

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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 13B .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):

S&ME, Inc. (Consultant)

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

Name: John Whitehead

Phone: 864.574.2360

E-mail: jwhitehead@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Duke Energy Marshall Steam Station Creek Ash Landfill	8350 East Highway 150 Terrell, Catawba County, North Carolina	18-04	.0500	February 8, 2010

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) Revised Groundwater Report
 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.

George K. Flores, P.E.

Senior Engineer

864.574.2360

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Signature

July 21, 2010

Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:



DUKE ENERGY
MARSHALL STEAM STATION
DRY ASH LANDFILL PERMIT #18-04
REVISED GROUNDWATER
MONITORING REPORT
FEBRUARY 2010 SAMPLING EVENT
S&ME Project No. 1411-09-047

Prepared For:



Prepared By:



S&ME, Inc.
301 Zima Park Drive
Spartanburg, South Carolina 28704

July 20, 2010



July 20, 2010

Ms. Jackie Drummond
North Carolina Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, N.C. 27699-1646

Subject: Duke Energy Carolinas – Marshall Steam Station
Catawba County
Dry Ash Landfill Permit # 18-04
Revised Semi-Annual Groundwater Monitoring Report
S&ME Project 1411-09-047

Dear Ms. Drummond:

On behalf of Duke Energy, attached is the revised groundwater monitoring report for the Marshall Steam Station Dry Ash Landfill (Permit # 18-04). Groundwater sampling for the landfill was performed on February 8, 2010. This report was originally submitted on May 11, 2010. This revised report is being submitted so that laboratory pH values and corrected BOD values are presented in revised Table 2. Other minor editorial changes have been made in order to render the report more user-friendly. However, no additional data other than the referenced pH and BOD values are included herein.

This Revised Groundwater Monitoring Report includes a summary of the analytical results, a figure showing groundwater contours at the site and the preliminary analyses of values in excess of the NC 2L groundwater standards. Also attached is the Environmental Monitoring Reporting Form. An EXCEL file containing the laboratory results in the Electronic Data Deliverable format will be sent to you by e-mail.

If you have questions or require additional information, please contact us at
864.574.2360.

Sincerely,


John Whitehead
Senior Geologist



North Carolina Professional Engineering Firm License No. F-0176

S:\ENVIRON\2009\1411 Projects\1411-09-047 Duke Landfill GW Reports\Marshall Ash Landfill\Feb 2010 Report - Revised July 2010\july 2010 revised report\Marshall Ash LF - Feb 2010 Report -Final (revised july 20, 2010).doc

cc:

Duke Energy
PO Box 1006
Charlotte, NC 28201-1006
Attn: Ed Sullivan, P.E. Mail Code EC13K

Duke Energy
Marshall Steam Station
8320 East Highway 150
Terrell, NC 28682
Attn: Donna Burrell, Environmental Coordinator

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Table 2	Summary of Field and Analytical Results

Chain of Custody Form

1. PROJECT INFORMATION

Marshall Steam Station is owned and operated by Duke Energy Carolinas (Duke). Marshall Steam Station is located in Catawba County, on Highway NC 150, just west of Lake Norman. The Marshall plant generates 2090 MW of electric power by combustion of coal. Marshall is the second largest coal facility owned by Duke Energy. The Marshall station generates enough electricity to power over one and a half a million homes.

The plant is located in the Piedmont physiographic region. The subsurface conditions in the plant area consist of residual soils and partially weathered rock which have been formed by the in-place weathering of the parent rock.

The permitted landfill areas are located north and east of the steam station and are located adjacent to the Marshall Ash Basin. The location of the permitted landfill areas and the wells is shown on **Figure 1**.

Two dry fly ash fills are permitted under this permit; the larger fill has an area of approximately 47 acres and is adjacent to the Marshall Ash Basin. Monitoring wells MW-2, MW-3, and MW-5 are located adjacent to this fill. The smaller fill is located adjacent to the Marshall Ash Basin and is approximately 14.5 acres in area. Monitoring well MW-1 and observation well OB-1 are located adjacent to this fill.

Monitoring well MW-4 is located upgradient from the 47 acre landfill and serves as the background well. Observation well OB-1 is located adjacent to the smaller fill and is used only to measure groundwater levels.

The ground surface in the area of the landfill slopes from the elevation along Island Point Road (located north of MW-4), approximate elevation 880 feet to 890 feet, towards the Marshall Ash Basin, with a surface water elevation of approximately 790 feet. Lake Norman is located to the east of the Marshall Ash Basin. The normal pond elevation of Lake Norman is 760 feet.

2. SCOPE OF WORK

To complete the scope of work, S&ME completed the following tasks:

- Received information provided by Duke on field sampling and measurement of groundwater elevations (performed by Duke) for monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and observation well OB-1. This sampling was conducted on February 8, 2010.
- Review of laboratory analytical results for samples. These analyses were performed by a North Carolina certified laboratory, using State approved methods. These results were provided to S&ME by Duke both in paper format and in the form of an EXCEL file. The EXCEL file was adapted to conform to the format

requirements of the NCDENR Electronic Data Deliverable template.

- Develop a groundwater flow contour map using map data and groundwater elevation data supplied by Duke.
- Develop a preliminary analysis of the cause and significance of values exceeding NC 2L groundwater standards.
- Prepare and submit this Groundwater Monitoring Report to Duke and to NCDENR.

3. RESULTS

3.1 Site Groundwater Flow

Groundwater flow contours for the site are shown on **Figure 2**. These contours were developed using the measured groundwater elevations in the wells from the February 8, 2010 sampling and from using the approximate surface water elevations for the Marshall Ash Basin and the adjacent Lake Norman.

Groundwater flow at the site is from areas of higher topography towards the Ash Basin and on towards Lake Norman. Well MW-4 is located north of the landfill and is at the highest topographic elevation. Groundwater flow is generally from MW-4 towards the 47 acre portion of the landfill and to the ash basin. It is expected that flow would be from the topographically higher region north of MW-3 and MW-5 towards the landfill, or in the case of MW-5, towards the portion of the Ash Basin located to the east of the landfill.

The water elevation in well MW-2 is approximately the same as the pond elevation in the Ash Basin. Well MW-2 is located approximately 200 feet from the shore of the Ash Basin. Based on the location of the well and the observed water levels in the well relative to the Ash Basin, the well is likely influenced more by the water levels in the Ash Basin than from groundwater flowing from the landfill.

The water elevation at well MW-3 is approximately the same as the pond elevation of the two adjacent ponded areas. These ponded areas are part of the Ash Basin that was cut off from the remainder of the Ash Basin by construction of the landfill.

Well MW-5 is located adjacent to the landfill and to an arm that was a part of the Ash Basin. This arm no longer contains appreciable free water and is filled with ash that was sluiced from the Ash Basin.

The groundwater flow in the region near the smaller fill area (14.5 acres landfill) appears to be from the Ash Basin (Elev. 790 feet) towards the arm of Lake Norman (Elev. 760 feet) located east of wells OB-1 and MW-1.

3.2 Groundwater Analytical Results

Table 1 presents the results of the of field parameters measured during collection of the groundwater samples. The results of the laboratory analyses for the groundwater monitoring well samples are summarized in **Table 2**.

Results from the five monitoring wells were below the corresponding NCAC 2L groundwater quality standards with the exceptions noted below. The preliminary analyses of the causes of these exceptions are provided below:

- pH – pH values below 6.5 were measured at all five wells (MW-1, MW-2, MW-3, MW-4, MW-5). Values for pH ranged from 6.3 at MW-4 to 5.2 measured at MW-3. Well MW-4 is considered to be the background well and is not influenced by the landfill or the ash basin.

The values for pH in wells MW-1 (6.1) and MW-2 (5.6) are potentially influenced by groundwater from the landfill areas and the water quality in the ash basin. Values for pH in wells MW-3 (5.2) and MW-5 (5.8) could be influenced by the landfill and by the adjacent former portions of the ash basin. However, it is important to note that these values are in the range of historic pH values measured in background well MW-4. MW-4 has measured pH values as low as 5.1.

- Boron – The concentration of boron measured in well MW-2 was 2660 µg/L and was in excess of the 2L standard of 700 µg/L. The concentration is consistent with the previous semi-annual sampling results of 2720 µg/L measured in August 2009. The concentration of boron in this well is likely from the water quality in the ash basin. As described in Section 3.1, this well is likely influenced by water level and water quality in the ash basin.
- Iron – The concentration of iron measured in well MW-4 was 533 µg/L and was in excess of the 2L standard of 300 µg/L. The turbidity measured in this well was 3.6 NTU. Well MW-4 is the background well and is not influenced by the landfill or the ash basin.
- Manganese – The concentration of manganese measured in well MW-3 was 56.3 µg/L and is in excess of the 2L standard of 50 µg/L. This is consistent with the previous semi-annual sampling results of 66.5 µg/L measured in August 2009. This well is located adjacent to areas that are former portions of the ash basin. The manganese concentrations observed in this well could be caused by either the landfill or the former ash basin areas located adjacent to this well.
- Selenium - The concentration of selenium was measured in well MW-2 was 23.5 µg/L and is in excess of the 2L standard of 20 µg/L. The concentration is consistent with the previous semi-annual sampling results of 27.6 µg/L measured in August 2009. The concentration of selenium in this well is likely from the water quality in the ash basin. As described in Section 3.1, this well is likely influenced by water level and water quality in the ash basin.

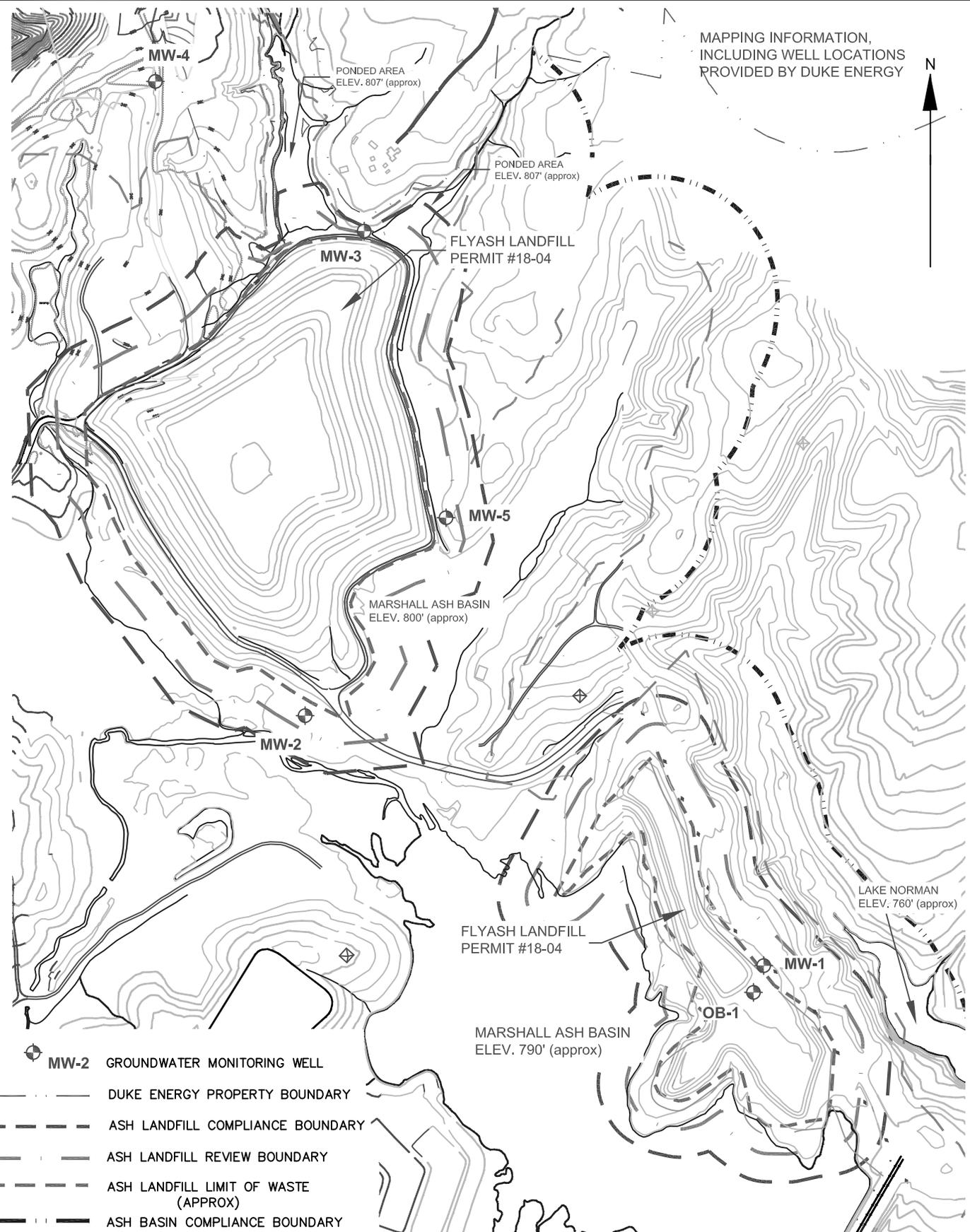
In addition to the compounds and wells listed above, the groundwater analytical results for the compounds at the following wells and surface water sample locations were equal to or above the corresponding Solid Waste Section Limits (SWSL):

- Barium in excess of the SWSL of 100 µg/L was measured in well MW-3.
- Nitrate, as Nitrogen in excess of the SWSL of 1000 µg/L was measured in well MW-3.
- Zinc in excess of the SWSL of 10 µg/L was measured in wells MW-2 and MW-3.

FIGURES



MAPPING INFORMATION,
INCLUDING WELL LOCATIONS
PROVIDED BY DUKE ENERGY



-  **MW-2** GROUNDWATER MONITORING WELL
-  DUKE ENERGY PROPERTY BOUNDARY
-  ASH LANDFILL COMPLIANCE BOUNDARY
-  ASH LANDFILL REVIEW BOUNDARY
-  ASH LANDFILL LIMIT OF WASTE (APPROX)
-  ASH BASIN COMPLIANCE BOUNDARY

SCALE: 1 inch = 600 ft

CHECKED BY: L ARMSTRONG

DRAWN BY: W.MILLER

DATE: 5-11-2010

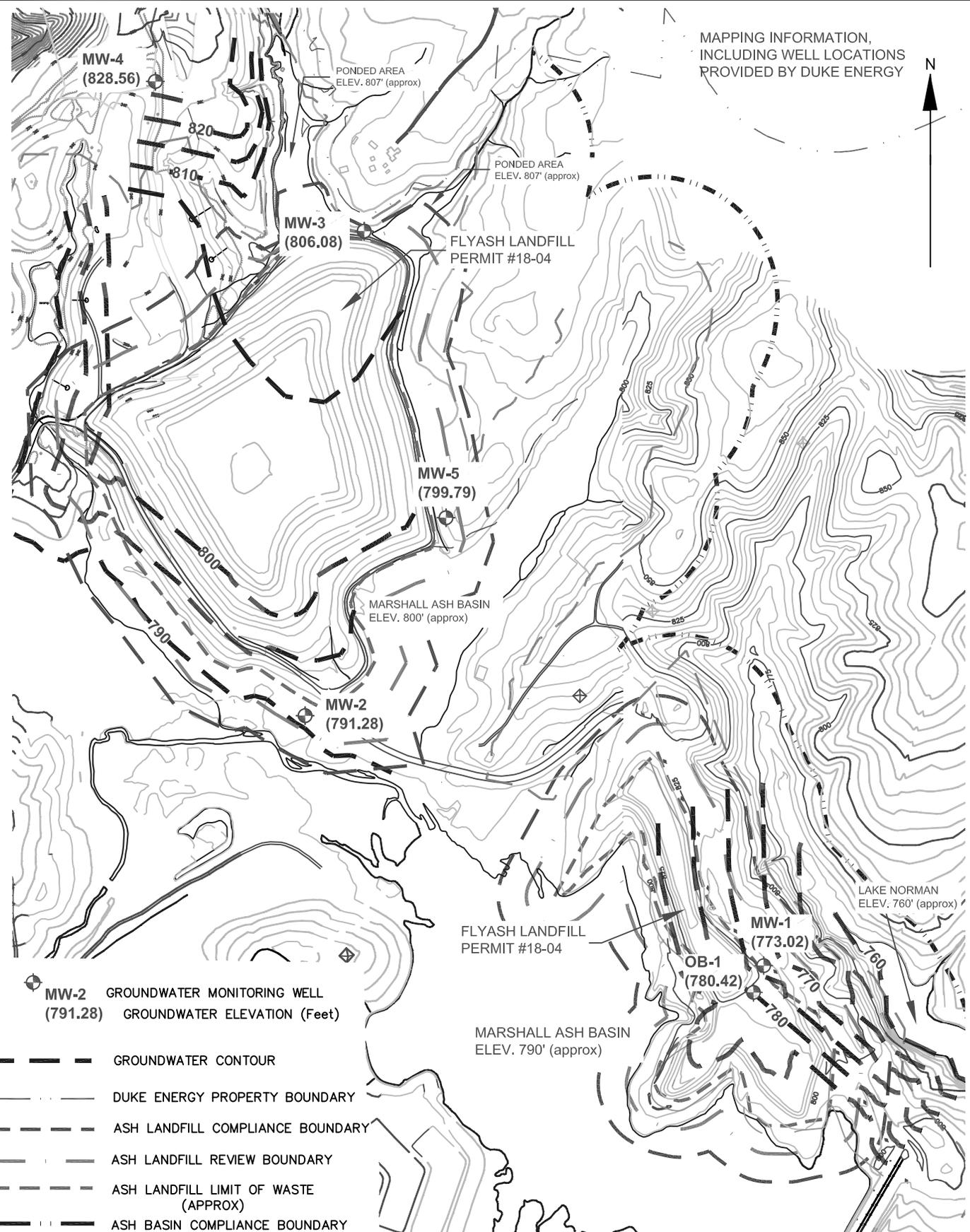


DUKE ENERGY
MARSHALL STEAM STATION
FLYASH LANDFILL PERMIT #18-04
LANDFILL WASTE LIMITS, BOUNDARIES

JOB NO: 1411-09-047

FIGURE NO:
1

MAPPING INFORMATION,
INCLUDING WELL LOCATIONS
PROVIDED BY DUKE ENERGY




MW-2 GROUNDWATER MONITORING WELL
(791.28) GROUNDWATER ELEVATION (Feet)

-  GROUNDWATER CONTOUR
-  DUKE ENERGY PROPERTY BOUNDARY
-  ASH LANDFILL COMPLIANCE BOUNDARY
-  ASH LANDFILL REVIEW BOUNDARY
-  ASH LANDFILL LIMIT OF WASTE (APPROX)
-  ASH BASIN COMPLIANCE BOUNDARY

SCALE: 1 inch = 600 ft

CHECKED BY: L ARMSTRONG

DRAWN BY: W.MILLER

DATE: 5-10-2010



DUKE ENERGY
MARSHALL STEAM STATION
FLYASH LANDFILL PERMIT #18-04
GROUNDWATER CONTOURS
FEBRUARY 2010

JOB NO: 1411-09-047

FIGURE NO:
2

TABLES



TABLE 1 - FIELD PARAMETERS
DUKE ENERGY MARSHALL STEAM STATION
FLY ASH LANDFILL - PERMIT #18-04
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

Revised July 20, 2010

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DATE	WELL NO.	WELL DEPTH (feet)	DEPTH TO WATER (feet)	WATER ELEV. (feet)	ODOR	Purge Method	AVG * PMP RATE (ml/min)	WELL VOL (gal)	EVAC VOL (gal)	EVAC (yes/no)	TEMP (deg C)	SPECIFIC CONDUCTANCE (umho/cm)	pH (units)	TURBIDITY (NTU)	ORP (mV-NHE)	DO (mg/l)
2/8/2010	MW-1	78.75	50.68	773.02	N/A	CP	N/A	4.58	14.25	NO	15.1	144	6.1	3.1	N/A	N/A
2/8/2010	MW-2	35.10	5.94	791.28	N/A	CP	N/A	4.76	15.00	NO	15.5	330	5.6	2.2	N/A	N/A
2/8/2010	MW-3	28.15	6.99	806.08	N/A	CP	N/A	3.45	10.50	NO	14.5	103	5.2	3.1	N/A	N/A
2/8/2010	MW-4	50.20	38.82	828.56	N/A	CP	N/A	1.86	2.50	YES	13.2	47	6.3	3.6	N/A	N/A
2/8/2010	MW-5	30.71	22.90	799.79	N/A	CP	N/A	1.27	3.75	NO	14.3	39	5.8	6.6	N/A	N/A
2/8/2010	OB-1	65.50	45.43	780.42	N/A	NA	N/A	3.27	NA	N/A	NA	NA	NA	NA	NA	N/A

Sampling performed by Duke Energy

NA = Not Applicable

Purge Methods

LF = Low Flow

CP = Coventional Purge (3 to 5 well vol)

BP = No Purge (HydraSleeve)

NP = Not Purged

TABLE 2 - FIELD AND ANALYTICAL RESULTS
DUKE ENERGY MARSHALL STEAM STATION
FLY ASH LANDFILL - PERMIT #18-04
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

Revised July 20, 2010

Page 1 of 1

Sample Date: February 8, 2010 (Field and Geochemistry Data) **Laboratory Certificate Codes:**
Duke Power Field #5193
Pace Lab #40
Summit Analytical Labs #631

Field sampling performed by Duke Energy

Parameter	SW ID	Units	Certificate Codes	Monitoring Well Identification						Field Blank	SWSL	15A NCAC 2L*
				1804-MW-1	1804-MW-2	1804-MW-3	1804-MW-4	1804-MW-5	1804-OB-1			
Field pH	320	Std. Units	5193	6.1	5.6	5.2	6.3	5.8				6.5-8.5
Field Spec. Conductance	323	umho/cm	5193	144	330	103	47	39				
Temperature	325	C	5193	15.1	15.5	14.5	13.2	14.3				
Depth to Water	318	feet		50.68	5.94	6.99	38.82	22.90	45.43			
Water Elevation	319	feet		773.02	791.28	806.08	828.56	799.79	780.42			
Well Depth	41	feet		78.75	35.10	28.15	50.20	30.71	65.50			
Arsenic	14	µg/L	40	2.7	2.7 U	2.7 U	2.7 U	2.7 U		2.7 U	10	10
Barium	15	µg/L	40	68.8	59.9 J	342	51.8	39.7		0.20 U	100	700
Boron	316	µg/L	40	575	2660	22.0	17.3	15.0		11.5	NE	700
BOD, 5 day	NE	µg/L	40	2000 U	2000 U	2000 U	2000 U	2000 U			NE	NE
Cadmium	34	µg/L	40	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		0.50 U	1.0	2
Chemical Oxygen Demand	317	µg/L	40	25000 U	86000	25000 U	25000 U	25000 U		25000 U	NE	NE
Chloride	301	µg/L	40	5000 U	6540	10600	5000 U	5000 U		5000 U	NE	250000
Chromium	51	µg/L	40	7.2 J	0.40 U	0.86 J	2.0 J	0.40 U		0.40 U	10	10
Copper	54	µg/L	40	0.30 U	0.56 J	0.30 U	0.32 J	0.30 U		0.30 U	10	1000
Fluoride	312	µg/L	40	100 U	100 U	100 U	100 U	100 U		100 U	2000	2000
Iron	340	µg/L	40	14.0 U	14.0 U	14.0 U	533	117		14.0 U	300	300
Lab pH	321	Std. Units	40	6.1	5.3	5.1	5.9	5.7		6.0	NE	6.5-8.5
Lead	131	µg/L	40	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U		4.0 U	10	15
Manganese	342	µg/L	40	5.3 U	9.4	56.3	11.2	46.7		5.3 U	50	50
Mercury	132	µg/L	40	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U		0.070 U	0.20	1
Nickel	152	µg/L	40	1.7 U	2.5 J	3.0 J	1.7 U	1.7 U		1.7 U	50	100
Nitrate, as Nitrogen	303	µg-N/L	40	100 U	378 J	6930	100 U	100 U		100 U	1000	10000
Selenium	183	µg/L	40	3.8 U	23.5	3.8 U	3.8 U	3.8 U		3.8 U	10	20
Silver	184	µg/L	40	0.42 J	1.3 J	0.10 U	0.10 U	0.10 U		4.0 J	10	20
Sulfate	315	µg/L	40	38700	111000	5000 U	5000 U	5000 U		5000 U	250000	250000
Total Dissolved Solids	311	µg/L	40	120000 U	236000	72000	52000	54000			NE	500000
Total Organic Carbon	357	µg/L	40	4650 U	13500	8180	3810	3610		1000 U	NE	NE
Total Organic Halide	396	mg/L	631	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	NE	NE
Zinc	213	µg/L	40	1.2 J	68.1	16.9	1.5 J	2.3 J		0.59 J	10	1000

Notes:

15A NCAC 2L = 15A NCAC 2L .0200, Groundwater Quality Standards for Class GA groundwater (effective 1/1/10)

BOLD VALUES indicate values that attain or exceed the 15A NCAC 2L MCL.

Values in gray cells indicate values that equal or exceed the SWSL.

J = Parameters are values greater than Method Detection Limit (MDL) but less than the SWSL

U = Not detected above the MDL, for reporting purposes concentrations have been set equal to the MDL.

* **Maximum Contaminant Level (MCL)**

Analytical results provided by Duke Energy and are found in

Pace Lab Report 9262880, dated February 24, 2010.

NC SWSL = North Carolina Solid Waste Section Limit

NE = Not established

APPENDIX





Duke Energy Analytical Lab Services
 Mail Code MGO3A2 (Building 7405)
 13339 Hagers Ferry Rd
 Huntersville, N. C. 28078
 (704) 875-6245
 Fax: (704) 875-5038

For Detailed Instructions, see:
<http://dewww/essenv/cocl>

Customer must Complete

1) Project Name: MARSHALL DRY ASH LANDFILL
 2) Phone No: 875-6257
 3) Client: LDC / TSH / Ed Sullivan
 4) Fax No: 875-4348
 5) Business Unit: 20038
 6) Process: ENVWT
 7) Resp. To: MS00
 8) Project ID:
 9) Activity ID:
 10) Mail Code: MGO3A3

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Analytical Laboratory Use Only

LMS #: 10-JAN-0223
 Sample Class: GWATER
 Samples Originating From: NC / SC
 Labbed By: JBC
 Date & Time: 1/18/10 10:29
 Sample Program: Ground Water / Drinking Water / DDT / RCRA Waste

Vendor: PACE (all samples)
 Cooler Temp (C): All = 2°C
 1) Preserv. Method: 2-H₂O, 3-HNO₃, 4-HCl, 5-Meth
 MR #

18) Page 1 of 1
 DISTRIBUTION
 ORIGINAL to LAB,
 COPY to CLIENT

020280

LAB USE ONLY 1) Lab ID	12) Chem Desktop No.		13) Sample Description or ID		14) Collection Information		15) Analytes Required	NO ₃ , Cl, Fluoride	TOC	Hg	METALS (Ag, As, B, Ba, Ca, Cd, Cr, K, Mg, Na, Ni, Pb, Se, Cu, Fe, Mn, Zn)	COD	TOX	BOD	TDS	Chlorine (ppm)	20) Total # of Containers
	Date	Time	Signature	17) Comp.	18) Grab												
30000890	MW-1	2/8/10 1430	LO CCM	X	1	1						1	1	1	1	0	8
30000891	MW-2	2/8/10 1320	LO CCM	X	1	1						1	1	1	1	0	8
30000892	MW-3	2/8/10 0955	LO CCM	X	1	1						1	1	1	1	0	8
30000893	MW-4	2/8/10 1145	LO CCM	X	1	1						1	1	1	1	0	8
30000894	MW-5	2/8/10 1115	LO CCM	X	1	1						1	1	1	1	0	8
30000895	QC SAMPLE (WELL # MWA3)	2/8/10 0955	LO CCM	X	1	1						1	1	1	1	0	8
30000896	FIELD BLANK	2/8/10 1430	LO CCM	X	1	1						1	1	1	n/a	0	6

Customer to complete all appropriate NON-SHADED areas.

Customer to sign & date below

21) Requested By: LO CCM
 Date/Time: 2/9/10 0735
 22) Requested Turnaround: please indicate desired turnaround

23) Requested By: EBC Calderon 2-9-10
 Date/Time: 2-9-10 0735
 24) Requested By: EBC Calderon 2-9-10
 Date/Time: 2-9-10 1415
 25) Requested By: EBC Calderon 2-9-10
 Date/Time: 2-9-10 1500
 26) Comments: Requested each Operated By

Regulatory Agency: NCDENR/DWM - SW Section - State EDD Form Required

2-2-22

