



ENVIRONMENTAL
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12065 Lebanon Rd.
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

Thursday March 05, 2009

Report Number: L389924

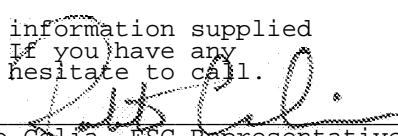
Samples Received: 02/25/09

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.



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REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-308-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 08:17

ESC Sample # : L389924-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.33	0.10	mg/l	300.0	02/26/09 0730	245	02/26/09 1151	MCH
Sulfate	8.9	5.0	mg/l	300.0	02/26/09 0730	245	02/26/09 1151	MCH
Alkalinity	81.	20.	mg/l	2320B	02/25/09 1656	234	02/26/09 1350	MCG
COD	BDL	20.	mg/l	410.4	02/26/09 1621	234	02/27/09 1531	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/27/09 1027	234	03/02/09 1155	NJM
pH	7.9		su	4500H-B	02/26/09 1255	397	02/26/09 1356	TWF
Nitrate-Nitrite	0.36	0.10	mg/l	353.2	03/01/09 1721	236	03/02/09 0214	LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	03/02/09 0400	78	03/02/09 1130	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/26/09 1618	234	03/02/09 0941	LEM
Kjeldahl Nitrogen, TKN	0.29	0.10	mg/l	351.2	03/02/09 1031	234	03/02/09 1742	DTH
TOC (Total Organic Carbon)	2.7	1.0	mg/l	5310B	02/27/09 1546	162	03/02/09 2149	ADH
Dissolved Solids	110	10.	mg/l	2540C	02/27/09 1328	193	03/03/09 1424	AMS
Suspended Solids	1.9	1.0	mg/l	2540D	02/27/09 1652	193	02/28/09 0907	AMS
Antimony	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Copper	0.0013	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Lead	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Nickel	0.0011	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Silver	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Zinc	0.042	0.010	mg/l	200.8	02/27/09 0620	388	03/04/09 0947	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/26/09 0810	429	02/27/09 1338	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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L389924-01 (PH) - 7.9@20.0c



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REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-308-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 08:17

ESC Sample # : L389924-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.17	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1630	DMM
Barium	0.020	0.0050	mg/l	200.7	02/27/09 0700	237	02/28/09 1630	DMM
Calcium	32.	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1630	DMM
Iron	0.26	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1630	DMM
Magnesium	4.5	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1630	DMM
Manganese	0.032	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1630	DMM
Potassium	0.81	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1630	DMM
Sodium	1.5	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1630	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1630	DMM

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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2800 Steamplant Rd.
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March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-309-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:03

ESC Sample # : L389924-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.26	0.10	mg/l	300.0	02/26/09 0730	245	02/26/09 1224	MCH
Sulfate	13.	5.0	mg/l	300.0	02/26/09 0730	245	02/26/09 1224	MCH
Alkalinity	83.	20.	mg/l	2320B	02/25/09 1656	234	02/26/09 1350	MCG
COD	BDL	20.	mg/l	410.4	02/26/09 1621	234	02/27/09 1531	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/27/09 1027	234	03/02/09 1156	NJM
pH	7.7		su	4500H-B	02/26/09 1255	397	02/26/09 1356	TWF
Nitrate-Nitrite	0.26	0.10	mg/l	353.2	03/01/09 1721	236	03/02/09 0216	LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	03/02/09 0400	78	03/02/09 1132	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/26/09 1618	234	03/02/09 0942	LEM
Kjeldahl Nitrogen, TKN	0.54	0.10	mg/l	351.2	02/28/09 1230	234	03/02/09 1743	DTH
TOC (Total Organic Carbon)	1.5	1.0	mg/l	5310B	02/27/09 1546	162	03/02/09 2228	ADH
Dissolved Solids	100	10.	mg/l	2540C	03/02/09 1559	36	03/04/09 1420	MF
Suspended Solids	2.8	1.0	mg/l	2540D	02/27/09 1652	193	02/28/09 0907	AMS
Antimony	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Copper	0.0014	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Lead	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Nickel	0.0013	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Silver	0.00068	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Zinc	BDL	0.010	mg/l	200.8	02/27/09 0620	388	03/04/09 0916	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/26/09 0810	429	02/27/09 1346	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
AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

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2800 Steamplant Rd.
Stevenson, AL 35772

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-309-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:03

ESC Sample # : L389924-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.20	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1633	DMM
Barium	0.020	0.0050	mg/l	200.7	02/27/09 0700	237	02/28/09 1633	DMM
Calcium	34.	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1633	DMM
Iron	0.29	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1633	DMM
Magnesium	4.8	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1633	DMM
Manganese	0.053	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1633	DMM
Potassium	0.69	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1633	DMM
Sodium	2.1	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1633	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1633	DMM

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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2800 Steamplant Rd.
Stevenson, AL 35772

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN117-SW-310-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 08:32

ESC Sample # : L389924-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.22	0.10	mg/l	300.0	02/26/09 0730	245	02/26/09 1313	MCH
Sulfate	21.	5.0	mg/l	300.0	02/26/09 0730	245	02/26/09 1313	MCH
Alkalinity	66.	20.	mg/l	2320B	02/25/09 1656	234	02/26/09 1350	MCG
COD	BDL	20.	mg/l	410.4	02/26/09 1621	234	02/27/09 1532	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/27/09 1027	234	03/02/09 1157	NJM
pH	8.0		su	4500H-B	02/26/09 1255	397	02/26/09 1356	TWF
Nitrate-Nitrite	1300	20.	mg/l	353.2	03/01/09 1721	236	03/02/09 0236	LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	03/02/09 0400	78	03/02/09 1132	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/27/09 1649	234	03/02/09 1013	LEM
Kjeldahl Nitrogen, TKN	0.68	0.10	mg/l	351.2	02/28/09 1230	234	03/02/09 1744	DTH
TOC (Total Organic Carbon)	2.8	1.0	mg/l	5310B	02/27/09 1546	162	03/02/09 2251	ADH
Dissolved Solids	110	10.	mg/l	2540C	02/27/09 1328	193	03/03/09 1424	AMS
Suspended Solids	6.5	1.0	mg/l	2540D	02/27/09 1652	193	02/28/09 0907	AMS
Antimony	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Copper	0.0018	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Lead	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Nickel	0.0011	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Silver	0.00082	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Zinc	BDL	0.010	mg/l	200.8	02/27/09 0620	388	03/04/09 0913	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/26/09 0810	429	02/27/09 1349	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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Stevenson, AL 35772

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN117-SW-310-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 08:32

ESC Sample # : L389924-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.21	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1636	DMM
Barium	0.026	0.0050	mg/l	200.7	02/27/09 0700	237	02/28/09 1636	DMM
Calcium	24.	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1636	DMM
Iron	0.17	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1636	DMM
Magnesium	6.5	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1636	DMM
Manganese	0.034	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1636	DMM
Potassium	1.7	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1636	DMM
Sodium	9.8	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1636	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1636	DMM

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-311-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 08:54

ESC Sample # : L389924-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.23	0.10	mg/l	300.0	02/26/09 0730	245	02/26/09 1330	MCH
Sulfate	19.	5.0	mg/l	300.0	02/26/09 0730	245	02/26/09 1330	MCH
Alkalinity	66.	20.	mg/l	2320B	02/25/09 1656	234	02/26/09 1350	MCG
COD	BDL	20.	mg/l	410.4	02/26/09 1621	234	02/27/09 1532	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/27/09 1027	234	03/02/09 1158	NJM
pH	8.0		su	4500H-B	02/26/09 1255	397	02/26/09 1356	TWF
Nitrate-Nitrite	BDL	0.10	mg/l	353.2	03/01/09 1721	236	03/02/09 0218	LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	03/02/09 0400	78	03/02/09 1131	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/27/09 1649	234	03/02/09 1015	LEM
Kjeldahl Nitrogen, TKN	0.64	0.10	mg/l	351.2	02/28/09 1230	234	03/02/09 1745	DTH
TOC (Total Organic Carbon)	2.1	1.0	mg/l	5310B	02/27/09 1546	162	03/02/09 2336	ADH
Dissolved Solids	130	10.	mg/l	2540C	03/02/09 1559	36	03/04/09 1416	MF
Suspended Solids	6.3	1.0	mg/l	2540D	02/27/09 1652	193	02/28/09 0907	AMS
Antimony	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Copper	0.0016	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Lead	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Nickel	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Silver	0.00057	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Zinc	0.023	0.010	mg/l	200.8	02/27/09 0620	388	03/04/09 0910	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/26/09 0810	429	02/27/09 1352	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

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Est. 1970

REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-311-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 08:54

ESC Sample # : L389924-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.25	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1700	DMM
Barium	0.025	0.0050	mg/l	200.7	02/27/09 0700	237	02/28/09 1700	DMM
Calcium	23.	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1700	DMM
Iron	0.19	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1700	DMM
Magnesium	6.3	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1700	DMM
Manganese	0.034	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1700	DMM
Potassium	1.6	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1700	DMM
Sodium	8.4	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1700	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1700	DMM

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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REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-312-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:04

ESC Sample # : L389924-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.24	0.10	mg/l	300.0	02/26/09 0730	245	02/26/09 1346	MCH
Sulfate	18.	5.0	mg/l	300.0	02/26/09 0730	245	02/26/09 1346	MCH
Alkalinity	65.	20.	mg/l	2320B	02/25/09 1656	234	02/26/09 1350	MCG
COD	BDL	20.	mg/l	410.4	02/26/09 1621	234	02/27/09 1532	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/27/09 1027	234	03/02/09 1159	NJM
pH	8.0		su	4500H-B	02/26/09 1255	397	02/26/09 1356	TWF
Nitrate-Nitrite	0.19	0.10	mg/l	353.2	03/03/09 0850	236	03/03/09 1210	NJM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	03/02/09 0400	78	03/02/09 1131	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/27/09 1649	234	03/02/09 1018	LEM
Kjeldahl Nitrogen, TKN	0.54	0.10	mg/l	351.2	02/28/09 1230	234	03/02/09 1747	DTH
TOC (Total Organic Carbon)	2.1	1.0	mg/l	5310B	02/27/09 1546	162	03/02/09 2347	ADH
Dissolved Solids	100	10.	mg/l	2540C	03/02/09 1559	36	03/04/09 1420	MF
Suspended Solids	8.0	1.0	mg/l	2540D	02/27/09 1652	193	02/28/09 0907	AMS
Antimony	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Copper	0.0016	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Lead	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Nickel	0.0010	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Silver	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Zinc	0.016	0.010	mg/l	200.8	02/27/09 0620	388	03/04/09 0907	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/26/09 0810	429	02/27/09 1355	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
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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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-312-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:04

ESC Sample # : L389924-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.33	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1705	DMM
Barium	0.026	0.0050	mg/l	200.7	02/27/09 0700	237	02/28/09 1705	DMM
Calcium	24.	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1705	DMM
Iron	0.26	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1705	DMM
Magnesium	6.1	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1705	DMM
Manganese	0.037	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1705	DMM
Potassium	1.6	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1705	DMM
Sodium	8.0	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1705	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1705	DMM

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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REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-313-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:08

ESC Sample # : L389924-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.23	0.10	mg/l	300.0	02/26/09 0730	245	02/26/09 1402	MCH
Sulfate	18.	5.0	mg/l	300.0	02/26/09 0730	245	02/26/09 1402	MCH
Alkalinity	65.	20.	mg/l	2320B	02/25/09 1656	234	02/26/09 1350	MCG
COD	BDL	20.	mg/l	410.4	02/26/09 1621	234	02/27/09 1532	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/27/09 1027	234	03/02/09 1200	NJM
pH	7.8		su	4500H-B	02/26/09 1255	397	02/26/09 1356	TWF
Nitrate-Nitrite	0.20	0.10	mg/l	353.2	03/03/09 0850	236	03/03/09 1211	NJM
Oil & Grease (Hexane Extr)	32.	5.6	mg/l	1664A	03/02/09 0400	78	03/02/09 1134	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/27/09 1649	234	03/02/09 1019	LEM
Kjeldahl Nitrogen, TKN	0.60	0.10	mg/l	351.2	02/28/09 1230	234	03/02/09 1748	DTH
TOC (Total Organic Carbon)	2.0	1.0	mg/l	5310B	02/27/09 1546	162	03/02/09 2358	ADH
Dissolved Solids	100	10.	mg/l	2540C	03/02/09 1559	36	03/04/09 1419	MF
Suspended Solids	8.5	1.0	mg/l	2540D	02/28/09 1456	193	03/02/09 1533	AMS
Antimony	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Copper	0.0014	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Lead	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Nickel	0.0012	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Silver	0.00070	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Zinc	BDL	0.010	mg/l	200.8	02/27/09 0620	388	03/04/09 0944	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/26/09 0810	429	02/27/09 1358	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-313-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:08

ESC Sample # : L389924-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.33	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1708	DMM
Barium	0.026	0.0050	mg/l	200.7	02/27/09 0700	237	02/28/09 1708	DMM
Calcium	24.	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1708	DMM
Iron	0.28	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1708	DMM
Magnesium	6.0	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1708	DMM
Manganese	0.039	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1708	DMM
Potassium	1.5	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1708	DMM
Sodium	8.0	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1708	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1708	DMM

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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REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-314-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:31

ESC Sample # : L389924-07

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.22	0.10	mg/l	300.0	02/26/09 0730	245	02/26/09 1419	MCH
Sulfate	19.	5.0	mg/l	300.0	02/26/09 0730	245	02/26/09 1419	MCH
Alkalinity	66.	20.	mg/l	2320B	02/25/09 1656	234	02/26/09 1350	MCG
COD	BDL	20.	mg/l	410.4	02/26/09 1621	234	02/27/09 1533	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/27/09 1027	234	03/02/09 1204	NJM
pH	8.0		su	4500H-B	02/26/09 1255	397	02/26/09 1356	TWF
Nitrate-Nitrite	0.18	0.10	mg/l	353.2	03/03/09 0850	236	03/03/09 1212	NJM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	03/02/09 0400	78	03/02/09 1133	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/27/09 1649	234	03/02/09 1020	LEM
Kjeldahl Nitrogen, TKN	0.53	0.10	mg/l	351.2	02/28/09 1230	234	03/02/09 1749	DTH
TOC (Total Organic Carbon)	2.0	1.0	mg/l	5310B	02/27/09 1546	162	03/03/09 0010	ADH
Dissolved Solids	110	10.	mg/l	2540C	03/02/09 1600	36	03/04/09 1555	MF
Suspended Solids	7.1	1.0	mg/l	2540D	02/28/09 1456	193	03/02/09 1533	AMS
Antimony	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Copper	0.0015	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Lead	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Nickel	0.0011	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Silver	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Zinc	BDL	0.010	mg/l	200.8	02/27/09 0620	388	03/04/09 0940	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/26/09 0810	429	02/27/09 1400	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

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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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-314-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:31

ESC Sample # : L389924-07

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.29	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1711	DMM
Barium	0.027	0.0050	mg/l	200.7	02/27/09 0700	237	02/28/09 1711	DMM
Calcium	23.	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1711	DMM
Iron	0.23	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1711	DMM
Magnesium	6.5	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1711	DMM
Manganese	0.042	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1711	DMM
Potassium	1.7	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1711	DMM
Sodium	9.1	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1711	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1711	DMM

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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Est. 1970

REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-309DUP-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:27

ESC Sample # : L389924-08

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.27	0.10	mg/l	300.0	02/26/09 0730	245	02/26/09 1435	MCH
Sulfate	12.	5.0	mg/l	300.0	02/26/09 0730	245	02/26/09 1435	MCH
Alkalinity	84.	20.	mg/l	2320B	02/25/09 1656	234	02/26/09 1350	MCG
COD	BDL	20.	mg/l	410.4	02/26/09 1621	234	02/27/09 1534	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/27/09 1027	234	03/02/09 1205	NJM
pH	7.8		su	4500H-B	02/26/09 1255	397	02/26/09 1356	TWF
Nitrate-Nitrite	0.26	0.10	mg/l	353.2	03/03/09 0850	236	03/03/09 1213	NJM
Oil & Grease (Hexane Extr)	67.	5.0	mg/l	1664A	03/02/09 0400	78	03/02/09 1133	TLB
Phosphorus, Total	0.14	0.10	mg/l	365.1	02/27/09 1649	234	03/02/09 1021	LEM
Kjeldahl Nitrogen, TKN	0.31	0.10	mg/l	351.2	02/28/09 1230	234	03/02/09 1750	DTH
TOC (Total Organic Carbon)	1.2	1.0	mg/l	5310B	02/27/09 1546	162	03/03/09 0022	ADH
Dissolved Solids	110	10.	mg/l	2540C	03/02/09 1600	36	03/04/09 1556	MF
Suspended Solids	3.0	1.0	mg/l	2540D	02/28/09 1456	193	03/02/09 1533	AMS
Antimony	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Copper	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Lead	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Nickel	0.0010	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Silver	0.00055	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Zinc	BDL	0.010	mg/l	200.8	02/27/09 0620	388	03/04/09 0922	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/26/09 0810	429	02/27/09 1403	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-309DUP-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:27

ESC Sample # : L389924-08

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.25	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1609	DMM
Barium	0.022	0.0050	mg/l	200.7	02/27/09 0700	237	02/28/09 1609	DMM
Calcium	36.	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1609	DMM
Iron	0.32	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1609	DMM
Magnesium	5.1	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1609	DMM
Manganese	0.056	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1609	DMM
Potassium	0.83	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1609	DMM
Sodium	1.8	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1609	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1609	DMM

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

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Reported: 03/05/09 08:06 Printed: 03/05/09 11:21

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REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-FB-315-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:27

ESC Sample # : L389924-09

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	BDL	0.10	mg/l	300.0	02/26/09 0730	245	02/26/09 1557	MCH
Sulfate	BDL	5.0	mg/l	300.0	02/26/09 0730	245	02/26/09 1557	MCH
Alkalinity	BDL	20.	mg/l	2320B	02/27/09 1811	234	03/03/09 1553	MCG
COD	BDL	20.	mg/l	410.4	02/26/09 1621	234	02/27/09 1535	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/27/09 1027	234	03/02/09 1206	NJM
pH	7.1		su	4500H-B	02/26/09 1255	397	02/26/09 1356	TWF
Nitrate-Nitrite	BDL	0.10	mg/l	353.2	03/03/09 0850	236	03/03/09 1215	NJM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	03/02/09 0400	78	03/02/09 1132	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/27/09 1649	234	03/02/09 1022	LEM
Kjeldahl Nitrogen, TKN	0.54	0.10	mg/l	351.2	02/28/09 1230	234	03/02/09 1751	DTH
TOC (Total Organic Carbon)	BDL	1.0	mg/l	5310B	02/27/09 1546	162	03/03/09 0037	ADH
Dissolved Solids	BDL	10.	mg/l	2540C	03/02/09 1600	36	03/04/09 1559	MF
Suspended Solids	BDL	1.0	mg/l	2540D	02/28/09 1456	193	03/02/09 1533	AMS
Antimony	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Copper	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Lead	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Nickel	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Silver	BDL	0.00050	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Zinc	0.33	0.010	mg/l	200.8	02/27/09 0620	388	03/04/09 0919	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/26/09 0810	429	02/27/09 1327	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

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

March 05, 2009

Date Received : 02/25/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-FB-315-20090225
Collected By : M Gamble/R Wells
Collection Date : 02/25/09 09:27

ESC Sample # : L389924-09

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	BDL	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1715	DMM
Barium	BDL	0.0050	mg/l	200.7	02/27/09 0700	237	02/28/09 1715	DMM
Calcium	4.9	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1715	DMM
Iron	BDL	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1715	DMM
Magnesium	0.11	0.10	mg/l	200.7	02/27/09 0700	237	02/28/09 1715	DMM
Manganese	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1715	DMM
Potassium	BDL	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1715	DMM
Sodium	BDL	0.50	mg/l	200.7	02/27/09 0700	237	02/28/09 1715	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/27/09 0700	237	02/28/09 1715	DMM

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
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L389924-01	WG409694	SAMP	Kjeldahl Nitrogen, TKN	R656510	T2
	WG409383	SAMP	pH	R653145	T8
	WG409540	SAMP	Nickel	R658646	P1
L389924-02	WG409680	SAMP	TOC (Total Organic Carbon)	R657645	P1
	WG409383	SAMP	pH	R653145	T8
L389924-03	WG409383	SAMP	pH	R653145	T8
L389924-04	WG409383	SAMP	pH	R653145	T8
L389924-05	WG409383	SAMP	pH	R653145	T8
L389924-06	WG409383	SAMP	pH	R653145	T8
L389924-07	WG409383	SAMP	pH	R653145	T8
L389924-08	WG409541	SAMP	Aluminum	R655828	P1
	WG409383	SAMP	pH	R653145	T8
L389924-09	WG409383	SAMP	pH	R653145	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T2	(ESC) - Additional method/sample information: The laboratory analysis was from an unpreserved or improperly preserved sample.
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
03/05/09 at 11:21:29

TSR Signing Reports: 400
RX - Priority Rush

Must have cooler receipt form-LC

Sample: L389924-01 Account: TVAWCF Received: 02/25/09 15:20 Due Date: 03/05/09 00:00 RPT Date: 03/05/09 08:06
Sample: L389924-02 Account: TVAWCF Received: 02/25/09 15:20 Due Date: 03/05/09 00:00 RPT Date: 03/05/09 08:06
Sample: L389924-03 Account: TVAWCF Received: 02/25/09 15:20 Due Date: 03/05/09 00:00 RPT Date: 03/05/09 08:06
Sample: L389924-04 Account: TVAWCF Received: 02/25/09 15:20 Due Date: 03/05/09 00:00 RPT Date: 03/05/09 08:06
Sample: L389924-05 Account: TVAWCF Received: 02/25/09 15:20 Due Date: 03/05/09 00:00 RPT Date: 03/05/09 08:06
Sample: L389924-06 Account: TVAWCF Received: 02/25/09 15:20 Due Date: 03/05/09 00:00 RPT Date: 03/05/09 08:06
Sample: L389924-07 Account: TVAWCF Received: 02/25/09 15:20 Due Date: 03/05/09 00:00 RPT Date: 03/05/09 08:06
Sample: L389924-08 Account: TVAWCF Received: 02/25/09 15:20 Due Date: 03/05/09 00:00 RPT Date: 03/05/09 08:06
Sample: L389924-09 Account: TVAWCF Received: 02/25/09 15:20 Due Date: 03/05/09 00:00 RPT Date: 03/05/09 08:06