29 2007

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6033 A

JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 05/24/07
DATE REPORTED : 06/28/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate	Analysis Date	Analyst	Method Code
BOD, mg/l	2.0	2.0	130	05/25/07	SMA	SM5210B
COD, mg/l	10.0	10.0	705	05/30/07	TRB	HACH8000
Total Suspended Residue, mg/l	1.0	1.0	116	05/25/07	MRJ	SM2540D
Ammonia Nitrogen, mg/l	0.04	0.04	208	05/31/07	TWA	EPA350.1
Nitrate Nitrogen, mg/l	0.03	10.0	0.09 J	05/25/07	SEJ	EPA353.2
Total Phosphorus, mg/l	0.04	0.04	0.76	05/31/07	SSR	EPA365.4
Sulfate, mg/l	5.0	250.0	8.1 J	05/31/07	TRB	SM4500-SO4E
Antimony, ug/l	0.05	6.0	1.7 J	06/13/07	ADD	EPA200.8
Arsenic, ug/l	1.00	10.0	7.9 J	06/27/07	CMF	SM3113B
Barium, ug/l	0.04	100.0	313	06/01/07	ADD	EPA200.8
Beryllium, ug/l	0.08	1.0	--- U	06/01/07	ADD	EPA200.8
Cadmium, ug/l	0.06	1.0	0.4 J	06/01/07	ADD	EPA200.8
Cobalt, ug/l	0.41	10.0	26	06/01/07	ADD	EPA200.8
Copper, ug/l	0.20	10.0	2.6 J	06/01/07	ADD	EPA200.8
Total Chromium, ug/l	0.24	10.0	9.2 J	06/01/07	ADD	EPA200.8
Lead, ug/l	0.07	10.0	0.8 J	06/01/07	ADD	EPA200.8
Nickel, ug/l	0.66	50.0	54	06/01/07	ADD	EPA200.8
Selenium, ug/l	2.00	10.0	--- U	06/22/07	CMF	SM3113B
Silver, ug/l	0.52	10.0	--- U	06/01/07	ADD	EPA200.8
Thallium, ug/l	0.07	5.0	0.3 J	06/01/07	ADD	EPA200.8
Vanadium, ug/l	0.42	25.0	6.6 J	06/01/07	ADD	EPA200.8
Zinc, ug/l	0.20	10.0	1212	06/01/07	ADD	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6033 A

ANALYST: MAO
DATE COLLECTED: 05/24/07
DATE ANALYZED: 06/05/07
DATE REPORTED: 06/28/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate	Trip Blank
1. Chloromethane	0.18	1.0	--- U	--- U
2. Vinyl Chloride	0.34	1.0	1.10	--- U
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	0.60 J	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	232.00	--- U
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	2.60 J	--- U
10. Methylene Chloride	0.14	1.0	0.20 J	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	0.20 J	--- U
12. 1,1-Dichloroethane	0.16	5.0	1.10 J	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	6.60	--- U
15. 2-Butanone	0.85	100.0	440.00	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	3.30	--- U
21. 1,2-Dichloroethane	0.12	1.0	1.50	--- U
22. Trichloroethene	0.13	1.0	0.20 J	--- U
23. 1,2-Dichloropropane	0.17	1.0	0.40 J	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	8.10 J	--- U
27. Toluene	0.13	1.0	35.00	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	1.50 J	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	1.40 J	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	6.40	--- U
37. Xylenes	0.48	4.0	15.90	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	6.70	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	0.20 J	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
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MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 05/24/07
DATE REPORTED : 06/27/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Jun Box	Analysis Date	Analyst	Method Code
BOD, mg/l	2.0	2.0	190	05/25/07	SMA	SM5210B
COD, mg/l	10.0	10.0	891	05/30/07	TRB	HACH8000
Total Suspended Residue, mg/l	1.0	1.0	90	05/25/07	MRJ	SM2540D
Ammonia Nitrogen, mg/l	0.04	0.04	405	05/31/07	TWA	EPA350.1
Nitrate Nitrogen, mg/l	0.03	10.0	0.04 J	05/25/07	SEJ	EPA353.2
Total Phosphorus, mg/l	0.04	0.04	3.08	05/31/07	SSR	EPA365.4
Antimony, ug/l	0.05	6.0	3.2 J	06/13/07	ADD	EPA200.8
Arsenic, ug/l	0.47	10.0	92	06/01/07	ADD	EPA200.8
Barium, ug/l	0.04	100.0	1733	06/01/07	ADD	EPA200.8
Beryllium, ug/l	0.08	1.0	0.2 J	06/01/07	ADD	EPA200.8
Cadmium, ug/l	0.06	1.0	1.0	06/01/07	ADD	EPA200.8
Cobalt, ug/l	0.41	10.0	22	06/01/07	ADD	EPA200.8
Copper, ug/l	0.20	10.0	5.8 J	06/01/07	ADD	EPA200.8
Total Chromium, ug/l	0.24	10.0	8.9 J	06/01/07	ADD	EPA200.8
Lead, ug/l	0.07	10.0	3.3 J	06/01/07	ADD	EPA200.8
Nickel, ug/l	0.66	50.0	116	06/01/07	ADD	EPA200.8
Selenium, ug/l	2.00	10.0	--- U	06/22/07	CMF	SM3113B
Silver, ug/l	0.52	10.0	--- U	06/01/07	ADD	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	06/01/07	ADD	EPA200.8
Vanadium, ug/l	0.42	25.0	8.6 J	06/01/07	ADD	EPA200.8
Zinc, ug/l	0.20	10.0	7136	06/01/07	ADD	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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ANALYST: MAO
DATE COLLECTED: 05/24/07
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DATE REPORTED: 06/27/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Junct. Box
1. Chloromethane	0.18	1.0	0.30 J
2. Vinyl Chloride	0.34	1.0	3.10
3. Bromomethane	0.26	10.0	--- U
4. Chloroethane	0.29	10.0	1.00 J
5. Trichlorofluoromethane	0.13	1.0	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U
7. Acetone	1.21	100.0	20.20 J
8. Iodomethane	0.12	10.0	--- U
9. Carbon Disulfide	0.14	100.0	11.20 J
10. Methylene Chloride	0.14	1.0	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	0.30 J
12. 1,1-Dichloroethane	0.16	5.0	2.50 J
13. Vinyl Acetate	0.20	5.0	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	1.80 J
15. 2-Butanone	0.85	100.0	5.60 J
16. Bromochloromethane	0.11	3.0	--- U
17. Chloroform	0.13	5.0	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U
20. Benzene	0.16	1.0	11.30
21. 1,2-Dichloroethane	0.12	1.0	0.40 J
22. Trichloroethene	0.13	1.0	--- U
23. 1,2-Dichloropropane	0.17	1.0	0.20 J
24. Bromodichloromethane	0.13	1.0	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	1.40 J
27. Toluene	0.13	1.0	27.30
28. trans-1,3-Dichloropropene	0.14	1.0	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U
30. Tetrachloroethene	0.16	1.0	--- U
31. 2-Hexanone	1.00	50.0	--- U
32. Dibromochloromethane	0.14	1.0	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U
34. Chlorobenzene	0.13	3.0	2.80 J
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U
36. Ethylbenzene	0.16	1.0	82.90
37. Xylenes	0.48	4.0	112.00
38. Dibromomethane	0.17	10.0	--- U
39. Styrene	0.16	1.0	1.50
40. Bromoform	0.11	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	15.30
44. 1,2-Dichlorobenzene	0.13	5.0	0.20 J
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U
46. Acrylonitrile	1.49	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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Drinking Water ID: 37725
Wastewater ID: 10

ID#: 6033

JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 05/29/07
DATE REPORTED : 06/21/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW5-1	MW5-2	MW5-3	MW5-4	MW5-6	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.05	6.0	0.1 J	--- U	--- U	--- U	--- U	06/13/07	ADD	EPA200.8
Arsenic, ug/l	0.47	10.0	1.0 J	--- U	--- U	--- U	1.5 J	06/01/07	ADD	EPA200.8
Barium, ug/l	0.04	100.0	77.5 J	651	96.9 J	72.8 J	42.2 J	06/01/07	ADD	EPA200.8
Beryllium, ug/l	0.08	1.0	0.5 J	1.0	0.8 J	0.3 J	--- U	06/01/07	ADD	EPA200.8
Cadmium, ug/l	0.06	1.0	0.2 J	0.4 J	0.2 J	--- U	--- U	06/01/07	ADD	EPA200.8
Cobalt, ug/l	0.41	10.0	3.1 J	7.2 J	3.2 J	5.5 J	2.4 J	06/01/07	ADD	EPA200.8
Copper, ug/l	0.20	10.0	0.7 J	1.2 J	4.9 J	1.6 J	2.9 J	06/01/07	ADD	EPA200.8
Total Chromium, ug/l	0.24	10.0	1.7 J	0.8 J	2.4 J	--- U	0.3 J	06/01/07	ADD	EPA200.8
Lead, ug/l	0.07	10.0	4.6 J	7.5 J	7.2 J	1.1 J	2.1 J	06/01/07	ADD	EPA200.8
Nickel, ug/l	0.66	50.0	4.7 J	8.4 J	3.1 J	4.5 J	1.0 J	06/01/07	ADD	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	0.6 J	--- U	--- U	--- U	06/01/07	ADD	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U	--- U	06/01/07	ADD	EPA200.8
Thallium, ug/l	0.07	5.0	0.1 J	0.2 J	--- U	0.1 J	--- U	06/01/07	ADD	EPA200.8
Vanadium, ug/l	0.42	25.0	4.6 J	2.4 J	6.7 J	1.2 J	1.0 J	06/01/07	ADD	EPA200.8
Zinc, ug/l	0.20	10.0	4.8 J	8.4 J	14	8.7 J	3.5 J	06/01/07	ADD	EPA200.8

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6033

JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 05/29/07
DATE REPORTED : 06/21/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW5-7	MW5-8	MW5-9	Leachate Lagoon #1	Leachate Lagoon #2	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.05	6.0	--- U	0.1 J		0.1 J		06/13/07	ADD	EPA200.8
Antimony, ug/l	0.05	6.0			--- U		--- U	06/05/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	--- U	--- U		--- U		06/01/07	ADD	EPA200.8
Arsenic, ug/l	0.47	10.0			--- U		--- U	06/05/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	71.0 J	285		14.2 J		06/01/07	ADD	EPA200.8
Barium, ug/l	0.04	100.0			73.4 J		7.9 J	06/05/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	0.2 J	--- U		--- U		06/01/07	ADD	EPA200.8
Beryllium, ug/l	0.08	1.0			0.1 J		--- U	06/05/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	0.2 J		0.1 J		06/01/07	ADD	EPA200.8
Cadmium, ug/l	0.06	1.0			0.1 J		--- U	06/05/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	2.8 J	3.2 J		--- U		06/01/07	ADD	EPA200.8
Cobalt, ug/l	0.41	10.0			1.3 J		0.9 J	06/05/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	0.8 J	0.34 J		--- U		06/01/07	ADD	EPA200.8
Copper, ug/l	0.20	10.0			0.5 J		0.4 J	06/05/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	1.1 J	--- U		0.5 J		06/01/07	ADD	EPA200.8
Total Chromium, ug/l	0.24	10.0			0.3 J		0.6 J	06/05/07	CMF	EPA200.8
Lead, ug/l	0.07	10.0	1.5 J	2.2 J		0.2 J		06/01/07	ADD	EPA200.8
Lead, ug/l	0.07	10.0			1.0 J		0.1 J	06/05/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0	2.6 J	3.2 J		2.6 J		06/01/07	ADD	EPA200.8
Nickel, ug/l	0.66	50.0			1.2 J		1.8 J	06/05/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U		1.9 J		06/01/07	ADD	EPA200.8
Selenium, ug/l	0.35	10.0			0.6 J		--- U	06/05/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U		--- U		06/01/07	ADD	EPA200.8
Silver, ug/l	0.52	10.0			--- U		--- U	06/05/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	0.2 J		--- U		06/01/07	ADD	EPA200.8
Thallium, ug/l	0.07	5.0			--- U		--- U	06/05/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	1.3 J	0.9 J		1.1 J		06/01/07	ADD	EPA200.8
Vanadium, ug/l	0.42	25.0			1.0 J		1.2 J	06/05/07	CMF	EPA200.8

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6033

JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 05/29/07
DATE REPORTED : 06/21/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW5-7	MW5-8	MW5-9	Leachate Lagoon #1	Leachate Lagoon #2	Analysis Date	Analyst	Method Code
Zinc, ug/l	0.20	10.0	5.5 J	2.5 J		3.4 J		06/01/07	ADD	EPA200.8
Zinc, ug/l	0.20	10.0			6.9 J		30	06/05/07	CMF	EPA200.8

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JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 05/29/07
DATE REPORTED : 06/21/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Lagoon #3	Leachate Lagoon #4	Surface Water #5-1	Surface Water #5-2	MW-5(5')	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.05	6.0	--- U	--- U			--- U	06/13/07	ADD	EPA200.8
Antimony, ug/l	0.05	6.0			--- U	--- U		06/05/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	--- U	--- U			--- U	06/01/07	ADD	EPA200.8
Arsenic, ug/l	0.47	10.0			--- U	1.1 J		06/05/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	14.1 J	1.2 J			49.5 J	06/01/07	ADD	EPA200.8
Barium, ug/l	0.04	100.0			616	90.7 J		06/05/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	--- U	--- U			0.1 J	06/01/07	ADD	EPA200.8
Beryllium, ug/l	0.08	1.0			0.3 J	0.1 J		06/05/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	--- U			--- U	06/01/07	ADD	EPA200.8
Cadmium, ug/l	0.06	1.0			0.2 J	0.1 J		06/05/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	--- U	--- U			1.8 J	06/01/07	ADD	EPA200.8
Cobalt, ug/l	0.41	10.0			2.8 J	8.9 J		06/05/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	--- U	--- U			0.4 J	06/01/07	ADD	EPA200.8
Copper, ug/l	0.20	10.0			0.4 J	2.4 J		06/05/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	--- U	0.4 J			0.4 J	06/01/07	ADD	EPA200.8
Total Chromium, ug/l	0.24	10.0			0.3 J	2.1 J		06/05/07	CMF	EPA200.8
Lead, ug/l	0.07	10.0	0.1 J	0.1 J			3.3 J	06/01/07	ADD	EPA200.8
Lead, ug/l	0.07	10.0			0.9 J	3.4 J		06/05/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0	1.2 J	--- U			1.0 J	06/01/07	ADD	EPA200.8
Nickel, ug/l	0.66	50.0			5.3 J	2.8 J		06/05/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U			--- U	06/01/07	ADD	EPA200.8
Selenium, ug/l	0.35	10.0			--- U	--- U		06/05/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U			--- U	06/01/07	ADD	EPA200.8
Silver, ug/l	0.52	10.0			--- U	--- U		06/05/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U			--- U	06/01/07	ADD	EPA200.8
Thallium, ug/l	0.07	5.0			--- U	--- U		06/05/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	1.2 J	1.3 J			1.1 J	06/01/07	ADD	EPA200.8
Vanadium, ug/l	0.42	25.0			1.0 J	5.1 J		06/05/07	CMF	EPA200.8

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6033

JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 05/29/07
DATE REPORTED : 06/21/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Lagoon #3	Leachate Lagoon #4	Surface Water #5-1	Surface Water #5-2	MW-5(5')	Analysis Date	Analyst	Method Code
Zinc, ug/l	0.20	10.0	7.8 J	3.0 J			2.6 J	06/01/07	ADD	EPA200.8
Zinc, ug/l	0.20	10.0			7.9 J	23		06/05/07	CMF	EPA200.8

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GREENVILLE, N.C. 27835-7085

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Drinking Water ID: 37715
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JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 05/29/07
DATE REPORTED : 06/21/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-5(10')	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.05	6.0	--- U	06/05/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	0.6 J	06/05/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	42.3 J	06/05/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	0.1 J	06/05/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	0.1 J	06/05/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	2.6 J	06/05/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	1.0 J	06/05/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	1.0 J	06/05/07	CMF	EPA200.8
Lead, ug/l	0.07	10.0	3.8 J	06/05/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0	1.2 J	06/05/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	0.5 J	06/05/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	06/05/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	0.1 J	06/05/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	4.1 J	06/05/07	CMF	EPA200.8
Zinc, ug/l	0.20	10.0	4.6 J	06/05/07	CMF	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6033

ANALYST: MAO
DATE COLLECTED: 05/29/07
DATE REPORTED: 06/21/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	06/05/07 MW5-1	06/05/07 MW5-2	06/05/07 MW5-3	06/07/07 MW5-4	06/07/07 MW5-6
Date Analyzed:			06/05/07	06/05/07	06/05/07	06/07/07	06/07/07
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	2.80 J	--- U	3.70 J	2.60 J	5.50 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	0.50 J
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	1.20 J	--- U	1.20 J	0.90 J	2.00 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	0.50 J
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	0.20 J	4.70	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.50 J	0.50 J	0.50 J	0.50 J	0.80 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	0.40 J	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	0.30 J	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6033

ANALYST: MAO
DATE COLLECTED: 05/29/07
DATE REPORTED: 06/21/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	06/07/07 MW5-7	06/07/07 MW5-8	06/07/07 MW5-9	06/07/07 Leachate Lagoon #1	06/07/07 Leachate Lagoon #2
	Date Analyzed:						
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	0.20 J
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	2.80 J	3.40 J	3.40 J	3.50 J	3.50 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	1.30 J	1.30 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	0.20 J	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	0.20 J	7.60	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.60 J	0.50 J	0.80 J	0.60 J	0.40 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	0.40 J	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	0.30 J	--- U	0.30 J	0.30 J	0.30 J
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6033

ANALYST: MAO
DATE COLLECTED: 05/29/07
DATE REPORTED: 06/21/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	06/07/07 Leachate Lagoon #3	06/07/07 Leachate Lagoon #4	06/07/07 Surface Water #5-1	06/11/07 Surface Water #5-2	06/07/07 MW-5(5')
Date Analyzed:							
1. Chloromethane	0.18	1.0	--- U	--- U	0.20 J	0.30 J	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	3.50 J	2.90 J	6.50 J	4.60 J	3.00 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	1.00	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	1.20 J	--- U	1.60 J	1.30 J	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.50 J	0.40 J	0.90 J	0.90 J	0.50 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	0.30 J	--- U	0.50 J	0.40 J	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6033

ANALYST: MAO
DATE COLLECTED: 05/29/07
DATE REPORTED: 06/21/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	06/07/07 MW-5(10')	06/07/07 Equipment Blank	06/07/07 Trip Blank
	Date Analyzed:				
1. Chloromethane	0.18	1.0	0.20 J	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U
7. Acetone	1.21	100.0	2.80 J	3.50 J	3.00 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.40 J	0.60 J	0.30 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	0.30 J	0.80 J	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment-1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

1 COOLER ONLY

CHAIN OF CUSTODY RECORD

CLIENT: 6033 **Week: 16**

JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD NC 27577

(919) 938-4750

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	BOD	COD	TSR	Ammonia Nitro.	Nitrate	PO4	Metals	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3
CHLORINE NEUTRALIZED AT COLLECTION																
pH CHECK (LAB)												L2	L2	L2	L2	L2
CONTAINER TYPE, P/G						P	P	P	P	P	P	P	G	G	G	G
CHEMICAL PRESERVATION						A	C	A	C	A	C	B	E	E	E	E
MW5-1	5/29/07	18:35	N/A	17	4											
MW5-2		16:59		16	3											
MW5-3		17:30		16	3											
MW5-4		12:25		16	3											
MW5-6		18:02		18	3											
MW5-7		09:54		16	3											
MW5-8		10:43		16	3											
MW5-9		11:27		16	3											
Leachate Lagoon #1		14:26		17	3											
Leachate Lagoon #2		15:05		17	3											
Leachate Lagoon #3		15:40		18	3											

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [x] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
KEVIN J. SHIELDS

SAMPLES RECEIVED IN LAB AT 1.4 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	09:30 5/30/07	[signature]	5/30/07 3:20
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 144492

FORM #5

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6033 **Week: 16**

JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD NC 27577

(919) 938-4750

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	BOD	COD	TSR	Ammonia Nitro.	Nitrate	PO4	Metals	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3
CHLORINE NEUTRALIZED AT COLLECTION																
pH CHECK (LAB)												L2	L2	L2	L2	L2
CONTAINER TYPE, P/G						P	P	P	P	P	P	P	G	G	G	G
CHEMICAL PRESERVATION						A	C	A	C	A	C	B	E	E	E	E
Leachate Lagoon #4	5/29/07	16:13	N/D	15	5							■	■	■	■	■
Surface Water #5-1	5/29/07	08:35	↓	19	3							■	■	■		
Surface Water #5-2	5/29/07	09:10	↓	17	3							■	■	■		
Leachate Junct. Box					9	■	■	■	■	■	■	■	■	■		
MW-5(5')	5/29/07	13:02	N/A	17 ~~15~~	3							■	■	■		
MW-5(10')	↓	13:39	↓	17	3							■	■	■		
Equipment Blank		18:55		N/A	1/2								■	▨		
Trip Blank		N/A		N/A	1/2								■	▨		

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y N

SAMPLES COLLECTED BY: (Please Print) KEVIN J. SHIELDS

SAMPLES RECEIVED IN LAB AT 1.4 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	5/30/07 09:30	[signature]	5/30/07 15:20
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 144491

FORM #5

Environment 1, Inc.
P.O. Box ~~7085, 114~~ Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6033 A **Week: 13**

JOHNSTON CO. LANDFILL (PHASE 5)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD NC 27577

(919) 938-4750

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	BOD	COD	TSR	Ammonia Nitro.	Nitrate	PO4	Sulfate	Metals	EPA 8260B	8260 Dup. 1
CHLORINE NEUTRALIZED AT COLLECTION															
pH CHECK (LAB)							L2		L2	L2			L2	L2	L2
CONTAINER TYPE, P/G						P	P	P	P	P	P	P	P	G	G
CHEMICAL PRESERVATION						A	C	A	C	A	C	A	B	E	E
Leachate	5/24/07	13:42	N/A	20	10										
Trip Blank					2										

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [x] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y N

SAMPLES COLLECTED BY: (Please Print) KEVIN J. SHIELDS

SAMPLES RECEIVED IN LAB AT 4 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	09:30 5/25/07	[signature]	5/25/07 2:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 142874

- 1 Cooler -

CHAIN OF CUSTODY RECORD

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CLIENT: 6054 & 6033 WEEK #16

JOHNSTON COUNTY LANDFILL
(PHASE 4A & PHASE 5)
KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577
(919) 938-4747

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	BOD	COD	TSS	Ammonia Nitro.	Nitrate	PO4	Metals	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION															
pH CHECK (LAB)							L		L		L	L	L2	L2	L2
CONTAINER TYPE, P/G						P	P	P	P	P	P	P	G	G	G
CHEMICAL PRESERVATION						A	C	A	C	A	C	B	E	E	E
LEAK DETECTION (4A)	5/24/07	12:22	N/A	19	10	X	X	X	X	X	X	X	X	X	X
LEACHATE JUNC. BOX (4A)	↓	11:02	N/A	21	9	X	X	X	X	X	X	X	X	X	
LEACHATE JUNC. BOX (5)	↓	15:24	N/A	20	9	X	X	X	X	X	X	X	X	X	
TRIP BLANK	↓	N/A	N/A	N/A	1								X		

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY:
(Please Print)
KEVIN J. SHIELDS

SAMPLES RECEIVED IN LAB AT 6.2°C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	5/25/07 09:30	[signature]	5/25/07 9:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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№ 150312

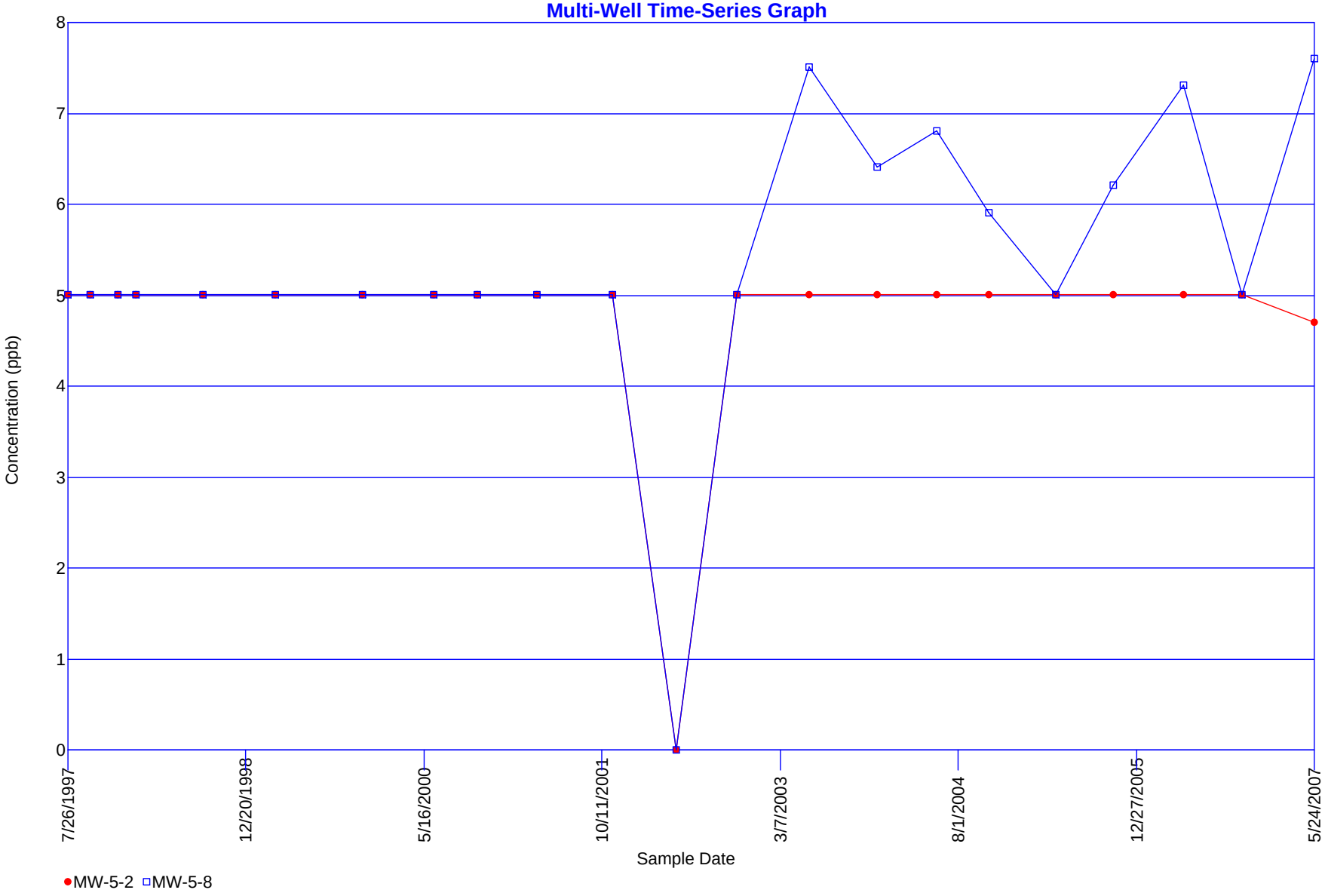
FORM #5

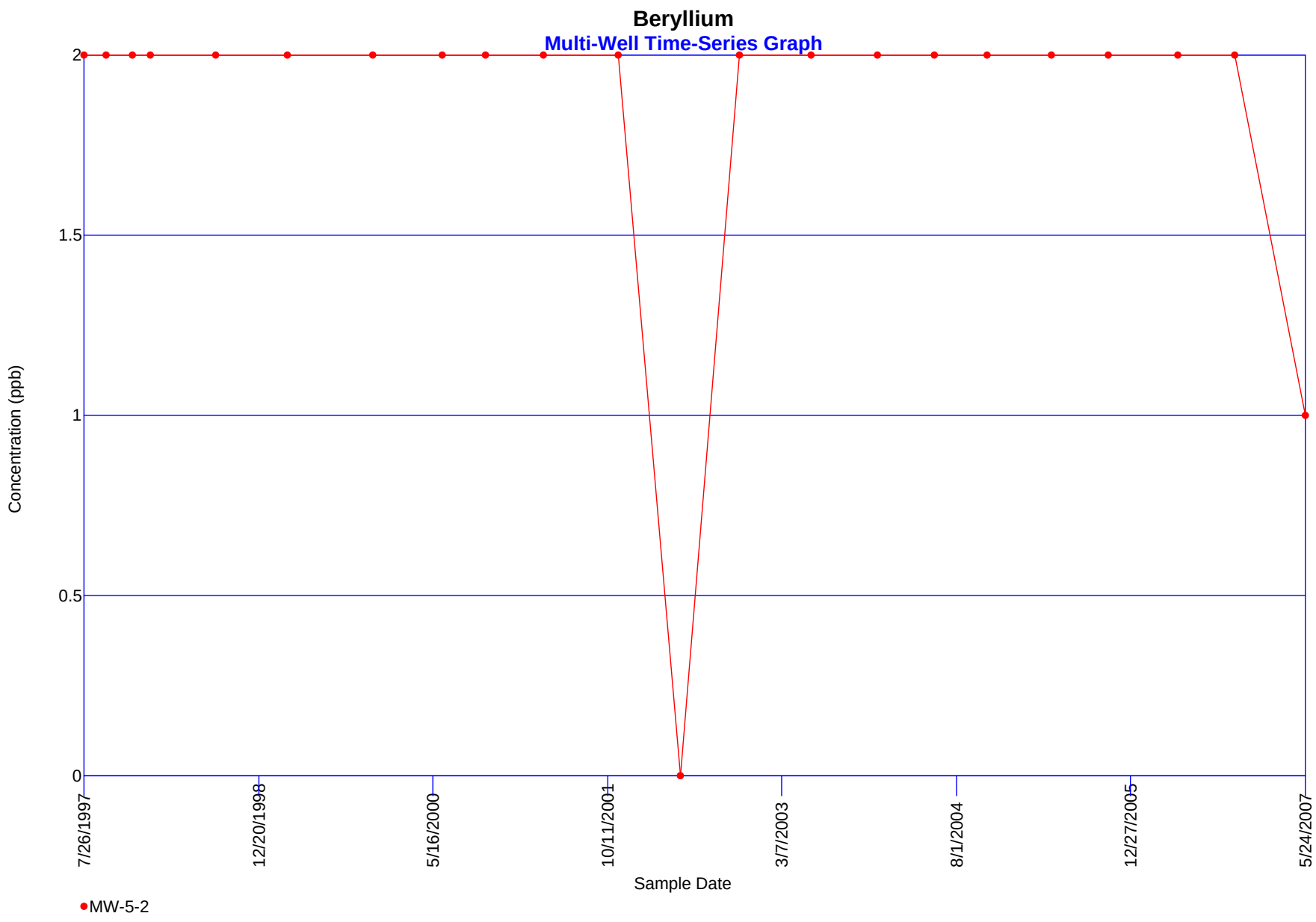
Appendix B

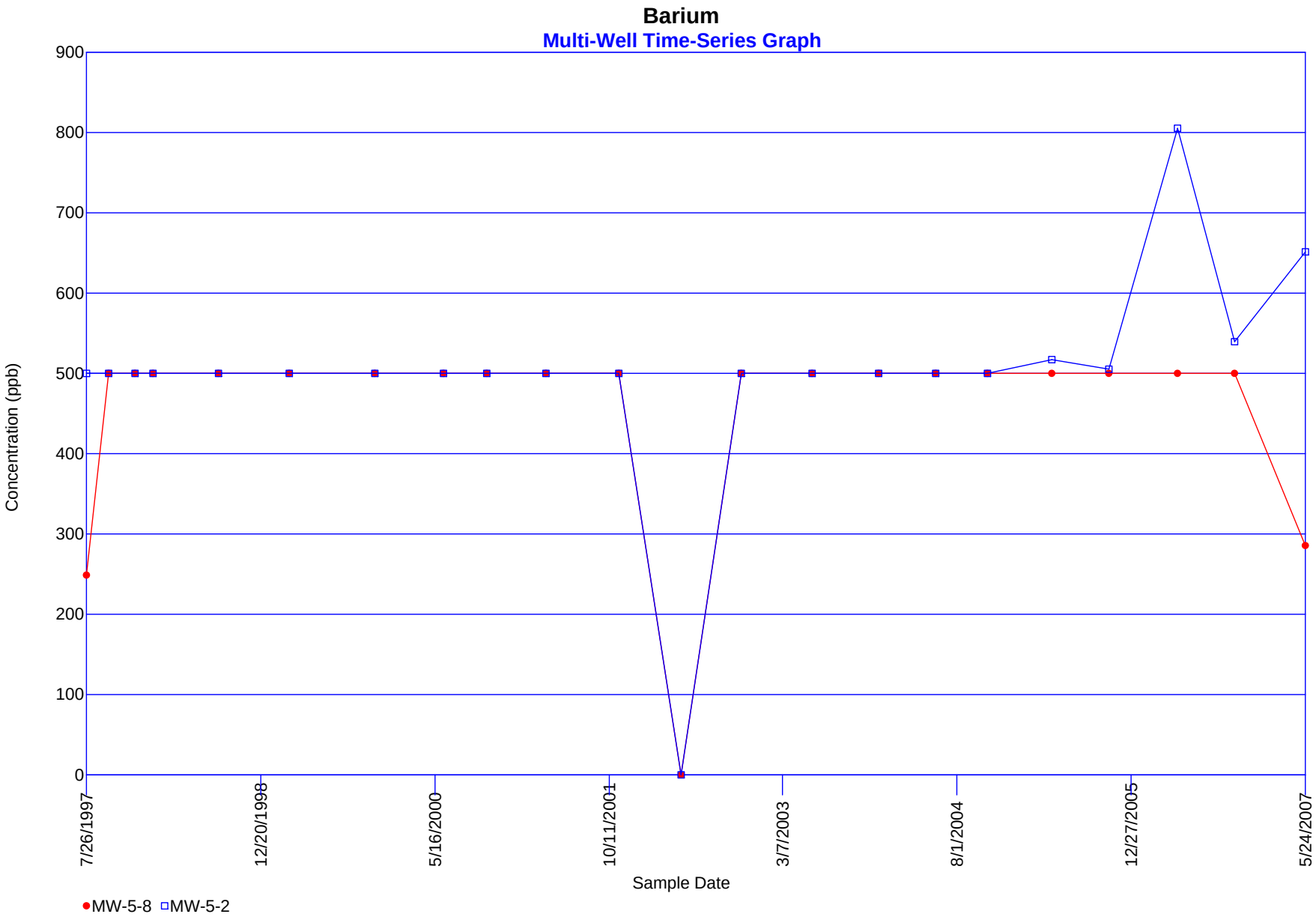
Time vs. Concentration Graphs

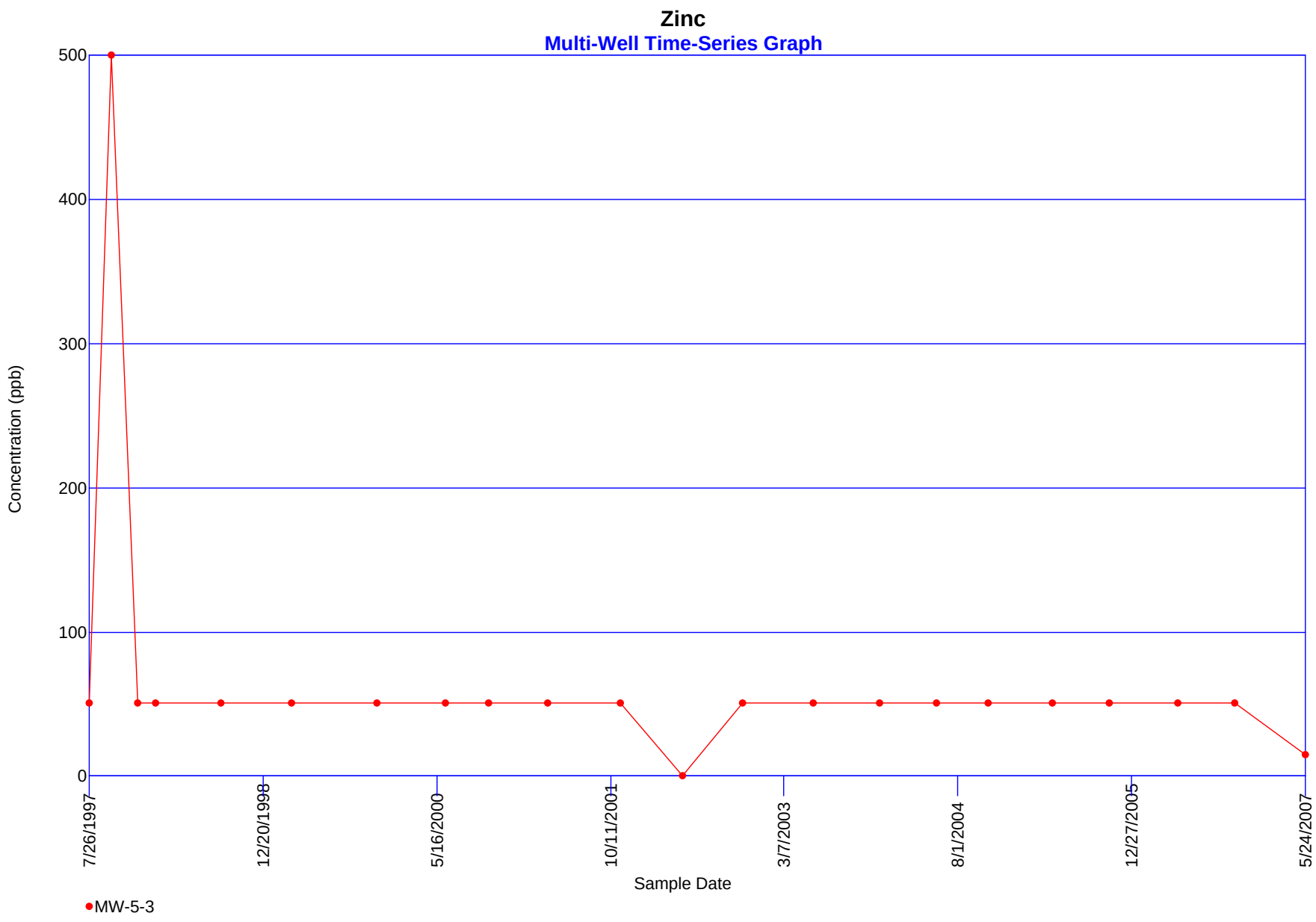
1,2-Dichloropropane

Multi-Well Time-Series Graph




Beryllium
Multi-Well Time-Series Graph
Concentration (ppb)
2
1.5
1
0.5
0
7/26/1997
12/20/1998
5/16/2000
10/11/2001
3/7/2003
8/1/2004
12/27/2005
5/24/2007
Sample Date
MW-5-2


Barium
Multi-Well Time-Series Graph
900
800
700
600
500
400
300
200
100
0
Concentration (ppb)
7/26/1997
12/20/1998
5/16/2000
10/11/2001
3/7/2003
8/1/2004
12/27/2005
5/24/2007
Sample Date
MW-5-8
MW-5-2


Zinc
Multi-Well Time-Series Graph
500
400
300
200
100
0
Concentration (ppb)
7/26/1997
12/20/1998
5/16/2000
10/11/2001
3/7/2003
8/1/2004
12/27/2005
5/24/2007
Sample Date
MW-5-3