



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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

Tuesday February 24, 2009

Report Number: L388364

Samples Received: 02/16/09

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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-280-20090216
Collected By : MG/RW
Collection Date : 02/16/09 08:31

ESC Sample # : L388364-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.40	0.10	mg/l	300.0	02/17/09	1044	245 02/17/09	1143 RBS
Sulfate	10.	5.0	mg/l	300.0	02/17/09	1044	245 02/17/09	1143 RBS
Alkalinity	96.	20.	mg/l	2320B	02/16/09	1514	234 02/18/09	1500 NJM
COD	BDL	20.	mg/l	410.4	02/17/09	1520	234 02/19/09	1326 LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/18/09	1108	234 02/19/09	1027 LEM
pH	8.0		su	4500H-B	02/17/09	0830	397 02/17/09	1355 BKM
Nitrate-Nitrite	0.29	0.10	mg/l	353.2	02/20/09	0915	165 02/20/09	1408 LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	02/21/09	1733	78 02/22/09	1229 TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/18/09	1530	234 02/20/09	0959 LEM
Kjeldahl Nitrogen, TKN	0.29	0.10	mg/l	351.2	02/18/09	1104	234 02/19/09	0920 DTH
TOC (Total Organic Carbon)	1.3	1.0	mg/l	5310B	02/17/09	1210	143 02/17/09	1815 ADH
Dissolved Solids	130	10.	mg/l	2540C	02/18/09	1516	36 02/20/09	1257 MF
Suspended Solids	1.4	1.0	mg/l	2540D	02/18/09	1515	36 02/19/09	1053 MF
Antimony	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Chromium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Copper	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Lead	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Nickel	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Selenium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Silver	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Thallium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Zinc	BDL	0.010	mg/l	200.8	02/18/09	0910	237 02/19/09	0217 LAT
Mercury	BDL	0.00020	mg/l	245.1	02/16/09	1842	429 02/18/09	0908 ARF

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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L388364-01 (PH) - 8.0@19.3c



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REPORT OF ANALYSIS

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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-280-20090216
Collected By : MG/RW
Collection Date : 02/16/09 08:31

ESC Sample # : L388364-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.18	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1316	DMM
Barium	0.020	0.0050	mg/l	200.7	02/19/09 0821	388	02/20/09 1316	DMM
Calcium	34.	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1316	DMM
Iron	0.26	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1316	DMM
Magnesium	5.0	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1316	DMM
Manganese	0.037	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1316	DMM
Potassium	1.2	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1316	DMM
Sodium	1.5	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1316	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1316	DMM

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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Reported: 02/24/09 12:06 Printed: 02/24/09 15:29

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2800 Steamplant Rd.
Stevenson, AL 35772

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-281-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:04

ESC Sample # : L388364-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.25	0.10	mg/l	300.0	02/17/09	1044	245 02/17/09	1159 RBS
Sulfate	26.	5.0	mg/l	300.0	02/17/09	1044	245 02/17/09	1159 RBS
Alkalinity	94.	20.	mg/l	2320B	02/16/09	1514	234 02/18/09	1500 NJM
COD	BDL	20.	mg/l	410.4	02/17/09	1520	234 02/19/09	1326 LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/18/09	1108	234 02/19/09	1028 LEM
pH	8.0		su	4500H-B	02/17/09	0830	397 02/17/09	1355 BKM
Nitrate-Nitrite	0.18	0.10	mg/l	353.2	02/20/09	0915	165 02/20/09	1409 LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	02/21/09	1733	78 02/22/09	1230 TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/18/09	1530	234 02/20/09	1000 LEM
Kjeldahl Nitrogen, TKN	0.37	0.10	mg/l	351.2	02/18/09	1104	234 02/19/09	0921 DTH
TOC (Total Organic Carbon)	1.4	1.0	mg/l	5310B	02/17/09	1210	143 02/17/09	1826 ADH
Dissolved Solids	100	10.	mg/l	2540C	02/18/09	1516	36 02/20/09	1300 MF
Suspended Solids	2.5	1.0	mg/l	2540D	02/18/09	1521	36 02/19/09	1017 MF
Antimony	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	1304 LAT
Chromium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Copper	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Lead	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	1304 LAT
Nickel	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Selenium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Silver	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Thallium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	1304 LAT
Zinc	BDL	0.010	mg/l	200.8	02/18/09	0910	237 02/19/09	0335 LAT
Mercury	BDL	0.00020	mg/l	245.1	02/16/09	1842	429 02/18/09	0911 ARF

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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L388364-02 (PH) - 8.0@19.1c



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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-281-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:04

ESC Sample # : L388364-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.19	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1334	DMM
Barium	0.021	0.0050	mg/l	200.7	02/19/09 0821	388	02/20/09 1334	DMM
Calcium	41.	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1334	DMM
Iron	0.28	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1334	DMM
Magnesium	5.4	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1334	DMM
Manganese	0.069	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1334	DMM
Potassium	1.2	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1334	DMM
Sodium	1.6	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1334	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1334	DMM

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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L388364-02 (PH) - 8.0@19.1c



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2800 Steamplant Rd.
Stevenson, AL 35772

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-282-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:55

ESC Sample # : L388364-03

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	02/17/09 1044	245	02/17/09 1321	RBS
Sulfate	20.	5.0	mg/l	300.0	02/17/09 1044	245	02/17/09 1321	RBS
Alkalinity	77.	20.	mg/l	2320B	02/16/09 1514	234	02/18/09 1500	NJM
COD	BDL	20.	mg/l	410.4	02/17/09 1520	234	02/19/09 1326	LLJ
Ammonia Nitrogen	0.28	0.10	mg/l	350.1	02/19/09 1400	234	02/19/09 1316	LEM
pH	8.3		su	4500H-B	02/17/09 0830	397	02/17/09 1355	BKM
Nitrate-Nitrite	0.17	0.10	mg/l	353.2	02/23/09 1454	234	02/24/09 0852	NJM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	02/21/09 1733	78	02/22/09 1232	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/18/09 1530	234	02/20/09 1001	LEM
Kjeldahl Nitrogen, TKN	0.70	0.10	mg/l	351.2	02/18/09 1104	234	02/19/09 0922	DTH
TOC (Total Organic Carbon)	2.1	1.0	mg/l	5310B	02/17/09 1210	143	02/17/09 1837	ADH
Dissolved Solids	120	10.	mg/l	2540C	02/18/09 1525	36	02/21/09 1029	MF
Suspended Solids	7.8	1.0	mg/l	2540D	02/18/09 1521	36	02/19/09 1017	MF
Antimony	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 1307	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Copper	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Lead	0.0010	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 1307	LAT
Nickel	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Silver	BDL	0.00050	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 1307	LAT
Zinc	BDL	0.010	mg/l	200.8	02/18/09 0910	237	02/19/09 0338	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/16/09 1842	429	02/18/09 0913	ARF

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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KY - 90010, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
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2800 Steamplant Rd.
Stevenson, AL 35772

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-282-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:55

ESC Sample # : L388364-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.26	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1337	DMM
Barium	0.025	0.0050	mg/l	200.7	02/19/09 0821	388	02/20/09 1337	DMM
Calcium	24.	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1337	DMM
Iron	0.19	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1337	DMM
Magnesium	6.5	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1337	DMM
Manganese	0.036	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1337	DMM
Potassium	2.0	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1337	DMM
Sodium	8.7	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1337	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1337	DMM

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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L388364-03 (PH) - 8.3@19.6c



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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-283-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:19

ESC Sample # : L388364-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.28	0.10	mg/l	300.0	02/17/09	1044	245 02/17/09	1549 RBS
Sulfate	20.	5.0	mg/l	300.0	02/17/09	1044	245 02/17/09	1549 RBS
Alkalinity	74.	20.	mg/l	2320B	02/16/09	1514	234 02/18/09	1500 NJM
COD	BDL	20.	mg/l	410.4	02/17/09	1520	234 02/19/09	1327 LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/19/09	1400	234 02/19/09	1319 LEM
pH	8.3		su	4500H-B	02/17/09	0830	397 02/17/09	1355 BKM
Nitrate-Nitrite	0.18	0.10	mg/l	353.2	02/23/09	1454	234 02/24/09	0853 NJM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	02/21/09	1733	78 02/22/09	1231 TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/18/09	1530	234 02/20/09	1002 LEM
Kjeldahl Nitrogen, TKN	0.56	0.10	mg/l	351.2	02/18/09	1104	234 02/19/09	0923 DTH
TOC (Total Organic Carbon)	2.0	1.0	mg/l	5310B	02/17/09	1210	143 02/17/09	1848 ADH
Dissolved Solids	110	10.	mg/l	2540C	02/18/09	1516	36 02/20/09	1300 MF
Suspended Solids	7.6	1.0	mg/l	2540D	02/18/09	1521	36 02/19/09	1017 MF
Antimony	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	1311 LAT
Chromium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Copper	0.0011	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Lead	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	1311 LAT
Nickel	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Selenium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Silver	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Thallium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09	1311 LAT
Zinc	BDL	0.010	mg/l	200.8	02/18/09	0910	237 02/19/09	0342 LAT
Mercury	BDL	0.00020	mg/l	245.1	02/16/09	1842	429 02/18/09	0916 ARF

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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L388364-04 (PH) - 8.3@19.4c



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Est. 1970

REPORT OF ANALYSIS

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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-283-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:19

ESC Sample # : L388364-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.30	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1340	DMM
Barium	0.026	0.0050	mg/l	200.7	02/19/09 0821	388	02/20/09 1340	DMM
Calcium	23.	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1340	DMM
Iron	0.20	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1340	DMM
Magnesium	6.5	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1340	DMM
Manganese	0.040	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1340	DMM
Potassium	2.1	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1340	DMM
Sodium	8.8	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1340	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1340	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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN 117-SW-284-20090216
Collected By : MG/RW
Collection Date : 02/16/09 08:57

ESC Sample # : L388364-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.29	0.10	mg/l	300.0	02/17/09 1044	245	02/17/09 1338	RBS
Sulfate	22.	5.0	mg/l	300.0	02/17/09 1044	245	02/17/09 1338	RBS
Alkalinity	72.	20.	mg/l	2320B	02/16/09 1514	234	02/18/09 1500	NJM
COD	BDL	20.	mg/l	410.4	02/17/09 1520	234	02/19/09 1327	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/19/09 1400	234	02/19/09 1321	LEM
pH	8.3		su	4500H-B	02/17/09 0830	397	02/17/09 1355	BKM
Nitrate-Nitrite	0.19	0.10	mg/l	353.2	02/23/09 1454	234	02/24/09 0855	NJM
Oil & Grease (Hexane Extr)	BDL	5.9	mg/l	1664A	02/21/09 1733	78	02/22/09 1229	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/18/09 1530	234	02/20/09 1003	LEM
Kjeldahl Nitrogen, TKN	0.71	0.10	mg/l	351.2	02/18/09 1104	234	02/19/09 0924	DTH
TOC (Total Organic Carbon)	2.6	1.0	mg/l	5310B	02/17/09 1210	143	02/17/09 1904	ADH
Dissolved Solids	120	10.	mg/l	2540C	02/18/09 1516	36	02/20/09 1301	MF
Suspended Solids	8.6	1.0	mg/l	2540D	02/18/09 1521	36	02/19/09 1017	MF
Antimony	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 1314	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Copper	0.0013	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Lead	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 1314	LAT
Nickel	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Silver	BDL	0.00050	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/18/09 0910	237	02/19/09 1314	LAT
Zinc	BDL	0.010	mg/l	200.8	02/18/09 0910	237	02/19/09 0345	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/16/09 1842	429	02/18/09 0919	ARF

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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN 117-SW-284-20090216
Collected By : MG/RW
Collection Date : 02/16/09 08:57

ESC Sample # : L388364-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.30	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1343	DMM
Barium	0.026	0.0050	mg/l	200.7	02/19/09 0821	388	02/20/09 1343	DMM
Calcium	24.	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1343	DMM
Iron	0.19	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1343	DMM
Magnesium	6.4	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1343	DMM
Manganese	0.038	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1343	DMM
Potassium	2.2	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1343	DMM
Sodium	9.7	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1343	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1343	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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-285-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:36

ESC Sample # : L388364-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.28	0.10	mg/l	300.0	02/17/09	1044	245 02/17/09 1354	RBS
Sulfate	24.	5.0	mg/l	300.0	02/17/09	1044	245 02/17/09 1354	RBS
Alkalinity	72.	20.	mg/l	2320B	02/16/09	1514	234 02/18/09 1500	NJM
COD	BDL	20.	mg/l	410.4	02/17/09	1520	234 02/19/09 1327	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/19/09	1400	234 02/19/09 1322	LEM
pH	9.2		su	4500H-B	02/17/09	0830	397 02/17/09 1355	BKM
Nitrate-Nitrite	0.17	0.10	mg/l	353.2	02/23/09	1454	234 02/24/09 0856	NJM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	02/21/09	2100	78 02/22/09 1449	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/18/09	1530	234 02/20/09 1005	LEM
Kjeldahl Nitrogen, TKN	0.65	0.10	mg/l	351.2	02/18/09	1104	234 02/19/09 0925	DTH
TOC (Total Organic Carbon)	2.1	1.0	mg/l	5310B	02/17/09	1210	143 02/17/09 1915	ADH
Dissolved Solids	120	10.	mg/l	2540C	02/18/09	1525	36 02/21/09 1030	MF
Suspended Solids	9.9	1.0	mg/l	2540D	02/18/09	1521	36 02/19/09 1017	MF
Antimony	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Arsenic	0.0011	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 1329	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Copper	0.0019	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Lead	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 1329	LAT
Nickel	0.0031	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Selenium	0.0013	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Silver	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 1329	LAT
Zinc	BDL	0.010	mg/l	200.8	02/18/09	0910	237 02/19/09 0400	LAT
Mercury	0.00031	0.00020	mg/l	245.1	02/16/09	1842	429 02/18/09 0934	ARF

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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Est. 1970

REPORT OF ANALYSIS

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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-285-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:36

ESC Sample # : L388364-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.57	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1347	DMM
Barium	0.031	0.0050	mg/l	200.7	02/19/09 0821	388	02/20/09 1347	DMM
Calcium	26.	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1347	DMM
Iron	0.51	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1347	DMM
Magnesium	6.5	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1347	DMM
Manganese	0.065	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1347	DMM
Potassium	2.3	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1347	DMM
Sodium	8.9	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1347	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1347	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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-286-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:30

ESC Sample # : L388364-07

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	02/17/09	1044	245 02/17/09 1411	RBS
Sulfate	23.	5.0	mg/l	300.0	02/17/09	1044	245 02/17/09 1411	RBS
Alkalinity	74.	20.	mg/l	2320B	02/16/09	1514	234 02/18/09 1500	NJM
COD	BDL	20.	mg/l	410.4	02/17/09	1520	234 02/19/09 1327	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/19/09	1400	234 02/19/09 1323	LEM
pH	8.2		su	4500H-B	02/17/09	0830	397 02/17/09 1355	BKM
Nitrate-Nitrite	0.22	0.10	mg/l	353.2	02/23/09	1454	234 02/24/09 0858	NJM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	02/21/09	2100	78 02/22/09 1449	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/18/09	1530	234 02/20/09 1006	LEM
Kjeldahl Nitrogen, TKN	0.69	0.10	mg/l	351.2	02/18/09	1104	234 02/19/09 0928	DTH
TOC (Total Organic Carbon)	2.2	1.0	mg/l	5310B	02/17/09	1210	143 02/17/09 1927	ADH
Dissolved Solids	120	10.	mg/l	2540C	02/18/09	1525	36 02/21/09 1030	MF
Suspended Solids	10.	1.0	mg/l	2540D	02/18/09	1521	36 02/19/09 1017	MF
Antimony	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Arsenic	0.0010	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 1333	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Copper	0.0012	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Lead	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 1333	LAT
Nickel	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Selenium	0.0011	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Silver	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 1333	LAT
Zinc	0.047	0.010	mg/l	200.8	02/18/09	0910	237 02/19/09 0404	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/17/09	1158	429 02/19/09 0912	ARF

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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L388364-07 (PH) - 8.2@18.2c



**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-286-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:30

ESC Sample # : L388364-07

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.39	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1256	DMM
Barium	0.028	0.0050	mg/l	200.7	02/19/09 0821	388	02/20/09 1256	DMM
Calcium	26.	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1256	DMM
Iron	0.28	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1256	DMM
Magnesium	6.6	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1256	DMM
Manganese	0.044	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1256	DMM
Potassium	2.2	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1256	DMM
Sodium	9.1	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1256	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1256	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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Notes:

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Reported: 02/24/09 12:06 Printed: 02/24/09 15:29

L388364-07 (PH) - 8.2@18.2c



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Est. 1970

REPORT OF ANALYSIS

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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-282DUP-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:58

ESC Sample # : L388364-08

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	02/17/09	1044	245 02/17/09 1232	RBS
Sulfate	20.	5.0	mg/l	300.0	02/17/09	1044	245 02/17/09 1232	RBS
Alkalinity	72.	20.	mg/l	2320B	02/16/09	1514	234 02/18/09 1500	NJM
COD	BDL	20.	mg/l	410.4	02/17/09	1520	234 02/19/09 1327	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	02/19/09	1400	234 02/19/09 1324	LEM
pH	8.2		su	4500H-B	02/17/09	0830	397 02/17/09 1355	BKM
Nitrate-Nitrite	0.18	0.10	mg/l	353.2	02/23/09	1454	234 02/24/09 0859	NJM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	02/21/09	2100	78 02/22/09 1448	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	02/18/09	1530	234 02/20/09 1007	LEM
Kjeldahl Nitrogen, TKN	0.58	0.10	mg/l	351.2	02/19/09	1407	234 02/20/09 1309	DTH
TOC (Total Organic Carbon)	2.1	1.0	mg/l	5310B	02/17/09	1210	143 02/17/09 1938	ADH
Dissolved Solids	110	10.	mg/l	2540C	02/18/09	1525	36 02/21/09 1031	MF
Suspended Solids	7.9	1.0	mg/l	2540D	02/18/09	1521	36 02/19/09 1017	MF
Antimony	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Arsenic	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Cadmium	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Beryllium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 1336	LAT
Chromium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Cobalt	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Copper	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Lead	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 1336	LAT
Nickel	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Selenium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Silver	BDL	0.00050	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Thallium	BDL	0.0010	mg/l	200.8	02/18/09	0910	237 02/19/09 1336	LAT
Zinc	BDL	0.010	mg/l	200.8	02/18/09	0910	237 02/19/09 0407	LAT
Mercury	BDL	0.00020	mg/l	245.1	02/17/09	1158	429 02/19/09 0915	ARF

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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Est. 1970

REPORT OF ANALYSIS

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

February 24, 2009

Date Received : 02/16/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-282DUP-20090216
Collected By : MG/RW
Collection Date : 02/16/09 09:58

ESC Sample # : L388364-08

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.26	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1350	DMM
Barium	0.025	0.0050	mg/l	200.7	02/19/09 0821	388	02/20/09 1350	DMM
Calcium	23.	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1350	DMM
Iron	0.19	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1350	DMM
Magnesium	6.4	0.10	mg/l	200.7	02/19/09 0821	388	02/20/09 1350	DMM
Manganese	0.037	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1350	DMM
Potassium	2.1	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1350	DMM
Sodium	8.8	0.50	mg/l	200.7	02/19/09 0821	388	02/20/09 1350	DMM
Vanadium	BDL	0.010	mg/l	200.7	02/19/09 0821	388	02/20/09 1350	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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L388364-08 (PH) - 8.2@18.3c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L388364-01	WG407724	SAMP	pH	R636308	T8
L388364-02	WG407724	SAMP	pH	R636308	T8
L388364-03	WG407724	SAMP	pH	R636308	T8
L388364-04	WG408069	SAMP	Ammonia Nitrogen	R639886	P1
	WG407724	SAMP	pH	R636308	T8
L388364-05	WG407724	SAMP	pH	R636308	T8
L388364-06	WG407724	SAMP	pH	R636308	T8
L388364-07	WG407724	SAMP	pH	R636308	T8
L388364-08	WG407724	SAMP	pH	R636308	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.
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
02/24/09 at 15:29:59

TSR Signing Reports: 400
RX - Priority Rush

Must have cooler receipt form-LC

Sample: L388364-01 Account: TVAWCF Received: 02/16/09 15:30 Due Date: 02/24/09 00:00 RPT Date: 02/24/09 12:06
Sample: L388364-02 Account: TVAWCF Received: 02/16/09 15:30 Due Date: 02/24/09 00:00 RPT Date: 02/24/09 12:06
Sample: L388364-03 Account: TVAWCF Received: 02/16/09 15:30 Due Date: 02/24/09 00:00 RPT Date: 02/24/09 12:06
Sample: L388364-04 Account: TVAWCF Received: 02/16/09 15:30 Due Date: 02/24/09 00:00 RPT Date: 02/24/09 12:06
Sample: L388364-05 Account: TVAWCF Received: 02/16/09 15:30 Due Date: 02/24/09 00:00 RPT Date: 02/24/09 12:06
Sample: L388364-06 Account: TVAWCF Received: 02/16/09 15:30 Due Date: 02/24/09 00:00 RPT Date: 02/24/09 12:06
Sample: L388364-07 Account: TVAWCF Received: 02/16/09 15:30 Due Date: 02/24/09 00:00 RPT Date: 02/24/09 12:06
Sample: L388364-08 Account: TVAWCF Received: 02/16/09 15:30 Due Date: 02/24/09 00:00 RPT Date: 02/24/09 12:06