

Sample Number: 514723
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1030
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-800-869-1400
 Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved	<	107	pCi/L	02/17/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Uranium 235, Dissolved	<	13.6	pCi/L	02/17/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Thorium 234, Dissolved	<	165	pCi/L	02/17/12	901.1	
Thorium 234 CE, Dissolved		45.8	pCi/L	02/17/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Cesium 137, Dissolved	<	7.69	pCi/L	02/17/12	901.1	
Lead 212, Dissolved	<	14.3	pCi/L	02/17/12	901.1	
Lead 212 CE, Dissolved		4.22	pCi/L	02/17/12	901.1	
Lead 214, Dissolved	<	17.2	pCi/L	02/17/12	901.1	
Lead 214 CE, Dissolved		5.12	pCi/L	02/17/12	901.1	
Thallium 280, Dissolved	<	8.73	pCi/L	02/17/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Potassium 40, Dissolved	<	142	pCi/L	02/17/12	901.1	
Potassium 40 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Cobalt 60, Dissolved	<	8.34	pCi/L	02/17/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514723
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
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Report Date: 5/10/2012

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Report of Analysis by Radio Chemistry

EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S1-UAOC/DAVIDSON/HWY 70 BRIDGE; OK311310010010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.0

ANALYST'S COMMENTS:

(ND) None detected

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514724
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1400
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved	<	111	pCi/L	02/16/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Uranium 235, Dissolved	<	13.5	pCi/L	02/16/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Thorium 234, Dissolved	<	164	pCi/L	02/16/12	901.1	
Thorium 234 CE, Dissolved		48.8	pCi/L	02/16/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Cesium 137, Dissolved	<	8.30	pCi/L	02/16/12	901.1	
Lead 212, Dissolved	<	15.7	pCi/L	02/16/12	901.1	
Lead 212 CE, Dissolved		4.70	pCi/L	02/16/12	901.1	
Lead 214, Dissolved	<	17.6	pCi/L	02/16/12	901.1	
Lead 214 CE, Dissolved		5.26	pCi/L	02/16/12	901.1	
Thallium 280, Dissolved	<	8.72	pCi/L	02/16/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Potassium 40, Dissolved	<	137	pCi/L	02/16/12	901.1	
Potassium 40 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Cobalt 60, Dissolved	<	7.53	pCi/L	02/16/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514724
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1400
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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OKLAHOMA CITY
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Report of Analysis by Radio Chemistry

EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S2-UAOC/BURKBURNETT/I-44BRIDGE; OK 311310010010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.4

ANALYST'S COMMENTS:

(ND) None detected

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514725
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1624
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
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To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved	<	107	pCi/L	02/17/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Uranium 235, Dissolved	<	12.3	pCi/L	02/17/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Thorium 234, Dissolved	<	160	pCi/L	02/17/12	901.1	
Thorium 234 CE, Dissolved		47.1	pCi/L	02/17/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Cesium 137, Dissolved	<	7.95	pCi/L	02/17/12	901.1	
Lead 212, Dissolved	<	15.8	pCi/L	02/17/12	901.1	
Lead 212 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Lead 214, Dissolved	<	17.9	pCi/L	02/17/12	901.1	
Lead 214 CE, Dissolved		6.02	pCi/L	02/17/12	901.1	
Thallium 280, Dissolved	<	8.19	pCi/L	02/17/12	901.1	
Thallium 280 CE, Dissolved		2.48	pCi/L	02/17/12	901.1	
Potassium 40, Dissolved	<	146	pCi/L	02/17/12	901.1	
Potassium 40 CE, Dissolved		41.5	pCi/L	02/17/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/17/12	901.1	
Cobalt 60, Dissolved	<	8.19	pCi/L	02/17/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514725
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1624
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

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OKLAHOMA CITY
OKLAHOMA, 73102-6010
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Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S3-UAOC/DOWNSTREAM CACHE CREEK; OK311200000010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.3

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514726
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1545
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: HC
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved	<	110	pCi/L	02/16/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Uranium 235, Dissolved	<	13.4	pCi/L	02/16/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Thorium 234, Dissolved	<	158	pCi/L	02/16/12	901.1	
Thorium 234 CE, Dissolved		46.9	pCi/L	02/16/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Cesium 137, Dissolved	<	7.80	pCi/L	02/16/12	901.1	
Lead 212, Dissolved	<	14.0	pCi/L	02/16/12	901.1	
Lead 212 CE, Dissolved		3.40	pCi/L	02/16/12	901.1	
Lead 214, Dissolved	<	17.7	pCi/L	02/16/12	901.1	
Lead 214 CE, Dissolved		5.63	pCi/L	02/16/12	901.1	
Thallium 280, Dissolved	<	8.80	pCi/L	02/16/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Potassium 40, Dissolved	<	142	pCi/L	02/16/12	901.1	
Potassium 40 CE, Dissolved		39.9	pCi/L	02/16/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/16/12	901.1	
Cobalt 60, Dissolved	<	7.18	pCi/L	02/16/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514726
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1545
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S4-UAOC/HWY 79 BRIDGE; OK 311200000010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 2.8

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514727
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1313
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: HC
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved		< 109	pCi/L	02/18/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Uranium 235, Dissolved		< 13.7	pCi/L	02/18/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Thorium 234, Dissolved		< 164	pCi/L	02/18/12	901.1	
Thorium 234 CE, Dissolved		48.9	pCi/L	02/18/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Cesium 137, Dissolved		< 8.26	pCi/L	02/18/12	901.1	
Lead 212, Dissolved		< 16.1	pCi/L	02/18/12	901.1	
Lead 212 CE, Dissolved		4.80	pCi/L	02/18/12	901.1	
Lead 214, Dissolved		< 16.8	pCi/L	02/18/12	901.1	
Lead 214 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Thallium 280, Dissolved		< 7.64	pCi/L	02/18/12	901.1	
Thallium 280 CE, Dissolved		2.31	pCi/L	02/18/12	901.1	
Potassium 40, Dissolved		< 143	pCi/L	02/18/12	901.1	
Potassium 40 CE, Dissolved		40.6	pCi/L	02/18/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Cobalt 60, Dissolved		< 7.76	pCi/L	02/18/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514727
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1313
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

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Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrell March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S5-AOC/HWY 81 BRIDGE; OK311100010190_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.5

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Gary Goode

Gary Goode
State Environmental Laboratory

Sample Number: 514728
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 0947
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved		< 108	pCi/L	02/18/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Uranium 235, Dissolved		< 13.3	pCi/L	02/18/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Thorium 234, Dissolved		< 168	pCi/L	02/18/12	901.1	
Thorium 234 CE, Dissolved		50.0	pCi/L	02/18/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Cesium 137, Dissolved		< 7.95	pCi/L	02/18/12	901.1	
Lead 212, Dissolved		< 16.2	pCi/L	02/18/12	901.1	
Lead 212 CE, Dissolved		4.79	pCi/L	02/18/12	901.1	
Lead 214, Dissolved		< 17.4	pCi/L	02/18/12	901.1	
Lead 214 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Thallium 280, Dissolved		< 9.30	pCi/L	02/18/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Potassium 40, Dissolved		< 143	pCi/L	02/18/12	901.1	
Potassium 40 CE, Dissolved		40.7	pCi/L	02/18/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/18/12	901.1	
Cobalt 60, Dissolved		< 7.25	pCi/L	02/18/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514728
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 0947
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S8-DAOC/HWY 89 BRIDGE; OK311100010190_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.1

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514729
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1059
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
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 Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved		< 160	pCi/L	02/19/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Uranium 235, Dissolved		< 13.3	pCi/L	02/19/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Thorium 234, Dissolved		< 164	pCi/L	02/19/12	901.1	
Thorium 234 CE, Dissolved		49.1	pCi/L	02/19/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Cesium 137, Dissolved		< 8.24	pCi/L	02/19/12	901.1	
Lead 212, Dissolved		< 15.8	pCi/L	02/19/12	901.1	
Lead 212 CE, Dissolved		4.77	pCi/L	02/19/12	901.1	
Lead 214, Dissolved		< 17.4	pCi/L	02/19/12	901.1	
Lead 214 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Thallium 280, Dissolved		< 8.83	pCi/L	02/19/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Potassium 40, Dissolved		< 143	pCi/L	02/19/12	901.1	
Potassium 40 CE, Dissolved		40.4	pCi/L	02/19/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Cobalt 60, Dissolved		< 7.93	pCi/L	02/19/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514729
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1059
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S7-AOC/DOWNSTREAM OF RED CREEK;OK3111100010190_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.0

ANALYST'S COMMENTS:

(ND) None detected

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514730
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1330
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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 OKLAHOMA, 73102-6010
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 Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved	<	111	pCi/L	02/19/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Uranium 235, Dissolved	<	13.4	pCi/L	02/19/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Thorium 234, Dissolved	<	143	pCi/L	02/19/12	901.1	
Thorium 234 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Cesium 137, Dissolved	<	7.67	pCi/L	02/19/12	901.1	
Lead 212, Dissolved	<	14.6	pCi/L	02/19/12	901.1	
Lead 212 CE, Dissolved		4.30	pCi/L	02/19/12	901.1	
Lead 214, Dissolved	<	18.2	pCi/L	02/19/12	901.1	
Lead 214 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Thallium 280, Dissolved	<	7.88	pCi/L	02/19/12	901.1	
Thallium 280 CE, Dissolved		2.41	pCi/L	02/19/12	901.1	
Potassium 40, Dissolved	<	144	pCi/L	02/19/12	901.1	
Potassium 40 CE, Dissolved		41.1	pCi/L	02/19/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/19/12	901.1	
Cobalt 60, Dissolved	<	7.98	pCi/L	02/19/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514730
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1330
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6-AOC-1/KETCHUM'S BLUFF;OK311100010190_20;1 FT FROM SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 4.5

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514731
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1335
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
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EPA Drinking Water Certification #OK00013

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved	<	111	pCi/L	02/20/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Uranium 235, Dissolved	<	14.1	pCi/L	02/20/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Thorium 234, Dissolved	<	162	pCi/L	02/20/12	901.1	
Thorium 234 CE, Dissolved		47.3	pCi/L	02/20/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Cesium 137, Dissolved	<	8.16	pCi/L	02/20/12	901.1	
Lead 212, Dissolved	<	15.6	pCi/L	02/20/12	901.1	
Lead 212 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Lead 214, Dissolved	<	18.2	pCi/L	02/20/12	901.1	
Lead 214 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Thallium 280, Dissolved	<	7.13	pCi/L	02/20/12	901.1	
Thallium 280 CE, Dissolved		2.08	pCi/L	02/20/12	901.1	
Potassium 40, Dissolved	<	152	pCi/L	02/20/12	901.1	
Potassium 40 CE, Dissolved		42.7	pCi/L	02/20/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Cobalt 60, Dissolved	<	8.77	pCi/L	02/20/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514731
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1335
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
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Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:
S6AOC-2/KETCHUMS BLUFF;OK311100010190_20; 4 FT BELOW SURFACE

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 2.4

ANALYST'S COMMENTS:
(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514732
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1340
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
 General Inquiries: 1-800-869-1400
 Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved	<	113	pCi/L	02/20/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Uranium 235, Dissolved	<	13.7	pCi/L	02/20/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Thorium 234, Dissolved	<	164	pCi/L	02/20/12	901.1	
Thorium 234 CE, Dissolved		49.4	pCi/L	02/20/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Cesium 137, Dissolved	<	8.10	pCi/L	02/20/12	901.1	
Lead 212, Dissolved	<	15.9	pCi/L	02/20/12	901.1	
Lead 212 CE, Dissolved		4.71	pCi/L	02/20/12	901.1	
Lead 214, Dissolved	<	17.8	pCi/L	02/20/12	901.1	
Lead 214 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Thallium 280, Dissolved	<	9.10	pCi/L	02/20/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Potassium 40, Dissolved	<	140	pCi/L	02/20/12	901.1	
Potassium 40 CE, Dissolved		39.9	pCi/L	02/20/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/20/12	901.1	
Cobalt 60, Dissolved	<	7.37	pCi/L	02/20/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514732
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1340
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrell March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6AOC-3/KETCHUMS BLUFF;OK311100010190_20;7.5-8 FT FROM SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.4

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514733
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1340
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-800-869-1400
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Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved	<	107	pCi/L	02/21/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/21/12	901.1	
Uranium 235, Dissolved	<	11.9	pCi/L	02/21/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/21/12	901.1	
Thorium 234, Dissolved	<	163	pCi/L	02/21/12	901.1	
Thorium 234 CE, Dissolved		48.8	pCi/L	02/21/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/21/12	901.1	
Cesium 137, Dissolved	<	7.98	pCi/L	02/21/12	901.1	
Lead 212, Dissolved	<	15.9	pCi/L	02/21/12	901.1	
Lead 212 CE, Dissolved	ND		pCi/L	02/21/12	901.1	
Lead 214, Dissolved	<	16.5	pCi/L	02/21/12	901.1	
Lead 214 CE, Dissolved		3.59	pCi/L	02/21/12	901.1	
Thallium 280, Dissolved	<	7.96	pCi/L	02/21/12	901.1	
Thallium 280 CE, Dissolved		2.29	pCi/L	02/21/12	901.1	
Potassium 40, Dissolved	<	141	pCi/L	02/21/12	901.1	
Potassium 40 CE, Dissolved		40.6	pCi/L	02/21/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/21/12	901.1	
Cobalt 60, Dissolved	<	8.04	pCi/L	02/21/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514733
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1340
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6AOC-3D (DUPLICATE);OK311100010190_20;7.5-8 FT FROM SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 2.4

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514734
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1828
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-800-869-1400
 Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved		< 111	pCi/L	02/22/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/22/12	901.1	
Uranium 235, Dissolved		< 12.3	pCi/L	02/22/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/22/12	901.1	
Thorium 234, Dissolved		< 166	pCi/L	02/22/12	901.1	
Thorium 234 CE, Dissolved		50.0	pCi/L	02/22/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/22/12	901.1	
Cesium 137, Dissolved		< 8.14	pCi/L	02/22/12	901.1	
Lead 212, Dissolved		< 13.4	pCi/L	02/22/12	901.1	
Lead 212 CE, Dissolved		3.95	pCi/L	02/22/12	901.1	
Lead 214, Dissolved		< 16.5	pCi/L	02/22/12	901.1	
Lead 214 CE, Dissolved		5.84	pCi/L	02/22/12	901.1	
Thallium 280, Dissolved		< 8.61	pCi/L	02/22/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/22/12	901.1	
Potassium 40, Dissolved		< 145	pCi/L	02/22/12	901.1	
Potassium 40 CE, Dissolved		40.2	pCi/L	02/22/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/22/12	901.1	
Cobalt 60, Dissolved		< 8.25	pCi/L	02/22/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514734
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1828
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:
S9-DAOC-1/ADDINGTON BEND;OK311100010190_00;SURFACE

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 1.9

ANALYST'S COMMENTS:
(ND) None detected

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514735
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1820
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved	<	111	pCi/L	02/23/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/23/12	901.1	
Uranium 235, Dissolved	<	13.6	pCi/L	02/23/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/23/12	901.1	
Thorium 234, Dissolved	<	165	pCi/L	02/23/12	901.1	
Thorium 234 CE, Dissolved		49.4	pCi/L	02/23/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/23/12	901.1	
Cesium 137, Dissolved	<	8.10	pCi/L	02/23/12	901.1	
Lead 212, Dissolved	<	17.9	pCi/L	02/23/12	901.1	
Lead 212 CE, Dissolved		5.33	pCi/L	02/23/12	901.1	
Lead 214, Dissolved	<	17.5	pCi/L	02/23/12	901.1	
Lead 214 CE, Dissolved		5.14	pCi/L	02/23/12	901.1	
Thallium 280, Dissolved	<	8.68	pCi/L	02/23/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/23/12	901.1	
Potassium 40, Dissolved	<	145	pCi/L	02/23/12	901.1	
Potassium 40 CE, Dissolved		41.5	pCi/L	02/23/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/23/12	901.1	
Cobalt 60, Dissolved	<	7.75	pCi/L	02/23/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514735
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1820
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY**

707 N. ROBINSON

OKLAHOMA CITY

OKLAHOMA, 73102-6010

General Inquiries: 1-800-869-1400

Sample Receiving: (405) 702-1113

Report of Analysis by Radio Chemistry

EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S9-DAOC-2/ADDINGTON BEND;OK311100010190_00;1FT BELOW SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.8

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514736
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1810
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved		< 108	pCi/L	02/24/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Uranium 235, Dissolved		< 13.3	pCi/L	02/24/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Thorium 234, Dissolved		< 167	pCi/L	02/24/12	901.1	
Thorium 234 CE, Dissolved		49.6	pCi/L	02/24/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Cesium 137, Dissolved		< 7.96	pCi/L	02/24/12	901.1	
Lead 212, Dissolved		< 16.9	pCi/L	02/24/12	901.1	
Lead 212 CE, Dissolved		5.06	pCi/L	02/24/12	901.1	
Lead 214, Dissolved		< 15.7	pCi/L	02/24/12	901.1	
Lead 214 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Thallium 280, Dissolved		< 9.32	pCi/L	02/24/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Potassium 40, Dissolved		< 140	pCi/L	02/24/12	901.1	
Potassium 40 CE, Dissolved		39.7	pCi/L	02/24/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Cobalt 60, Dissolved		< 8.36	pCi/L	02/24/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514736
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1810
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S9-DAOC-3/ADDINGTON BEND;OK311100010190_00;2 FT DEEP W/VANDORN SAMPLER

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.8

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514737
Project Code: RR-BLP
Agency Number:
Date Collected: 2/15/2012
Time Collected: 0825
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: GG
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Bismuth 212, Dissolved		< 107	pCi/L	02/24/12	901.1	
Bismuth 212 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Uranium 235, Dissolved		< 13.4	pCi/L	02/24/12	901.1	
Uranium 235 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Thorium 234, Dissolved		< 164	pCi/L	02/24/12	901.1	
Thorium 234 CE, Dissolved		49.3	pCi/L	02/24/12	901.1	
Cesium 137 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Cesium 137, Dissolved		< 8.06	pCi/L	02/24/12	901.1	
Lead 212, Dissolved		< 17.1	pCi/L	02/24/12	901.1	
Lead 212 CE, Dissolved		5.30	pCi/L	02/24/12	901.1	
Lead 214, Dissolved		< 16.7	pCi/L	02/24/12	901.1	
Lead 214 CE, Dissolved		4.97	pCi/L	02/24/12	901.1	
Thallium 280, Dissolved		< 8.46	pCi/L	02/24/12	901.1	
Thallium 280 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Potassium 40, Dissolved		< 146	pCi/L	02/24/12	901.1	
Potassium 40 CE, Dissolved		41.7	pCi/L	02/24/12	901.1	
Cobalt 60 CE, Dissolved	ND		pCi/L	02/24/12	901.1	
Cobalt 60, Dissolved		< 8.05	pCi/L	02/24/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals

Sample Number: 514737
Project Code: RR-BLP
Agency Number:
Date Collected: 2/15/2012
Time Collected: 0825
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: GG
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:
9107 PURELAB FILTER BLANK

ANALYST'S COMMENTS:
(ND) None detected

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514738
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1030
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
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Sample Receiving: (405) 702-1113

Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS ALPHA	<	20.27	pCi/L	03/15/12	7110B	
GROSS ALPHA COUNTING ERROR		7.093	pCi/L	03/15/12	7110B	
GROSS BETA	<	17.65	pCi/L	03/15/12	7110B	
GROSS BETA COUNTING ERROR		5.542	pCi/L	03/15/12	7110B	
Lead 212	<	15.4	pCi/L	02/25/12	901.1	
Lead 212 Counting Error	ND		pCi/L	02/25/12	901.1	
Lead 214	<	17.4	pCi/L	02/25/12	901.1	
Lead 214 Counting Error	ND		pCi/L	02/25/12	901.1	
Bismuth 212	<	108	pCi/L	02/25/12	901.1	
Bismuth 212 Counting Error	ND		pCi/L	02/25/12	901.1	
Thorium 234	<	164	pCi/L	02/25/12	901.1	
Thorium 234 Counting Error		49.4	pCi/L	02/25/12	901.1	
Uranium 235 Counting Error	ND		pCi/L	02/25/12	901.1	
Uranium 235	<	12.2	pCi/L	02/25/12	901.1	
Cesium 137	<	8.10	pCi/L	02/25/12	901.1	
Cesium 137 Counting Error	ND		pCi/L	02/25/12	901.1	
Cobalt 60	<	8.10	pCi/L	02/25/12	901.1	
Cobalt 60 Counting Error	ND		pCi/L	02/25/12	901.1	
Thallium 208	<	8.77	pCi/L	02/25/12	901.1	
Thallium 208 Counting Error	ND		pCi/L	02/25/12	901.1	
Potassium 40 Counting Error		38.8	pCi/L	02/25/12	901.1	
Potassium 40	<	140	pCi/L	02/25/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

Sample Number: 514738
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1030
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S1-UAOC/DAVIDSON/HWY 70 BRIDGE;OK311310010010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.0

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514738
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1030
Date Received: 2/15/2012
Date Completed: 03/26/2012
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/26/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by General Chem.
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		8730	uMHO/CM	02/15/12	2510B	
pH, Liquid		8.13	STD UNIT	02/15/12	150.1	
Alkalinity, Total		143	MG/L	02/17/12	310.2	
Solids, Total Dissolved		5520	MG/L	02/17/12	2540C	
Nitrogen, Total		1.86	MG/L	03/15/12	CALC	
Nitrogen, Organic		1.57	MG/L	03/15/12	CALC	
Nitrogen, Ammonia	<	0.10	MG/L	02/16/12	350.1	
Nitrogen, Kjeldahl		1.57	MG/L	02/29/12	351.2	
Phosphorus, Total		0.145	MG/L	03/05/12	365.3	
Hardness, Total		1440	MG/L	03/23/12	130.1	
Chloride		2420	MG/L	03/08/12	325.2	
Sulfate		1160	MG/L	03/08/12	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S1-UAOC/DAVIDSON/HWY 70 BRIDGE;OK311310010010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.0

ANALYST'S COMMENTS:

Susan Mensik

Susan Mensik

*

* ANALYST

State Environmental Laboratory

Sample Number: 514739
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1400
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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707 N. ROBINSON
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Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS ALPHA	<	18.79	pCi/L	03/15/12	7110B	
GROSS ALPHA COUNTING ERROR		4.751	pCi/L	03/15/12	7110B	
GROSS BETA	<	18.87	pCi/L	03/15/12	7110B	
GROSS BETA COUNTING ERROR		5.647	pCi/L	03/15/12	7110B	
Lead 212	<	15.8	pCi/L	02/25/12	901.1	
Lead 212 Counting Error	ND		pCi/L	02/25/12	901.1	
Lead 214	<	18.2	pCi/L	02/25/12	901.1	
Lead 214 Counting Error	ND		pCi/L	02/25/12	901.1	
Bismuth 212	<	99.5	pCi/L	02/25/12	901.1	
Bismuth 212 Counting Error	ND		pCi/L	02/25/12	901.1	
Thorium 234	<	168	pCi/L	02/25/12	901.1	
Thorium 234 Counting Error		49.5	pCi/L	02/25/12	901.1	
Uranium 235 Counting Error	ND		pCi/L	02/25/12	901.1	
Uranium 235	<	12.9	pCi/L	02/25/12	901.1	
Cesium 137	<	7.81	pCi/L	02/25/12	901.1	
Cesium 137 Counting Error	ND		pCi/L	02/25/12	901.1	
Cobalt 60	<	7.73	pCi/L	02/25/12	901.1	
Cobalt 60 Counting Error	ND		pCi/L	02/25/12	901.1	
Thallium 208	<	7.47	pCi/L	02/25/12	901.1	
Thallium 208 Counting Error		2.25	pCi/L	02/25/12	901.1	
Potassium 40 Counting Error	ND		pCi/L	02/25/12	901.1	
Potassium 40	<	149	pCi/L	02/25/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

Sample Number: 514739
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1400
Date Received: 2/15/2012
Date Completed: 03/26/2012
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/26/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
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OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by General Chem.
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		8480	uMHO/CM	02/15/12	2510B	
pH, Liquid		8.21	STD UNIT	02/15/12	150.1	
Alkalinity, Total		136	MG/L	02/17/12	310.2	
Solids, Total Dissolved		5230	MG/L	02/17/12	2540C	
Nitrogen, Total		1.11	MG/L	03/15/12	CALC	
Nitrogen, Organic		1.11	MG/L	03/15/12	CALC	
Nitrogen, Ammonia	<	0.10	MG/L	02/16/12	350.1	
Nitrogen, Kjeldahl		1.11	MG/L	02/29/12	351.2	
Phosphorus, Total		0.037	MG/L	03/05/12	365.3	
Hardness, Total		1530	MG/L	03/23/12	130.1	
Chloride		2330	MG/L	03/08/12	325.2	
Sulfate		1110	MG/L	03/08/12	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S2-UAOC/BURKBURNETT/I-44 BRIDGE;OK311310010010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.4

ANALYST'S COMMENTS:

Susan Mensik

Susan Mensik

*

* ANALYST

State Environmental Laboratory

Sample Number: 514740
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1624
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: TD
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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 EPA Drinking Water Certification #OK00013

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS ALPHA	<	17.66	pCi/L	03/15/12	7110B	
GROSS ALPHA COUNTING ERROR		3.944	pCi/L	03/15/12	7110B	
GROSS BETA		17.88	pCi/L	03/15/12	7110B	
GROSS BETA COUNTING ERROR		4.842	pCi/L	03/15/12	7110B	
Lead 212	<	15.4	pCi/L	02/26/12	901.1	
Lead 212 Counting Error	ND		pCi/L	02/26/12	901.1	
Lead 214	<	16.8	pCi/L	02/26/12	901.1	
Lead 214 Counting Error		5.06	pCi/L	02/26/12	901.1	
Bismuth 212	<	108	pCi/L	02/26/12	901.1	
Bismuth 212 Counting Error	ND		pCi/L	02/26/12	901.1	
Thorium 234	<	168	pCi/L	02/26/12	901.1	
Thorium 234 Counting Error		49.6	pCi/L	02/26/12	901.1	
Uranium 235 Counting Error	ND		pCi/L	02/26/12	901.1	
Uranium 235	<	13.4	pCi/L	02/26/12	901.1	
Cesium 137	<	8.15	pCi/L	02/26/12	901.1	
Cesium 137 Counting Error	ND		pCi/L	02/26/12	901.1	
Cobalt 60	<	7.73	pCi/L	02/26/12	901.1	
Cobalt 60 Counting Error	ND		pCi/L	02/26/12	901.1	
Thallium 208	<	9.17	pCi/L	02/26/12	901.1	
Thallium 208 Counting Error	ND		pCi/L	02/26/12	901.1	
Potassium 40 Counting Error		40.2	pCi/L	02/26/12	901.1	
Potassium 40	<	144	pCi/L	02/26/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

Sample Number: 514740
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1624
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
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OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113

Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrell March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S3-UAOC/DOWNSTREAM CACHE CREEK; OK311200000010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.3

ANALYST'S COMMENTS:

(ND) None detected

* * ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514740
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1624
Date Received: 2/15/2012
Date Completed: 03/26/2012
Collected By: TD
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/26/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
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Sample Receiving: (405) 702-1113
Report of Analysis by General Chem.
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		7490	uMHO/CM	02/15/12	2510B	
pH, Liquid		8.11	STD UNIT	02/15/12	150.1	
Alkalinity, Total		138	MG/L	02/17/12	310.2	
Solids, Total Dissolved		4540	MG/L	02/17/12	2540C	
Nitrogen, Total		1.56	MG/L	03/15/12	CALC	
Nitrogen, Organic		0.89	MG/L	03/15/12	CALC	
Nitrogen, Ammonia	<	0.10	MG/L	02/16/12	350.1	
Nitrogen, Kjeldahl		0.89	MG/L	02/29/12	351.2	
Phosphorus, Total		0.095	MG/L	03/05/12	365.3	
Hardness, Total		1170	MG/L	03/23/12	130.1	
Chloride		2010	MG/L	03/08/12	325.2	
Sulfate		935	MG/L	03/08/12	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S3-UAOC/DOWNSTREAM CACHE CREEK; OK311200000010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.3

ANALYST'S COMMENTS:

Susan Mensik

* ANALYST

Susan Mensik

State Environmental Laboratory

Sample Number: 514741
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1545
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: HC
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
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 Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS ALPHA	<	26.34	pCi/L	03/15/12	7110B	
GROSS ALPHA COUNTING ERROR		8.232	pCi/L	03/15/12	7110B	
GROSS BETA		13.38	pCi/L	03/15/12	7110B	
GROSS BETA COUNTING ERROR		4.183	pCi/L	03/15/12	7110B	
Lead 212	<	16.0	pCi/L	02/26/12	901.1	
Lead 212 Counting Error		4.80	pCi/L	02/26/12	901.1	
Lead 214	<	17.6	pCi/L	02/26/12	901.1	
Lead 214 Counting Error		5.31	pCi/L	02/26/12	901.1	
Bismuth 212	<	107	pCi/L	02/26/12	901.1	
Bismuth 212 Counting Error	ND		pCi/L	02/26/12	901.1	
Thorium 234		348	pCi/L	02/26/12	901.1	
Thorium 234 Counting Error		117	pCi/L	02/26/12	901.1	
Uranium 235 Counting Error	ND		pCi/L	02/26/12	901.1	
Uranium 235	<	12.2	pCi/L	02/26/12	901.1	
Cesium 137	<	8.08	pCi/L	02/26/12	901.1	
Cesium 137 Counting Error	ND		pCi/L	02/26/12	901.1	
Cobalt 60	<	7.81	pCi/L	02/26/12	901.1	
Cobalt 60 Counting Error	ND		pCi/L	02/26/12	901.1	
Thallium 208	<	8.51	pCi/L	02/26/12	901.1	
Thallium 208 Counting Error	ND		pCi/L	02/26/12	901.1	
Potassium 40 Counting Error		39.7	pCi/L	02/26/12	901.1	
Potassium 40	<	139	pCi/L	02/26/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

Sample Number: 514741
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1545
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
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OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S4-UAOC/HWY 79 BRIDGE;OK 311200000010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 2.8

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514741
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1545
Date Received: 2/15/2012
Date Completed: 03/26/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/26/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		6310	uMHO/CM	02/15/12	2510B	
pH, Liquid		8.36	STD UNIT	02/15/12	150.1	
Alkalinity, Total		142	MG/L	02/17/12	310.2	
Solids, Total Dissolved		3780	MG/L	02/17/12	2540C	
Nitrogen, Total		3.44	MG/L	03/15/12	CALC	
Nitrogen, Organic		1.02	MG/L	03/15/12	CALC	
Nitrogen, Ammonia	<	0.10	MG/L	02/16/12	350.1	
Nitrogen, Kjeldahl		1.02	MG/L	02/29/12	351.2	
Phosphorus, Total		0.036	MG/L	03/05/12	365.3	
Hardness, Total		1010	MG/L	03/23/12	130.1	
Chloride		1680	MG/L	03/08/12	325.2	
Sulfate		801	MG/L	03/08/12	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S4-UAOC/HWY 79 BRIDGE;OK 311200000010_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 2.8

ANALYST'S COMMENTS:

Susan Mensik

* ANALYST

Susan Mensik

State Environmental Laboratory

Sam~~p~~ Number: 514742
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1313
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: HC
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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 OKLAHOMA, 73102-6010
 General Inquiries: 1-800-869-1400
 Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS ALPHA	<	8.999	pCi/L	03/15/12	7110B	
GROSS ALPHA COUNTING ERROR		3.048	pCi/L	03/15/12	7110B	
GROSS BETA	<	9.506	pCi/L	03/15/12	7110B	
GROSS BETA COUNTING ERROR		3.022	pCi/L	03/15/12	7110B	
Lead 212	<	17.7	pCi/L	02/28/12	901.1	
Lead 212 Counting Error		5.36	pCi/L	02/28/12	901.1	
Lead 214	<	16.3	pCi/L	02/28/12	901.1	
Lead 214 Counting Error	ND		pCi/L	02/28/12	901.1	
Bismuth 212	<	109	pCi/L	02/28/12	901.1	
Bismuth 212 Counting Error	ND		pCi/L	02/28/12	901.1	
Thorium 234	<	167	pCi/L	02/28/12	901.1	
Thorium 234 Counting Error		50.2	pCi/L	02/28/12	901.1	
Uranium 235 Counting Error	ND		pCi/L	02/28/12	901.1	
Uranium 235	<	13.6	pCi/L	02/28/12	901.1	
Cesium 137	<	8.29	pCi/L	02/28/12	901.1	
Cesium 137 Counting Error	ND		pCi/L	02/28/12	901.1	
Cobalt 60	<	7.28	pCi/L	02/28/12	901.1	
Cobalt 60 Counting Error	ND		pCi/L	02/28/12	901.1	
Thallium 208	<	8.53	pCi/L	02/28/12	901.1	
Thallium 208 Counting Error	ND		pCi/L	02/28/12	901.1	
Potassium 40 Counting Error		39.6	pCi/L	02/28/12	901.1	
Potassium 40	<	141	pCi/L	02/28/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

Sample Number: 514742
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1313
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY**

707 N. ROBINSON

OKLAHOMA CITY

OKLAHOMA, 73102-6010

General Inquiries: 1-800-869-1400

Sample Receiving: (405) 702-1113

Report of Analysis by Radio Chemistry

EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S5-AOC/HWY 81 BRIDGE; OK 311100010190_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.5

ANALYST'S COMMENTS:

(ND) None detected

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514742
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1313
Date Received: 2/15/2012
Date Completed: 03/26/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/26/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY**

707 N. ROBINSON

OKLAHOMA CITY

OKLAHOMA, 73102-6010

General Inquiries: 1-800-869-1400

Sample Receiving: (405) 702-1113

Report of Analysis by General Chem.

EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		5510	uMHO/CM	02/15/12	2510B	
pH, Liquid		8.09	STD UNIT	02/15/12	150.1	
Alkalinity, Total		144	MG/L	02/17/12	310.2	
Solids, Total Dissolved		3290	MG/L	02/17/12	2540C	
Nitrogen, Total		2.43	MG/L	03/15/12	CALC	
Nitrogen, Organic		1.07	MG/L	03/15/12	CALC	
Nitrogen, Ammonia	<	0.10	MG/L	02/16/12	350.1	
Nitrogen, Kjeldahl		1.07	MG/L	02/29/12	351.2	
Phosphorus, Total		0.244	MG/L	03/05/12	365.3	
Hardness, Total		890	MG/L	03/23/12	130.1	
Chloride		1450	MG/L	03/08/12	325.2	
Sulfate		692	MG/L	03/08/12	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S5-AOC/HWY 81 BRIDGE; OK 311100010190_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.5

ANALYST'S COMMENTS:

Susan Mensik

Susan Mensik

* ANALYST

State Environmental Laboratory

Sample Number: 514743
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 0947
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: HC
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
 General Inquiries: 1-800-869-1400
 Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS ALPHA	<	11.61	pCi/L	03/15/12	7110B	
GROSS ALPHA COUNTING ERROR		3.438	pCi/L	03/15/12	7110B	
GROSS BETA		72.05	pCi/L	03/15/12	7110B	
GROSS BETA COUNTING ERROR		5.046	pCi/L	03/15/12	7110B	
Lead 212	<	162	pCi/L	02/29/12	901.1	
Lead 212 Counting Error	ND		pCi/L	02/29/12	901.1	
Lead 214	<	18.7	pCi/L	02/29/12	901.1	
Lead 214 Counting Error	ND		pCi/L	02/29/12	901.1	
Bismuth 212	<	113	pCi/L	02/29/12	901.1	
Bismuth 212 Counting Error	ND		pCi/L	02/29/12	901.1	
Thorium 234	<	171	pCi/L	02/29/12	901.1	
Thorium 234 Counting Error		51.1	pCi/L	02/29/12	901.1	
Uranium 235 Counting Error	ND		pCi/L	02/29/12	901.1	
Uranium 235	<	13.9	pCi/L	02/29/12	901.1	
Cesium 137	<	8.60	pCi/L	02/29/12	901.1	
Cesium 137 Counting Error	ND		pCi/L	02/29/12	901.1	
Cobalt 60	<	8.80	pCi/L	02/29/12	901.1	
Cobalt 60 Counting Error	ND		pCi/L	02/29/12	901.1	
Thallium 208	<	9.02	pCi/L	02/29/12	901.1	
Thallium 208 Counting Error	ND		pCi/L	02/29/12	901.1	
Potassium 40 Counting Error		39.0	pCi/L	02/29/12	901.1	
Potassium 40	<	143	pCi/L	02/29/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

Sample Number: 514743
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 0947
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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OKLAHOMA CITY
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General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S8-DAOC/HWY 89 BRIDGE; OK 311100010190_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.1

ANALYST'S COMMENTS:

(ND) None detected

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514743
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 0947
Date Received: 2/15/2012
Date Completed: 03/26/2012
Collected By: HC
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/26/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by General Chem.
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		8470	uMHO/CM	02/15/12	2510B	
pH, Liquid		8.40	STD UNIT	02/15/12	150.1	
Alkalinity, Total		143	MG/L	02/17/12	310.2	
Solids, Total Dissolved		2860	MG/L	02/17/12	2540C	
Nitrogen, Total		2.08	MG/L	03/15/12	CALC	
Nitrogen, Organic		1.83	MG/L	03/15/12	CALC	
Nitrogen, Ammonia	<	0.10	MG/L	02/16/12	350.1	
Nitrogen, Kjeldahl		1.83	MG/L	02/29/12	351.2	
Phosphorus, Total		0.184	MG/L	03/05/12	365.3	
Hardness, Total		805	MG/L	03/23/12	130.1	
Chloride		1230	MG/L	03/08/12	325.2	
Sulfate		582	MG/L	03/08/12	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S8-DAOC/HWY 89 BRIDGE; OK 311100010190_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.1

ANALYST`S COMMENTS:

Susan Mensik

* ANALYST

Susan Mensik

State Environmental Laboratory

Sample Number: 514744
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 2/14/2012
 Time Collected: 1059
 Date Received: 2/15/2012
 Date Completed: 05/10/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-800-869-1400
 Sample Receiving: (405) 702-1113
Report of Analysis by Radio Chemistry
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS ALPHA	<	12.14	pCi/L	03/15/12	7110B	
GROSS ALPHA COUNTING ERROR		3.348	pCi/L	03/15/12	7110B	
GROSS BETA		54.78	pCi/L	03/15/12	7110B	
GROSS BETA COUNTING ERROR		5.416	pCi/L	03/15/12	7110B	
Lead 212	<	15.5	pCi/L	02/29/12	901.1	
Lead 212 Counting Error		4.66	pCi/L	02/29/12	901.1	
Lead 214	<	16.5	pCi/L	02/29/12	901.1	
Lead 214 Counting Error		4.90	pCi/L	02/29/12	901.1	
Bismuth 212	<	116	pCi/L	02/29/12	901.1	
Bismuth 212 Counting Error	ND		pCi/L	02/29/12	901.1	
Thorium 234	<	143	pCi/L	02/29/12	901.1	
Thorium 234 Counting Error	ND		pCi/L	02/29/12	901.1	
Uranium 235 Counting Error	ND		pCi/L	02/29/12	901.1	
Uranium 235	<	13.4	pCi/L	02/29/12	901.1	
Cesium 137	<	7.98	pCi/L	02/29/12	901.1	
Cesium 137 Counting Error	ND		pCi/L	02/29/12	901.1	
Cobalt 60	<	7.74	pCi/L	02/29/12	901.1	
Cobalt 60 Counting Error	ND		pCi/L	02/29/12	901.1	
Thallium 208	<	7.81	pCi/L	02/29/12	901.1	
Thallium 208 Counting Error		2.42	pCi/L	02/29/12	901.1	
Potassium 40 Counting Error		38.6	pCi/L	02/29/12	901.1	
Potassium 40	<	141	pCi/L	02/29/12	901.1	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

Sample Number: 514744
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1059
Date Received: 2/15/2012
Date Completed: 05/10/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113

Report of Analysis by Radio Chemistry

EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S7-AOC/DOWNSTREAM OF RED CREEK; OK 311100010190_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.0

ANALYST'S COMMENTS:

(ND) None detected

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 514744
Project Code: RR-BLP
Agency Number:
Date Collected: 2/14/2012
Time Collected: 1059
Date Received: 2/15/2012
Date Completed: 03/26/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/26/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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Sample Receiving: (405) 702-1113
Report of Analysis by General Chem.
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		5120	uMHO/CM	02/15/12	2510B	
pH, Liquid		8.14	STD UNIT	02/15/12	150.1	
Alkalinity, Total		151	MG/L	02/17/12	310.2	
Solids, Total Dissolved		3030	MG/L	02/17/12	2540C	
Nitrogen, Total		2.26	MG/L	03/15/12	CALC	
Nitrogen, Organic		1.26	MG/L	03/15/12	CALC	
Nitrogen, Ammonia	<	0.10	MG/L	02/16/12	350.1	
Nitrogen, Kjeldahl		1.26	MG/L	02/29/12	351.2	
Phosphorus, Total		0.198	MG/L	03/05/12	365.3	
Hardness, Total		845	MG/L	03/23/12	130.1	
Chloride		1300	MG/L	03/08/12	325.2	
Sulfate		639	MG/L	03/08/12	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S7-AOC/DOWNSTREAM OF RED CREEK; OK 311100010190_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.0

ANALYST'S COMMENTS:

Susan Mensik

* ANALYST

Susan Mensik

State Environmental Laboratory