



**STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL
Lab Services - Jackson Regional Lab
Jackson, TN 38301
731-426-0686

TDH: Lab Services KRL
Lab Services - Knoxville Regional Lab
Knoxville, TN 37920
865-549-5201

TDH: Lab Services NCL
Lab Services - Nashville Central Lab
Nashville, TN 37243
615-262-6300

Sent To: Greg Denton
TDEC-WPC
6th Floor, L & C Tower Annex
401 Church Street
Nashville, TN 37243-1534

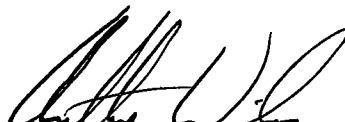
Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002704
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.



Analytical Supervisor

Lab-Sample Number: K00002704001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA ash spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 08/06/2009 11:57
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.59 pH Units
Chlorine, residual:
Conductivity: 76 uMHO
Temperature: 24.54
Dissolved Oxygen: 8.47 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	08/10/2009				W Frye	8/10/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	300	µg/L	2.9	10	S Ufegbu	8/13/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	92	µg/L	6.4	10	M Pattanayek	8/11/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	8/12/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	8/12/2009
Barium	24	µg/L	2.5	5	M Pattanayek	8/11/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	8/11/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	8/11/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	8/12/2009
Cobalt	0.20J	µg/L	0.04	1	M Pattanayek	8/11/2009
Copper	1.4	µg/L	0.38	1	M Pattanayek	8/11/2009
Lead	0.25J	µg/L	0.10	1	M Pattanayek	8/11/2009
Manganese	38	µg/L	0.42	1	M Pattanayek	8/11/2009
Nickel	0.94J	µg/L	0.25	1	M Pattanayek	8/11/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	8/11/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	8/11/2009
Thallium	0.032J	µg/L	0.03	1	M Pattanayek	8/11/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	8/11/2009
Zinc	3.6J	µg/L	1.9	5	M Pattanayek	8/11/2009

Lab-Sample Number: K00002704001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA ash spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 08/06/2009 11:57
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations

pH: 7.59 pH Units
Chlorine, residual:
Conductivity: 76 uMHO
Temperature: 24.54
Dissolved Oxygen: 8.47 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.05J	µg/L	0.029	0.2	A Bass	8/11/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002704002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA ash spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 08/06/2009 10:01
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.33 pH Units
Chlorine, residual:
Conductivity: 106 uMHO
Temperature: 24.93
Dissolved Oxygen: 8.34 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	08/10/2009				W Frye	8/10/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	280	µg/L	2.9	10	S Ufegbu	8/13/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	210	µg/L	6.4	10	M Pattanayek	8/12/2009
Antimony	0.51J	µg/L	0.33	1	M Pattanayek	8/12/2009
Arsenic	3.5J	µg/L	0.93	5	M Pattanayek	8/12/2009
Barium	35	µg/L	2.5	5	M Pattanayek	8/11/2009
Beryllium	0.14J	µg/L	0.11	1	M Pattanayek	8/11/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	8/11/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	8/12/2009
Cobalt	0.34J	µg/L	0.04	1	M Pattanayek	8/11/2009
Copper	1.1	µg/L	0.38	1	M Pattanayek	8/11/2009
Lead	0.15J	µg/L	0.10	1	M Pattanayek	8/11/2009
Manganese	54	µg/L	0.42	1	M Pattanayek	8/11/2009
Nickel	1.2	µg/L	0.25	1	M Pattanayek	8/11/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	8/11/2009
Silver	0.030J	µg/L	0.03	0.25	M Pattanayek	8/11/2009
Thallium	0.45J	µg/L	0.03	1	M Pattanayek	8/11/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	8/11/2009
Zinc	3.4J	µg/L	1.9	5	M Pattanayek	8/11/2009

Lab-Sample Number: K00002704002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA ash spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 08/06/2009 10:01
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.33 pH Units
Chlorine, residual:
Conductivity: 106 uMHO
Temperature: 24.93
Dissolved Oxygen: 8.34 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Bass	8/11/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002704003
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA ash spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 08/06/2009 10:17
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.18 pH Units
Chlorine, residual:
Conductivity: 93 uMHO
Temperature: 24.43
Dissolved Oxygen: 7.67 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	08/10/2009				W Frye	8/10/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	240	µg/L	2.9	10	S Ufegbu	8/13/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	180	µg/L	6.4	10	M Pattanayek	8/11/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	8/12/2009
Arsenic	2.7J	µg/L	0.93	5	M Pattanayek	8/12/2009
Barium	37	µg/L	2.5	5	M Pattanayek	8/11/2009
Beryllium	0.17J	µg/L	0.11	1	M Pattanayek	8/11/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	8/11/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	8/12/2009
Cobalt	0.39J	µg/L	0.04	1	M Pattanayek	8/11/2009
Copper	3.5	µg/L	0.38	1	M Pattanayek	8/11/2009
Lead	0.52J	µg/L	0.10	1	M Pattanayek	8/11/2009
Manganese	74	µg/L	0.42	1	M Pattanayek	8/11/2009
Nickel	1.3	µg/L	0.25	1	M Pattanayek	8/11/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	8/11/2009
Silver	0.13J	µg/L	0.03	0.25	M Pattanayek	8/11/2009
Thallium	0.19J	µg/L	0.03	1	M Pattanayek	8/11/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	8/11/2009
Zinc	4.5J	µg/L	1.9	5	M Pattanayek	8/11/2009

Lab-Sample Number: K00002704003
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA ash spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 08/06/2009 10:17
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.18 pH Units
Chlorine, residual:
Conductivity: 93 uMHO
Temperature: 24.43
Dissolved Oxygen: 7.67 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MLQ	ANALYZED BY:	DATE
Mercury	0.06J	µg/L	0.029	0.2	A Bass	8/11/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002704004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA ash spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 08/06/2009 10:31
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations

pH: 7.16 pH Units
Chlorine, residual:
Conductivity: 110 uMHO
Temperature: 24.30
Dissolved Oxygen: 7.28 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	08/10/2009				W Frye	8/10/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	210	µg/L	2.9	10	S Ufegbu	8/13/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	130	µg/L	6.4	10	M Pattanayek	8/11/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	8/12/2009
Arsenic	1.2J	µg/L	0.93	5	M Pattanayek	8/12/2009
Barium	34	µg/L	2.5	5	M Pattanayek	8/11/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	8/11/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	8/11/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	8/12/2009
Cobalt	0.24J	µg/L	0.04	1	M Pattanayek	8/11/2009
Copper	1.5	µg/L	0.38	1	M Pattanayek	8/11/2009
Lead	0.30J	µg/L	0.10	1	M Pattanayek	8/11/2009
Manganese	60	µg/L	0.42	1	M Pattanayek	8/11/2009
Nickel	1.0	µg/L	0.25	1	M Pattanayek	8/11/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	8/11/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	8/11/2009
Thallium	0.065J	µg/L	0.03	1	M Pattanayek	8/11/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	8/11/2009
Zinc	4.4J	µg/L	1.9	5	M Pattanayek	8/11/2009

Lab-Sample Number: K00002704004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA ash spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 08/06/2009 10:31
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.16 pH Units
Chlorine, residual:
Conductivity: 110 uMHO
Temperature: 24.30
Dissolved Oxygen: 7.28 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1					
ANALYTE	RESULT	UNITS	MDL	MLQ	ANALYZED BY:	DATE	
Mercury	0.04J	µg/L	0.029	0.2	A Bass	8/11/2009	

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002704005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA ash spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 08/06/2009 10:43
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations

pH: 7.24 pH Units
Chlorine, residual:
Conductivity: 110 uMHO
Temperature: 24.69
Dissolved Oxygen: 7.61 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	08/10/2009				W Frye	8/10/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	170	µg/L	2.9	10	S Ufegbu	8/13/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	180	µg/L	6.4	10	M Pattanayek	8/11/2009
Antimony	0.79J	µg/L	0.33	1	M Pattanayek	8/12/2009
Arsenic	1.3J	µg/L	0.93	5	M Pattanayek	8/12/2009
Barium	49	µg/L	2.5	5	M Pattanayek	8/11/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	8/11/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	8/11/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	8/12/2009
Cobalt	0.34J	µg/L	0.04	1	M Pattanayek	8/11/2009
Copper	1.9	µg/L	0.38	1	M Pattanayek	8/11/2009
Lead	0.43J	µg/L	0.10	1	M Pattanayek	8/11/2009
Manganese	71	µg/L	0.42	1	M Pattanayek	8/11/2009
Nickel	1.6	µg/L	0.25	1	M Pattanayek	8/11/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	8/11/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	8/11/2009
Thallium	0.075J	µg/L	0.03	1	M Pattanayek	8/11/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	8/11/2009
Zinc	13	µg/L	1.9	5	M Pattanayek	8/11/2009

Lab-Sample Number: K00002704005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA ash spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 08/06/2009 10:43
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.24 pH Units
Chlorine, residual:
Conductivity: 110 uMHO
Temperature: 24.69
Dissolved Oxygen: 7.61 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Bass	8/11/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002704006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA ash spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 08/06/2009 10:58
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.92 pH Units
Chlorine, residual:
Conductivity: 176 uMHO
Temperature: 27.00
Dissolved Oxygen: 8.78 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	08/10/2009				W Frye	8/10/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	110	µg/L	2.9	10	S Ufegbu	8/13/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	92	µg/L	6.4	10	M Pattanayek	8/11/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	8/12/2009
Arsenic	1.7J	µg/L	0.93	5	M Pattanayek	8/12/2009
Barium	35	µg/L	2.5	5	M Pattanayek	8/11/2009
Beryllium	0.39J	µg/L	0.11	1	M Pattanayek	8/11/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	8/11/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	8/12/2009
Cobalt	0.17J	µg/L	0.04	1	M Pattanayek	8/11/2009
Copper	2.5	µg/L	0.38	1	M Pattanayek	8/11/2009
Lead	0.22J	µg/L	0.10	1	M Pattanayek	8/11/2009
Manganese	33	µg/L	0.42	1	M Pattanayek	8/11/2009
Nickel	1.0	µg/L	0.25	1	M Pattanayek	8/11/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	8/11/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	8/11/2009
Thallium	0.058J	µg/L	0.03	1	M Pattanayek	8/11/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	8/11/2009
Zinc	4.0J	µg/L	1.9	5	M Pattanayek	8/11/2009

Lab-Sample Number: K00002704006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA ash spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 08/06/2009 10:58
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.92 pH Units
Chlorine, residual:
Conductivity: 176 uMHO
Temperature: 27.00
Dissolved Oxygen: 8.78 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.04J	µg/L	0.029	0.2	A Bass	8/11/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002704007
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA ash spill
Project Site No.: 5A
Station No.: KingAshOutF2
Date/Time Collected: 08/06/2009 11:12
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.48 pH Units
Chlorine, residual:
Conductivity: 199 uMHO
Temperature: 27.63
Dissolved Oxygen: 6.90 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Digestion Metals	08/10/2009				W Frye	8/10/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Iron	230	µg/L	2.9	10	S Ufegbu	8/13/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Aluminum	200	µg/L	6.4	10	M Pattanayek	8/12/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	8/12/2009
Arsenic	2.9J	µg/L	0.93	5	M Pattanayek	8/12/2009
Barium	47	µg/L	2.5	5	M Pattanayek	8/11/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	8/11/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	8/11/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	8/12/2009
Cobalt	0.31J	µg/L	0.04	1	M Pattanayek	8/11/2009
Copper	6.0	µg/L	0.38	1	M Pattanayek	8/11/2009
Lead	0.43J	µg/L	0.10	1	M Pattanayek	8/11/2009
Manganese	60	µg/L	0.42	1	M Pattanayek	8/11/2009
Nickel	1.3	µg/L	0.25	1	M Pattanayek	8/11/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	8/11/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	8/11/2009
Thallium	0.077J	µg/L	0.03	1	M Pattanayek	8/11/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	8/11/2009
Zinc	4.7J	µg/L	1.9	5	M Pattanayek	8/11/2009

Lab-Sample Number: K00002704007
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA ash spill
Project Site No.: 5A
Station No.: KingAshOutF2
Date/Time Collected: 08/06/2009 11:12
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.48 pH Units
Chlorine, residual:
Conductivity: 199 uMHO
Temperature: 27.63
Dissolved Oxygen: 6.90 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MLQ	ANALYZED BY:	DATE
Mercury	0.03J	µg/L	0.029	0.2	A Bass	8/11/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002704008
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 4.5 near Sugar Grove Valley R
Sampler Project Name: TVA ash spill
Project Site No.: 6
Station No.: CLINC004.5RO
Date/Time Collected: 08/06/2009 11:25
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.40 pH Units
Chlorine, residual:
Conductivity: 153 uMHO
Temperature: 24.09
Dissolved Oxygen: 7.63 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Digestion Metals	08/10/2009				W Frye	8/10/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Iron	150	µg/L	2.9	10	S Ufegbu	8/13/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Aluminum	96	µg/L	6.4	10	M Pattanayek	8/11/2009
Antimony	0.36J	µg/L	0.33	1	M Pattanayek	8/12/2009
Arsenic	2.1J	µg/L	0.93	5	M Pattanayek	8/12/2009
Barium	33	µg/L	2.5	5	M Pattanayek	8/11/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	8/11/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	8/11/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	8/12/2009
Cobalt	0.19J	µg/L	0.04	1	M Pattanayek	8/11/2009
Copper	1.3	µg/L	0.38	1	M Pattanayek	8/11/2009
Lead	0.31J	µg/L	0.10	1	M Pattanayek	8/11/2009
Manganese	41	µg/L	0.42	1	M Pattanayek	8/11/2009
Nickel	1.1	µg/L	0.25	1	M Pattanayek	8/11/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	8/11/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	8/11/2009
Thallium	0.044J	µg/L	0.03	1	M Pattanayek	8/11/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	8/11/2009
Zinc	2.4J	µg/L	1.9	5	M Pattanayek	8/11/2009

Lab-Sample Number:	K00002704008	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.40 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA ash spill	Conductivity:	153 uMHO
Project Site No.:	6	Temperature:	24.09
Station No.:	CLINC004.5RO	Dissolved Oxygen:	7.63 mg/L
Date/Time Collected:	08/06/2009 11:25	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:	08/16/2009		
Date/Time Received:	08/06/2009 13:35		
Received By:	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.04J	µg/L	0.029	0.2	A Bass	8/11/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected



**STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL
Lab Services - Jackson Regional Lab
Jackson, TN 38301
731-426-0686

TDH: Lab Services KRL
Lab Services - Knoxville Regional Lab
Knoxville, TN 37920
865-549-5201

TDH: Lab Services NCL
Lab Services - Nashville Central Lab
Nashville, TN 37243
615-262-6300

Sent To: Greg Denton
TDEC-WPC
6th Floor, L & C Tower Annex
401 Church Street
Nashville, TN 37243-1534

Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002704
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.


Analytical Supervisor

Lab-Sample Number: K00002704001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA ash spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 08/06/2009 11:57
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.59 pH Units
Chlorine, residual:
Conductivity: 76 uMHO
Temperature: 24.54
Dissolved Oxygen: 8.47 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	19	mg/L	3.8	10	M Chen	8/11/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	29	mg/L	0.7	1	M Chen	8/11/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	8/7/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	8/7/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002704002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA ash spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 08/06/2009 10:01
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.33 pH Units
Chlorine, residual:
Conductivity: 106 uMHO
Temperature: 24.93
Dissolved Oxygen: 8.34 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	32	mg/L	3.8	10	M Chen	8/11/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	29	mg/L	0.7	1	M Chen	8/11/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	8/7/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	23	mg/L	10	10	A Peebles	8/7/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002704003
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA ash spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 08/06/2009 10:17
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.18 pH Units
Chlorine, residual:
Conductivity: 93 uMHO
Temperature: 24.43
Dissolved Oxygen: 7.67 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	74	mg/L	3.8	10	M Chen	8/11/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	61	mg/L	0.7	1	M Chen	8/11/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	8/7/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	14	mg/L	10	10	A Peebles	8/7/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002704004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA ash spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 08/06/2009 10:31
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.16 pH Units
Chlorine, residual:
Conductivity: 110 uMHO
Temperature: 24.30
Dissolved Oxygen: 7.28 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	71	mg/L	3.8	10	M Chen	8/11/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	64	mg/L	0.7	1	M Chen	8/11/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	8/7/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	8/7/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002704005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA ash spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 08/06/2009 10:43
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.24 pH Units
Chlorine, residual:
Conductivity: 110 uMHO
Temperature: 24.69
Dissolved Oxygen: 7.61 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	74	mg/L	3.8	10	M Chen	8/11/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	68	mg/L	0.7	1	M Chen	8/11/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	8/7/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	28	mg/L	10	10	A Peoples	8/7/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002704006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA ash spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 08/06/2009 10:58
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.92 pH Units
Chlorine, residual:
Conductivity: 176 uMHO
Temperature: 27.00
Dissolved Oxygen: 8.78 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	75	mg/L	3.8	10	M Chen	8/11/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	60	mg/L	0.7	1	M Chen	8/11/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	8/7/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	8/7/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002704007
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA ash spill
Project Site No.: 5A
Station No.: KingAshOutF2
Date/Time Collected: 08/06/2009 11:12
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.48 pH Units
Chlorine, residual:
Conductivity: 199 uMHO
Temperature: 27.63
Dissolved Oxygen: 6.90 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	68	mg/L	3.8	10	M Chen	8/11/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	60	mg/L	0.7	1	M Chen	8/11/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	8/7/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	15	mg/L	10	10	A Peebles	8/7/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002704008
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 4.5 near Sugar Grove Valley R
Sampler Project Name: TVA ash spill
Project Site No.: 6
Station No.: CLINC004.5RO
Date/Time Collected: 08/06/2009 11:25
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date: 08/16/2009
Date/Time Received: 08/06/2009 13:35
Received By: Ken Hitchman

Field Determinations
pH: 7.40 pH Units
Chlorine, residual:
Conductivity: 153 uMHO
Temperature: 24.09
Dissolved Oxygen: 7.63 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	78	mg/L	3.8	10	M Chen	8/11/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	64	mg/L	0.7	1	M Chen	8/11/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	8/7/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peoples	8/7/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected