



ENVIRONMENTAL
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Mt. Juliet, TN 37122
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Stanley Bramlett
TVA-Widows Creek Fossil Plant
2800 Steamplant Rd.

Stevenson, AL 35772

Report Summary

Wednesday January 28, 2009

Report Number: L385070

Samples Received: 01/24/09

Client Project: TVAWCF GYPSUM SPILL

Description: TVAWCF GYPSUM POND SPILL

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Roberto Celis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures: 060302, 060303, and 060304.

5 Samples Reported: 01/27/09 18:09 Revised: 01/28/09 08:49
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REPORT OF ANALYSIS

Mr. Stanley Bramlett
TVA-Widows Creek Fossil Plant
2800 Steamplant Rd.
Stevenson, AL 35772

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-141-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 11:52

ESC Sample # : L385070-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.39	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1414	RBS
Sulfate	14.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1414	RBS
Alkalinity	54.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NJM
COD	44.	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1714	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1559	LEM
pH	8.0		su	4500H-B	01/27/09 0748	183	01/27/09 0934	TWF
Nitrate-Nitrite	0.35	0.10	mg/l	353.2	01/26/09 0855	165	01/26/09 1254	LEM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	01/26/09 0428	78	01/26/09 0914	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0129	LEM
Kjeldahl Nitrogen, TKN	0.46	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0847	DTH
TOC (Total Organic Carbon)	1.9	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 1946	ADH
Dissolved Solids	96.	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1712	MF
Suspended Solids	4.2	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Arsenic	0.0017	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Chromium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Copper	0.0014	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Nickel	0.0016	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Selenium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Zinc	BDL	0.010	mg/l	200.8	01/25/09 1851	428	01/27/09 0129	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1544	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

Notes:

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L385070-01 (PH) - 8.0@12.4c



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REPORT OF ANALYSIS

Mr. Stanley Bramlett
TVA-Widows Creek Fossil Plant
2800 Steamplant Rd.
Stevenson, AL 35772

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-141-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 11:52

ESC Sample # : L385070-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.40	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1438	LAT
Barium	0.037	0.0050	mg/l	200.7	01/25/09 1656	428	01/26/09 1438	LAT
Calcium	19.	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1438	LAT
Iron	0.37	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1438	LAT
Magnesium	5.0	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1438	LAT
Manganese	0.043	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1438	LAT
Potassium	1.7	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1438	LAT
Sodium	7.4	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1438	LAT
Vanadium	0.012	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1438	LAT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
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January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-142-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 11:36

ESC Sample # : L385070-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.42	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1430	RBS
Sulfate	14.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1430	RBS
Alkalinity	52.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NUM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1714	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1600	LEM
pH	7.8		su	4500H-B	01/27/09 0748	183	01/27/09 0934	TWF
Nitrate-Nitrite	0.37	0.10	mg/l	353.2	01/26/09 0855	165	01/26/09 1255	LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	01/26/09 0428	78	01/26/09 0913	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0131	LEM
Kjeldahl Nitrogen, TKN	0.43	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0848	DTH
TOC (Total Organic Carbon)	1.9	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 1957	ADH
Dissolved Solids	94.	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1713	MF
Suspended Solids	4.4	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Arsenic	0.0011	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Chromium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Copper	0.0039	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Nickel	0.0017	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Selenium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Zinc	BDL	0.010	mg/l	200.8	01/25/09 1851	428	01/27/09 0148	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1547	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

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L385070-02 (PH) - 7.8@12.1c



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January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-142-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 11:36

ESC Sample # : L385070-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.28	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1441	LAT
Barium	0.026	0.0050	mg/l	200.7	01/25/09 1656	428	01/26/09 1441	LAT
Calcium	19.	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1441	LAT
Iron	0.25	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1441	LAT
Magnesium	4.9	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1441	LAT
Manganese	0.030	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1441	LAT
Potassium	1.5	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1441	LAT
Sodium	7.1	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1441	LAT
Vanadium	BDL	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1441	LAT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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KY - 90010, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
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L385070-02 (PH) - 7.8@12.1c



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2800 Steamplant Rd.
Stevenson, AL 35772

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-144-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 12:22

ESC Sample # : L385070-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.49	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1447	RBS
Sulfate	27.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1447	RBS
Alkalinity	60.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NJM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1714	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1601	LEM
pH	7.6		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.41	0.10	mg/l	353.2	01/26/09 0855	165	01/26/09 1257	LEM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	01/26/09 0428	78	01/26/09 0914	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0132	LEM
Kjeldahl Nitrogen, TKN	0.59	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0849	DTH
TOC (Total Organic Carbon)	1.6	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2009	ADH
Dissolved Solids	130	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1713	MF
Suspended Solids	14.	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Arsenic	0.0028	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Chromium	0.0021	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Copper	0.0012	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Nickel	0.0026	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Selenium	0.0038	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Zinc	0.018	0.010	mg/l	200.8	01/25/09 1851	428	01/27/09 0151	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1549	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L385070-03 (PH) - 7.6@13.8C



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January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-144-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 12:22

ESC Sample # : L385070-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.72	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1444	LAT
Barium	0.036	0.0050	mg/l	200.7	01/25/09 1656	428	01/26/09 1444	LAT
Calcium	29.	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1444	LAT
Iron	0.74	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1444	LAT
Magnesium	5.3	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1444	LAT
Manganese	0.064	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1444	LAT
Potassium	1.6	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1444	LAT
Sodium	6.5	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1444	LAT
Vanadium	BDL	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1444	LAT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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KY - 90010, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

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January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-141DUP-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 11:52

ESC Sample # : L385070-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.41	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1503	RBS
Sulfate	14.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1503	RBS
Alkalinity	52.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NUM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1714	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1604	LEM
pH	7.6		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.36	0.10	mg/l	353.2	01/26/09 0855	165	01/26/09 1258	LEM
Oil & Grease (Hexane Extr)	5.6	5.0	mg/l	1664A	01/26/09 0428	78	01/26/09 0912	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0133	LEM
Kjeldahl Nitrogen, TKN	0.52	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0850	DTH
TOC (Total Organic Carbon)	1.8	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2020	ADH
Dissolved Solids	98.	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1713	MF
Suspended Solids	4.4	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Arsenic	0.0013	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Chromium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Copper	0.0049	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Nickel	0.0018	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Selenium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Zinc	0.010	0.010	mg/l	200.8	01/25/09 1851	428	01/27/09 0154	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1552	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

Notes:

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L385070-04 (PH) - 7.6@11.5C



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12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Stanley Bramlett
TVA-Widows Creek Fossil Plant
2800 Steamplant Rd.
Stevenson, AL 35772

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-141DUP-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 11:52

ESC Sample # : L385070-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.31	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1447	LAT
Barium	0.025	0.0050	mg/l	200.7	01/25/09 1656	428	01/26/09 1447	LAT
Calcium	19.	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1447	LAT
Iron	0.29	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1447	LAT
Magnesium	4.8	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1447	LAT
Manganese	0.032	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1447	LAT
Potassium	1.6	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1447	LAT
Sodium	7.2	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1447	LAT
Vanadium	BDL	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1447	LAT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
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Notes:

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Reported: 01/27/09 18:09 Revised: 01/28/09 08:50
L385070-04 (PH) - 7.6@11.5C



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Est. 1970

REPORT OF ANALYSIS

Mr. Stanley Bramlett
TVA-Widows Creek Fossil Plant
2800 Steamplant Rd.
Stevenson, AL 35772

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-145-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 12:15

ESC Sample # : L385070-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.47	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1520	RBS
Sulfate	27.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1520	RBS
Alkalinity	61.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NUM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1714	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1605	LEM
pH	7.6		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.42	0.10	mg/l	353.2	01/26/09 0855	165	01/26/09 1259	LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	01/26/09 0428	78	01/26/09 0913	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0134	LEM
Kjeldahl Nitrogen, TKN	0.43	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0851	DTH
TOC (Total Organic Carbon)	1.6	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2031	ADH
Dissolved Solids	110	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1714	MF
Suspended Solids	15.	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Arsenic	0.0031	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Chromium	0.0023	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Copper	0.0013	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Nickel	0.0028	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Selenium	0.0022	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Zinc	BDL	0.010	mg/l	200.8	01/25/09 1851	428	01/27/09 0158	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1559	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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KY - 90010, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
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REPORT OF ANALYSIS

Mr. Stanley Bramlett
TVA-Widows Creek Fossil Plant
2800 Steamplant Rd.
Stevenson, AL 35772

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-145-20090123
Collected By : Michael Gamble
Collection Date : 01/23/09 12:15

ESC Sample # : L385070-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.65	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1451	LAT
Barium	0.034	0.0050	mg/l	200.7	01/25/09 1656	428	01/26/09 1451	LAT
Calcium	29.	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1451	LAT
Iron	0.72	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1451	LAT
Magnesium	5.3	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1451	LAT
Manganese	0.068	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1451	LAT
Potassium	1.5	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1451	LAT
Sodium	6.3	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1451	LAT
Vanadium	BDL	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1451	LAT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

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Reported: 01/27/09 18:09 Revised: 01/28/09 08:50

L385070-05 (PH) - 7.6@11.1C

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L385070-01	WG404190	SAMP	Dissolved Solids	R607525	J3
	WG404333	SAMP	pH	R607008	T8
	WG404228	SAMP	Nitrate	R606245	T8
L385070-02	WG404333	SAMP	pH	R607008	T8
	WG404228	SAMP	Nitrate	R606245	T8
L385070-03	WG404335	SAMP	pH	R606965	T8
	WG404228	SAMP	Nitrate	R606245	T8
L385070-04	WG404335	SAMP	pH	R606965	T8
	WG404228	SAMP	Nitrate	R606245	T8
L385070-05	WG404335	SAMP	pH	R606965	T8
	WG404228	SAMP	Nitrate	R606245	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
01/28/09 at 08:50:07

TSR Signing Reports: 400
RX - Priority Rush

Must have cooler receipt form-LC

Sample: L385070-01 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:09

Sample: L385070-02 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:09

Sample: L385070-03 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:09

Sample: L385070-04 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:09

Sample: L385070-05 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:09