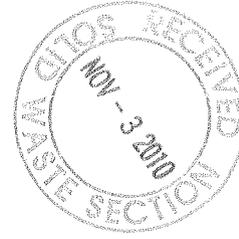


DIN 13474



**September 2010 Proposed Surfacewater/Groundwater Assessment Monitoring Plan
Former Wiley Davis Landfill
Wiley Davis Road
Greensboro, North Carolina
Permit #41-B
September 7, 2010**

Prepared For Submittal To

**Griffin Industrial Services, LLC
Greensboro, North Carolina 27407**

Prepared By

**Waters Edge Environmental, LLC
Raleigh, North Carolina**



September 7, 2010

Mr. David Griffin, Jr.
Griffin Industrial Services, LLC
4700 Hilltop Road
Greensboro, North Carolina 27407

Reference: September 2010 Surfacewater/Groundwater Assessment Monitoring Plan
Former Wiley David Landfill
Wiley Davis Road
Greensboro, North Carolina
Permit #41-B
Waters Edge Job No. R5-34

Dear Mr. Griffin:

Waters Edge Environmental has provided this September 2010 Surfacewater/Groundwater Assessment Monitoring Plan for at the above mentioned facility.

If you have any questions regarding the information contained herein, please do not hesitate to contact our office at 919.859.9987.

Sincerely,

WATERS EDGE ENVIRONMENTAL, LLC

Phillip L. Rahn, P.G.
President

cc: Ms. Christine Ritter- NCDENR

10-090/PLR/aht

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**September 2010 Proposed Surfacewater/Groundwater Assessment Monitoring Plan
Former Wiley Davis Landfill
Wiley Davis Road
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Permit #41-B
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1 Introduction

A ground water and surface water assessment is ongoing at the former Wiley Davis Landfill (Permit #41-B) located on Wiley Davis Road in Greensboro, North Carolina (see Figures 1). The purpose of this assessment is to determine the presence, extent, and concentration of contaminants present in ground water and/or surface water, the horizontal and vertical extent of contamination which may originate from the landfill, the direction and rate of migration of the contaminants in the ground water, and the possible source(s) of contamination detected in the ground water and/or surface water.

This assessment is being performed in accordance with the *Water Quality Monitoring Plan* (Babb & Associates, P.A. and EcoLogic Associates, P.C. - Revised August 1999) and the *Groundwater Assessment Plan* (Babb & Associates, P.A. and EcoLogic Associates, P.C. - Revised August 1999). The 2005, the sampling responsibilities have been contracted with Waters Edge Environmental, LLC (Waters Edge). Based on the semiannual sampling results, there have been some NCGS exceedances at two of the downgradient groundwater monitoring wells (WD-2 and WD-3- see Figure 2) which are immediately adjacent to a surface water discharge feature. In an April 26, 2010 NCDENR correspondence and subsequent telephone call between Ms. Christine Ritter representing NCDENR and Mr. Phillip Rahn representing Waters Edge, NCDENR requested that Griffin Industries respond with a groundwater assessment monitoring plan (GAMP) to determine whether this is a no-flow boundary. Herein is contained a description of our proposed groundwater monitoring well installation investigation and surfacewater/groundwater sampling activities.

2 Monitoring Well Installation and Surfacewater/Groundwater Sampling Activities

2.1 Monitor Well Installation

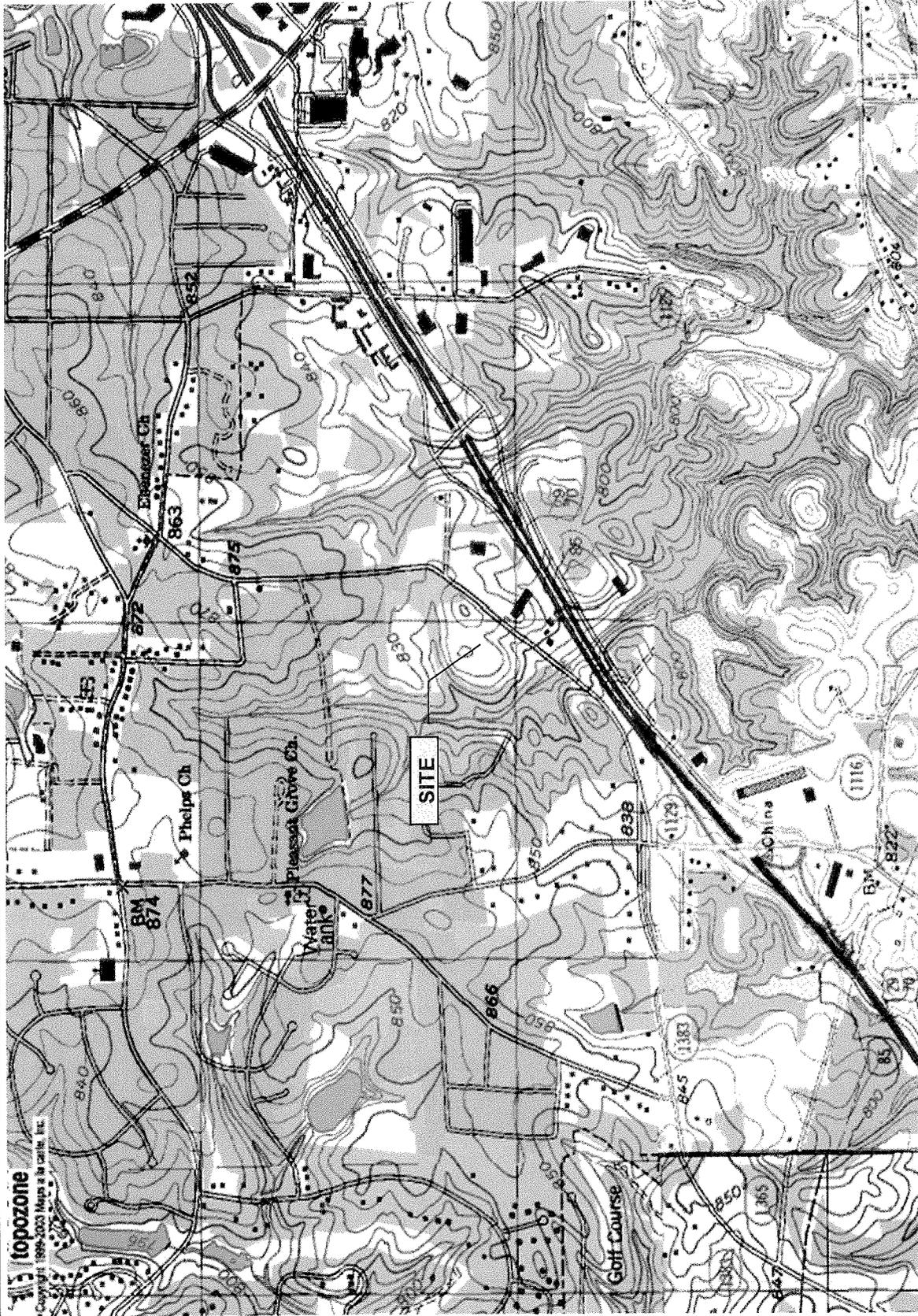
Based upon our understanding of the request from NCDENR, Waters Edge would propose to install two Type II shallow groundwater monitoring wells downgradient of WD-2 and WD-3 south of the discharge feature (see locations in Figure 2- WD-8 and WD-9). We have included standard operating procedures for the groundwater monitoring well emplacement in Appendix A.

2.2 *Surfacewater/Groundwater Sampling Investigation*

Upon installation of the two new groundwater monitoring wells, Waters Edge would then conduct groundwater sampling of monitoring wells WD-2, WD-3, WD-8, and WD-9 according to the procedures in Appendix A. We would also collect two surface water samples at the discharge point between the two sets of groundwater monitoring wells at the locations shown in Figure 2 (SW-2 between WD-2 and WD-8 and SW-3 between WD-3 and WD-9). The surfacewater samples would be collected to determine if there are any constituents of concern (COCs) in the surface water at those potential discharge points. All samples would be collected in laboratory supplied containers and submitted to the laboratory according to EPA-approved methodologies. All samples would be analyzed for volatile organic compounds (VOCs) according to SW-846 Method 8260B including tetrahydrofuran (THF).

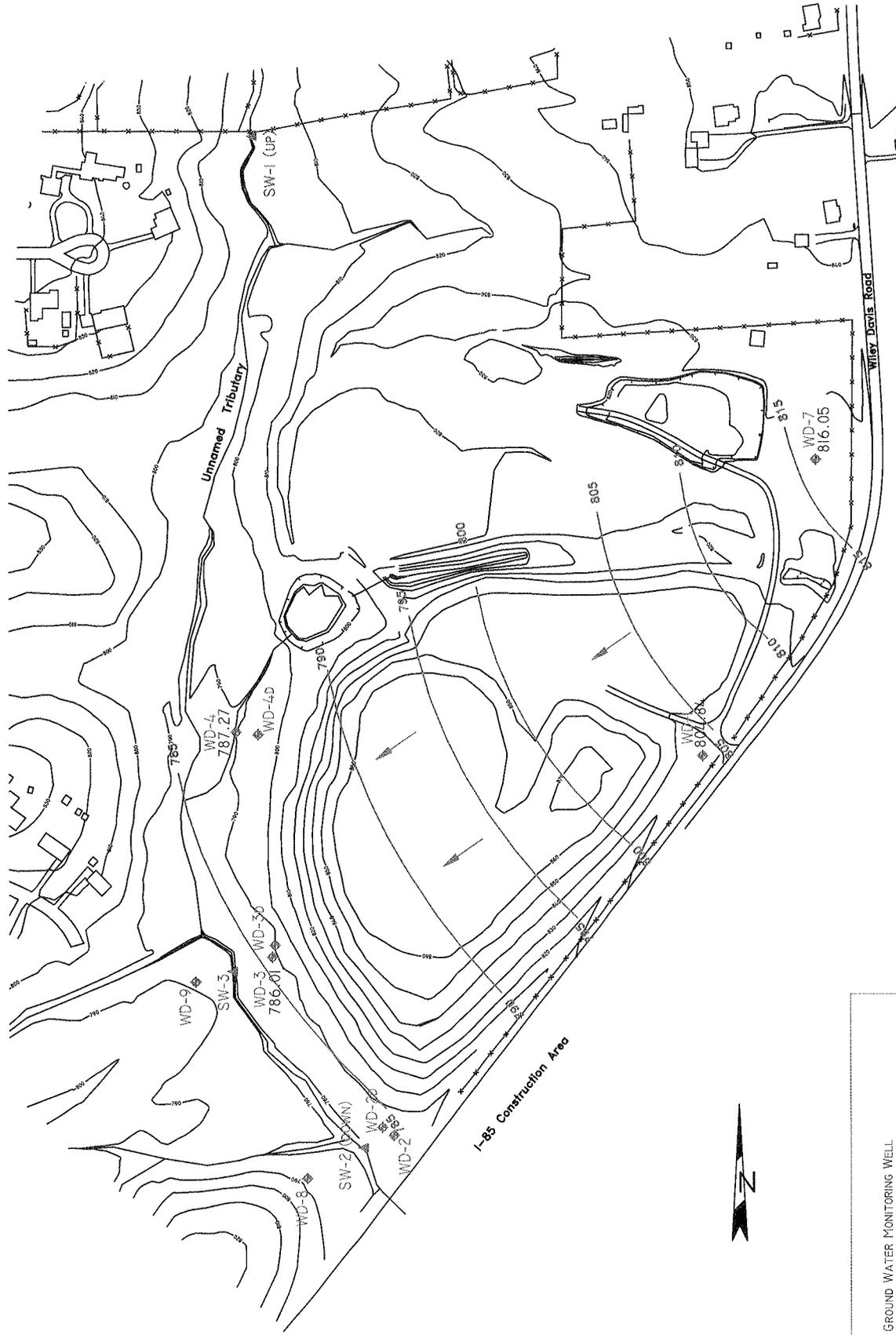
2.3 *Report Preparation*

Upon receiving the laboratory analytical results, we would complete a final report detailing our field investigation as well as our conclusions as to whether the creek represents boundary conditions.



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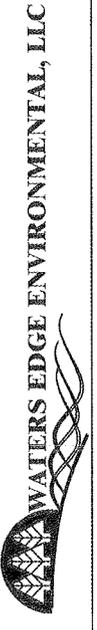
WATERS EDGE ENVIRONMENTAL, LLC		Author	Greensboro	Quad	Greensboro	Date	7/16/2005	Title	Project Location Map
		Job No.	R5-34	Figure	1	Scale	as shown	Project	Wiley Davis Landfill Greensboro, North Carolina



LEGEND

- ◆ GROUND WATER MONITORING WELL
- ▲ SURFACE WATER SAMPLE LOCATION
- GROUND WATER CONTOUR
- ~ TOPOGRAPHIC CONTOUR
- 801.55 GROUND WATER ELEVATION

Author plr Job No. R5-34	Drawing 10-090 F02 Revision 9.1.10	Layers Figure 2	Date 9.1.10 Scale 1" = 300'	Title Proposed Surfacewater/Groundwater Monitoring Well Location Map Wiley Davis Landfill Project



Ground Water Sampling

Prior to ground water sample collection, the water level in each well is measured with a decontaminated electric water level probe. Water level measurements are used to create ground water contour maps (either water table or potentiometric) and to calculate well volumes. The wells are purged by removing three to five times the well volume, or until dry, with new disposable bailers, or low-flow submersible or peristaltic pumps to remove stagnant water within the well, enabling the collection of a more representative ground water sample. Depending on the site status, temperature, specific conductivity, pH, and dissolved oxygen are measured and recorded in the field, following the removal of each volume of water. Samples are generally not collected until the field parameters stabilize to within approximately 10% over consecutive measurements.

Ground Water Sample Collection:

Ground water samples are typically collected within one hour of purging to minimize the loss of any volatile organic compounds (VOCs) that may be present. Laboratory decontaminated bottom-valve Teflon™ bailers, new disposable bailers, or low-flow submersible or peristaltic pumps may be used to withdraw the samples.

All ground water samples are decanted into laboratory provided containers appropriate for the parameters being analyzed, preserved as required by the analytical technique, and labeled with the following information: sampler's name, date of collection, sample number, analysis to be performed, and project designation. Samples are stored and transported to the analytical laboratory in an insulated cooler chilled to approximately 4.0 °C. To ensure sample integrity, all samples are transported in accordance with EPA chain-of-custody protocols. All samples are typically transported to the laboratory within 48 hours of sample collection, if possible.
