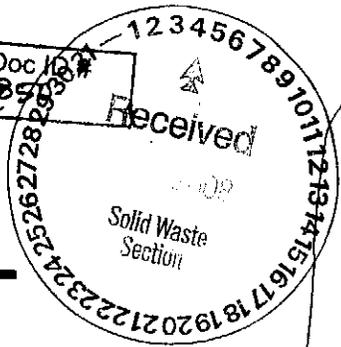


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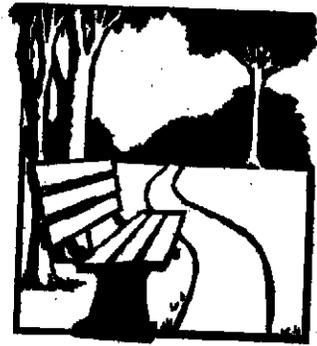
**POST-CLOSER REQUEST FOR PERMIT #
2902 HOLLY GROVE LANDFILL
Closed October of 1993
for the**



**HAMBY CREEK
TRAIL**

**Equestrian, Cycling,
& Hiking Trail**

**220 Landfill Road
Lexington/
Davidson County, NC**



1

REQUEST



2

MAP &
BROCHURE

3

HIERARCHY
LADDER &
RULES &
REGULATIONS

4

GROUND WATER
& LANDFILL GAS
MONITORING

5

VOLUNTEER
APPLICATION &
BACK GROUND

Davidson County Horsemen's Association Request to NC-DENR Division of Waste Management

Dated: 1/25/08

Request

This request is for the Davidson County's permission to allow our local Horse Association to place a trail system on the "retired" area of the Davidson County Landfill. This trail system would be for recreational use by equestrians, hikers and mountain bikers in and out of the County. However, no trail usage by motorized recreational vehicles would be allowed.

Background

As part of the Davidson County Master Plan for Tourism and Recreation, a key recommendation was to establish greenways and trail systems within the county for equestrian use, biking enthusiasts and hikers. The long range plans call for a series of connections to provide a greenway system to preserve and enjoy the rural beauty of our County and to make use of County property when appropriate and available.

Currently, our County has no greenway or trail system available to the horse population. The equestrians within the county have no options other than to use private land or haul the horses (many times 3-4 hours round trip) to other counties in order to enjoy their horses. There is a strong need for a local trail system that would enable county residents to remain in the County on weekends and to also attract the horse population in surrounding counties to visit.

Tentative approval to proceed was given in Dec. 2006 from NC DENR to proceed with further development of a plan. Our county commissioners gave approval to proceed in April, 2007. Since then, the DCHA group has been working the N.C. Horse Council and the Charles Brushwood to locate the appropriate trail route on the retired section of the landfill. We have now determined the location and have been working also with the Davidson County Recreation Department on developing the trail usage rules, etc. We are ready to present our plans to NC DENR for approval to allow the trails to be developed.

Davidson County Agricultural Department

Robert Lopp, Director of the Davidson County Cooperative Extension Service, has also endorsed this project and feels that it has the possibility to aid in the growth of Agri-Tourism events in our County.

Economic Impact

There are many horse enthusiasts traveling on weekends to other counties for trail rides, usually for one-day excursions. Although the economic impact would be difficult to estimate, county and non county residents would be purchasing gas, supplies, meals which would benefit the County economy. This Landfill project would not allow for overnight camping but would fulfill a tourism objective of getting non-residents to visit our County. As other greenway projects grow and allow for camping, the economic benefit would increase.

Liability Issues

With this trail system being co-sponsored by the County Recreation Department, any liability claims would be covered under the Department's blanket liability for recreational events. In addition, N.C. law stipulates where trails are used at no charge, there would be no liability assigned to any parties providing the trails.

Trail Design

From the attached trail map, the proposed trail would begin on the north end with a separate entrance/exit to the trail site from Lower Lake Road. A gate lock would be used for restricting access after hour usage. Normal access hours would be from 8 AM to sunset for all seven days. This access would enable the Landfill to operate its normal hours and trail usage would still be available. Also, the access to the trail would be away from any normal entry and road access to the normal Landfill operations.

The trail would be clearly marked to its boundaries and access with. A brochure would also be provided for all users that shows the trail boundaries/access along with the rules of usage.

Charles Brushwood will provide the necessary maintenance plans for checking the ground water protection, monitoring wells, inspections, etc.

THE HAMBY CREEK TRAIL IN THE DAVIDSON COUNTY LANDFILL



Proposed methane Plan for Horse Trail

The proposed horse trail is located in the area of the Holly Grove landfill which was closed in October of 1993. The current operating Sub - title D is north and has controlled access separating these areas. Facility Permit # 2902 See attached map.

1. Monitoring the low laying areas of the proposed horse trail for methane would be incorporated into the Davidson County landfill methane monitoring log form. Copy of current form attached.

2. Signage warning of the possibility of methane gas be posted at entrance of horse trail.

Example: Caution possible Methane gas
explosive gas
no open flames

3. In the event during methane monitoring that there is a measurable reading of L.E.L. (Lower Explosive Limit) The horse trail would be closed immediately.

METHANE MONITORING LOG FORM

(This report must be completed quarterly)

Davidson County Landfill
County of Davidson, North Carolina

Technician Name: _____ Date: _____

Meter Type / Model: _____

Starting Time: _____

Ending Time: _____

General weather conditions:

Preceding Day: _____

Sampling Day: _____

Temperature: _____ Barometric Pressure: _____

MONITORING INSTRUCTION:

1. Monitoring should be taken by a trained person with the approval of the Solid Waste Director and Landfill Manager.
2. Prior to and at the completion of the monitoring activities; the technician must notify the Landfill Supervisor.
3. Measure methane levels within structures (buildings) on the landfill property. The landfill gas reading must not exceed 25% of the methane lower explosive limit (L.E.L.). If methane measurements exceed 25% of the L.E.L., contact the Landfill Supervisor and follow the outlined plan in Appendix B of the Operation Manual.
4. Measure methane levels at all methane monitoring wells located around the landfill boundaries. The gas reading must not exceed 100% of the methane L.E.L. If methane measurements exceed 100% of the L.E.L., contact the Landfill Supervisor.
5. File this report in the Main landfill office in the appropriate record keeping section.

WARNING: Do not enter manholes, piping, and other unoccupied and/or restrictive areas during the monitoring. These areas may contain toxic gases or anoxic conditions which may be fatal. These areas may also constitute "confined spaces" as defined by OSHA and require special entry permits.

DAVIDSON COUNTY LANDFILL
LANDFILL GAS MONITORING QUARTER REPORT

Monitoring Locations	% LEL Reading	Within Compliance		Landfill Supervisor Contacted		Monitoring Point Within Structure
		Yes	No	Yes	No	
LFG - 1						
LFG - 2						
LFG - 3						
LFG - 4						
LFG - 5						
LFG - 6						
LFG - 7						
LFG - 8						
LFG - 9						
LFG - 10						
LFG - 11						
LFG - 12						
LFG - 13						
STORM SEWERS						
SS-4 MANHOLE						
SS-5 FRENCH DRAIN						
ENCLOSED BUILDINGS						
SANITATION BLDG.						
NEW GARAGE						
MRF BLDG						
CARDBOARD BLDG						
HHW BLDG.						
WHITE GOODS BLDG						
CONVEN BLDG						
SCALE HOUSE						
MAIN OFFICE						
GARAGE ATTACH						
DOUBLE WIDE						
COMMENTS & OBSERVATIONS:						
ACTIONS TAKEN:						

TECHNICIAN SIGNATURE: _____ DATE: _____

LANDFILL MANAGER: _____ DATE: _____

METHANE MONITORING LOG FORM

(This report must be completed quarterly)

Davidson County Landfill
County of Davidson, North Carolina

Technician Name: Beardt Peoples Date: 12-7-07

Meter Type / Model: GT 201

Starting Time: 8:45

Ending Time: 9:40

General weather conditions:

Preceding Day: 43

Sampling Day: 42

Temperature: 42 Barometric Pressure: 30.39

MONITORING INSTRUCTION:

1. Monitoring should be taken by a trained person with the approval of the Solid Waste Director and Landfill Manager.
2. Prior to and at the completion of the monitoring activities; the technician must notify the Landfill Supervisor.
3. Measure methane levels within structures (buildings) on the landfill property. The landfill gas reading must not exceed 25% of the methane lower explosive limit (L.E.L.). If methane measurements exceed 25% of the L.E.L., contact the Landfill Supervisor and follow the outlined plan in Appendix B of the Operation Manual.
4. Measure methane levels at all methane monitoring wells located around the landfill boundaries. The gas reading must not exceed 100% of the methane L.E.L. If methane measurements exceed 100% of the L.E.L., contact the Landfill Supervisor.
5. File this report in the Main landfill office in the appropriate record keeping section.

WARNING: Do not enter manholes, piping, and other unoccupied and/or restrictive areas during the monitoring. These areas may contain toxic gases or anoxic conditions which may be fatal. These areas may also constitute "confined spaces" as defined by OSHA and require special entry permits.

DAVIDSON COUNTY LANDFILL
LANDFILL GAS MONITORING QUARTER REPORT

Monitoring Locations	% LEL Reading	Within Compliance		Landfill Supervisor Contacted		Monitoring Point Within Structure
		Yes	No	Yes	No	
LFG - 1	ND					
LFG - 2	ND					
LFG - 3	ND					
LFG - 4	ND					
LFG - 5	ND					
LFG - 6	ND					
LFG - 7	ND					
LFG - 8	ND					
LFG - 9	ND					
LFG - 10	ND					
LFG - 11	ND					
LFG - 12	ND					
LFG - 13	ND					
STORM SEWERS						
SS-4 MANHOLE	ND					
SS-5 FRENCH DRAIN	ND					
ENCLOSED BUILDINGS						
SANITATION BLDG.	ND					
NEW GARAGE	ND					
MRF BLDG	ND					
CARDBOARD BLDG	ND					
HHW BLDG.	ND					
WHITE GOODS BLDG	ND					
CONVEN BLDG	ND					
SCALE HOUSE	ND					
MAIN OFFICE	ND					
GARAGE ATTACH	ND					
DOUBLE WIDE	ND					
COMMENTS & OBSERVATIONS:						
ACTIONS TAKEN:						

TECHNICIAN SIGNATURE: _____ DATE: _____

LANDFILL MANAGER: Brenda Dwyer DATE: 12-7-07

Local weather

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[Home & Family: Lawn & Garden](#) > **TODAY'S FORECAST for Lexington, NC (27295)**

Yesterday	Today	Tomorrow	Radar Map	Hour-by-Hour	Weekend	10-Day
-----------	--------------	----------	-----------	--------------	---------	--------

[Storm Watch: Wintry weather](#) | [Video](#)

Right Now for
Lexington, NC (27295)

[Save Location](#) [[English](#) | [Metric](#)]



Cloudy

33°F
Feels Like
33°F

Updated Dec 7 07:45 a.m. ET

[Watch the Greensboro Forecast](#)

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[Lawn & Garden](#)

UV Index: 0 Low
 Wind: From SE at 2 mph
 Humidity: 71%
 Pressure: 30.39 in. ↓
 Dew Point: 24°F
 Visibility: 10.0 miles

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signTHENdr



A signature is practically all it takes to get any 2008 Volkswagen

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Lawn & Garden Forecast

- ▶ [Sunrise/Sunset](#)
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	Today	Tomorrow
Watering Needs	0 N/A	0 N/A
Precipitation Forecast	10 %	20 %

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Today in Lexington

- [Will it snow on Christmas?](#)
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Lexington Classified Ads

VACATION RENTALS

Popular Vacation Rental Destinations for Lexington:

for Getaway.com

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[Truckee, CA](#)

[Kissimmee, FL](#)

[Old Orchard Beach](#)

[Fort Walton Beach, FL](#)

[Tybee Island, GA](#)

36-Hour Forecast

Details	Video	Text	Averages
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Today

Tonight

Tomorrow

[Get Garden Insights](#)

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High
54° F



Low
40° F



High
68° F

Precip: 10%

Precip: 10%

Precip: 10%

Considerable cloudiness. Some mixed winter precipitation possible early. High 54F. Winds light and variable.

Considerable clouds this evening. Some decrease in clouds late. Low near 40F. Winds light and variable.

Partly cloudy. High 68F. Winds SW at 5 to 10 mph.

Sunrise: 7:18 AM

Sunset: 5:07 PM

Sunrise: 7:19 AM

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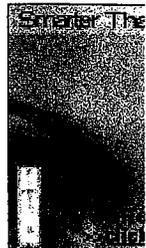
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LowerMyBills.com



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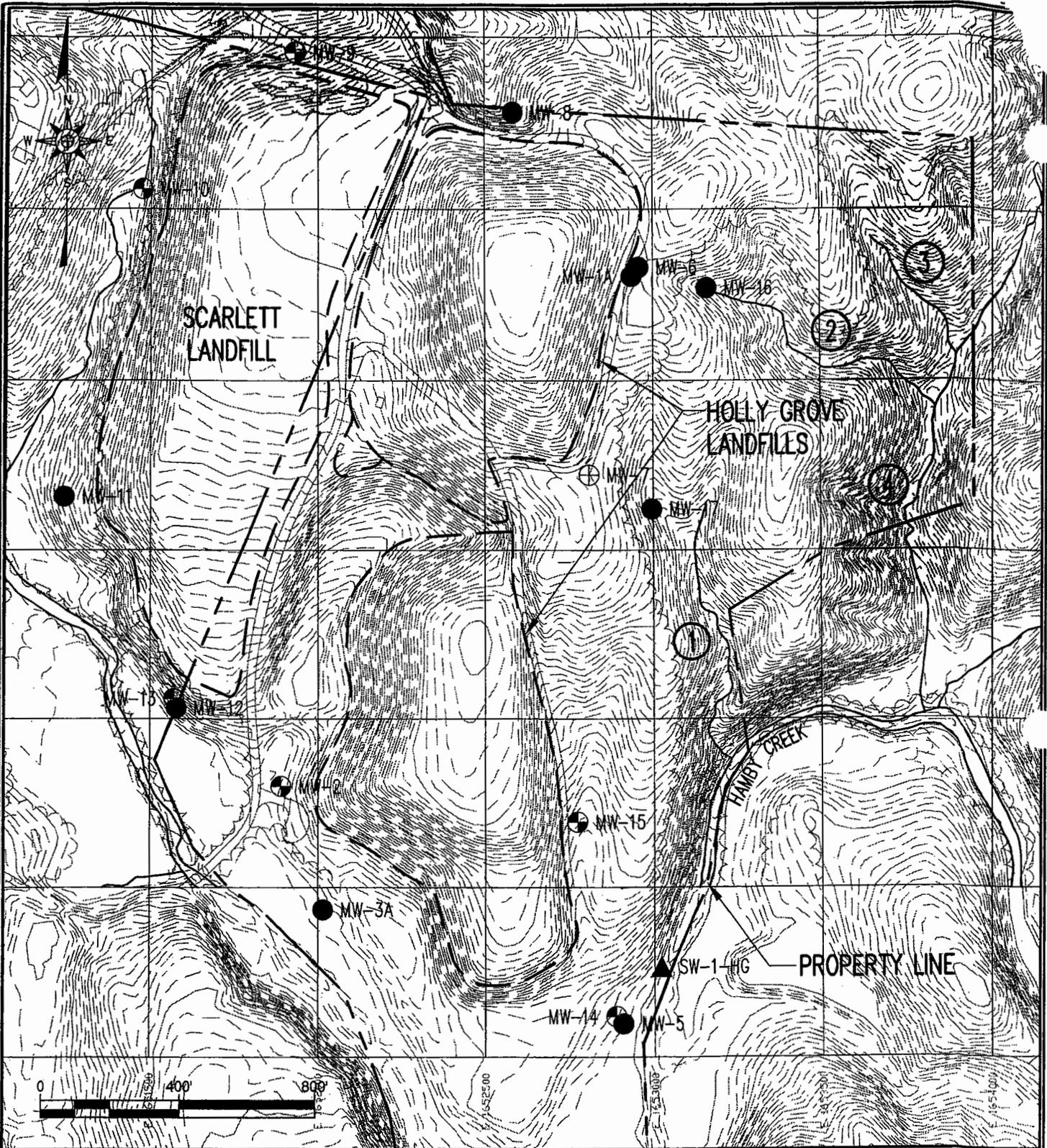
[W](#)

Ground water monitoring and monitoring wells

Holly Grove landfill facility permit #2902 closed October of 1993

1. monitoring wells are well marked and secured with locks. Each well will have a 2,600lb concrete block protecting metal case,
2. the county does do water sampling for monitoring wells and several surface areas. copy of last sampling attached.
3. In the event water does not meet state standards at surface samples, signage warning water conditions will be posted and may need to close trail until appropriate action is taken.

G:\CAD\Davidson\Davidco-Alholy Grove\sheets\DAVDCO-A0444.dwg - 1/10/2008 3:07 PM



**STORMWATER CONVEYANCES 1 - 4
HOLLY GROVE LANDFILL
DAVIDSON COUNTY
NORTH CAROLINA**



**RICHARDSON SMITH GARDNER
& ASSOCIATES**
14 N. Boylan Ave.
Raleigh, N.C. 27603
www.rsgengineers.com
ph: 919-828-0577
fax: 919-828-3897

SCALE:	DRAWN BY:	CHECKED BY:	DATE:	PROJECT NO.	FIGURE NO.	FILE NAME
AS SHOWN	C.T.J.	J.A.S.	Jan. 2008	DAVDCO-A	1	DAVDCO-A0444



January 11, 2008

Mr. Charles Brushwood
Director of Integrated Solid Waste
Davidson County Landfill
1242 Old Highway 29
Thomasville, NC 27360



RE: Proposed Horse Trail
Former Eddinger Property adjacent to Holly Grove Landfill
Davidson County, North Carolina

Dear Mr. Brushwood:

I have reviewed the letter from Geof Little of NCDENR dated November 30, 2007 regarding the proposed horse trail on the former Eddinger property adjacent to the Holly Grove Landfill. This letter makes several suggestions regarding how the County should implement the construction and maintenance of the proposed horse trail. One of the suggestions made by Mr. Little is to establish background levels of surface water quality on the property and maintain routine water quality test results.

Since 1993 surface water samples have been collected and analyzed semi-annually from Hamby Creek adjacent to this property. These analyses have indicated only intermittent, low levels of naturally occurring metals. There has not been any indication of impact from the landfill in this surface water body.

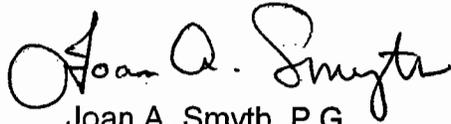
Additionally, RSG personnel have made a thorough inspection of the proposed horse trail site. There are four valleys in this site that we inspected for evidence of springs or surface water. These valleys are shown on **Figure 1** (labeled 1 through 4). Although North Carolina is in a drought right now, there was a 1.5 inch rain event two days prior to our inspection and there was no evidence of surface water on this property except Hamby Creek. We believe these low lying areas convey storm water to Hamby Creek, but do not contain surface water continually.

We suggest Davidson County periodically inspect the site through the spring to see if these storm water conveyances are intermittent streams that are currently dry at this time. Should these streams be found to convey water for part of the year, RSG will collect samples for analysis and evaluate whether ongoing sampling is warranted.

Mr. Brushwood
January 11, 2008
Page 2

If you have any questions, or require further information, please contact me at your earliest convenience.

Sincerely,
Richardson Smith Gardner and Associates, Inc.

A handwritten signature in black ink that reads "Joan A. Smyth". The signature is written in a cursive style with a large initial "J" and "S".

Joan A. Smyth, P.G.
Senior Hydrogeologist

attachment

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition etc.)
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13-B .1629 (4)(a)(i)).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information
Name of entity submitting data (laboratory, consultant, facility owner):

Richardson Smith Gardner and Associates, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joan Smyth, P.G. Phone: 919-828-0577 x 122
E-mail: joan@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Davidson County Holly Grove MSW Landfill	220 Landfill Road Lexington, NC 27292	29-02	.0500	October 12, 2007

Environmental Status: (Check all that apply)

- Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action

Type of data submitted: (Check all that apply)

- Groundwater monitoring data from monitoring wells Methane gas monitoring data
 Groundwater monitoring data from private water supply wells Corrective action data (specify) _____
 Leachate monitoring data Other(specify) _____
 Surface water monitoring data

Notification attached?

- No. No groundwater or surface water standards were exceeded.
 Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
 Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Joan Smyth, P.G. Senior Hydrogeologist 919-828-0577 x 122
 Facility Representative Name (Print) Title (Area Code) Telephone Number

Joan Smyth 11/20/07
 Signature Date

Affix NC Licensed Professional Geologist/Engineer Seal here:



Ground Water Monitoring Report

October 2007 Monitoring Event

**Davidson County
Holly Grove Landfill
Lexington, North Carolina
NC Solid Waste Permit # 29-02**



Prepared for:
Davidson County Integrated Solid Waste
1242 Old Highway 29
Thomasville, NC 27360-0024

November 2007



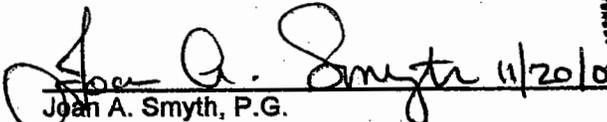
Richardson Smith Gardner & Associates, Inc.
Engineering and Geological Services
14 North Boylan Avenue
Raleigh, North Carolina 27603

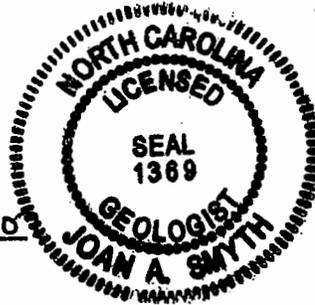
**Ground Water Monitoring Report
Davidson County Landfill
Holly Grove Landfill
October 2007 Semi - Annual Report**

Prepared for:

**Davidson County Integrated Solid Waste
1242 Old Highway 29
Thomasville, NC 27360**

RSG Project No. **Davdco - 1**


Joan A. Smyth, P.G.
Senior Hydrogeologist



November 2007



RICHARDSON SMITH GARDNER & ASSOCIATES
Engineering and Geological Services
14 N. Boylan Avenue
Raleigh, North Carolina 27603

Davidson County Holly Grove Landfill

Ground Water Monitoring Report October 2007 Monitoring Event

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2.0 DAVIDSON COUNTY HOLLY GROVE LANDFILL.....	1
2.1 Sampling Procedures	1
2.2 Field and Laboratory Results	2
3.0 SITE GROUND WATER CHARACTERIZATION.....	2
4.0 CONCLUSIONS.....	3

FIGURES

Figure 1 – Davidson County Landfill Site Potentiometric Map

TABLES

Table 1 – Holly Grove Landfill Ground Water Elevations
Table 2 – Holly Grove Landfill Field Parameters
Table 3 – Holly Grove Landfill Detected Inorganic Constituents
Table 4 – Holly Grove Landfill Detected Organic Constituents
Table 5 – Holly Grove Landfill Ground Water Velocities

APPENDICES

Appendix A – Laboratory Analytical Reports
Appendix B – Time vs. Concentration Graphs

1.0 Introduction

On October 11th and 12th, 2007, Richardson Smith Gardner & Associates, Inc., personnel performed the required semi-annual ground water monitoring event at the Davidson County Holly Grove Landfill. This sampling event satisfies the requirements of the monitoring programs for this site. The following report summarizes the monitoring event, sampling procedures, field and laboratory results, and ground water characterization as required by NC Solid Waste Regulations. Also included are summary tables of ground water measurements, field parameters, detected constituents, and the laboratory analytical report.

2.0 Davidson County Holly Grove Landfill

The following summarizes the monitoring event, sampling procedures, field and laboratory results, and ground water characterization as required by NC Solid Waste Regulations. Also included are summary tables of field measurements and detected constituents, as well as the laboratory analysis reports and concentration vs. time graphs.

The Holly Grove Landfills consists of three separate phases (**Figure 1**). Areas 1 and 2 were unlined municipal solid waste facilities owned and operated by Davidson County Integrated Solid Waste. The Scarlett Landfill, to the west of Areas 1 and 2, is a private landfill formerly owned by Ms. Virginia White, and previously owned and operated by Mr. Scarlett. The property was recently sold to another individual and is being used to house storage containers. These three landfills comprise the Holly Grove Landfill (under permit 29-02) and are monitored as one unit due to the close proximity of the waste margins.

2.1 Sampling Procedures

Ground water sampling was performed at 16 well locations. Monitoring well MW-7 was previously been abandoned after significant damage and could not be sampled. Well replacement efforts yielded no water, so this location has been removed from the well network. In addition, semi-annual surface water monitoring was performed at three locations around the landfills. The background well for the site, MW-4, is also MW-1s for the lined Davidson County Landfill (Permit 29-06). The lined landfill was sampled in conjunction with this site. This data is included in the summary tables of this report.

Sampling procedures followed the protocols set forth in the site's Sampling and Analysis Plan and the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities. Each well was gauged to determine ground water depth and then purged of three well volumes or until dry. Ground water purging and sample collection was performed using a factory sealed teflon bailer.

Field measurements of pH, specific conductivity, and temperature, were taken at each well and surface water sampling location. Samples were collected in laboratory containers provided by

Environment 1, Inc. (NC Laboratory Certification # 10). Upon collection, the samples were sealed, placed on ice, and transported to the above referenced laboratory. All samples were preserved and remained on fresh ice prior to shipment, and were received by the laboratory and analyzed within specified holding times.

During the sampling process, all wells were found to be in good condition and free of obstructions. The weather was sunny and clear during the event. Surface water samples were obtained for SW-1 on Hamby Creek at the location shown in **Figure 1**. Surface water locations, SW-2 & SW-3 were found to be dry during this event, and therefore no samples could be collected.

2.2 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 analysis was received by our office and reviewed for accuracy. The laboratory report is attached as **Appendix A**.

Ground water and field measurements included as **Tables 1 and 2**, respectively, remained similar to previous results. Inorganic laboratory analysis detected nine inorganic constituents (barium, cobalt, copper, total chromium, lead, nickel, selenium, vanadium and zinc) in twelve (12) wells. These results are included as **Table 3**. Three inorganic constituents: cobalt, lead and vanadium were detected above the 2L standards. Cobalt and vanadium were detected at concentrations above the 2L standard because they do not have a 2L standard.

Organic analyses resulted in eleven (11) parameters detected in eleven (11) wells. Detected organic constituents are shown in **Table 4**. Four organic constituents: vinyl chloride (MW-1a, MW-2, MW-11 & MW-12), Benzene (MW-1a, MW-9 & MW-13), 1,2 Dichloroethane (MW-1a) and 1,2 Dichloropropane (MW-1a) were detected above the 2L standards.

Analysis of surface water (SW-1) detected two inorganic constituents (nickel and zinc) above the PQL.

A review of time versus concentration graphs (included in **Appendix B**) for each well indicate general stability of detected constituents across the site. It should be noted that many of the recent detections shown are "J" values below the PQL. In general, there are few exceedances of ground water standards across the site.

3.0 Site Ground Water Characterization

A potentiometric surface map was prepared for the entire site 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 at the Holly Grove Landfill ranged from 0.041 feet/day (MW-3a) to 1.65 feet/day (MW-13). These calculations are included in **Table 5**. The data indicates that ground water is flowing generally to the south and southwest across most of the site. 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.

4.0 Conclusions

The results presented from the Holly Grove Landfills indicate an increased number of detections of certain constituents. In the case of inorganic constituents, this is likely due to turbidity of samples and an increase in suspended solids due to field procedures. In the case of organic constituents this increase is mainly due to a requirement by DENR for laboratories to lower their PQLs. In general, ground water concentrations detected at the site have remained stable with few exceedances of ground water standards.

The next ground water monitoring event is tentatively scheduled for spring 2008. The results of this event will be reported to NCDENR upon completion of analysis of laboratory data.

MW-9
TOC=719.05
DTW=10.55
GWE=699.76

MW-8
TOC=727.00
DTW=17.55
GWE=720.05

MW-16
TOC=781.25
DTW=61.00
GWE=720.25

MW-18
TOC=757.54
DTW=16.47
GWE=741.07

MW-17
TOC=781.39
DTW=37.00
GWE=750.39

MW-10
TOC=762.00
DTW=N/A
GWE=N/A

MW-13
TOC=737.00
DTW=12.50
GWE=725.84

HOLLY GRO
LANDFILLS

MW-2
TOC=665.91
DTW=8.59
GWE=657.22

MW-15
TOC=697.33
DTW=18.27
GWE=679.06

MW-3A
TOC=662.49
DTW=10.40
GWE=652.09

DAVIDSON COUNTY
LANDFILL ROAD

MW-14
TOC=666.04
DTW=14.20
GWE=651.84

MW-5
TOC=664.29
DTW=12.50
GWE=651.79

SW-1-HC

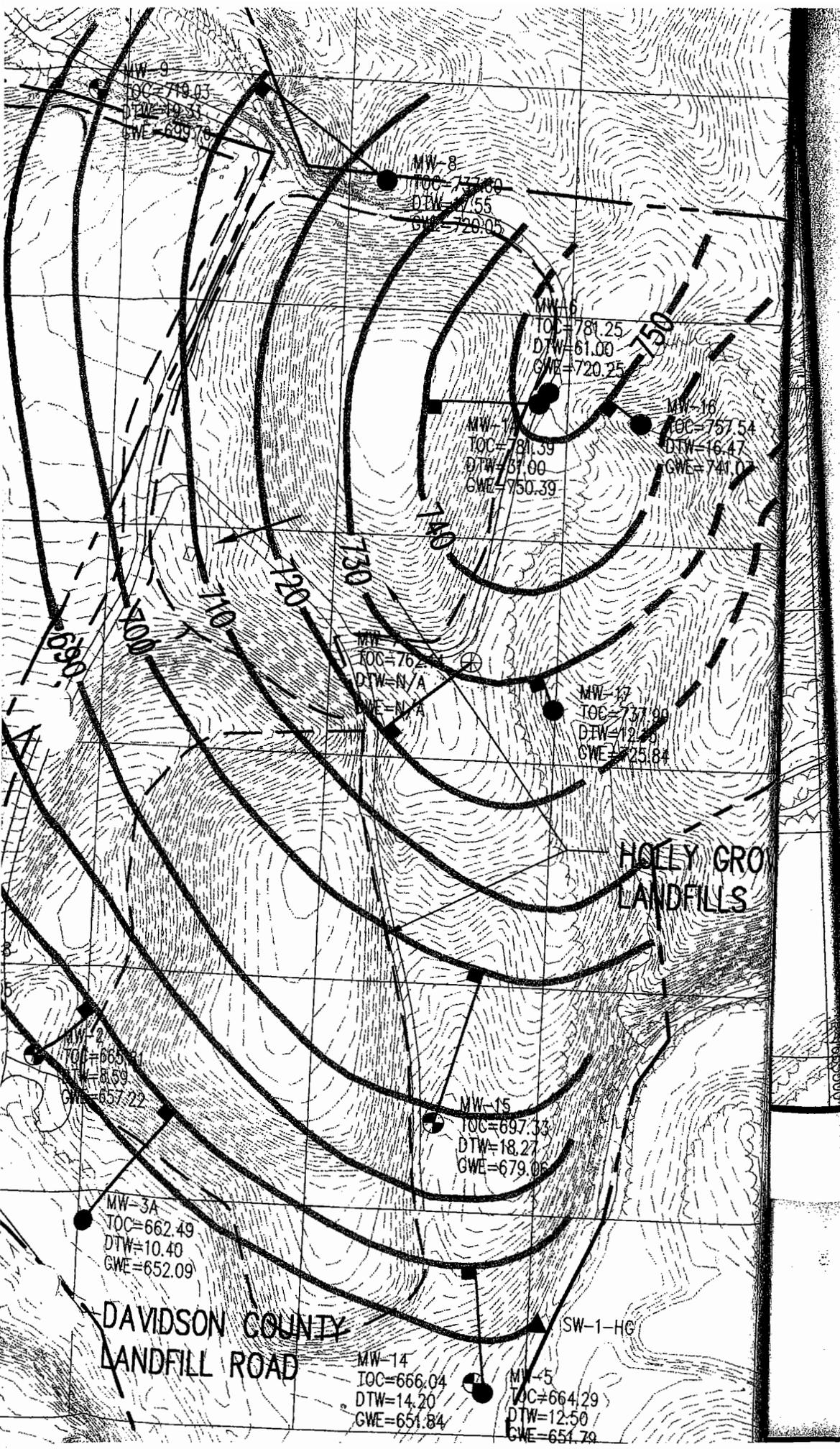


Table 1
Ground Water Elevations
Davidson County Holly Grove Landfill
10/12/07

MW	Top of Case	Depth to Water Table	Water Table Elevation
MW-1a	781.39	31	750.39
MW-2	665.81	8.59	657.22
MW-3a	662.49	10.4	652.09
MW-4	736.20	56.2	680.00
MW-5	664.29	12.5	651.79
MW-6	781.25	61	720.25
MW-7	762.14	--	--
MW-8	737.60	17.55	720.05
MW-9	719.03	19.33	699.70
MW-10	678.24	7.55	670.69
MW-11	680.07	26.23	653.84
MW-12	671.48	18.43	653.05
MW-13	671.31	16.05	655.26
MW-14	666.04	14.2	651.84
MW-15	697.33	18.27	679.06
MW-16	757.54	16.47	741.07
MW-17	737.99	12.15	725.84

Table 2
Field Parameters
Davidson County Holly Grove Landfill
10/12/07

Well	pH	Sp. Conductivity (µS/cm)	Temperature (°C)
MW-1a	7.1	1500	14.5
MW-2	6.8	780	19
MW-3A	7.9	510	14.5
MW-4	6.7	330	18
MW-5	7	310	15
MW-6	8.2	800	14
MW-7	---	---	---
MW-8	7.8	1000	13
MW-9	6.7	1550	15
MW-10	7	2100	16.5
MW-11	6.9	1460	14
MW-12	7.4	2000	15.5
MW-13	6.8	3820	17.5
MW-14	7.8	440	15
MW-15	6.6	250	16
MW-16	7.6	970	15
MW-17	7.6	620	16
SW-1	7.6	500	18.5
SW-2	---	---	---
SW-3	---	---	---

'--' = not measured.

SW-3 associated with the C&D landfill reported in Holly Grove Landfill laboratory analysis.



VOLUNTEER APPLICATION

Hamby Creek Trail

Davidson County Recreation Department
PO Box 1067, Lexington, NC 27293
336-242-2285

Full Name:	
Street Address: Include Street number, apartment number, city, state, zip code	
Day time phone:	Date of Birth:
Email Address: _____ @ _____.	
Sex: Male Female	Racial/Ethnic Background: White Black Hispanic Asian/Pacific Island American Indian or Alaskan Native
Have you ever been charged or convicted of a misdemeanor or felony? Yes No	
Do you have a valid driver's license? No Yes State & Number _____	
Which general volunteer work categories are you most interested in? <input type="checkbox"/> Trail Development <input type="checkbox"/> Routine Trail Maintenance <input type="checkbox"/> Horse Trail Patrol <input type="checkbox"/> Cycling Patrol <input type="checkbox"/> Other	
Please specify any physical limitations that may influence your volunteer work activities.	
When are you available to volunteer? <input type="checkbox"/> Saturday/Sunday <input type="checkbox"/> Monday-Friday <input type="checkbox"/> Daytime <input type="checkbox"/> Daytime <input type="checkbox"/> Evening <input type="checkbox"/> Evening	
Please provide the names and contact information for two references and their relationship to you (relative, employer, neighbor, etc.) 1. Name Address Phone Relationship	

2. Name
Address
Phone
Relationship

Volunteers are not considered to be Davidson County employees.
Information on this application will be used to contact applicants, interview,
screen and select volunteers.

Applicant Signature

Parent/Guardian Signature

Volunteers under 18 will require signed parental or guardian consent

Date

Date

DC Recreation Dept
Date received:
Approval:

By:

DCHA Contact:
Date:

Charlie Brushwood

From: Doug Meredith [dmeredith@triad.rr.com]
Sent: Wednesday, January 16, 2008 11:09 AM
To: Hugh.Jernigan@ncmail.net
Cc: Charlie Brushwood; Jo Ellen Edwards; Scott Hulen
Subject: RE: [Fwd: Davidson County Horse Trail]

Hi Hugh,

We have been slowly, but surely, working on the design and plan for our trail at the DC Landfill...called the Hamby Creek Trail. Charles and his staff, along with our Tourism and Recreation areas of the county, have all been extremely helpful. With our meeting next Thursday, 1/24 at 10 AM, I wanted to share with you beforehand the information we have compiled for our plan submission to the State offices. Attached you will find:

1. Overview of the plan request for the Trail development to the State.
2. An aerial map with our proposed trail marked showing the relationship of the trail to the rest of the Landfill area.
3. Brochure for users we are developing to state the rules for trail usage.
4. Hierarchy Ladder that shows the various organizations responsibilities
5. Volunteer application form.

We appreciate your time to meet with us next Thursday and look forward to your input on how we can "dress up" our plan submission and suggestions on further questions the State may have.

Please let me know if you have any questions that may be need to be addressed before the meeting.

Regards,

Doug Meredith
 PC Accounting
 Ofc:336-764-5504
 Fax:336-764-4586

From: Hugh Jernigan [mailto:Hugh.Jernigan@ncmail.net]
Sent: Friday, December 01, 2006 8:38 AM
To: dmeredith@triad.rr.com; angela jones
Cc: cbrushwood@co.davidson.nc.us
Subject: [Fwd: Davidson County Horse Trail]

Mr. Meredith:

Sorry it has been so long is getting back to you.

We lost our permit engineer that was assigned to the Davidson County area, and I had asked for permitting input from one of the other permit engineers.

The response and potential issues were much the same as mine.

1. Safety is always an issue, landfills can have some hidden hazards.
2. Landfill gases can collect in lower areas around landfills, and although landfill gases in general have a distinctive odor, methane (the explosive component of landfill gas) is odorless. care should be taken around landfills and restricting open flames.
3. Care should be taken about horses on the landfill disposal areas, differential settling can occur and could cause areas where horses could easily break a leg.
4. Controlling access to the site is always a concern, you do not want anyone on the landfill property that should not be there; or if allowed to be on the property, they should know the limits of where they can go and potential hazards of the site.
5. Geof Little's comments as to the permitting issues basically addresses these issues, the county just would need to submit a plan, as noted by Geof, to our office concerning the use of the property (part of post closure plans).

The good news is that I have gotten no input that would prohibit this activity, the Solid Waste Section promotes landfills as community resources-- limiting factors should always include safety issues and possible effects to the compliance of the landfill facility.

Thanks,
Hugh Jernigan

----- Original Message -----

Subject:Davidson County Horse Trail

Date:Thu, 30 Nov 2006 08:45:27 -0500

From:Geof Little <geof.little@ncmail.net>

To:Hugh Jernigan <Hugh.Jernigan@ncmail.net>

CC:Edward Mussler <Ed.Mussler@ncmail.net>, Mark Poindexter <Mark.Poindexter@ncmail.net>

Below are recommendations that the County might consider in allowing the proposed horse trail at the landfill. The County should consider:

- Establishing background levels of surface water quality and maintaining routine water quality test results. Potential situation: horses drink from standing or running water then fall ill sometime afterward. Although the two occurrences may be unrelated, having water quality data will help the County.
- Routinely checking the trails for explosive gases. Signage should prohibit smoking, campfires, etc.
- The County will need to limit access to the landfill by constructing secure fencing separating the trail from the landfill and protecting groundwater and LFG monitoring wells. As you are well aware, ATVs and illegal dumpers have a way of finding and abusing trails and monitoring points.
- Providing markers to direct users to the trail (and away from the fill area).
- Possible consideration: Posting signs at entrances restricting use at night.
- Routinely inspect the trails and fencing for suspicious activities, illegal dumping.◇ ◇◇

.Should the County wish to incorporate trails at the facility, then we would need drawings indicating the location of the trails, and a detailed discussion on the O&M of the trails addressing the above issues.

In general, we support the use of landfill property as a community resource, but some considerations

need to be taken into account.

Let me know your comments.

G.

--

Geoffrey H. Little
Solid Waste Section
NC-DENR Division of Waste Management
401 Oberlin Road, Suite 150
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Tel: 919-508-8498
Fax: 919-733-4810
e-Mail: geof.little@ncmail.net
Web: <http://wastenotnc.org/swhome>

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Hugh Jernigan
NC DENR Winston-Salem Regional Office
Waste Mgmt
585 Waughtown Street
Winston-Salem, NC 27107
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FAX: (336) 771-4631