December 29, 2010

Ms. Elizabeth Werner, Hydrogeologist
North Carolina Department of Environment and Natural Resources
Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

Reference: **2010 ANNUAL TCLP ANALYSIS RESULTS**
15A NCAC 13B .1700 Structural Fill
Duke Energy Allen Steam Station
Belmont, North Carolina
S&ME Project No. 1411-09-097

Dear Ms. Werner:

On behalf of Duke Energy (Duke), S&ME, Inc. submits the attached annual TCLP analysis results for fly ash placed in the .1700 Structural Fill located at the Allen Steam Station. The ash sample was collected on September 24, 2010.

If you have any questions regarding this request, please contact me at 828-687-9080.

Sincerely,

S&ME, Inc.

William M. Miller, PE
Senior Project Engineer

Attachment

S:\2009 PROJECTS\1411\ENVIRONMENTAL PROJECTS\11 09 097 Duke Energy Env Engineering\2010 TCLP Results for Structural Fills to DENR\Info to DENR\Allen TCLP 2010 to DENR.DOC

cc:

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

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

Duke Energy
PO Box 1006
Charlotte, NC 28201-1006
Attn: Chris Ussery, Mail Code EC10C

Duke Energy Allen Steam Station
253 Plant Allen Road
Belmont, NC 28012
Attn: Don Scruggs, Environmental Coordinator

Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: **J10100017**

Customer Name(s): Allen Stowe

Customer Address: 253 Plant Allen Rd.
Mail Code: ASS01
Belmont,NC 28012

Lab Contact: Jason C Perkins Phone: 704-875-5348

Report Authorized By: (Signature) Digitally signed by JCP7132 (111773) DN: dc=com, dc=duke-energy, dc=ent, dc=nam, ou=Accounts, ou=Personal, ou=PhTransitional, cn=JCP7132 (111773) Date: 2010.10.20 15:39:27 -04'00' **Date:** 10/20/2010

Program Comments:

Monthly Allen DORS Project. In addition to total metals the COC requested TCLP and SPLP.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with an "X" or "1" indicate a deviation from the method quality system or quality control requirement. All results are reported on a dry weight basis unless otherwise noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2010008775	ALLEN	24-Sep-10 1:15 PM	illegible	DORS Monthly Allen Fly Ash

1 Total Samples

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).	☑ Yes	☐ No
All Results are less than the laboratory reporting limits.	☐ Yes	☑ No
All laboratory QA/QC requirements are acceptable.	☑ Yes	☐ No
The Vendor Laboratories have been qualified by the Analytical Laboratory	Yes	

Report Sections Included:

- ☑ Job Summary Report
- ☑ Sample Identification
- ☑ Technical Validation of Data Package
- ☑ Analytical Laboratory Certificate of Analysis
- ☐ Analytical Laboratory QC Report
- ☑ Sub-contracted Laboratory Results
- ☐ Customer Specific Data Sheets, Reports, & Documentation
- ☐ Customer Database Entries
- ☐ Test Case Narratives
- ☑ Chain of Custody
- ☐ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: Jenny A Herman Date: 10/13/2010

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J10100017

Site: DORS Monthly Allen Fly Ash
Collection Date: 24-Sep-10 1:15 PM

Sample #: **2010008775**
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
PERCENT SOLIDS							
Vendor Parameter	Complete				V_T. America		
MERCURY (COLD VAPOR) IN SOLIDS							
Vendor Parameter	Complete				V_T. America		
METALS ANALYSIS BY VENDOR LAB							
Vendor Parameter	Complete				V_T. America		
PH IN SOLIDS							
Vendor Parameter	Complete				V_T. America		
SPLP LEACHATE							
Vendor Parameter	Complete				V_T. America		
TCLP LEACHATE							
Vendor Parameter	Complete				V_T. America		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

October 15, 2010 11:57:27AM

Client: Duke Energy (6688)
13339 Hagers Ferry Road
Huntersville, NC 28078
Attn: Duke Power Company

Work Order: NTJ0520
Project Name: Allen
Project Nbr: J10100017
P/O Nbr: ISW01.1934
Date Received: 10/05/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
2010008775 Allen Fly Ash	NTJ0520-01	09/24/10 13:15
2010008775 Allen Fly Ash	NTJ0520-02	09/24/10 13:15

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

Additional Laboratory Comments:

CASE NARRATIVE

Report revised 10/15/10 to change the sample name at the request of the client. This final report supercedes the final report created on 10/11/10 15:36.

The following report contains the analytical results for one fly ash sample submitted to TestAmerica Nashville by Duke Energy Corporate Laboratory from the project Allen , project number J10100017 . The sample was subjected to the ASTM Leaching procedure, from which sample NTJ0520-02 (a water) was created and used for the analysis of chloride, fluoride, phosphorous, sulfate, and nitrate.
The sample was received 10/5/2010 8:00:00 AM , according to documented sample acceptance procedures and were analyzed in accordance with EPA protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory:

TestAmerica utilizes USEPA approved methods in all analytical work. A summary of QC data for all analyses is included at the back of the report.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by "dry" in the result units of measurement.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method reporting limit and include appropriate qualifiers.

If you have any questions, please call the Project Manager, Lisa Headley, at (615) 301-5031.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 14.0 degrees C. See TestAmerica's Cooler Receipt Form at the end of this report for additional information.
For all analyses, sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants. Refer to the sample report pages for the affected analytes(s).

When the client requests results reported to the method detection limit (MDL), samples that contain results between the MDL and the RL are flagged with "J". These are estimated values.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples.

North Carolina Certification Number: 387

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Lisa M. Headley

Lisa Headley

Senior Project Manager

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTJ0520-01 (2010008775 Allen Fly Ash - Soil) Sampled: 09/24/10 13:15								
General Chemistry Parameters								
% Dry Solids	**80.0**		%	0.500	1	10/07/10 08:41	SW-846	10J0822
pH	**7.20**	HT1	pH Units	0.100	1	10/06/10 14:35	SW846 9045D	10J0968
Phosphorus	**304**		mg/kg dry	12.5	1	10/09/10 12:04	EPA 365.4 M	10J1591
Temperature of pH determination	**22.1**	HT1	Deg C	NA	1	10/06/10 14:35	EPA 170.1	10J0968
Total Metals by EPA 6010C								
Antimony	ND		mg/kg	9.82	1	10/06/10 19:04	SW846 6010C	10J0807
Arsenic	**55.6**		mg/kg	0.982	1	10/06/10 19:04	SW846 6010C	10J0807
Barium	**255**		mg/kg	1.96	1	10/06/10 19:04	SW846 6010C	10J0807
Boron	**47.1**		mg/kg	9.82	1	10/06/10 19:04	SW846 6010C	10J0807
Cadmium	ND		mg/kg	0.982	1	10/06/10 19:04	SW846 6010C	10J0807
Calcium	**2940**		mg/kg	9.82	1	10/06/10 19:04	SW846 6010C	10J0807
Chromium	**19.0**		mg/kg	0.982	1	10/06/10 19:04	SW846 6010C	10J0807
Copper	**31.5**		mg/kg	1.96	1	10/06/10 19:04	SW846 6010C	10J0807
Lead	**13.1**		mg/kg	0.982	1	10/06/10 19:04	SW846 6010C	10J0807
Magnesium	**688**		mg/kg	9.82	1	10/07/10 09:12	SW846 6010C	10J0807
Manganese	**38.4**		mg/kg	0.982	1	10/06/10 19:04	SW846 6010C	10J0807
Molybdenum	**7.88**		mg/kg	2.95	1	10/06/10 19:04	SW846 6010C	10J0807
Nickel	**25.8**		mg/kg	0.982	1	10/06/10 19:04	SW846 6010C	10J0807
Potassium	**1680**		mg/kg	98.2	1	10/06/10 19:04	SW846 6010C	10J0807
Selenium	**17.7**		mg/kg	1.96	1	10/06/10 19:04	SW846 6010C	10J0807
Silver	ND		mg/kg	0.982	1	10/06/10 19:04	SW846 6010C	10J0807
Sodium	**242**		mg/kg	196	1	10/06/10 19:04	SW846 6010C	10J0807
Zinc	**23.6**		mg/kg	9.82	1	10/06/10 19:04	SW846 6010C	10J0807
Mercury by EPA Method 7471B								
Mercury	**0.39**		ug/g dry	0.13	1	10/07/10 10:03	SW846 7471B	10J1068
TCLP Metals by 6000/7000 Series Methods								
Chromium	ND		mg/L	0.0500	1	10/07/10 13:46	SW846 1311/6010B	10J1093
Mercury	ND		mg/L	0.0100	1	10/07/10 12:39	SW846 1311/7470A	10J1087
Arsenic	ND		mg/L	0.100	1	10/07/10 13:46	SW846 1311/6010B	10J1093
Barium	**0.266**		mg/L	0.100	1	10/07/10 13:46	SW846 1311/6010B	10J1093
Cadmium	ND		mg/L	0.0100	1	10/07/10 13:46	SW846 1311/6010B	10J1093
Lead	ND		mg/L	0.0500	1	10/07/10 13:46	SW846 1311/6010B	10J1093
Selenium	**0.206**		mg/L	0.100	1	10/07/10 13:46	SW846 1311/6010B	10J1093
Silver	ND		mg/L	0.0500	1	10/07/10 13:46	SW846 1311/6010B	10J1093
SPLP Metals by 6000/7000 Series Methods								
Manganese	ND		mg/L	0.150	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Antimony	**0.0176**		mg/L	0.0100	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Arsenic	**0.0608**		mg/L	0.0100	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Barium	**0.130**		mg/L	0.0100	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Boron	**1.23**		mg/L	0.500	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Cadmium	ND		mg/L	0.00100	1	10/07/10 18:07	SW846 1312/6010C	10J1116

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Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTJ0520-01 (2010008775 Allen Fly Ash - Soil) - cont. Sampled: 09/24/10 13:15								
SPLP Metals by 6000/7000 Series Methods - cont.								
Calcium	**68.5**		mg/L	1.00	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Chromium	ND		mg/L	0.00500	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Copper	ND		mg/L	0.0100	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Iron	ND		mg/L	0.0500	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Lead	ND		mg/L	0.00500	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Magnesium	**3.34**		mg/L	1.00	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Mercury	ND		mg/L	0.00100	1	10/07/10 12:50	SW846 1312/7470	10J1095
Nickel	ND		mg/L	0.0100	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Potassium	**10.5**		mg/L	1.00	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Selenium	**0.230**		mg/L	0.0100	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Silver	ND		mg/L	0.00500	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Zinc	ND		mg/L	0.0500	1	10/07/10 18:07	SW846 1312/6010C	10J1116
Sample ID: NTJ0520-02 (2010008775 Allen Fly Ash - Water) Sampled: 09/24/10 13:15								
General Chemistry Parameters								
Chloride	ND		mg/L	1.00	1	10/07/10 10:54	SM4500-Cl E	10J1198
Fluoride	**0.710**		mg/L	0.100	1	10/11/10 12:10	SW846 9214	10J1975
Phosphorus	ND		mg/L	0.100	1	10/09/10 11:58	EPA 365.4	10J1593
Sulfate	**179**		mg/L	10.0	10	10/08/10 13:53	ASTM D516-90	10J1058
Nitrate as N	ND	HT3	mg/L	0.100	1	10/07/10 18:11	SM 4500-NO3 F	10J1295

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Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
ASTM Water Leach							
ASTM D3987	10J0873	NTJ0520-01	70.00	1400.00	10/06/10 14:00	SJM	EPA 1311
Mercury by EPA Method 7471B							
SW846 7471B	10J1068	NTJ0520-01	0.60	100.00	10/07/10 08:52	MB	EPA 7471
SPLP Extraction by EPA 1312							
SW846 1312	10J0803	NTJ0520-01	100.00	2000.00	10/06/10 14:00	SJM	EPA 1311
SPLP Metals by 6000/7000 Series Methods							
SW846 1312	10J0803	NTJ0520-01	100.00	2000.00	10/06/10 14:00	SJM	EPA 1311
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/6010C	10J1116	NTJ0520-01	50.00	50.00	10/07/10 09:25	ALJ	EPA 3010A / 6010
SW846 1312/7470	10J1095	NTJ0520-01	30.00	30.00	10/07/10 11:22	MB	EPA 7470
TCLP Extraction by EPA 1311							
SW846 1311	10J0876	NTJ0520-01	100.00	2000.00	10/06/10 14:00	SJM	EPA 1311
TCLP Metals by 6000/7000 Series Methods							
SW846 1311/6010	10J0876	NTJ0520-01	100.00	2000.00	10/06/10 14:00	SJM	EPA 1311
SW846 1311/6010B	10J1093	NTJ0520-01	5.00	50.00	10/07/10 08:46	DEB	EPA 3015A
SW846 1311/6010B	10J1093	NTJ0520-01	5.00	50.00	10/07/10 08:46	DEB	EPA 3015A
SW846 1311/6010B	10J1093	NTJ0520-01	5.00	50.00	10/07/10 08:46	DEB	EPA 3015A
SW846 1311/6010B	10J1093	NTJ0520-01	5.00	50.00	10/07/10 08:46	DEB	EPA 3015A
SW846 1311/6010B	10J1093	NTJ0520-01	5.00	50.00	10/07/10 08:46	DEB	EPA 3015A
SW846 1311/6010B	10J1093	NTJ0520-01	5.00	50.00	10/07/10 08:46	DEB	EPA 3015A
SW846 1311/6010B	10J1093	NTJ0520-01	5.00	50.00	10/07/10 08:46	DEB	EPA 3015A
SW846 1311/7470A	10J1087	NTJ0520-01	3.00	30.00	10/07/10 11:22	SRH	EPA 7470
Total Metals by EPA 6010C							
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010

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Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010
SW846 6010C	10J0807	NTJ0520-01	0.51	100.00	10/06/10 07:24	DEB	EPA 3051A/6010

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
General Chemistry Parameters						
10J1058-BLK1						
Sulfate	0.900		mg/L	10J1058	10J1058-BLK1	10/08/10 13:53
10J1198-BLK1						
Chloride	<0.400		mg/L	10J1198	10J1198-BLK1	10/07/10 10:54
10J1295-BLK1						
Nitrate as N	<0.0140		mg/L	10J1295	10J1295-BLK1	10/07/10 18:08
10J1591-BLK1						
Phosphorus	6.39		mg/kg wet	10J1591	10J1591-BLK1	10/09/10 12:00
10J1593-BLK1						
Phosphorus	0.0663		mg/L	10J1593	10J1593-BLK1	10/09/10 11:40
10J1975-BLK1						
Fluoride	<0.0300		mg/L	10J1975	10J1975-BLK1	10/11/10 12:10
Total Metals by EPA 6010C						
10J0807-BLK1						
Antimony	<0.787		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Arsenic	<0.689		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Barium	<0.689		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Boron	<1.18		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Cadmium	<0.197		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Calcium	8.86		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Chromium	<0.492		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Copper	<0.492		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Lead	<0.591		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Magnesium	4.02		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Manganese	<0.492		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Molybdenum	<0.295		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Nickel	<0.689		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Potassium	<50.2		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Selenium	<0.689		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Silver	<0.492		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Sodium	<160		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Zinc	<0.787		mg/kg	10J0807	10J0807-BLK1	10/06/10 17:40
Mercury by EPA Method 7471B						
10J1068-BLK1						
Mercury	<0.0075		ug/g wet	10J1068	10J1068-BLK1	10/07/10 09:52

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Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
TCLP Metals by 6000/7000 Series Methods						
10J1087-BLK1						
Mercury	<0.00100		mg/L	10J1087	10J1087-BLK1	10/07/10 12:10
10J1093-BLK1						
Chromium	<0.0260		mg/L	10J1093	10J1093-BLK1	10/07/10 12:59
Arsenic	<0.0370		mg/L	10J1093	10J1093-BLK1	10/07/10 12:59
Barium	<0.0600		mg/L	10J1093	10J1093-BLK1	10/07/10 12:59
Cadmium	<0.00600		mg/L	10J1093	10J1093-BLK1	10/07/10 12:59
Lead	<0.0290		mg/L	10J1093	10J1093-BLK1	10/07/10 12:59
Selenium	<0.0390		mg/L	10J1093	10J1093-BLK1	10/07/10 12:59
Silver	<0.0280		mg/L	10J1093	10J1093-BLK1	10/07/10 12:59
SPLP Metals by 6000/7000 Series Methods						
10J1095-BLK1						
Mercury	<0.000100		mg/L	10J1095	10J1095-BLK1	10/07/10 12:44
10J1116-BLK1						
Manganese	<0.00100		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Antimony	<0.00590		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Arsenic	<0.00370		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Barium	<0.00600		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Boron	<0.0500		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Cadmium	<0.000600		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Calcium	<0.320		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Chromium	<0.00260		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Copper	<0.00300		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Iron	<0.0490		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Lead	<0.00290		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Magnesium	<0.0660		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Nickel	<0.00230		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Potassium	<0.150		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Selenium	<0.00390		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Silver	<0.00280		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58
Zinc	<0.00780		mg/L	10J1116	10J1116-BLK1	10/07/10 17:58

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Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
10J0822-DUP1										
% Dry Solids	82.4	83.7		%	2	20	10J0822	NTJ0482-06		10/07/10 08:41
10J0968-DUP1										
pH	7.20	7.20		pH Units	0	10	10J0968	NTJ0520-01		10/06/10 14:35
Temperature of pH determination	22.1	22.1		Deg C	0	200	10J0968	NTJ0520-01		10/06/10 14:35
10J1058-DUP1										
Sulfate	4.23	4.24		mg/L	0.2	10	10J1058	NTJ0610-08		10/08/10 13:53
10J1198-DUP1										
Chloride	0.856	0.846		mg/L	1	20	10J1198	NTJ0525-02		10/07/10 10:54
10J1295-DUP1										
Nitrate as N	0.0260	0.0190	R4	mg/L	31	20	10J1295	NTJ0504-02		10/07/10 18:14
10J1591-DUP1										
Phosphorus	496	478		mg/kg dry	4	43	10J1591	NTJ0525-01RE1		10/09/10 12:09
10J1593-DUP1										
Phosphorus	11.2	10.8		mg/L	4	20	10J1593	NTI2890-02RE1		10/09/10 12:11
10J1975-DUP1										
Fluoride	0.180	0.200	R2	mg/L	11	10	10J1975	NTJ0525-02		10/11/10 12:10

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Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
General Chemistry Parameters								
10J0968-BS1								
pH	7.00	6.99		pH Units	100%	95 - 105	10J0968	10/06/10 14:35
10J1058-BS1								
Sulfate	10.0	9.88		mg/L	99%	90 - 110	10J1058	10/08/10 13:53
10J1198-BS1								
Chloride	10.0	10.1		mg/L	101%	90 - 110	10J1198	10/07/10 10:54
10J1295-BS1								
Nitrate as N	6.00	5.60		mg/L	93%	90 - 110	10J1295	10/07/10 18:07
10J1591-BS1								
Phosphorus	200	199		mg/kg wet	100%	85 - 115	10J1591	10/09/10 12:01
10J1593-BS1								
Phosphorus	2.00	1.91		mg/L	96%	90 - 110	10J1593	10/09/10 11:41
10J1975-BS1								
Fluoride	1.00	1.02		mg/L	102%	90 - 110	10J1975	10/11/10 12:10
Total Metals by EPA 6010C								
10J0807-BS1								
Antimony	39.6	41.1		mg/kg	104%	80 - 120	10J0807	10/06/10 17:43
Arsenic	19.8	18.7		mg/kg	94%	80 - 120	10J0807	10/06/10 17:43
Barium	792	836		mg/kg	106%	80 - 120	10J0807	10/06/10 17:43
Boron	396	416		mg/kg	105%	80 - 120	10J0807	10/06/10 17:43
Cadmium	19.8	19.2		mg/kg	97%	80 - 120	10J0807	10/06/10 17:43
Calcium	1980	1930		mg/kg	97%	80 - 120	10J0807	10/06/10 17:43
Chromium	79.2	80.0		mg/kg	101%	80 - 120	10J0807	10/06/10 17:43
Copper	99.0	101		mg/kg	102%	80 - 120	10J0807	10/06/10 17:43
Lead	19.8	18.9		mg/kg	96%	80 - 120	10J0807	10/06/10 17:43
Magnesium	1980	2110		mg/kg	106%	80 - 120	10J0807	10/06/10 17:43
Manganese	198	192		mg/kg	97%	80 - 120	10J0807	10/06/10 17:43
Molybdenum	198	212		mg/kg	107%	80 - 120	10J0807	10/06/10 17:43
Nickel	198	208		mg/kg	105%	80 - 120	10J0807	10/06/10 17:43
Potassium	1980	1960		mg/kg	99%	80 - 120	10J0807	10/06/10 17:43
Selenium	19.8	20.4		mg/kg	103%	80 - 120	10J0807	10/06/10 17:43
Silver	19.8	19.1		mg/kg	97%	75 - 125	10J0807	10/06/10 17:43
Sodium	1980	1960		mg/kg	99%	80 - 120	10J0807	10/06/10 17:43
Zinc	198	202		mg/kg	102%	80 - 120	10J0807	10/06/10 17:43

Mercury by EPA Method 7471B

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Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Mercury by EPA Method 7471B								
10J1068-BS1								
Mercury	0.162	0.16		ug/g wet	97%	80 - 120	10J1068	10/07/10 09:54
TCLP Metals by 6000/7000 Series Methods								
10J1087-BS1								
Mercury	0.0200	0.0195		mg/L	98%	80 - 120	10J1087	10/07/10 12:15
10J1093-BS1								
Chromium	10.0	10.8		mg/L	108%	80 - 120	10J1093	10/07/10 13:06
Arsenic	2.00	2.24		mg/L	112%	80 - 120	10J1093	10/07/10 13:06
Barium	20.0	22.6		mg/L	113%	80 - 120	10J1093	10/07/10 13:06
Cadmium	2.00	2.18		mg/L	109%	80 - 120	10J1093	10/07/10 13:06
Lead	10.0	10.7		mg/L	107%	80 - 120	10J1093	10/07/10 13:06
Selenium	2.00	2.22		mg/L	111%	80 - 120	10J1093	10/07/10 13:06
Silver	2.00	2.05		mg/L	102%	80 - 120	10J1093	10/07/10 13:06
SPLP Metals by 6000/7000 Series Methods								
10J1095-BS1								
Mercury	0.00100	0.00106		mg/L	106%	80 - 120	10J1095	10/07/10 12:48
10J1116-BS1								
Manganese	0.500	0.509		mg/L	102%	80 - 120	10J1116	10/07/10 18:04
Antimony	0.100	0.107		mg/L	107%	80 - 120	10J1116	10/07/10 18:04
Arsenic	0.0500	0.0510		mg/L	102%	80 - 120	10J1116	10/07/10 18:04
Barium	2.00	2.00		mg/L	100%	80 - 120	10J1116	10/07/10 18:04
Boron	1.00	0.998		mg/L	100%	80 - 200	10J1116	10/07/10 18:04
Cadmium	0.0500	0.0484		mg/L	97%	80 - 120	10J1116	10/07/10 18:04
Calcium	5.00	4.84		mg/L	97%	80 - 120	10J1116	10/07/10 18:04
Chromium	0.200	0.200		mg/L	100%	80 - 120	10J1116	10/07/10 18:04
Copper	0.250	0.252		mg/L	101%	80 - 120	10J1116	10/07/10 18:04
Iron	1.00	1.05		mg/L	105%	80 - 120	10J1116	10/07/10 18:04
Lead	0.0500	0.0476		mg/L	95%	80 - 120	10J1116	10/07/10 18:04
Magnesium	5.00	4.90		mg/L	98%	80 - 120	10J1116	10/07/10 18:04
Nickel	0.500	0.516		mg/L	103%	80 - 120	10J1116	10/07/10 18:04
Potassium	5.00	4.84		mg/L	97%	80 - 120	10J1116	10/07/10 18:04
Selenium	0.0500	0.0532		mg/L	106%	80 - 120	10J1116	10/07/10 18:04
Silver	0.0500	0.0541		mg/L	108%	80 - 120	10J1116	10/07/10 18:04
Zinc	0.500	0.513		mg/L	103%	80 - 120	10J1116	10/07/10 18:04

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Client	Duke Energy (6688) 13339 Hagers Ferry Road Huntersville, NC 28078	Work Order:	NTJ0520
		Project Name:	Allen
		Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters												
10J0968-BSD1												
pH		7.03		pH Units	7.00	100%	95 - 105	0.6	10	10J0968		10/06/10 14:35
10J1593-BSD1												
Phosphorus		1.85		mg/L	2.00	92%	90 - 110	3	20	10J1593		10/09/10 11:42
10J1975-BSD1												
Fluoride		1.02		mg/L	1.00	102%	90 - 110	0	10	10J1975		10/11/10 12:10
Mercury by EPA Method 7471B												
10J1068-BSD1												
Mercury		0.16		ug/g wet	0.165	96%	80 - 120	1	20	10J1068		10/07/10 09:56

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Client	Duke Energy (6688) 13339 Hagers Ferry Road Huntersville, NC 28078	Work Order:	NTJ0520
		Project Name:	Allen
		Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
General Chemistry Parameters										
10J1058-MS1										
Sulfate	4.27	14.6		mg/L	10.0	104%	80 - 120	10J1058	NTJ0610-02	10/08/10 13:53
10J1198-MS1										
Chloride	170	180		mg/L	10.0	102%	76 - 126	10J1198	NTJ0615-01	10/07/10 10:54
10J1295-MS1										
Nitrate as N	ND	5.92		mg/L	6.00	99%	90 - 110	10J1295	NTJ0525-02	10/07/10 18:10
10J1591-MS1										
Phosphorus	304	497		mg/kg dry	250	77%	66 - 143	10J1591	NTJ0520-01RE1	10/09/10 12:05
10J1593-MS1										
Phosphorus	1.81	3.78		mg/L	2.00	98%	66 - 121	10J1593	NTI3086-03RE1	10/09/10 11:47
10J1975-MS1										
Fluoride	0.710	1.67		mg/L	1.00	96%	75 - 125	10J1975	NTJ0520-02	10/11/10 12:10
Total Metals by EPA 6010C										
10J0807-MS1										
Antimony	ND	36.8		mg/kg	38.9	95%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Arsenic	4.19	22.0		mg/kg	19.5	92%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Barium	120	915		mg/kg	778	102%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Boron	7.85	398		mg/kg	389	100%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Cadmium	ND	16.2		mg/kg	19.5	83%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Calcium	2510	4640		mg/kg	1950	110%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Chromium	15.2	94.3		mg/kg	77.8	102%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Copper	7.04	98.6		mg/kg	97.3	94%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Lead	19.9	38.5		mg/kg	19.5	96%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Magnesium	2360	4420		mg/kg	1950	106%	75 - 125	10J0807	NTJ0482-06	10/07/10 09:06
Manganese	77.1	274		mg/kg	195	101%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Molybdenum	ND	190		mg/kg	195	98%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Nickel	13.5	224		mg/kg	195	108%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Potassium	2060	5040	M7	mg/kg	1950	153%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Selenium	1.13	20.2		mg/kg	19.5	98%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Silver	ND	18.0		mg/kg	19.5	92%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Sodium	ND	1920		mg/kg	1950	99%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25
Zinc	35.2	227		mg/kg	195	99%	75 - 125	10J0807	NTJ0482-06	10/06/10 18:25

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Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Mercury by EPA Method 7471B										
10J1068-MS1										
Mercury	0.00019	0.21		ug/g dry	0.200	104%	80 - 120	10J1068	NTJ0544-01	10/07/10 10:11
TCLP Metals by 6000/7000 Series Methods										
10J1087-MS1										
Mercury	ND	0.0194		mg/L	0.0200	97%	75 - 125	10J1087	NTJ0453-01	10/07/10 12:20
10J1093-MS1										
Chromium	ND	10.3		mg/L	10.0	103%	75 - 125	10J1093	NTJ0452-01	10/07/10 13:12
Arsenic	ND	2.24		mg/L	2.00	112%	75 - 125	10J1093	NTJ0452-01	10/07/10 13:12
Barium	0.308	21.2		mg/L	20.0	104%	75 - 125	10J1093	NTJ0452-01	10/07/10 13:12
Cadmium	0.320	2.38		mg/L	2.00	103%	75 - 125	10J1093	NTJ0452-01	10/07/10 13:12
Lead	1.69	12.0		mg/L	10.0	103%	75 - 125	10J1093	NTJ0452-01	10/07/10 13:12
Selenium	ND	2.21		mg/L	2.00	111%	75 - 125	10J1093	NTJ0452-01	10/07/10 13:12
Silver	ND	1.98		mg/L	2.00	99%	75 - 125	10J1093	NTJ0452-01	10/07/10 13:12
SPLP Metals by 6000/7000 Series Methods										
10J1095-MS1										
Mercury	ND	0.00105		mg/L	0.00100	105%	75 - 125	10J1095	NTJ0520-01	10/07/10 12:54
10J1116-MS1										
Manganese	0.0163	0.554		mg/L	0.500	108%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Antimony	0.0176	0.130		mg/L	0.100	112%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Arsenic	0.0608	0.117		mg/L	0.0500	112%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Barium	0.130	2.27		mg/L	2.00	107%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Boron	1.23	2.29		mg/L	1.00	106%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Cadmium	ND	0.0517		mg/L	0.0500	103%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Calcium	68.5	74.0	MHA	mg/L	5.00	109%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Chromium	ND	0.213		mg/L	0.200	107%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Copper	ND	0.269		mg/L	0.250	108%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Iron	ND	1.11		mg/L	1.00	111%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Lead	ND	0.0521		mg/L	0.0500	104%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Magnesium	3.34	8.51		mg/L	5.00	103%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Nickel	0.00610	0.563		mg/L	0.500	111%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Potassium	10.5	15.6		mg/L	5.00	101%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Selenium	0.230	0.286		mg/L	0.0500	112%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Silver	ND	0.0567		mg/L	0.0500	113%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21
Zinc	ND	0.557		mg/L	0.500	111%	75 - 125	10J1116	NTJ0520-01	10/07/10 18:21

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Duke Energy (6688) 13339 Hagers Ferry Road Huntersville, NC 28078	Work Order:	NTJ0520
		Project Name:	Allen
		Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters												
10J1058-MSD1												
Sulfate	4.27	14.7		mg/L	10.0	104%	80 - 120	0.07	10	10J1058	NTJ0610-02	10/08/10 13:53
10J1198-MSD1												
Chloride	170	178		mg/L	10.0	81%	76 - 126	1	20	10J1198	NTJ0615-01	10/07/10 10:54
10J1295-MSD1												
Nitrate as N	ND	5.92		mg/L	6.00	99%	90 - 110	0.1	20	10J1295	NTJ0525-02	10/07/10 18:10
10J1591-MSD1												
Phosphorus	304	480		mg/kg dry	250	70%	66 - 143	4	43	10J1591	NTJ0520-01RE1	10/09/10 12:06
10J1593-MSD1												
Phosphorus	1.81	3.38		mg/L	2.00	79%	66 - 121	11	20	10J1593	NTI3086-03RE1	10/09/10 11:48
10J1975-MSD1												
Fluoride	0.710	1.67		mg/L	1.00	96%	75 - 125	0	10	10J1975	NTJ0520-02	10/11/10 12:10
Total Metals by EPA 6010C												
10J0807-MSD1												
Antimony	ND	38.0		mg/kg	39.8	96%	75 - 125	3	20	10J0807	NTJ0482-06	10/06/10 18:28
Arsenic	4.19	22.1		mg/kg	19.9	90%	75 - 125	0.3	20	10J0807	NTJ0482-06	10/06/10 18:28
Barium	120	927		mg/kg	795	101%	75 - 125	1	20	10J0807	NTJ0482-06	10/06/10 18:28
Boron	7.85	407		mg/kg	398	100%	75 - 125	2	20	10J0807	NTJ0482-06	10/06/10 18:28
Cadmium	ND	16.6		mg/kg	19.9	84%	75 - 125	2	20	10J0807	NTJ0482-06	10/06/10 18:28
Calcium	2510	4680		mg/kg	1990	109%	75 - 125	0.7	20	10J0807	NTJ0482-06	10/06/10 18:28
Chromium	15.2	95.2		mg/kg	79.5	101%	75 - 125	0.9	20	10J0807	NTJ0482-06	10/06/10 18:28
Copper	7.04	100		mg/kg	99.4	94%	75 - 125	2	20	10J0807	NTJ0482-06	10/06/10 18:28
Lead	19.9	37.0		mg/kg	19.9	86%	75 - 125	4	20	10J0807	NTJ0482-06	10/06/10 18:28
Magnesium	2360	4480		mg/kg	1990	107%	75 - 125	2	20	10J0807	NTJ0482-06	10/07/10 09:09
Manganese	77.1	276		mg/kg	199	100%	75 - 125	0.9	20	10J0807	NTJ0482-06	10/06/10 18:28
Molybdenum	ND	197		mg/kg	199	99%	75 - 125	3	20	10J0807	NTJ0482-06	10/06/10 18:28
Nickel	13.5	230		mg/kg	199	109%	75 - 125	3	20	10J0807	NTJ0482-06	10/06/10 18:28
Potassium	2060	4670	M7	mg/kg	1990	132%	75 - 125	8	20	10J0807	NTJ0482-06	10/06/10 18:28
Selenium	1.13	20.5		mg/kg	19.9	98%	75 - 125	2	20	10J0807	NTJ0482-06	10/06/10 18:28
Silver	ND	18.3		mg/kg	19.9	92%	75 - 125	2	20	10J0807	NTJ0482-06	10/06/10 18:28
Sodium	ND	1940		mg/kg	1990	97%	75 - 125	1	20	10J0807	NTJ0482-06	10/06/10 18:28
Zinc	35.2	232		mg/kg	199	99%	75 - 125	2	20	10J0807	NTJ0482-06	10/06/10 18:28
Mercury by EPA Method 7471B												
10J1068-MSD1												
Mercury	0.00019	0.19		ug/g dry	0.201	95%	80 - 120	9	20	10J1068	NTJ0544-01	10/07/10 10:13

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Mercury by EPA Method 7471B												
TCLP Metals by 6000/7000 Series Methods												
10J1087-MSD1												
Mercury	ND	0.0202		mg/L	0.0200	101%	75 - 125	4	20	10J1087	NTJ0453-01	10/07/10 12:22
10J1093-MSD1												
Chromium	ND	11.2		mg/L	10.0	112%	75 - 125	8	20	10J1093	NTJ0452-01	10/07/10 13:15
Arsenic	ND	2.44		mg/L	2.00	122%	75 - 125	9	20	10J1093	NTJ0452-01	10/07/10 13:15
Barium	0.308	22.8		mg/L	20.0	112%	75 - 125	7	20	10J1093	NTJ0452-01	10/07/10 13:15
Cadmium	0.320	2.54		mg/L	2.00	111%	75 - 125	6	20	10J1093	NTJ0452-01	10/07/10 13:15
Lead	1.69	12.7		mg/L	10.0	110%	75 - 125	6	20	10J1093	NTJ0452-01	10/07/10 13:15
Selenium	ND	2.42		mg/L	2.00	121%	75 - 125	9	20	10J1093	NTJ0452-01	10/07/10 13:15
Silver	ND	2.13		mg/L	2.00	107%	75 - 125	7	20	10J1093	NTJ0452-01	10/07/10 13:15
SPLP Metals by 6000/7000 Series Methods												
10J1095-MSD1												
Mercury	ND	0.00105		mg/L	0.00100	105%	75 - 125	0.8	20	10J1095	NTJ0520-01	10/07/10 13:02
10J1116-MSD1												
Manganese	0.0163	0.535		mg/L	0.500	104%	75 - 125	4	20	10J1116	NTJ0520-01	10/07/10 18:24
Antimony	0.0176	0.126		mg/L	0.100	109%	75 - 125	3	20	10J1116	NTJ0520-01	10/07/10 18:24
Arsenic	0.0608	0.112		mg/L	0.0500	102%	75 - 125	5	20	10J1116	NTJ0520-01	10/07/10 18:24
Barium	0.130	2.18		mg/L	2.00	102%	75 - 125	4	20	10J1116	NTJ0520-01	10/07/10 18:24
Boron	1.23	2.19		mg/L	1.00	96%	75 - 125	5	20	10J1116	NTJ0520-01	10/07/10 18:24
Cadmium	ND	0.0500		mg/L	0.0500	100%	75 - 125	3	20	10J1116	NTJ0520-01	10/07/10 18:24
Calcium	68.5	70.0	MHA	mg/L	5.00	29%	75 - 125	6	20	10J1116	NTJ0520-01	10/07/10 18:24
Chromium	ND	0.206		mg/L	0.200	103%	75 - 125	4	20	10J1116	NTJ0520-01	10/07/10 18:24
Copper	ND	0.259		mg/L	0.250	103%	75 - 125	4	20	10J1116	NTJ0520-01	10/07/10 18:24
Iron	ND	1.07		mg/L	1.00	107%	75 - 125	4	20	10J1116	NTJ0520-01	10/07/10 18:24
Lead	ND	0.0504		mg/L	0.0500	101%	75 - 125	3	20	10J1116	NTJ0520-01	10/07/10 18:24
Magnesium	3.34	8.12		mg/L	5.00	96%	75 - 125	5	20	10J1116	NTJ0520-01	10/07/10 18:24
Nickel	0.00610	0.545		mg/L	0.500	108%	75 - 125	3	20	10J1116	NTJ0520-01	10/07/10 18:24
Potassium	10.5	14.8		mg/L	5.00	86%	75 - 125	5	20	10J1116	NTJ0520-01	10/07/10 18:24
Selenium	0.230	0.275		mg/L	0.0500	89%	75 - 125	4	20	10J1116	NTJ0520-01	10/07/10 18:24
Silver	ND	0.0561		mg/L	0.0500	112%	75 - 125	1	20	10J1116	NTJ0520-01	10/07/10 18:24
Zinc	ND	0.539		mg/L	0.500	108%	75 - 125	3	20	10J1116	NTJ0520-01	10/07/10 18:24

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	North Carolina
ASTM D3987	Soil			
ASTM D516-90	Water	N/A	X	X
EPA 170.1	Soil			
EPA 365.4 M	Soil	N/A		
EPA 365.4	Water	N/A	X	X
SM 4500-NO3 F	Water		X	
SM4500-Cl E	Water		X	
SW846 1311/6010B	Soil	N/A	X	X
SW846 1311/6010	Soil			
SW846 1311/7470A	Soil	N/A	X	X
SW846 1311	Soil	N/A	X	X
SW846 1312/6010C	Soil		X	X
SW846 1312/7470	Soil	N/A	X	X
SW846 1312	Soil		X	X
SW846 6010C	Soil		X	X
SW846 7471B	Soil		X	X
SW846 9045D	Soil		X	X
SW846 9214	Water	N/A	X	X
SW-846	Soil			

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

TCLP REGULATORY LIMITS

Analyte	Regulatory Limit
Arsenic	5
Barium	100
Cadmium	1
Chromium	5
Lead	5
Mercury	0.2
Selenium	1
Silver	5

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Duke Energy (6688)	Work Order:	NTJ0520
	13339 Hagers Ferry Road	Project Name:	Allen
	Huntersville, NC 28078	Project Number:	J10100017
Attn	Duke Power Company	Received:	10/05/10 08:00

DATA QUALIFIERS AND DEFINITIONS

HT3	Sample received with insufficient holding time remaining for analysis to be performed within the method's holding time requirements.
HTI	The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

Phosphorus in soil 365.4 M - M = Modified for soil analysis

TestAmerica

Nashville, TN

COOLER RI

NTJ0520

Cooler Received/Opened On 10/5/2010 @ 0800

1. Tracking # 7337 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 14.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) JH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

Analytical Laboratory
Page 26 of 27

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

NTJ0520
10/14/10 23:59

Duke Energy
For Detailed Instructions, see http://dewww/essenv.cc/

Duke Power Analytical Laboratory Services
Mail Code MGO3A2 (Building 7405)
Hagers Ferry Rd
N. C. 28078
Fax: (704) 875-5038
13339 Huntersville, (704) 875-5245

Analytical Laboratory Use Only
LIMS # J10100017
Sample Class
Plant Ash Reuse DORS
Samples Originating From NC SC
Logged By
Date & Time 10-1-10 1015
Vendor Prism
Test America
PO# ISW01.1934
Cooler Temp (C)
15 Preserv.: 1=HCL 2=H_2SO_4 3=HNO_3 4=Ice 5=None
MR #

DISTRIBUTION
ORIGINAL to LAB
COPY to CLIENT

SAMPLE PROGRAM
Ground Water
NPDES
Drinking Water
UST
RCRA Waste

1)Project Name: Allen Steam Station DORS Permit (~~Annual~~) monthly		2)Phone No: 704-382-4761
3)Client: Bill McCabe/Allen Stowe		4)Fax No:
5)Business Unit: fopr	6)Process: Bypam	7)Resp. To:
8)Project ID:	9)Activity ID:	10)Mail Code: EC13K

Customer must complete

NON-SHADED

201000
LAB USE ONLY

11 Lab ID	12 Chem Desktop No.	13 Sample Description or ID	14 Collection Information Date	Time	Signature	17 Comp	18 Grab	Metals	Hg (V_Tamerica)	pH	Solids, %	TCLP (V_Tamerica)	SPLP (V_Tamerica)	19 Total # of Containers
8775		Allen Fly Ash	09/24	1315	E. [illegible]			X	X	X	X	X	X	NTJ0520-01/-02
		MARSHALL FLY ASH	9/24	11:50	"			X	X	X	X	X	X	
		= Ba, B, Ca, Cu, Pb, Mg, Mn, Mo, Sb, P, K, Na, Zn, Se, As, Cd, Cr, Ni, Ag												
		= As, Ba, Cd, Cr, Pb, Hg, Se, Ag												
		= Sb, As, Ba, B, Cd, Ca, Cl, Cr, Cu, F, Fe, Pb, Mg, Mn, Hg, Ni, NO_3, P, K, Se, Ag, SO_4, Zn												

SEND ALL TO T. AMERICA

V - TAMERICA

10-5-10

Customer to complete appropriate columns to right

Customer to sign & date below

21)Relinquished By: EMILY SIMON	Date/Time: 09/28/10 12:30	Accepted By: Troy Whisenant	Date/Time: 9/28/10 1230
Relinquished By: A. Moore	Date/Time: 10-4-10 13:00	Accepted By:	Date/Time:
Relinquished By:	Date/Time:	Accepted By:	Date/Time:
23)Seal/Locked By: A. Moore	Date/Time: 10-4-10 8:15	Sealed/Lock Opened By: [illegible]	Date/Time: 10-5-10 @ 0800
24)Comments:			

10 -8

Sat. del.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Duke Energy

For Detailed Instructions, see: http://dewww/essenv/coc/

Duke Power Analytical Laboratory Services
Mail Code MGO3A2 (Building 7405)
Hagers Ferry Rd
N. C. 28078
13339
Huntersville,
(704) 875-5245
Fax: (704) 875-5038

Analytical Laboratory Use Only

LIMS #	Sample Class	Plant	Samples Originating From
J10100017		Ash Reuse DORS	NC___ SC___

Logged By: [signature] Date & Time: 10-1-10 1015

Vendor: Prism

Test America
PO# ISW01.1934

SAMPLE PROGRAM: Ground Water ___ NPDES ___ Drinking Water ___ UST ___ RCRA Waste ___

Cooler Temp (C)

[15]Preserv.: 1=HCL 2=H_2SO_4 3=HNO_3 4=Ice 5=None

[19]Page ___ of ___
DISTRIBUTION
ORIGINAL to LAB.
COPY to CLIENT

1)Project Name: Allen Steam Station DORS Permit (~~Annual~~) monthly		2)Phone No: 704-382-4761
3)Client: Bill McCabe/Allen Stowe		4)Fax No:
5)Business Unit: fopr	6)Process: Bypam	7)Resp. To
8)Project ID:	9)Activity ID:	10)Mail Code: EC13K

MR #

NON-SHADED

Customer must Complete

201000

LAB USE ONLY

[11]Lab ID	[12]Chem Desktop No.	[13]Sample Description or ID	[14]Collection Information Date	Time	Signature	[17]Comp.	[18]Grab	Metals	Hg (V_Tamerica)	pH	Solids, %	TCLP (V_Tamerica)	SPLP (V_Tamerica)	[11]Total # of Containers
8775		Allen Fly Ash	09/24	1315	E. [signature]			X	X	X	X	X	X	
		MARSHALL FLY ASH	9/24	11:50	"			X	X	X	X	X	X	
					SEND ALL TO T. AMERICA									
		= Ba, B, Ca, Cu, Pb, Mg, Mn, Mo, Sb, P, K, Na, Zn, Se, As, Cd, Cr, Ni, Ag												
		= As, Ba, Cd, Cr, Pb, Hg, Se, Ag												
		= Sb, As, Ba, B, Cd, Ca, Cl, Cr, Cu, F, Fe, Pb, Mg, Mn, Hg, Ni, NO_3, P, K, Se, Ag, SO_4, Zn												

Customer to complete appropriate columns to right

Customer to sign & date below

21)Relinquished By: EMILY SIMON	Date/Time: 09/28/10 12:30	Accepted By: Troy Whisenant	Date/Time: 9/28/10 1230
Relinquished By	Date/Time	Accepted By	Date/Time
Relinquished By	Date/Time	Accepted By:	Date/Time
23)Seal/Locked By	Date/Time	Sealed/Lock Opened By	Date/Time
24)Comments			

10 - 8