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LAW
LAWGIBB Group Member

REPORT OF
SEMI-ANNUAL WATER QUALITY MONITORING
Series 1
October 1999

SWEPSONVILLE LANDFILL - PRE-SUBTITLE D
GRAHAM, ALAMANCE COUNTY, NORTH CAROLINA

Prepared For:

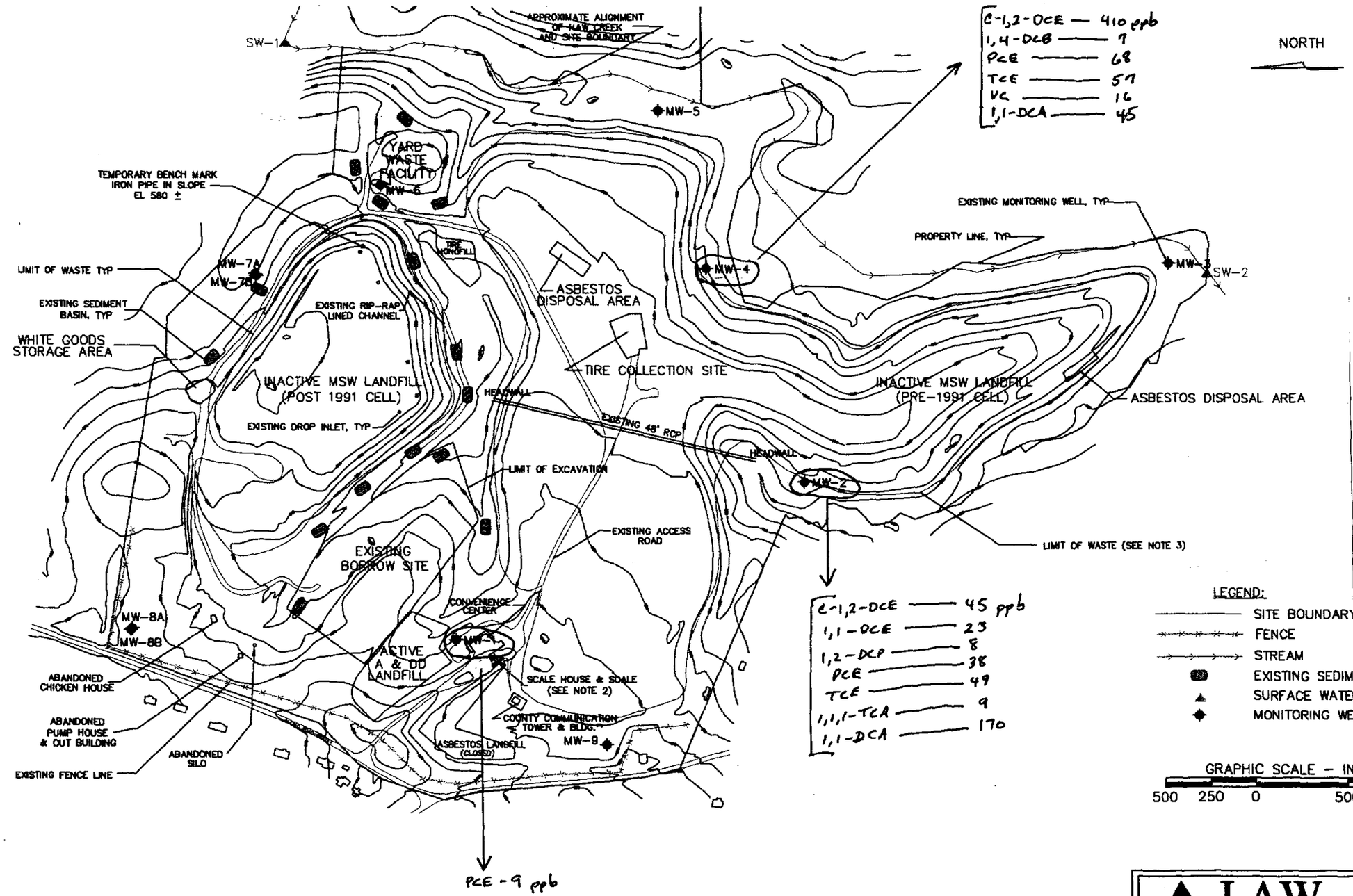
Alamance County
Graham, North Carolina

Prepared By:

Law Engineering and Environmental Services, Inc.
Greensboro, North Carolina

LAW Project 30440-9-0124

February 24, 2000



- VOCs > 2L MW 2 + 4
- Possibility exists for off-site contamination around MW-4

NOTES:

AERIAL SURVEY FLOWN BY WESTINGHOUSE LANDMARK GIS, INC., CARY, NC IN MAY 1993. THIS DRAWING DENOTES EXISTING GRADES FOR THAT DATE.

SCALE HOUSE AND SCALE TO BE RELOCATED TO AUSTIN QUARTER ROAD SOLID WASTE MANAGEMENT FACILITY.

EXISTING LIMITS OF WASTE ARE APPROXIMATE AS PROVIDED BY THE COUNTY.

BASE MAP FROM HAZEN AND SAWYER DRAWING; JOB NUMBER 3707, CONTRACT NUMBER 1A, DRAWING NUMBER G1, SHEET 2 OF 6, OCTOBER 1993.

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
GREENSBORO, NORTH CAROLINA

MONITORING WELL AND SURFACE WATER LOCATIONS
SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA

DRAWN BY: PWS	DATE: 02/25/00	CHCKD: PWS	DATE: 02/25/00
PROJECT NO. 30440-9-0124	FIG. 2		

- Vertical flow @ MW-4 - up or down?
- Is creek a discharge for GW.

Table 2
Summary of Groundwater and Surface Water Analytical Results
Swepsonville Landfill
Series 2 - March 2000

Parameter	MDL	Analytical Results																											
Sample ID		MW-1		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7A		MW-7B		MW-8A		MW-8B		MW-9		SW-1		SW-2		2L Ground-Water Quality Standards	2B Water Quality Standards
Depth (feet)		33.00		29.90		24.10		50.00		19.00		50.00		64.02		31.05		65.00		26.00		27.50		N/A		N/A			
Collection Date		10/15/99	4/12/00	10/13/99	4/17/00	10/14/99	4/12/00	10/15/99	4/12/00	10/15/99	4/12/00	10/15/99	4/12/00	10/16/99	4/12/00	10/15/99	4/12/00	10/18/99	4/17/00	10/18/99	4/17/00	10/14/99	4/17/00	10/16/99	4/12/00	10/14/99	4/12/00		
Appendix I Volatile Organic Compounds (µg/l):																													
Chloroethane	10	<10	<10	<10	<10	<10	<10	<10	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2800	NE
Cis-1,2-[redacted]	5	<5	<5	45	18	<5	<5	[redacted]	[redacted]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	70	NE
1,4-Dichlorobenzene	5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NE	NE
1,1-Dichloroethane	5	<5	<5	170	57	<5	<5	45	43	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	700	NE
1,1-[redacted]	5	<5	<5	**23**	[redacted]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	NE
1,2-Dichloropropane	5	<5	<5	**8**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.56	NE
Tet[redacted]	5	**9**	<5	**38**	[redacted]	<5	<5	**68**	[redacted]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.7	NE
1,1,1-Trichloroethane	5	<5	<5	9	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	200	NE
Trichl[redacted]ene	5	<5	<5	**49**	[redacted]	<5	<5	**57**	[redacted]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	2.8	NE
Vinyl C[redacted]	10	<10	<10	<10	<10	<10	<10	**16**	[redacted]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.015	NE
Appendix I Total Metals (mg/l):																													
Arsenic	0.01	<0.010	<0.010	0.011	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	NE
Barium	0.5	<0.5	<0.5	0.89	1.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2	NE
Beryllium	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NE	NE
Cadmium	0.001	<0.001	0.002	**0.006**	[redacted]	0.002	0.002	0.002	0.002	0.001	0.004	<0.001	0.001	<0.001	0.001	0.001	0.005	<0.001	0.001	0.001	0.002	0.002	0.003	<0.001	<0.001	<0.001	<0.001	0.005	NE
Chromium	0.01	<0.01	<0.01	0.066	0.042	0.024	<0.01	<0.01	<0.01	0.018	0.042	<0.01	<0.01	<0.01	<0.01	<0.01	0.019	<0.01	<0.01	<0.01	<0.01	0.016	0.022	<0.01	<0.01	<0.01	<0.01	NE	NE
Cobalt	0.01	<0.01	<0.01	0.049	0.039	0.016	<0.01	0.072	0.071	0.012	0.026	<0.01	<0.01	<0.01	<0.01	<0.01	0.029	<0.01	<0.01	0.012	<0.01	0.11	0.058	<0.01	<0.01	<0.01	<0.01	NE	NE
Lead	0.01	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	[redacted]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	0.015	NE
Nickel	0.05	<0.05	<0.05	0.062	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	NE
Vanadium	0.04	<0.04	<0.04	0.22	0.18	0.061	<0.04	0.14	<0.04	0.059	0.130	<0.04	<0.04	<0.04	<0.04	<0.04	0.12	<0.04	<0.04	<0.04	<0.04	0.051	0.058	<0.04	<0.04	<0.04	<0.04	NE	NE
Zinc	0.05	<0.05	0.086	0.26	0.17	0.064	0.053	0.061	<0.05	<0.05	0.097	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	<0.05	<0.05	0.071	0.068	0.093	0.170	<0.05	<0.05	<0.05	0.061	2.10	NE

Notes:
BOLD - Concentration exceeds the 2L Groundwater Quality Standards or 2B Water Quality Criteria
MDL - Method Detection Limit
2B Surface Water Quality Standards, North Carolina Administrative Code Title 15A, NCDENR, Subchapter 2B, Classifications and Surface Water Quality Standards
2L Groundwater Quality Standard - North Carolina Administrative Code Title 15A, NCDENR, Subchapter 2L, Section .0200, Classifications and Water Quality Standards dated November 9, 1993 as ammended on April 14, 1998
NE - Not Established

Prepared By: JAM Date: 5/15/00
Checked By: [signature] Date: 5/15/00