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: Steve Roberts
TDEC-DWS
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002079
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Supply

Billing Code: 327.39-12

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

Analytical Supervisor

Lab-Sample Number:	K00002079001	**Field Determinations**	
Project Name:		**pH:**	
Sample Description:	Finished	**Chlorine, residual:**	
Sampler Project Name:		**Conductivity:**	
Project Site No.:	Kingston WTP	**Temperature:**	
Station No.:		**Dissolved Oxygen:**	
Date/Time Collected:	12/23/2008 13:15	**Other:**	
Sampler's Name:	Steve Mauney	**Flow:**	CFS
County:	ROANE - 73		
Sample Matrix:	Drinking Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-DWS		
Billing Code:	327.39-12		
Send Report To:	TDEC-DWS		
Agency Invoiced:	TDEC-DWS		
Priority Date:			
Date/Time Received:	12/23/2008 14:40		
Received By:	E McCrary		

TEST: Digestion Metals — **METHOD: EPA 200.2**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	12/30/2008				A Bass	12/30/2008

TEST: ICP — **METHOD: EPA 200.7**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	U	µg/L	2.9	10	A Bass	12/30/2008
Sodium	13	mg/L	0.027	0.10	A Bass	12/30/2008

TEST: ICP-MS — **METHOD: EPA 200.8**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	24	µg/L	6.4	10	M Pattanayek	12/30/2008
Antimony	U	µg/L	0.33	1	M Pattanayek	12/30/2008
Arsenic	U	µg/L	0.93	5	M Pattanayek	12/30/2008
Barium	19	µg/L	2.5	5	M Pattanayek	12/30/2008
Beryllium	U	µg/L	0.11	1	M Pattanayek	12/30/2008
Cadmium	U	µg/L	0.41	1	M Pattanayek	12/30/2008
Chromium	U	µg/L	2.0	5	M Pattanayek	12/30/2008
Copper	5.5	µg/L	0.38	1	M Pattanayek	12/30/2008
Lead	U	µg/L	0.10	1	M Pattanayek	12/30/2008
Manganese	0.74J	µg/L	0.42	1	M Pattanayek	12/30/2008
Nickel	U	µg/L	0.25	1	M Pattanayek	12/30/2008
Silver	U	µg/L	0.03	0.25	M Pattanayek	12/30/2008
Thallium	0.88J	µg/L	0.03	1	M Pattanayek	12/30/2008
Zinc	5.4	µg/L	1.9	5	M Pattanayek	12/30/2008

TEST: Mercury — **METHOD: EPA 245.1**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	12/30/2008

Lab-Sample Number:	K00002079001	**Field Determinations**	
Project Name:		**pH:**	
Sample Description:	Finished	**Chlorine, residual:**	
Sampler Project Name:		**Conductivity:**	
Project Site No.:	Kingston WTP	**Temperature:**	
Station No.:		**Dissolved Oxygen:**	
Date/Time Collected:	12/23/2008 13:15	**Other:**	
Sampler's Name:	Steve Mauney	**Flow:**	CFS
County:	ROANE - 73		
Sample Matrix:	Drinking Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-DWS		
Billing Code:	327.39-12		
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Received By:	E McCrary		

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

Lab-Sample Number:	K00002079002	**Field Determinations**	
Project Name:		**pH:**	
Sample Description:	Raw	**Chlorine, residual:**	
Sampler Project Name:		**Conductivity:**	
Project Site No.:	Kingston WTP	**Temperature:**	
Station No.:		**Dissolved Oxygen:**	
Date/Time Collected:	12/23/2008 13:15	**Other:**	
Sampler's Name:	Steve Mauney	**Flow:**	CFS
County:	ROANE - 73		
Sample Matrix:	Drinking Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-DWS		
Billing Code:	327.39-12		
Send Report To:	TDEC-DWS		
Agency Invoiced:	TDEC-DWS		
Priority Date:			
Date/Time Received:	12/23/2008 14:40		
Received By:	E McCrary		

TEST: Digestion Metals — **METHOD: EPA 200.2**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	12/30/2008				A Bass	12/30/2008

TEST: ICP — **METHOD: EPA 200.7**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	330	µg/L	2.9	10	A Bass	12/30/2008
Sodium	8.5	mg/L	0.027	0.10	A Bass	12/30/2008

TEST: ICP-MS — **METHOD: EPA 200.8**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	250	µg/L	6.4	10	M Pattanayek	12/30/2008
Antimony	U	µg/L	0.33	1	M Pattanayek	12/30/2008
Arsenic	U	µg/L	0.93	5	M Pattanayek	12/30/2008
Barium	21	µg/L	2.5	5	M Pattanayek	12/30/2008
Beryllium	U	µg/L	0.11	1	M Pattanayek	12/30/2008
Cadmium	U	µg/L	0.41	1	M Pattanayek	12/30/2008
Chromium	U	µg/L	2.0	5	M Pattanayek	12/30/2008
Copper	3.9	µg/L	0.38	1	M Pattanayek	12/30/2008
Lead	0.33J	µg/L	0.10	1	M Pattanayek	12/30/2008
Manganese	31	µg/L	0.42	1	M Pattanayek	12/30/2008
Nickel	U	µg/L	0.25	1	M Pattanayek	12/30/2008
Silver	0.03J	µg/L	0.03	0.25	M Pattanayek	12/30/2008
Thallium	0.15J	µg/L	0.03	1	M Pattanayek	12/30/2008
Zinc	60	µg/L	1.9	5	M Pattanayek	12/30/2008

TEST: Mercury — **METHOD: EPA 245.1**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	12/30/2008

Lab-Sample Number:	K00002079002	**Field Determinations**	
Project Name:		**pH:**	
Sample Description:	Raw	**Chlorine, residual:**	
Sampler Project Name:		**Conductivity:**	
Project Site No.:	Kingston WTP	**Temperature:**	
Station No.:		**Dissolved Oxygen:**	
Date/Time Collected:	12/23/2008 13:15	**Other:**	
Sampler's Name:	Steve Mauney	**Flow:**	CFS
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J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected