



ENVIRONMENTAL
SCIENCE CORP.

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

Friday January 23, 2009

Report Number: L384525

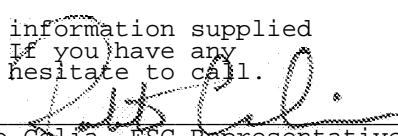
Samples Received: 01/21/09

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

January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-122-20090121
Collected By :
Collection Date : 01/21/09 09:21

ESC Sample # : L384525-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.54	0.10	mg/l	300.0	01/21/09	1211	159 01/21/09	1927 MCH
Sulfate	9.2	5.0	mg/l	300.0	01/21/09	1211	159 01/21/09	1927 MCH
Alkalinity	82.	20.	mg/l	2320B	01/20/09	1644	245 01/22/09	1500 NJM
COD	BDL	20.	mg/l	410.4	01/21/09	1645	234 01/22/09	1323 LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/22/09	1255	236 01/22/09	1504 LEM
pH	7.8		su	4500H-B	01/22/09	0713	183 01/22/09	1058 TWF
Nitrate-Nitrite	0.53	0.10	mg/l	353.2	01/22/09	1436	165 01/23/09	1240 LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	01/22/09	0340	78 01/22/09	1157 TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/22/09	1039	236 01/22/09	1533 LEM
Kjeldahl Nitrogen, TKN	0.39	0.10	mg/l	351.2	01/22/09	1423	236 01/23/09	1044 DTH
TOC (Total Organic Carbon)	1.1	1.0	mg/l	5310B	01/22/09	1038	162 01/22/09	1658 ADH
Dissolved Solids	110	10.	mg/l	2540C	01/21/09	1654	193 01/23/09	1427 AMS
Suspended Solids	2.5	1.0	mg/l	2540D	01/21/09	1655	193 01/22/09	0807 AMS
Antimony	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Arsenic	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Cadmium	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Beryllium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Chromium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Cobalt	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Copper	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Lead	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Nickel	0.0011	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Selenium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Silver	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Thallium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Zinc	BDL	0.010	mg/l	200.8	01/21/09	1659	117 01/23/09	0347 LRL
Mercury	BDL	0.00020	mg/l	245.1	01/21/09	2142	261 01/22/09	1126 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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L384525-01 (PH) - 7.8@18.2c



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

January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-122-20090121
Collected By :
Collection Date : 01/21/09 09:21

ESC Sample # : L384525-01

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	01/21/09	1652	117 01/22/09	1953 JBC
Barium	0.019	0.0050	mg/l	200.7	01/21/09	1652	117 01/22/09	1953 JBC
Calcium	30.	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09	1953 JBC
Iron	0.26	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09	1953 JBC
Magnesium	4.5	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09	1953 JBC
Manganese	0.043	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09	1953 JBC
Potassium	1.2	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09	1953 JBC
Sodium	2.0	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09	1953 JBC
Vanadium	BDL	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09	1953 JBC

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-123-20090121
Collected By :
Collection Date : 01/21/09 10:16

ESC Sample # : L384525-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.54	0.10	mg/l	300.0	01/21/09	1211	159 01/21/09	1943 MCH
Sulfate	14.	5.0	mg/l	300.0	01/21/09	1211	159 01/21/09	1943 MCH
Alkalinity	84.	20.	mg/l	2320B	01/20/09	1644	245 01/22/09	1500 NJM
COD	BDL	20.	mg/l	410.4	01/21/09	1645	234 01/22/09	1324 LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/22/09	1255	236 01/22/09	1505 LEM
pH	7.7		su	4500H-B	01/22/09	0713	183 01/22/09	1058 TWF
Nitrate-Nitrite	0.51	0.10	mg/l	353.2	01/22/09	1436	165 01/23/09	1241 LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	01/22/09	0340	78 01/22/09	1214 TLB
Phosphorus, Total	0.13	0.10	mg/l	365.1	01/22/09	1039	236 01/22/09	1534 LEM
Kjeldahl Nitrogen, TKN	0.48	0.10	mg/l	351.2	01/22/09	1423	236 01/23/09	1045 DTH
TOC (Total Organic Carbon)	1.0	1.0	mg/l	5310B	01/22/09	1038	162 01/22/09	1720 ADH
Dissolved Solids	140	10.	mg/l	2540C	01/21/09	1654	193 01/23/09	1427 AMS
Suspended Solids	1.9	1.0	mg/l	2540D	01/21/09	1655	193 01/22/09	0807 AMS
Antimony	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Arsenic	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Cadmium	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Beryllium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Chromium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Cobalt	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Copper	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Lead	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Nickel	0.0012	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Selenium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Silver	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Thallium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Zinc	BDL	0.010	mg/l	200.8	01/21/09	1659	117 01/23/09	0350 LRL
Mercury	BDL	0.00020	mg/l	245.1	01/21/09	2142	261 01/22/09	1134 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

January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-123-20090121
Collected By :
Collection Date : 01/21/09 10:16

ESC Sample # : L384525-02

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	01/21/09	1652	117 01/22/09 1957	JBC
Barium	0.020	0.0050	mg/l	200.7	01/21/09	1652	117 01/22/09 1957	JBC
Calcium	33.	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 1957	JBC
Iron	0.26	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 1957	JBC
Magnesium	4.8	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 1957	JBC
Manganese	0.051	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 1957	JBC
Potassium	0.98	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 1957	JBC
Sodium	1.5	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 1957	JBC
Vanadium	BDL	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 1957	JBC

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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L384525-02 (PH) - 7.7@17.9c



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January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-124-20090121
Collected By :
Collection Date : 01/21/09 10:04

ESC Sample # : L384525-03

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	01/21/09	1211	159 01/21/09	2016 MCH
Sulfate	14.	5.0	mg/l	300.0	01/21/09	1211	159 01/21/09	2016 MCH
Alkalinity	54.	20.	mg/l	2320B	01/20/09	1644	245 01/22/09	1500 NJM
COD	BDL	20.	mg/l	410.4	01/21/09	1645	234 01/22/09	1324 LLJ
Ammonia Nitrogen	0.14	0.10	mg/l	350.1	01/22/09	1255	236 01/22/09	1506 LEM
pH	7.8		su	4500H-B	01/22/09	0713	183 01/22/09	1058 TWF
Nitrate-Nitrite	0.37	0.10	mg/l	353.2	01/22/09	1436	165 01/23/09	1242 LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	01/22/09	0340	78 01/22/09	1212 TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/22/09	1039	236 01/22/09	1535 LEM
Kjeldahl Nitrogen, TKN	0.40	0.10	mg/l	351.2	01/22/09	1423	236 01/23/09	1046 DTH
TOC (Total Organic Carbon)	2.0	1.0	mg/l	5310B	01/22/09	1038	162 01/22/09	1732 ADH
Dissolved Solids	53.	10.	mg/l	2540C	01/21/09	1654	193 01/23/09	1428 AMS
Suspended Solids	5.6	1.0	mg/l	2540D	01/21/09	1655	193 01/22/09	0807 AMS
Antimony	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Arsenic	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Cadmium	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Beryllium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Chromium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Cobalt	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Copper	0.0019	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Lead	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Nickel	0.0012	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Selenium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Silver	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Thallium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Zinc	0.025	0.010	mg/l	200.8	01/21/09	1659	117 01/23/09	0353 LRL
Mercury	BDL	0.00020	mg/l	245.1	01/21/09	2142	261 01/22/09	1136 KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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L384525-03 (PH) - 7.8@18.0c



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

January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-124-20090121
Collected By :
Collection Date : 01/21/09 10:04

ESC Sample # : L384525-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.42	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2000	JBC
Barium	0.024	0.0050	mg/l	200.7	01/21/09	1652	117 01/22/09 2000	JBC
Calcium	18.	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2000	JBC
Iron	0.34	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2000	JBC
Magnesium	4.8	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2000	JBC
Manganese	0.038	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 2000	JBC
Potassium	1.9	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2000	JBC
Sodium	7.8	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2000	JBC
Vanadium	BDL	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 2000	JBC

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-125-20090121
Collected By :
Collection Date : 01/21/09 10:47

ESC Sample # : L384525-04

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	01/21/09	1211	159 01/21/09	2033 MCH
Sulfate	14.	5.0	mg/l	300.0	01/21/09	1211	159 01/21/09	2033 MCH
Alkalinity	56.	20.	mg/l	2320B	01/20/09	1644	245 01/22/09	1500 NJM
COD	BDL	20.	mg/l	410.4	01/21/09	1645	234 01/22/09	1324 LLJ
Ammonia Nitrogen	0.12	0.10	mg/l	350.1	01/22/09	1255	236 01/22/09	1507 LEM
pH	7.7		su	4500H-B	01/22/09	0713	183 01/22/09	1058 TWF
Nitrate-Nitrite	0.38	0.10	mg/l	353.2	01/22/09	1436	165 01/23/09	1243 LEM
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/22/09	1039	236 01/22/09	1536 LEM
Kjeldahl Nitrogen, TKN	0.39	0.10	mg/l	351.2	01/22/09	1423	236 01/23/09	1047 DTH
TOC (Total Organic Carbon)	1.8	1.0	mg/l	5310B	01/22/09	1038	162 01/22/09	1821 ADH
Dissolved Solids	100	10.	mg/l	2540C	01/21/09	1654	193 01/23/09	1427 AMS
Suspended Solids	5.2	1.0	mg/l	2540D	01/21/09	1655	193 01/22/09	0807 AMS
Antimony	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Arsenic	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Cadmium	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Beryllium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Chromium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Cobalt	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Copper	0.0012	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Lead	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Nickel	0.0010	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Selenium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Silver	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Thallium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Zinc	0.031	0.010	mg/l	200.8	01/21/09	1659	117 01/23/09	0356 LRL
Mercury	BDL	0.00020	mg/l	245.1	01/21/09	2142	261 01/22/09	1139 KBW
Aluminum	0.40	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09	2003 JBC
Barium	0.025	0.0050	mg/l	200.7	01/21/09	1652	117 01/22/09	2003 JBC

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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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 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-125-20090121
Collected By :
Collection Date : 01/21/09 10:47

ESC Sample # : L384525-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Calcium	18.	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2003	JBC
Iron	0.32	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2003	JBC
Magnesium	4.8	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2003	JBC
Manganese	0.036	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 2003	JBC
Potassium	1.8	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2003	JBC
Sodium	7.6	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2003	JBC
Vanadium	BDL	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 2003	JBC

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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Est. 1970

REPORT OF ANALYSIS

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

January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN 117-SW-126-20090121
Collected By :
Collection Date : 01/21/09 09:33

ESC Sample # : L384525-05

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	01/21/09	1211	159 01/21/09 2049	MCH
Sulfate	15.	5.0	mg/l	300.0	01/21/09	1211	159 01/21/09 2049	MCH
Alkalinity	56.	20.	mg/l	2320B	01/20/09	1644	245 01/22/09 1500	NJM
COD	BDL	20.	mg/l	410.4	01/21/09	1645	234 01/22/09 1325	LLJ
Ammonia Nitrogen	0.14	0.10	mg/l	350.1	01/22/09	1255	236 01/22/09 1508	LEM
pH	7.7		su	4500H-B	01/22/09	0713	183 01/22/09 1058	TWF
Nitrate-Nitrite	0.38	0.10	mg/l	353.2	01/22/09	1436	165 01/23/09 1244	LEM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	01/22/09	0340	78 01/22/09 1220	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/22/09	1039	236 01/22/09 1537	LEM
Kjeldahl Nitrogen, TKN	0.62	0.10	mg/l	351.2	01/22/09	1423	236 01/23/09 1048	DTH
TOC (Total Organic Carbon)	2.1	1.0	mg/l	5310B	01/22/09	1038	162 01/22/09 1833	ADH
Dissolved Solids	41.	10.	mg/l	2540C	01/21/09	1654	193 01/23/09 1428	AMS
Suspended Solids	5.4	1.0	mg/l	2540D	01/21/09	1655	193 01/22/09 0807	AMS
Antimony	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Arsenic	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Cadmium	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Beryllium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Chromium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Cobalt	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Copper	0.0013	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Lead	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Nickel	0.0010	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Selenium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Silver	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Thallium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Zinc	BDL	0.010	mg/l	200.8	01/21/09	1659	117 01/23/09 0415	LRL
Mercury	BDL	0.00020	mg/l	245.1	01/21/09	2142	261 01/22/09 1141	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

January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN 117-SW-126-20090121
Collected By :
Collection Date : 01/21/09 09:33

ESC Sample # : L384525-05

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	01/21/09	1652	117 01/22/09 2007	JBC
Barium	0.024	0.0050	mg/l	200.7	01/21/09	1652	117 01/22/09 2007	JBC
Calcium	18.	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2007	JBC
Iron	0.32	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2007	JBC
Magnesium	4.8	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2007	JBC
Manganese	0.036	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 2007	JBC
Potassium	1.9	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2007	JBC
Sodium	8.2	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2007	JBC
Vanadium	BDL	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 2007	JBC

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 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-127-20090121
Collected By :
Collection Date : 01/21/09 10:33

ESC Sample # : L384525-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.44	0.10	mg/l	300.0	01/21/09	1211	159 01/21/09 2105	MCH
Sulfate	15.	5.0	mg/l	300.0	01/21/09	1211	159 01/21/09 2105	MCH
Alkalinity	60.	20.	mg/l	2320B	01/20/09	1644	245 01/22/09 1500	NJM
COD	BDL	20.	mg/l	410.4	01/21/09	1645	234 01/22/09 1325	LLJ
Ammonia Nitrogen	0.19	0.10	mg/l	350.1	01/22/09	1255	236 01/22/09 1509	LEM
pH	7.9		su	4500H-B	01/22/09	0713	183 01/22/09 1058	TWF
Nitrate-Nitrite	0.38	0.10	mg/l	353.2	01/22/09	1436	165 01/23/09 1247	LEM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	01/22/09	0340	78 01/22/09 1212	TLB
Phosphorus, Total	0.31	0.10	mg/l	365.1	01/22/09	1039	236 01/22/09 1539	LEM
Kjeldahl Nitrogen, TKN	0.44	0.10	mg/l	351.2	01/22/09	1423	236 01/23/09 1049	DTH
TOC (Total Organic Carbon)	1.8	1.0	mg/l	5310B	01/22/09	1038	162 01/22/09 1847	ADH
Dissolved Solids	62.	10.	mg/l	2540C	01/21/09	1654	193 01/23/09 1428	AMS
Suspended Solids	12.	1.0	mg/l	2540D	01/21/09	1655	193 01/22/09 0807	AMS
Antimony	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Arsenic	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Cadmium	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Beryllium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Chromium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Cobalt	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Copper	0.0013	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Lead	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Nickel	0.0014	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Selenium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Silver	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Thallium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Zinc	BDL	0.010	mg/l	200.8	01/21/09	1659	117 01/23/09 0418	LRL
Mercury	BDL	0.00020	mg/l	245.1	01/21/09	2142	261 01/22/09 1144	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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Est. 1970

REPORT OF ANALYSIS

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

January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-127-20090121
Collected By :
Collection Date : 01/21/09 10:33

ESC Sample # : L384525-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.76	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 1910	JBC
Barium	0.027	0.0050	mg/l	200.7	01/21/09	1652	117 01/22/09 1910	JBC
Calcium	22.	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 1910	JBC
Iron	0.68	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 1910	JBC
Magnesium	4.8	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 1910	JBC
Manganese	0.060	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 1910	JBC
Potassium	1.8	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 1910	JBC
Sodium	6.8	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 1910	JBC
Vanadium	BDL	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 1910	JBC

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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REPORT OF ANALYSIS

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

January 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-128-20090121
Collected By :
Collection Date : 01/21/09 10:26

ESC Sample # : L384525-07

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	01/21/09	1211	159 01/21/09	2122 MCH
Sulfate	16.	5.0	mg/l	300.0	01/21/09	1211	159 01/21/09	2122 MCH
Alkalinity	61.	20.	mg/l	2320B	01/20/09	1644	245 01/22/09	1500 NJM
COD	BDL	20.	mg/l	410.4	01/21/09	1645	234 01/22/09	1325 LLJ
Ammonia Nitrogen	0.70	0.10	mg/l	350.1	01/22/09	1255	236 01/22/09	1510 LEM
pH	7.9		su	4500H-B	01/22/09	0713	183 01/22/09	1058 TWF
Nitrate-Nitrite	0.41	0.10	mg/l	353.2	01/22/09	1436	165 01/23/09	1249 LEM
Oil & Grease (Hexane Extr)	BDL	5.3	mg/l	1664A	01/22/09	0340	78 01/22/09	1220 TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/22/09	1039	236 01/22/09	1540 LEM
Kjeldahl Nitrogen, TKN	0.36	0.10	mg/l	351.2	01/22/09	1423	236 01/23/09	1050 DTH
TOC (Total Organic Carbon)	1.7	1.0	mg/l	5310B	01/22/09	1038	162 01/22/09	1858 ADH
Dissolved Solids	110	10.	mg/l	2540C	01/21/09	1654	193 01/23/09	1428 AMS
Suspended Solids	12.	1.0	mg/l	2540D	01/21/09	1655	193 01/22/09	0807 AMS
Antimony	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Arsenic	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Cadmium	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Beryllium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Chromium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Cobalt	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Copper	0.0012	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Lead	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Nickel	0.0014	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Selenium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Silver	BDL	0.00050	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Thallium	BDL	0.0010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Zinc	BDL	0.010	mg/l	200.8	01/21/09	1659	117 01/23/09	0421 LRL
Mercury	BDL	0.00020	mg/l	245.1	01/21/09	2142	261 01/22/09	1146 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:

The reported analytical results relate only to the sample submitted
This report shall not be reproduced, except in full, without the written approval from ESC.
L384525-07 (PH) - 7.9@19.5c



**ENVIRONMENTAL
SCIENCE CORP.**

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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 23, 2009

Date Received : 01/21/09 15:20
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-128-20090121
Collected By :
Collection Date : 01/21/09 10:26

ESC Sample # : L384525-07

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.62	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2010	JBC
Barium	0.026	0.0050	mg/l	200.7	01/21/09	1652	117 01/22/09 2010	JBC
Calcium	22.	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2010	JBC
Iron	0.58	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2010	JBC
Magnesium	4.8	0.10	mg/l	200.7	01/21/09	1652	117 01/22/09 2010	JBC
Manganese	0.055	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 2010	JBC
Potassium	1.7	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2010	JBC
Sodium	6.0	0.50	mg/l	200.7	01/21/09	1652	117 01/22/09 2010	JBC
Vanadium	BDL	0.010	mg/l	200.7	01/21/09	1652	117 01/22/09 2010	JBC

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

Notes:

The reported analytical results relate only to the sample submitted
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Reported: 01/23/09 14:53 Printed: 01/23/09 15:22

L384525-07 (PH) - 7.9@19.5c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L384525-01	WG403666	SAMP	pH	R602485	T8
L384525-02	WG403666	SAMP	pH	R602485	T8
L384525-03	WG403666	SAMP	pH	R602485	T8
L384525-04	WG403666	SAMP	pH	R602485	T8
L384525-05	WG403666	SAMP	pH	R602485	T8
L384525-06	WG403624	SAMP	Suspended Solids	R603565	J3
	WG403666	SAMP	pH	R602485	T8
L384525-07	WG403666	SAMP	pH	R602485	T8
	WG403632	SAMP	Antimony	R602985	P1
	WG403632	SAMP	Copper	R602985	P1
	WG403632	SAMP	Silver	R602985	P1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
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
01/23/09 at 15:22:01

TSR Signing Reports: 400
R2 - Rush: Next Day

Must have cooler receipt form-LC

Sample: L384525-01 Account: TVAWCF Received: 01/21/09 15:20 Due Date: 01/23/09 00:00 RPT Date: 01/23/09 14:53

Sample: L384525-02 Account: TVAWCF Received: 01/21/09 15:20 Due Date: 01/23/09 00:00 RPT Date: 01/23/09 14:53

Sample: L384525-03 Account: TVAWCF Received: 01/21/09 15:20 Due Date: 01/23/09 00:00 RPT Date: 01/23/09 14:53

Sample: L384525-04 Account: TVAWCF Received: 01/21/09 15:20 Due Date: 01/23/09 00:00 RPT Date: 01/23/09 14:53

Sample: L384525-05 Account: TVAWCF Received: 01/21/09 15:20 Due Date: 01/23/09 00:00 RPT Date: 01/23/09 14:53

Sample: L384525-06 Account: TVAWCF Received: 01/21/09 15:20 Due Date: 01/23/09 00:00 RPT Date: 01/23/09 14:53

Sample: L384525-07 Account: TVAWCF Received: 01/21/09 15:20 Due Date: 01/23/09 00:00 RPT Date: 01/23/09 14:53