TABLE 1 - FIELD DATA PARAMETERS
DUKE ENERGY PINE HALL ROAD
FLY ASH LANDFILL - PERMIT #85-03
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

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)
10/19/2009	MW-1	47.20	36.90	816.12	NA	CP	N/A	1.68	2.25	YES	15.6	16	5.0	170.0	N/A	N/A
10/20/2009	MW-1D	90.53	42.15	812.18	NA	CP	N/A	7.89	19.50	NO	13.7	188	6.7	5.6	N/A	N/A
10/19/2009	MW-2	50.00	44.83	808.56	NA	CP	N/A	0.84	0.50	YES	14.0	130	6.2	43.8	N/A	N/A
10/19/2009	MW-3	49.50	43.29	799.90	NA	CP	N/A	1.01	1.00	YES	12.3	49	5.7	32.6	N/A	N/A
10/19/2009	MW-4	40.20	13.21	754.90	NA	CP	N/A	4.40	13.50	NO	14.5	170	6.2	5.2	N/A	N/A
10/20/2009	MW-5	60.20	26.55	760.62	NA	CP	N/A	5.49	16.50	NO	13.6	35	5.8	37.4	N/A	N/A
10/20/2009	MW-6	36.84	34.27	803.43	NA	CP	N/A	0.42	1.50	NO	12.9	50	5.5	2.8	N/A	N/A
10/19/2009	MW-7	14.26	6.64	808.93	NA	CP	N/A	1.24	3.75	NO	18.7	84	5.7	84.3	N/A	N/A
10/19/2009	MW2-7	30.62	14.48	764.31	NA	CP	N/A	2.63	12.00	NO	16.0	1859	5.4	9.6	N/A	N/A
10/19/2009	MW2-9	14.61	5.98	792.06	NA	CP	N/A	1.41	2.50	YES	17.4	573	6.5	7.7	N/A	N/A
10/19/2009	OB-4	30.03	23.34	754.26	NA	CP	N/A	1.09	3.75	NO	15.5	2340	7.6	4.1	N/A	N/A
10/19/2009	OB-5	36.60	26.53	754.40	NA	CP	N/A	1.64	5.25	NO	15.8	33	5.5	25.5	N/A	N/A
10/19/2009	OB-9	48.57	38.29	761.87	NA	CP	N/A	1.68	6.00	NO	14.0	2332	5.2	2.7	N/A	N/A
10/19/2009	SW-1A	N/A	N/A	N/A	NA	NP	NA	N/A	NA	NA	9.6	1783	5.9	4.6	NA	NA
10/19/2009	SW-2	N/A	N/A	N/A	NA	NP	NA	N/A	NA	NA	10.0	328	6.2	4.2	NA	NA

Sampling Performed by Duke Energy

Purge Methods
LF = Low Flow
CP = Coventional Purge (3 to 5 well vol)
BP = No Purge (HydraSleeve)
LO - Level Only

TABLE 2 - FIELD AND ANALYTICAL RESULTS
DUKE ENERGY PINE HALL ROAD
FLY ASH LANDFILL - PERMIT #85-03
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

1/18/2010

Facility: Belews Creek Steam Station Pine Hall Road Fly-Ash Landfill #85-03

Sample Date: 10/19/2009 and 10/20/2009 (Field and Geochemistry Data)

Field sampling performed by Duke Energy

Laboratory Certificate Codes:
Duke Power Field #5193
Pace Lab #40
Summit Lab #631

Parameter	SWS ID	Units	Certificate Code	Monitoring Well Identification						SWSL	15A NCAC 2L*
				8503-MW-1	8503-MW-1D	8503-MW-2	8503-MW-3	8503-MW-4	8503-MW-5		
Field pH	320	Std. Units	5193	**5.0**	6.7	**6.2**	**5.7**	**6.2**	**5.8**		**6.5-8.5**
Field Spec. Conductance	323	umho/cm	5193	16	188	130	49	170	35		
Temperature	325	C	5193	15.6	13.7	14.0	12.3	14.5	13.6		
Top Casing	328	msl-feet		853.02	854.33	853.39	843.19	768.11	787.17		
Depth to Water	318	feet		36.90	42.15	44.83	43.29	13.21	26.55		
Water Elevation	319	msl-feet		816.12	812.18	808.56	799.90	754.90	760.62		
Well Depth	41	feet		47.20	90.53	50.00	49.50	40.20	60.20		
Arsenic	14	ug/l	40	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	**10**	**50**
Barium	15	ug/l	40	18.4 J	1.9 J	84.8 J	50.9 J	2.3 J	33.6 J	**100**	**2000**
BOD	316	ug/l	40	2.0 U	2.0 U	2.2	2.0 U	2.0 U	2.0 U	**NE**	**NE**
Boron	NE	ug/l	40	6.9	17.6	9.4	5.6	200	5.6	**NE**	**315**
Cadmium	34	ug/l	40	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**1.0**	**1.75**
Chemical Oxygen Demand	317	ug/l	40	25000 U	25000 U	25000 U	25000 U	25000 U	25000 U	**NE**	**NE**
Chloride	301	ug/l	40	5000 U	8260	7090	8990	5000 U	5000 U	**NE**	**250000**
Chromium	51	ug/l	40	2.6 J	0.40 U	5.6 J	6.2 J	12.8	1.9 J	**10**	**50**
Copper	54	ug/l	40	1.8 J	0.54 J	2.1 J	1.2 J	0.30 U	120	**10**	**1000**
Fluoride	312	ug/l	40	100 U	170 J	100 U	100 U	100 U	100 U	**2000**	**2000**
Iron	340	ug/l	40	**1120**	77.3 J	**3820**	**1770**	71.3 J	**854**	**300**	**300**
Lab pH	321	Std. Units	40	**5.2**	6.8	**6.2**	**5.9**	**6.1**	**6.0**		**6.5-8.5**
Lead	131	ug/l	40	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	11.7	**10**	**15**
Manganese	342	ug/l	40	46.4 J	**215**	**314**	27.7 J	4.7 J	25.9 J	**50**	**50**
Mercury	132	ug/l	40	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	**0.20**	**1.05**
Nickel	152	ug/l	40	1.7 J	1.7 J	5.2	5.8 J	1.8 J	1.7 J	**50**	**100.00**
Nitrate (as Nitrogen)	303	ug-N/l	40	227 J	938 J	403 J	100 U	518 J	2000	**1000**	**10000**
Selenium	183	ug/l	40	3.8 U	3.8 U	3.8 U	3.8 U	4.4 J	3.8 U	**10**	**50**
Silver	184	ug/l	40	0.14 J	0.10 U	0.22 J	0.10 U	0.13 J	0.10 U	**10**	**17.5**
Sulfate	315	ug/l	40	5000 U	15000 J	5000 U	5000 U	37300 J	5000 U	**250000**	**250000**
Total Dissolved Solids	311	ug/l	40	20000 U	102000	56000	38000	120000	34000	**NE**	**500000**
Total Organic Carbon	357	ug/l	40	1000 U	1000 U	1320	22500	1000 U	1150	**NE**	**NE**
Total Organic Halogen	396	ug/l	631	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**NE**	**NE**
Zinc	213	ug/l	40	9.6 J	2.5 J	5.8 J	8.2 J	2.8 J	72.7	**10**	**1050**

*** Maximum Contaminant Level (MCL)**

Notes:

15A NCAC 2L = 15A NCAC 2L .0200, Groundwater Quality Standards for Class GA groundwater

NC SWSL = North Carolina Solid Waste Section Limit

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

NE = Not established

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 method detection limit, for reporting purposes concentrations have been set equal to the method detection limit

Groundwater sampling at this site occurred prior to the 15 A NCAC 02L .0202 Groundwater Quality Standards revision date of January 1, 2010.

Therefore the analytical results were compared to the Groundwater Standards in effect at the time of sampling.

Analytical results provided by Duke Energy and are found in

Pace Lab Report 9255649, dated November 11, 2009.

TABLE 2 - FIELD AND ANALYTICAL RESULTS
DUKE ENERGY PINE HALL ROAD
FLY ASH LANDFILL - PERMIT #85-03
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

Facility: Belews Creek Steam Station Pine Hall Road Fly-Ash Landfill #85-03

Sample Date: 10/19/2009 and 10/20/2009 (Field and Geochemistry Data)

Field sampling performed by Duke Energy

Laboratory Certificate Codes:
Duke Power Field #5193
Pace Lab #40
Summit Lab #631

Parameter	SWS ID	Units	Certificate Code	Monitoring Well Identification						SWSL	15A NCAC 2L*
				8503-MW-6	8503-MW-7	8503-MW2-7	8503-MW2-9	8503-OB-4	8503-OB-5		
Field pH	320	Std. Units	5193	**5.5**	**5.7**	**5.4**	**6.5**	7.6	**5.5**		**6.5-8.5**
Field Spec. Conductance	323	umho/cm	5193	50	84	1859	573	2340	33		
Temperature	325	C	5193	12.9	18.7	16.0	17.4	15.5	15.8		
Top Casing	328	msl-feet		837.70	815.57	778.79	798.04	777.60	780.93		
Depth to Water	318	feet		34.27	6.64	14.48	5.98	23.34	26.53		
Water Elevation	319	msl-feet		803.43	808.93	764.31	792.06	754.26	754.40		
Well Depth	41	feet		36.84	14.26	30.62	14.61	30.03	36.60		
Arsenic	14	ug/l	40	2.7 U	2.7 U	6.4 J	2.7 U	39.3	2.7 U	**10**	**50**
Barium	15	ug/l	40	42.4 J	43.3 J	34.3 J	80.0 J	34.6 J	137	**100**	**2000**
BOD	316	ug/l	40	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**NE**	**NE**
Boron	NE	ug/l	40	5.5	13.7	**16200**	**1510**	**26300**	9.8	**NE**	**315**
Cadmium	34	ug/l	40	0.50 U	0.50 U	0.65 J	0.50 U	0.50 U	0.50 U	**1.0**	**1.75**
Chemical Oxygen Demand	317	ug/l	40	25000 U	25000 U	25000 U	40000	25000 U	25000 U	**NE**	**NE**
Chloride	301	ug/l	40	6020	5140	16500	14900	5310	5000 U	**NE**	**250000**
Chromium	51	ug/l	40	0.40 U	0.90 J	0.49 J	0.69 J	0.64 U	1.2 J	**10**	**50**
Copper	54	ug/l	40	0.30 U	0.88 J	0.30 U	1.7 J	0.30 U	0.30 U	**10**	**1000**
Fluoride	312	ug/l	40	100 U	100 U	100 U	120 J	950 J	100 U	**2000**	**2000**
Iron	340	ug/l	40	**670**	**1140**	14.0 U	**8130**	20.1 J	**996**	**300**	**300**
Lab pH	321	Std. Units	40	**5.5**	**5.6**	**5.6**	**6.4**	7.6	**5.5**		**6.5-8.5**
Lead	131	ug/l	40	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	**10**	**15**
Manganese	342	ug/l	40	47.8 J	**61.5**	**216**	**5070**	**3160**	25.1 J	**50**	**50**
Mercury	132	ug/l	40	0.070 U	0.24	0.10 J	0.070 U	0.070 U	0.070 U	**0.20**	**1.05**
Nickel	152	ug/l	40	1.7 U	1.7 U	7.5 J	3.7 J	1.7 U	1.7 U	**50**	**100.00**
Nitrate (as Nitrogen)	303	ug-N/l	40	1620	100 U	**29100**	1990	100 U	100 U	**1000**	**10000**
Selenium	183	ug/l	40	3.8 U	3.8 U	**132**	3.8 U	43.3	3.8 U	**10**	**50**
Silver	184	ug/l	40	0.10 U	0.10 U	1.1 J	0.48 J	8.6 J	0.10 U	**10**	**17.5**
Sulfate	315	ug/l	40	5000 U	5000 U	**938000**	112000	26000	5000 U	**250000**	**250000**
Total Dissolved Solids	311	ug/l	40	38000	82000	**1680000**	322000	**2260000**	66000	**NE**	**500000**
Total Organic Carbon	357	ug/l	40	1000 U	2120	2420	13800	3030	1260	**NE**	**NE**
Total Organic Halogen	396	ug/l	631	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**NE**	**NE**
Zinc	213	ug/l	40	3.6 J	18.6	8.2 J	14.9	2.0 J	10.2	**10**	**1050**

*** Maximum Contaminant Level (MCL)**

Notes:

15A NCAC 2L = 15A NCAC 2L .0200, Groundwater Quality Standards for Class GA groundwater

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

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Groundwater sampling at this site occurred prior to the 15 A NCAC 02L .0202 Groundwater Quality Standards revision date of January 1, 2010.

Therefore the analytical results were compared to the Groundwater Standards in effect at the time of sampling.

Analytical results provided by Duke Energy and are found in

Pace Lab Report 9255649, dated November 11, 2009.

TABLE 2 - FIELD AND ANALYTICAL RESULTS
DUKE ENERGY PINE HALL ROAD
FLY ASH LANDFILL - PERMIT #85-03 **1/18/2010**
GROUNDWATER MONITORING REPORT
S&ME PROJECT 1411-09-047

Facility: Belews Creek Steam Station Pine Hall Road Fly-Ash Landfill #85-03

Laboratory Certificate Codes:
Duke Power Field #5193
Pace Lab #40
Summit Lab #631

Sample Date: 10/19/2009 and 10/20/2009 (Field and Geochemistry Data)

Field sampling performed by Duke Energy

Parameter	SWS ID	Units	Certificate Code	Monitoring Well Identification				SWSL	15A NCAC 2L*
				8503-OB-9	8503-SW-1A	8503-SW-2	FIELD BLANK		
Field pH	320	Std. Units	5193	**5.2**	**5.9**	**6.2**			**6.5-8.5**
Field Spec. Conductance	323	umho/cm	5193	2332	1783	328			
Temperature	325	C	5193	14.0	9.6	10.0			
Top Casing	328	msl-feet		800.16					
Depth to Water	318	feet		38.29					
Water Elevation	319	msl-feet		761.87					
Well Depth	41	feet		48.57					
Arsenic	14	ug/l	40	10.7	8.0 J	2.7 U	2.7 U	**10**	**50**
Barium	15	ug/l	40	14.4 J	40.1 J	36.2 J	1.40 J	**100**	**2000**
BOD	316	ug/l	40	2.0 U	2.0 U	2.0 U		**NE**	**NE**
Boron	NE	ug/l	40	**33400**	**17200**	**4270**	15.1	**NE**	**315**
Cadmium	34	ug/l	40	**4.9**	0.94 J	0.50 U	0.50 U	**1.0**	**1.75**
Chemical Oxygen Demand	317	ug/l	40	25000 U	25000 U	25000 U	25000 U	**NE**	**NE**
Chloride	301	ug/l	40	13200	13900	5350	5000 U	**NE**	**250000**
Chromium	51	ug/l	40	0.40 U	0.40 U	0.40 U	0.40 U	**10**	**50**
Copper	54	ug/l	40	0.30 U	0.30 U	0.30 U	0.48 J	**10**	**1000**
Fluoride	312	ug/l	40	100 U	100 U	100 U	100 U	**2000**	**2000**
Iron	340	ug/l	40	14.0 U	80.2 J	63.3 J	17.6 J	**300**	**300**
Lab pH	321	Std. Units	40	**5.5**	**6.3**	**6.3**	**5.9**		**6.5-8.5**
Lead	131	ug/l	40	4.0 U	4.0 U	4.0 U	4.0 U	**10**	**15**
Manganese	342	ug/l	40	**2720**	**1560**	**85.1**	0.30 U	**50**	**50**
Mercury	132	ug/l	40	0.32	0.070 U	0.070 U	0.070 U	**0.20**	**1.05**
Nickel	152	ug/l	40	15.4 J	3.7 J	4.4 J	1.7 U	**50**	**100.00**
Nitrate (as Nitrogen)	303	ug-N/l	40	4990	**29700**	699 J	100 U	**1000**	**10000**
Selenium	183	ug/l	40	**249**	**94.8**	20.4	3.8 U	**10**	**50**
Silver	184	ug/l	40	1.1 J	0.89 J	0.16 J	0.10 U	**10**	**17.5**
Sulfate	315	ug/l	40	**1240000**	**801000**	137000 J	5000 U	**250000**	**250000**
Total Dissolved Solids	311	ug/l	40	**2170000**	**1630000**	262000		**NE**	**500000**
Total Organic Carbon	357	ug/l	40	3760	28200	1000 U	1000 U	**NE**	**NE**
Total Organic Halogen	396	ug/l	631	0.05 U	0.05 U	0.05 U	0.05 U	**NE**	**NE**
Zinc	213	ug/l	40	68.5	8.4 J	21.5	6.2 J	**10**	**1050**

*** Maximum Contaminant Level (MCL)**

Notes:

15A NCAC 2L = 15A NCAC 2L .0200, Groundwater Quality Standards for Class GA groundwater

NC SWSL = North Carolina Solid Waste Section Limit

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

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Groundwater sampling at this site occurred prior to the 15 A NCAC 02L .0202 Groundwater Quality Standards revision date of January 1, 2010.

Therefore the analytical results were compared to the Groundwater Standards in effect at the time of sampling.

Analytical results provided by Duke Energy and are found in

Pace Lab Report 9255649, dated November 11, 2009.

Table 3
Groundwater Analytical Results
Appendix I - 40 CFR Part 258 Compounds
Belews Creek Steam Station Pine Hall Fly-Ash Landfill #85-03
S&ME Project No. 1411-09-047
Sample Date: October 19-20, 2009

January 18, 2010

Field sampling performed by Duke Energy

	Compound	NCAC 2L Stds. (ug/L)	SWSL (ug/L)	8503-MW-1		8503-MW-1D		8503-MW-2		8503-MW-3		8503-MW-4		8503-MW-5	
(1)	Antimony	NE	6	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
(2)	Arsenic	50	10	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
(3)	Barium	2000	100	18.4	J	1.9	J	84.8	J	50.9	J	2.3	J	33.6	J
(4)	Beryllium	NE	1	0.23	J	0.1	U	0.41	J	0.31	J	0.1	U	0.25	J
(5)	Cadmium	1.75	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
(6)	Chromium	50	10	2.6	J	0.4	U	5.6	J	6.2	J	12.8		1.9	J
(7)	Cobalt	NE	10	1.2	J	0.6	U	5.8	J	0.7	J	0.6	U	0.6	U
(8)	Copper	1000	10	1.8	J	0.54	J	2.1	J	1.2	J	0.3	U	120	
(9)	Lead	15	10	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	11.7	
(10)	Nickel	100	50	1.7	J	1.7	U	5.2	J	5.8	J	1.8	J	1.7	U
(11)	Selenium	50	10	3.8	U	3.8	U	3.8	U	3.8	U	4.4	J	3.8	U
(12)	Silver	17.5	10	0.14	J	0.1	U	0.22	J	0.1	U	0.13	J	0.1	U
(13)	Thallium	NE	5.5	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
(14)	Vanadium	NE	25	1.3	J	0.86	J	1.0	J	4.8	J	2.2	J	2.0	J
(15)	Zinc	1050	10	9.6	J	2.5	J	5.8	J	8.2	J	2.8	J	72.7	
(16)	Acetone	700	100	2.2	U	2.2	U	6.5	J	2.2	U	2.2	U	2.2	U
(17)	Acrylonitrile	NE	200	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
(18)	Benzene	1	1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
(19)	Bromochloromethane	NE	3	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
(20)	Bromodichloromethane	0.56	1	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
(21)	Bromoform	4.43	3	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
(22)	Carbon disulfide	700	100	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
(23)	Carbon tetrachloride	0.269	1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
(24)	Chlorobenzene	50	3	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
(25)	Chloroethane	2800	10	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U
(26)	Chloroform	70	5	0.14	U	0.14	U	0.14	U	0.43	J	0.14	U	0.14	U
(27)	Dibromochloromethane	0.41 (1)	3	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
(28)	1,2-Dibromo-3-chloropropane	0.025	13	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
(29)	1,2-Dibromoethane (EDB)	0.0004	1	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U
(30)	1,2-Dichlorobenzene	24	5	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
(31)	1,4-Dichlorobenzene	1.4	1	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
(32)	trans-1,4-Dichloro-2-butene	NE	100	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
(33)	1,1-Dichloroethane	70	5	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
(34)	1,2-Dichloroethane	0.38	1	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
(35)	1,1-Dichloroethene	7	5	0.56	U	0.56	U	0.56	U	0.56	U	0.56	U	0.56	U
(36)	cis-1,2-Dichloroethene	70	5	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
(37)	trans-1,2-Dichloroethene	100	5	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U
(38)	1,2-Dichloropropane	0.51	1	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U
(39)	cis-1,3-Dichloropropene	0.19	1	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
(40)	trans-1,3-Dichloropropene	0.19	1	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
(41)	Ethylbenzene	550	1	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
(42)	2-Hexanone	28 (1)	50	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U
(43)	Bromomethane	NE	10	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U
(44)	Chloromethane	2.6	1	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
(45)	Dibromomethane	NE	10	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
(46)	Methylene Chloride	2.6	1	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U
(47)	2-Butanone (MEK)	4200	100	0.96	U	0.96	U	4.4	J	0.96	U	0.96	U	0.96	U
(48)	Iodomethane	NE	10	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
(49)	4-Methyl-2-pentanone (MIBK)	NE	100	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
(50)	Styrene	100	1	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
(51)	1,1,1,2-Tetrachloroethane	NE	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
(52)	1,1,2,2-Tetrachloroethane	0.17 (1)	3	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
(53)	Tetrachloroethene	0.7	1	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U
(54)	Toluene	1000	1	0.26	U	0.26	U	50.3		0.26	U	0.26	U	0.26	U
(55)	1,1,1-Trichloroethane	200	1	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
(56)	1,1,2-Trichloroethane	NE	1	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U
(57)	Trichloroethene	2.8	1	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
(58)	Trichlorofluoromethane	2100	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
(59)	1,2,3-Trichloropropane	0.005	1	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U
(60)	Vinyl acetate	NE	50	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
(61)	Vinyl chloride	0.015	1	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U
(62)	m,p,o-Xylenes	1050	5	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U

Notes:

15A NCAC 2L = 15A NCAC 2L .0200, Groundwater Quality Standards for Class GA groundwater

(1) Interim Maximum Allowable Concentration

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

ND = Not detected by Lab at or above adjusted reporting limit.

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

U = Indicates compound was analyzed for, but not detected above the Laboratory Reporting Limit

NC SWSL = North Carolina Solid Waste Section Limit

NE = Not established

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

Groundwater sampling at this site occurred prior to the 15 A NCAC 02L .0202 Groundwater Quality Standards revision date of January 1, 2010.

Therefore the analytical results were compared to the Groundwater Standards in effect at the time of sampling.

Analyses performed by Pace Analytical Asheville, NC Wastewater Certification #40 and

by Pace Analytical Huntersville, NC Wastewater Certification #12

Table 3
Groundwater Analytical Results
Appendix I - 40 CFR Part 258 Compounds
Belews Creek Steam Station Pine Hall Fly-Ash Landfill #85-03
S&ME Project No. 1411-09-047
Sample Date: October 19-20, 2009

January 18, 2010

Field sampling performed by Duke Energy

	Compound	NCAC 2L Stds. (ug/L)	SWSL (ug/L)	8503-MW-6		8503-MW-7		8503-MW2-7		8503-MW2-9		8503-OB-4		8503-OB-5	
(1)	Antimony	NE	6	2.6	U	2.6	U	2.6	U	2.6	U	7.1		2.6	U
(2)	Arsenic	50	10	2.7	U	2.7	U	6.4	J	2.7	U	39.3		2.7	U
(3)	Barium	2000	100	42.4	J	43.3	J	34.3	J	80.0	J	34.6	J	137	
(4)	Beryllium	NE	1	0.64	J	0.18	J	1.9		0.1	U	0.2	J	0.41	J
(5)	Cadmium	1.75	1	0.5	U	0.5	U	0.65	J	0.5	U	0.5	U	0.5	U
(6)	Chromium	50	10	0.4	U	0.9	J	0.49	J	0.69	J	0.64	J	1.2	J
(7)	Cobalt	NE	10	0.84	J	0.6	U	0.6	U	11.7		0.6	U	0.6	U
(8)	Copper	1000	10	0.3	U	0.88	J	0.3	U	1.7	J	0.3	U	0.3	U
(9)	Lead	15	10	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
(10)	Nickel	100	50	1.7	U	1.7	U	7.5	J	3.7	J	1.7	U	1.7	U
(11)	Selenium	50	10	3.8	U	3.8	U	**132**		3.8	U	43.3		3.8	U
(12)	Silver	17.5	10	0.1	U	0.1	U	1.1	J	0.48	J	8.6	J	0.1	U
(13)	Thallium	NE	5.5	3.0	U	3.0	U	3.0	U	3.0	U	12.4		3.0	U
(14)	Vanadium	NE	25	0.51	J	1.6	J	0.98	J	0.97	J	97.8		2.7	J
(15)	Zinc	1050	10	3.6	J	18.6		8.2	J	14.9		2.0	J	10.2	
(16)	Acetone	700	100	2.2	U	2.2	U	2.2	U	27.8	J	2.2	U	2.2	U
(17)	Acrylonitrile	NE	200	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
(18)	Benzene	1	1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
(19)	Bromochloromethane	NE	3	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
(20)	Bromodichloromethane	0.56	1	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U
(21)	Bromoform	4.43	3	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
(22)	Carbon disulfide	700	100	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
(23)	Carbon tetrachloride	0.269	1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
(24)	Chlorobenzene	50	3	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
(25)	Chloroethane	2800	10	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U
(26)	Chloroform	70	5	0.90	J	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
(27)	Dibromochloromethane	0.41 (1)	3	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
(28)	1,2-Dibromo-3-chloropropane	0.025	13	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
(29)	1,2-Dibromoethane (EDB)	0.0004	1	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U
(30)	1,2-Dichlorobenzene	24	5	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
(31)	1,4-Dichlorobenzene	1.4	1	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
(32)	trans-1,4-Dichloro-2-butene	NE	100	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
(33)	1,1-Dichloroethane	70	5	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
(34)	1,2-Dichloroethane	0.38	1	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
(35)	1,1-Dichloroethene	7	5	0.56	U	0.56	U	0.56	U	0.56	U	0.56	U	0.56	U
(36)	cis-1,2-Dichloroethene	70	5	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
(37)	trans-1,2-Dichloroethene	100	5	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U
(38)	1,2-Dichloropropane	0.51	1	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U
(39)	cis-1,3-Dichloropropene	0.19	1	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
(40)	trans-1,3-Dichloropropene	0.19	1	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
(41)	Ethylbenzene	550	50	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
(42)	2-Hexanone	28 (1)	10	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U
(43)	Bromomethane	NE	1	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U
(44)	Chloromethane	2.6	1	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
(45)	Dibromomethane	NE	10	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
(46)	Methylene Chloride	2.6	1	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U
(47)	2-Butanone (MEK)	4200	100	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U
(48)	Iodomethane	NE	10	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
(49)	4-Methyl-2-pentanone (MIBK)	NE	100	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
(50)	Styrene	100	1	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
(51)	1,1,1,2-Tetrachloroethane	NE	5	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
(52)	1,1,2,2-Tetrachloroethane	0.17 (1)	3	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
(53)	Tetrachloroethene	0.7	1	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U
(54)	Toluene	1000	1	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
(55)	1,1,1-Trichloroethane	200	1	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
(56)	1,1,2-Trichloroethane	NE	1	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U
(57)	Trichloroethene	2.8	1	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
(58)	Trichlorofluoromethane	2100	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
(59)	1,2,3-Trichloropropane	0.005	1	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U
(60)	Vinyl acetate	NE	50	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
(61)	Vinyl chloride	0.015	1	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U
(62)	m,p,o-Xylenes	1050	5	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U

Notes:
15A NCAC 2L = 15A NCAC 2L .0200, Groundwater Quality Standards for Class GA groundwater
(1) Interim Maximum Allowable Concentration
BOLD VALUES indicate a values that attain or exceed the 15A NCAC 2L MCL.
ND = Not detected by Lab at or above adjusted reporting limit.
J = Parameters are estimated values greater than Method Detection Limit (MDL) but less than the SWSL
U = Indicates compound was analyzed for, but not detected above the Laboratory Reporting Limit

NC SWSL = North Carolina Solid Waste Section Limit
NE = Not established
Values in gray cells indicate values that attain or exceed the SWSL.

Groundwater sampling at this site occurred prior to the 15 A NCAC 02L .0202 Groundwater Quality Standards revision date of January 1, 2010.
Therefore the analytical results were compared to the Groundwater Standards in effect at the time of sampling.

Analyses performed by Pace Analytical Asheville, NC Wastewater Certification #40 and
by Pace Analytical Huntersville, NC Wastewater Certification #12

Table 3
Groundwater Analytical Results
Appendix I - 40 CFR Part 258 Compounds
Belews Creek Steam Station Pine Hall Fly-Ash Landfill #85-03
S&ME Project No. 1411-09-047
Sample Date: October 19-20, 2009

January 18, 2010

Field sampling performed by Duke Energy

	Compound	NCAC 2L Stds. (ug/L)	SWSL (ug/L)	8503-OB-9		8503-SW-1A		8503-SW-2		FIELD BLANK	
(1)	Antimony	NE	6	2.6	U	2.6	U	2.6	U	2.6	U
(2)	Arsenic	50	10	10.7		8.0	J	2.7	U	2.7	U
(3)	Barium	2000	100	14.4	J	40.1	J	36.2	J	1.4	J
(4)	Beryllium	NE	1	2.7		1.6		1.2		0.1	U
(5)	Cadmium	1.75	1	**4.9**		0.94	J	0.5	U	0.5	U
(6)	Chromium	50	10	0.4	U	0.4	U	0.4	U	0.4	U
(7)	Cobalt	NE	10	0.6	U	0.6	U	0.6	U	0.6	U
(8)	Copper	1000	10	0.3	U	0.3	U	0.3	U	0.48	J
(9)	Lead	15	10	4.0	U	4.0	U	4.0	U	4.0	U
(10)	Nickel	100	50	15.4	J	3.7	J	4.4	J	1.7	U
(11)	Selenium	50	10	**249**		**94.8**		20.4		3.8	U
(12)	Silver	17.5	10	1.1	J	0.89	J	0.16	J	0.1	U
(13)	Thallium	NE	5.5	3.0	U	3.0	U	3.0	U	3.0	U
(14)	Vanadium	NE	25	1.2	J	0.94	J	0.47	J	0.2	U
(15)	Zinc	1050	10	68.5		8.4	J	21.5		6.2	J
(16)	Acetone	700	100	2.2	U	2.2	U	2.2	U	2.2	U
(17)	Acrylonitrile	NE	200	1.9	U	1.9	U	1.9	U	1.9	U
(18)	Benzene	1	1	0.25	U	0.25	U	0.25	U	0.25	U
(19)	Bromochloromethane	NE	3	0.17	U	0.17	U	0.17	U	0.17	U
(20)	Bromodichloromethane	0.56	1	0.18	U	0.18	U	0.18	U	0.18	U
(21)	Bromoform	4.43	3	0.26	U	0.26	U	0.26	U	0.26	U
(22)	Carbon disulfide	700	100	1.2	U	1.2	U	1.2	U	1.2	U
(23)	Carbon tetrachloride	0.269	1	0.25	U	0.25	U	0.25	U	0.25	U
(24)	Chlorobenzene	50	3	0.23	U	0.23	U	0.23	U	0.23	U
(25)	Chloroethane	2800	10	0.54	U	0.54	U	0.54	U	0.54	U
(26)	Chloroform	70	5	0.14	U	0.14	U	0.14	U	0.14	U
(27)	Dibromochloromethane	0.41 (1)	3	0.21	U	0.21	U	0.21	U	0.21	U
(28)	1,2-Dibromo-3-chloropropane	0.025	13	2.5	U	2.5	U	2.5	U	2.5	U
(29)	1,2-Dibromoethane (EDB)	0.0004	1	0.27	U	0.27	U	0.27	U	0.27	U
(30)	1,2-Dichlorobenzene	24	5	0.3	U	0.3	U	0.3	U	0.3	U
(31)	1,4-Dichlorobenzene	1.4	1	0.33	U	0.33	U	0.33	U	0.33	U
(32)	trans-1,4-Dichloro-2-butene	NE	100	1.0	U	1.0	U	1.0	U	1.0	U
(33)	1,1-Dichloroethane	70	5	0.32	U	0.32	U	0.32	U	0.32	U
(34)	1,2-Dichloroethane	0.38	1	0.12	U	0.12	U	0.12	U	0.12	U
(35)	1,1-Dichloroethene	7	5	0.56	U	0.56	U	0.56	U	0.56	U
(36)	cis-1,2-Dichloroethene	70	5	0.19	U	0.19	U	0.19	U	0.19	U
(37)	trans-1,2-Dichloroethene	100	5	0.49	U	0.49	U	0.49	U	0.49	U
(38)	1,2-Dichloropropane	0.51	1	0.27	U	0.27	U	0.27	U	0.27	U
(39)	cis-1,3-Dichloropropene	0.19	1	0.13	U	0.13	U	0.13	U	0.13	U
(40)	trans-1,3-Dichloropropene	0.19	1	0.26	U	0.26	U	0.26	U	0.26	U
(41)	Ethylbenzene	550	50	0.46	U	0.34	J	0.31	J	0.3	U
(42)	2-Hexanone	28 (1)	10	0.29	U	0.46	U	0.46	U	0.46	U
(43)	Bromomethane	NE	1	0.3	U	0.29	U	0.29	U	0.29	U
(44)	Chloromethane	2.6	1	0.11	U	0.11	U	0.11	U	0.11	U
(45)	Dibromomethane	NE	10	0.21	U	0.21	U	0.21	U	0.21	U
(46)	Methylene Chloride	2.6	1	0.97	U	0.97	U	0.97	U	0.97	U
(47)	2-Butanone (MEK)	4200	100	0.96	U	0.96	U	0.96	U	0.96	U
(48)	Iodomethane	NE	10	0.32	U	0.32	U	0.32	U	0.32	U
(49)	4-Methyl-2-pentanone (MIBK)	NE	100	0.33	U	0.33	U	0.33	U	0.33	U
(50)	Styrene	100	1	0.26	U	0.26	U	0.26	U	0.26	U
(51)	1,1,1,2-Tetrachloroethane	NE	5	0.33	U	0.33	U	0.33	U	0.33	U
(52)	1,1,2,2-Tetrachloroethane	0.17 (1)	3	0.4	U	0.4	U	0.4	U	0.4	U
(53)	Tetrachloroethene	0.7	1	0.46	U	0.46	U	0.46	U	0.46	U
(54)	Toluene	1000	1	0.26	U	1.1		0.80	J	0.26	U
(55)	1,1,1-Trichloroethane	200	1	0.48	U	0.48	U	0.48	U	0.48	U
(56)	1,1,2-Trichloroethane	NE	1	0.29	U	0.29	U	0.29	U	0.29	U
(57)	Trichloroethene	2.8	1	0.47	U	0.47	U	0.47	U	0.47	U
(58)	Trichlorofluoromethane	2100	1	0.2	U	0.2	U	0.2	U	0.2	U
(59)	1,2,3-Trichloropropane	0.005	1	0.41	U	0.41	U	0.41	U	0.41	U
(60)	Vinyl acetate	NE	50	0.35	U	0.35	U	0.35	U	0.35	U
(61)	Vinyl chloride	0.015	1	0.62	U	0.62	U	0.62	U	0.62	U
(62)	m,p,o-Xylenes	1050	5	0.89	U	1.91	J	2.1	J	0.89	U

Notes:
15A NCAC 2L = 15A NCAC 2L .0200, Groundwater Quality Standards for Class GA groundwater
(1) Interim Maximum Allowable Concentration
BOLD VALUES indicate a values that attain or exceed the 15A NCAC 2L MCL.
ND = Not detected by Lab at or above adjusted reporting limit.
J = Parameters are estimated values greater than Method Detection Limit (MDL) but less than the SWSL
U = Indicates compound was analyzed for, but not detected above the Laboratory Reporting Limit

NC SWSL = North Carolina Solid Waste Section Limit
NE = Not established
Values in gray cells indicate values that attain or exceed the SWSL.

Groundwater sampling at this site occurred prior to the 15 A NCAC 02L .0202 Groundwater Quality Standards revision date of January 1, 2010.
Therefore the analytical results were compared to the Groundwater Standards in effect at the time of sampling.

Analyses performed by Pace Analytical Asheville, NC Wastewater Certification #40 and
by Pace Analytical Huntersville, NC Wastewater Certification #12