TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 550-81338-1
TestAmerica SDG: Four Corners (FC) Power Plant
Client Project/Site: CCR

For:
Arizona Public Service Company
4801 Cholla Lake Rd
Joseph City, Arizona 86032

Attn: Doug Lavarnway

Authorized for release by:
5/15/2017 12:58:41 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D1	Sample required dilution due to matrix.
D5	Minimum Reporting Limit (MRL) adjusted due to sample dilution; analyte was non-detect in the sample.

Metals

Qualifier	Qualifier Description
L5	The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample.
D1	Sample required dilution due to matrix.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 550-81338-1

Laboratory: TestAmerica Phoenix

Narrative

Job Narrative
550-81338-1

Comments
No additional comments.

Receipt
The samples were received on 4/19/2017 2:08 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.8º C, 2.3º C, 2.6º C, 2.9º C and 4.2º C.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 200.8 LL: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: FC-CCR-MW49A-41817 (550-81338-3), FC-CCR-MW60-41817 (550-81338-4), FC-CCR-MW61-41817 (550-81338-5), FC-CCR-MW62-41617 (550-81338-6), FC-CCR-MW63-41717 (550-81338-7) and FC-CCR-MW64-41717 (550-81338-8).

Method(s) 200.8 LL: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: FC-CCR-MW65-41617 (550-81338-9), FC-CCR-MW66-41617 (550-81338-10), FC-CCR-MW67-41717 (550-81338-11), FC-CCR-MW68-41717 (550-81338-12), FC-CCR-MW69-41717 (550-81338-13), FC-CCR-FD02-41717 (550-81338-14), FC-CCR-MW70-41617 (550-81338-15), FC-CCR-FD01-41617 (550-81338-16), FC-CCR-MW71-41717 (550-81338-17), FC-CCR-MW72-41717 (550-81338-18), FC-CCR-MW73-41817 (550-81338-19), FC-CCR-MW74-41817 (550-81338-20) and FC-CCR-MW75-41817 (550-81338-21).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-81338-1	FC-CCR-MW7-41817	Water	04/18/17 12:27	04/19/17 14:08
550-81338-2	FC-CCR-MW8-41817	Water	04/18/17 11:45	04/19/17 14:08
550-81338-3	FC-CCR-MW49A-41817	Water	04/18/17 13:17	04/19/17 14:08
550-81338-4	FC-CCR-MW60-41817	Water	04/18/17 11:10	04/19/17 14:08
550-81338-5	FC-CCR-MW61-41817	Water	04/18/17 10:06	04/19/17 14:08
550-81338-6	FC-CCR-MW62-41617	Water	04/16/17 15:41	04/19/17 14:08
550-81338-7	FC-CCR-MW63-41717	Water	04/17/17 12:18	04/19/17 14:08
550-81338-8	FC-CCR-MW64-41717	Water	04/17/17 11:22	04/19/17 14:08
550-81338-9	FC-CCR-MW65-41617	Water	04/16/17 15:04	04/19/17 14:08
550-81338-10	FC-CCR-MW66-41617	Water	04/16/17 16:21	04/19/17 14:08
550-81338-11	FC-CCR-MW67-41717	Water	04/17/17 10:35	04/19/17 14:08
550-81338-12	FC-CCR-MW68-41717	Water	04/17/17 09:58	04/19/17 14:08
550-81338-13	FC-CCR-MW69-41717	Water	04/17/17 09:01	04/19/17 14:08
550-81338-14	FC-CCR-FD02-41717	Water	04/17/17 09:01	04/19/17 14:08
550-81338-15	FC-CCR-MW70-41617	Water	04/16/17 17:08	04/19/17 14:08
550-81338-16	FC-CCR-FD01-41617	Water	04/16/17 17:08	04/19/17 14:08
550-81338-17	FC-CCR-MW71-41717	Water	04/17/17 13:16	04/19/17 14:08
550-81338-18	FC-CCR-MW72-41717	Water	04/17/17 13:52	04/19/17 14:08
550-81338-19	FC-CCR-MW73-41817	Water	04/18/17 08:32	04/19/17 14:08
550-81338-20	FC-CCR-MW74-41817	Water	04/18/17 09:18	04/19/17 14:08
550-81338-21	FC-CCR-MW75-41817	Water	04/18/17 10:36	04/19/17 14:08

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW7-41817 — Lab Sample ID: 550-81338-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.85		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.00072		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.016		0.00050	mg/L	1		200.8 LL	Total/NA
Chromium	0.0023		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0039		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.0080		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00011		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW8-41817 — Lab Sample ID: 550-81338-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	1.1		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.00053		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.017		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00018		0.00010	mg/L	1		200.8 LL	Total/NA
Chromium	0.00075		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.00053		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.014		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.00084		0.00050	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW49A-41817 — Lab Sample ID: 550-81338-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	1.3		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.022	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0045	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.028	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Thallium	0.0017	D1	0.00040	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW60-41817 — Lab Sample ID: 550-81338-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	6.5	D1	0.80	mg/L	2		300.0	Total/NA
Lithium	0.84		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.017	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cadmium	0.00086	D1	0.00040	mg/L	4		200.8 LL	Total/NA
Chromium	0.0040	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.28	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.17	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW61-41817 — Lab Sample ID: 550-81338-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.1		0.40	mg/L	1		300.0	Total/NA
Lithium	0.37		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.014	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cadmium	0.00093	D1	0.00040	mg/L	4		200.8 LL	Total/NA
Cobalt	0.014	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.078	D1	0.0020	mg/L	4		200.8 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW62-41617 — Lab Sample ID: 550-81338-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.2		0.40	mg/L	1		300.0	Total/NA
Barium	0.022	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0070	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.0036	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW63-41717 — Lab Sample ID: 550-81338-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.5		0.40	mg/L	1		300.0	Total/NA
Barium	0.017	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0055	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.0022	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW64-41717 — Lab Sample ID: 550-81338-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.4		0.40	mg/L	1		300.0	Total/NA
Barium	0.026	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.0049	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Thallium	0.00012		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW65-41617 — Lab Sample ID: 550-81338-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.7		0.40	mg/L	1		300.0	Total/NA
Barium	0.016	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.0082	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW66-41617 — Lab Sample ID: 550-81338-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	23	D1	2.0	mg/L	5		300.0	Total/NA
Lithium	0.31		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.020	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0071	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.022	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW67-41717 — Lab Sample ID: 550-81338-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	21	D1	2.0	mg/L	5		300.0	Total/NA
Lithium	0.42		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0020	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Barium	0.020	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0062	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.039	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.032	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW68-41717 — Lab Sample ID: 550-81338-12

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW68-41717 (Continued) — Lab Sample ID: 550-81338-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	9.7	D1	2.0	mg/L	5		300.0	Total/NA
Lithium	0.38		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0051	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Barium	0.0078	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0028	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.0080	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.16	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Thallium	0.00067	D1	0.00040	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW69-41717 — Lab Sample ID: 550-81338-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	17	D1	2.0	mg/L	5		300.0	Total/NA
Lithium	0.45		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0066	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Barium	0.016	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0045	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.014	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.011	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-FD02-41717 — Lab Sample ID: 550-81338-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	17	D1	2.0	mg/L	5		300.0	Total/NA
Lithium	0.44		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0063	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Barium	0.016	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0044	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.014	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.010	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW70-41617 — Lab Sample ID: 550-81338-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.85	D1	0.80	mg/L	2		300.0	Total/NA
Lithium	0.31		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0054	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Barium	0.0084	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0035	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.0035	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.18	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Thallium	0.00041	D1	0.00040	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-FD01-41617 — Lab Sample ID: 550-81338-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.85	D1	0.80	mg/L	2		300.0	Total/NA
Lithium	0.32		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0045	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Barium	0.0090	D1	0.0020	mg/L	4		200.8 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-FD01-41617 (Continued) — Lab Sample ID: 550-81338-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0038	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.0037	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.20	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Thallium	0.00042	D1	0.00040	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW71-41717 — Lab Sample ID: 550-81338-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.32		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0063	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Barium	0.010	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.20	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW72-41717 — Lab Sample ID: 550-81338-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.35		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0028	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Barium	0.0096	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0024	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.10	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Thallium	0.00096	D1	0.00040	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW73-41817 — Lab Sample ID: 550-81338-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.22		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.027	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cobalt	0.0058	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.0041	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.019	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW74-41817 — Lab Sample ID: 550-81338-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.6	D1	0.80	mg/L	2		300.0	Total/NA
Lithium	0.40		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0029	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Barium	0.018	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Molybdenum	0.013	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Selenium	0.069	D1	0.0020	mg/L	4		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW75-41817 — Lab Sample ID: 550-81338-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.43		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.020	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Cadmium	0.0022	D1	0.00040	mg/L	4		200.8 LL	Total/NA
Cobalt	0.043	D1	0.0020	mg/L	4		200.8 LL	Total/NA
Lead	0.0031	D1	0.0020	mg/L	4		200.8 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW75-41817 (Continued) — Lab Sample ID: 550-81338-21

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.17	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Selenium	0.0021	D1	0.0020		mg/L	4		200.8 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW7-41817

Lab Sample ID: 550-81338-1
Date Collected: 04/18/17 12:27
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	D1 D5	0.80	mg/L			05/08/17 21:20	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 00:41	1
Lithium	**0.85**		0.20	mg/L		04/21/17 05:04	04/28/17 00:41	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		04/21/17 09:43	04/28/17 13:05	1
Arsenic	**0.00072**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:05	1
Barium	**0.016**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:05	1
Cadmium	ND		0.00010	mg/L		04/21/17 09:43	04/28/17 13:05	1
Chromium	**0.0023**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:05	1
Cobalt	ND		0.00050	mg/L		04/21/17 09:43	04/28/17 13:05	1
Lead	ND		0.00050	mg/L		04/21/17 09:43	04/28/17 13:05	1
Molybdenum	**0.0039**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:05	1
Selenium	**0.0080**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:05	1
Thallium	**0.00011**		0.00010	mg/L		04/21/17 09:43	04/28/17 13:05	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:10	1

Client Sample ID: FC-CCR-MW8-41817

Lab Sample ID: 550-81338-2
Date Collected: 04/18/17 11:45
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	D1 D5	0.80	mg/L			05/08/17 21:39	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 00:47	1
Lithium	**1.1**		0.20	mg/L		04/21/17 05:04	04/28/17 00:47	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		04/21/17 09:43	04/28/17 13:08	1
Arsenic	**0.00053**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:08	1
Barium	**0.017**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:08	1
Cadmium	**0.00018**		0.00010	mg/L		04/21/17 09:43	04/28/17 13:08	1
Chromium	**0.00075**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:08	1
Cobalt	**0.00053**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:08	1
Lead	ND		0.00050	mg/L		04/21/17 09:43	04/28/17 13:08	1
Molybdenum	**0.014**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:08	1
Selenium	**0.00084**		0.00050	mg/L		04/21/17 09:43	04/28/17 13:08	1
Thallium	ND		0.00010	mg/L		04/21/17 09:43	04/28/17 13:08	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW8-41817

Lab Sample ID: 550-81338-2
Date Collected: 04/18/17 11:45
Matrix: Water
Date Received: 04/19/17 14:08

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:12	1

Client Sample ID: FC-CCR-MW49A-41817

Lab Sample ID: 550-81338-3
Date Collected: 04/18/17 13:17
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	D1 D5	2.0	mg/L			05/08/17 21:57	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 00:52	1
Lithium	**1.3**		0.20	mg/L		04/21/17 05:04	04/28/17 00:52	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:43	05/14/17 13:03	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:03	4
Barium	**0.022**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:03	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:43	05/14/17 13:03	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:03	4
Cobalt	**0.0045**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:03	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:03	4
Molybdenum	**0.028**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:03	4
Selenium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:03	4
Thallium	**0.0017**	**D1**	0.00040	mg/L		04/21/17 09:43	05/14/17 13:03	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:13	1

Client Sample ID: FC-CCR-MW60-41817

Lab Sample ID: 550-81338-4
Date Collected: 04/18/17 11:10
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**6.5**	**D1**	0.80	mg/L			05/08/17 22:16	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 00:58	1
Lithium	**0.84**		0.20	mg/L		04/21/17 05:04	04/28/17 00:58	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:43	05/14/17 13:06	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:06	4
Barium	**0.017**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:06	4
Cadmium	**0.00086**	**D1**	0.00040	mg/L		04/21/17 09:43	05/14/17 13:06	4

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW60-41817

Lab Sample ID: 550-81338-4
Date Collected: 04/18/17 11:10
Matrix: Water
Date Received: 04/19/17 14:08

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0040	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:06	4
Cobalt	0.28	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:06	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:06	4
Molybdenum	0.17	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:06	4
Selenium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:06	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:43	05/14/17 13:06	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:15	1

Client Sample ID: FC-CCR-MW61-41817

Lab Sample ID: 550-81338-5
Date Collected: 04/18/17 10:06
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.1		0.40	mg/L			05/08/17 22:34	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 01:04	1
Lithium	0.37		0.20	mg/L		04/21/17 05:04	04/28/17 01:04	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:43	05/14/17 13:08	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:08	4
Barium	0.014	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:08	4
Cadmium	0.00093	D1	0.00040	mg/L		04/21/17 09:43	05/14/17 13:08	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:08	4
Cobalt	0.014	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:08	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:08	4
Molybdenum	0.078	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:08	4
Selenium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:08	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:43	05/14/17 13:08	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:16	1

Client Sample ID: FC-CCR-MW62-41617

Lab Sample ID: 550-81338-6
Date Collected: 04/16/17 15:41
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.2		0.40	mg/L			05/08/17 23:29	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW62-41617

Lab Sample ID: 550-81338-6
Date Collected: 04/16/17 15:41
Matrix: Water
Date Received: 04/19/17 14:08

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 01:10	1
Lithium	ND		0.20	mg/L		04/21/17 05:04	04/28/17 01:10	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:43	05/14/17 13:11	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:11	4
Barium	**0.022**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:11	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:43	05/14/17 13:11	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:11	4
Cobalt	**0.0070**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:11	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:11	4
Molybdenum	**0.0036**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:11	4
Selenium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:11	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:43	05/14/17 13:11	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:18	1

Client Sample ID: FC-CCR-MW63-41717

Lab Sample ID: 550-81338-7
Date Collected: 04/17/17 12:18
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.5**		0.40	mg/L			05/09/17 00:24	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 01:16	1
Lithium	ND		0.20	mg/L		04/21/17 05:04	04/28/17 01:16	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:43	05/14/17 13:13	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:13	4
Barium	**0.017**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:13	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:43	05/14/17 13:13	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:13	4
Cobalt	**0.0055**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:13	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:13	4
Molybdenum	**0.0022**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:13	4
Selenium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:13	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:43	05/14/17 13:13	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:20	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW64-41717

Lab Sample ID: 550-81338-8
Date Collected: 04/17/17 11:22
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.4**		0.40	mg/L			05/09/17 00:43	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 01:22	1
Lithium	ND		0.20	mg/L		04/21/17 05:04	04/28/17 01:22	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:43	05/14/17 13:15	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:15	4
Barium	**0.026**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:15	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:43	05/14/17 13:15	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:15	4
Cobalt	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:15	4
Lead	ND		0.00050	mg/L		04/21/17 09:43	04/28/17 13:32	1
Molybdenum	**0.0049**	**D1**	0.0020	mg/L		04/21/17 09:43	05/14/17 13:15	4
Selenium	ND	D1	0.0020	mg/L		04/21/17 09:43	05/14/17 13:15	4
Thallium	**0.00012**		0.00010	mg/L		04/21/17 09:43	04/28/17 13:32	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:21	1

Client Sample ID: FC-CCR-MW65-41617

Lab Sample ID: 550-81338-9
Date Collected: 04/16/17 15:04
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.7**		0.40	mg/L			05/09/17 01:01	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 01:30	1
Lithium	ND		0.20	mg/L		04/21/17 05:04	04/28/17 01:30	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 13:36	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:36	4
Barium	**0.016**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:36	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:36	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:36	4
Cobalt	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:36	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:36	4
Molybdenum	**0.0082**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:36	4
Selenium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:36	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:36	4

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW65-41617 — Lab Sample ID: 550-81338-9

Date Collected: 04/16/17 15:04 — **Matrix: Water**
Date Received: 04/19/17 14:08

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:23	1

Client Sample ID: FC-CCR-MW66-41617 — Lab Sample ID: 550-81338-10

Date Collected: 04/16/17 16:21 — **Matrix: Water**
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**23**	**D1**	2.0	mg/L			05/09/17 01:20	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 01:33	1
Lithium	**0.31**		0.20	mg/L		04/21/17 05:04	04/28/17 01:33	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 13:39	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:39	4
Barium	**0.020**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:39	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:39	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:39	4
Cobalt	**0.0071**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:39	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:39	4
Molybdenum	**0.022**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:39	4
Selenium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:39	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:39	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:29	1

Client Sample ID: FC-CCR-MW67-41717 — Lab Sample ID: 550-81338-11

Date Collected: 04/17/17 10:35 — **Matrix: Water**
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**21**	**D1**	2.0	mg/L			05/09/17 01:38	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 01:39	1
Lithium	**0.42**		0.20	mg/L		04/21/17 05:04	04/28/17 01:39	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 13:41	4
Arsenic	**0.0020**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:41	4
Barium	**0.020**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:41	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:41	4

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW67-41717

Lab Sample ID: 550-81338-11
Date Collected: 04/17/17 10:35
Matrix: Water
Date Received: 04/19/17 14:08

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:41	4
Cobalt	**0.0062**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:41	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:41	4
Molybdenum	**0.039**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:41	4
Selenium	**0.032**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:41	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:41	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:24	1

Client Sample ID: FC-CCR-MW68-41717

Lab Sample ID: 550-81338-12
Date Collected: 04/17/17 09:58
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**9.7**	**D1**	2.0	mg/L			05/09/17 01:56	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 01:45	1
Lithium	**0.38**		0.20	mg/L		04/21/17 05:04	04/28/17 01:45	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 13:43	4
Arsenic	**0.0051**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:43	4
Barium	**0.0078**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:43	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:43	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:43	4
Cobalt	**0.0028**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:43	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:43	4
Molybdenum	**0.0080**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:43	4
Selenium	**0.16**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:43	4
Thallium	**0.00067**	**D1**	0.00040	mg/L		04/21/17 09:53	05/14/17 13:43	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:30	1

Client Sample ID: FC-CCR-MW69-41717

Lab Sample ID: 550-81338-13
Date Collected: 04/17/17 09:01
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**17**	**D1**	2.0	mg/L			05/09/17 02:15	5

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW69-41717

Lab Sample ID: 550-81338-13
Matrix: Water

Date Collected: 04/17/17 09:01
Date Received: 04/19/17 14:08

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:04	04/28/17 01:51	1
Lithium	**0.45**		0.20	mg/L		04/21/17 05:04	04/28/17 01:51	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 13:46	4
Arsenic	**0.0066**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:46	4
Barium	**0.016**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:46	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:46	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:46	4
Cobalt	**0.0045**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:46	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:46	4
Molybdenum	**0.014**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:46	4
Selenium	**0.011**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:46	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:46	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:32	1

Client Sample ID: FC-CCR-FD02-41717

Lab Sample ID: 550-81338-14
Matrix: Water

Date Collected: 04/17/17 09:01
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**17**	**D1**	2.0	mg/L			05/09/17 02:33	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:12	04/28/17 02:14	1
Lithium	**0.44**		0.20	mg/L		04/21/17 05:12	04/28/17 02:14	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 13:48	4
Arsenic	**0.0063**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:48	4
Barium	**0.016**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:48	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:48	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:48	4
Cobalt	**0.0044**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:48	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:48	4
Molybdenum	**0.014**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:48	4
Selenium	**0.010**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:48	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:48	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:33	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW70-41617

Lab Sample ID: 550-81338-15
Date Collected: 04/16/17 17:08
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.85**	**D1**	0.80	mg/L			05/09/17 02:52	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:12	04/28/17 02:20	1
Lithium	**0.31**		0.20	mg/L		04/21/17 05:12	04/28/17 02:20	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 13:55	4
Arsenic	**0.0054**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:55	4
Barium	**0.0084**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:55	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:55	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:55	4
Cobalt	**0.0035**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:55	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:55	4
Molybdenum	**0.0035**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:55	4
Selenium	**0.18**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:55	4
Thallium	**0.00041**	**D1**	0.00040	mg/L		04/21/17 09:53	05/14/17 13:55	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:35	1

Client Sample ID: FC-CCR-FD01-41617

Lab Sample ID: 550-81338-16
Date Collected: 04/16/17 17:08
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.85**	**D1**	0.80	mg/L			05/09/17 03:10	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:12	04/28/17 02:26	1
Lithium	**0.32**		0.20	mg/L		04/21/17 05:12	04/28/17 02:26	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 13:58	4
Arsenic	**0.0045**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:58	4
Barium	**0.0090**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:58	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 13:58	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:58	4
Cobalt	**0.0038**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:58	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 13:58	4
Molybdenum	**0.0037**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:58	4
Selenium	**0.20**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 13:58	4
Thallium	**0.00042**	**D1**	0.00040	mg/L		04/21/17 09:53	05/14/17 13:58	4

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-FD01-41617 — Lab Sample ID: 550-81338-16

Date Collected: 04/16/17 17:08
Date Received: 04/19/17 14:08
Matrix: Water

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:37	1

Client Sample ID: FC-CCR-MW71-41717 — Lab Sample ID: 550-81338-17

Date Collected: 04/17/17 13:16
Date Received: 04/19/17 14:08
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	D1 D5	2.0	mg/L			05/09/17 04:05	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:12	04/28/17 02:32	1
Lithium	**0.32**		0.20	mg/L		04/21/17 05:12	04/28/17 02:32	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 14:00	4
Arsenic	**0.0063**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:00	4
Barium	**0.010**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:00	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 14:00	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:00	4
Cobalt	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:00	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:00	4
Molybdenum	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:00	4
Selenium	**0.20**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:00	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 14:00	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:38	1

Client Sample ID: FC-CCR-MW72-41717 — Lab Sample ID: 550-81338-18

Date Collected: 04/17/17 13:52
Date Received: 04/19/17 14:08
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	D1 D5	2.0	mg/L			05/09/17 04:24	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:12	04/28/17 02:43	1
Lithium	**0.35**		0.20	mg/L		04/21/17 05:12	04/28/17 02:43	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 14:02	4
Arsenic	**0.0028**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:02	4
Barium	**0.0096**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:02	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 14:02	4

Client Sample ID: FC-CCR-MW72-41717

Lab Sample ID: 550-81338-18
Date Collected: 04/17/17 13:52
Matrix: Water
Date Received: 04/19/17 14:08

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:02	4
Cobalt	**0.0024**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:02	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:02	4
Molybdenum	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:02	4
Selenium	**0.10**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:02	4
Thallium	**0.00096**	**D1**	0.00040	mg/L		04/21/17 09:53	05/14/17 14:02	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:40	1

Client Sample ID: FC-CCR-MW73-41817

Lab Sample ID: 550-81338-19
Date Collected: 04/18/17 08:32
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	D1 D5	0.80	mg/L			05/09/17 04:42	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:12	04/28/17 02:49	1
Lithium	**0.22**		0.20	mg/L		04/21/17 05:12	04/28/17 02:49	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 14:05	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:05	4
Barium	**0.027**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:05	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 14:05	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:05	4
Cobalt	**0.0058**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:05	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:05	4
Molybdenum	**0.0041**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:05	4
Selenium	**0.019**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:05	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 14:05	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:41	1

Client Sample ID: FC-CCR-MW74-41817

Lab Sample ID: 550-81338-20
Date Collected: 04/18/17 09:18
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.6**	**D1**	0.80	mg/L			05/09/17 22:05	2

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW74-41817

Lab Sample ID: 550-81338-20
Date Collected: 04/18/17 09:18
Matrix: Water
Date Received: 04/19/17 14:08

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:12	04/28/17 02:55	1
Lithium	**0.40**		0.20	mg/L		04/21/17 05:12	04/28/17 02:55	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 14:07	4
Arsenic	**0.0029**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:07	4
Barium	**0.018**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:07	4
Cadmium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 14:07	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:07	4
Cobalt	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:07	4
Lead	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:07	4
Molybdenum	**0.013**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:07	4
Selenium	**0.069**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:07	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 14:07	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		04/25/17 16:55	04/26/17 17:43	1

Client Sample ID: FC-CCR-MW75-41817

Lab Sample ID: 550-81338-21
Date Collected: 04/18/17 10:36
Matrix: Water
Date Received: 04/19/17 14:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	D1 D5	2.0	mg/L			05/09/17 22:24	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		04/21/17 05:12	04/28/17 03:01	1
Lithium	**0.43**		0.20	mg/L		04/21/17 05:12	04/28/17 03:01	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0040	mg/L		04/21/17 09:53	05/14/17 14:10	4
Arsenic	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:10	4
Barium	**0.020**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:10	4
Cadmium	**0.0022**	**D1**	0.00040	mg/L		04/21/17 09:53	05/14/17 14:10	4
Chromium	ND	D1	0.0020	mg/L		04/21/17 09:53	05/14/17 14:10	4
Cobalt	**0.043**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:10	4
Lead	**0.0031**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:10	4
Molybdenum	**0.17**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:10	4
Selenium	**0.0021**	**D1**	0.0020	mg/L		04/21/17 09:53	05/14/17 14:10	4
Thallium	ND	D1	0.00040	mg/L		04/21/17 09:53	05/14/17 14:10	4

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		04/27/17 12:12	04/29/17 14:32	1

QC Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 550-116880/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116880

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40		mg/L			05/08/17 19:12	1

Lab Sample ID: LCS 550-116880/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116880

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			4.00	4.06		mg/L		102	90 - 110		

Lab Sample ID: LCSD 550-116880/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116880

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride			4.00	4.05		mg/L		101	90 - 110	0	20

Lab Sample ID: 550-81338-5 MS — **Client Sample ID: FC-CCR-MW61-41817**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	1.1		4.00	4.56		mg/L		87	80 - 120		

Lab Sample ID: 550-81338-5 MSD — **Client Sample ID: FC-CCR-MW61-41817**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	1.1		4.00	4.50		mg/L		85	80 - 120	1	20

Lab Sample ID: MB 550-117125/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117125

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40		mg/L			05/09/17 20:33	1

Lab Sample ID: LCS 550-117125/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117125

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			4.00	4.00		mg/L		100	90 - 110		

Lab Sample ID: LCSD 550-117125/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117125

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride			4.00	4.02		mg/L		101	90 - 110	0	20

Lab Sample ID: 550-81769-A-17 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND		4.00	4.29		mg/L		101	80 - 120		

Lab Sample ID: 550-81769-A-17 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		4.00	4.25		mg/L		100	80 - 120	1	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 550-115419/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116054 — **Prep Batch: 115419**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		04/21/17 05:04	04/27/17 23:43	1
Lithium	ND		0.20		mg/L		04/21/17 05:04	04/27/17 23:43	1

Lab Sample ID: LCS 550-115419/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116054 — **Prep Batch: 115419**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Beryllium			1.00	0.966		mg/L		97	85 - 115		
Lithium			1.00	0.958		mg/L		96	85 - 115		

Lab Sample ID: LCSD 550-115419/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116054 — **Prep Batch: 115419**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium			1.00	1.03		mg/L		103	85 - 115	6	20
Lithium			1.00	1.02		mg/L		102	85 - 115	6	20

Lab Sample ID: 550-81335-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116054 — **Prep Batch: 115419**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Beryllium	ND		1.00	0.921		mg/L		92	70 - 130		
Lithium	ND		1.00	1.01		mg/L		91	70 - 130		

Lab Sample ID: 550-81335-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116054 — **Prep Batch: 115419**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	0.926		mg/L		93	70 - 130	1	20
Lithium	ND		1.00	1.02		mg/L		93	70 - 130	1	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 550-115420/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116055 — **Prep Batch: 115420**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		04/21/17 05:12	04/28/17 01:57	1
Lithium	ND		0.20		mg/L		04/21/17 05:12	04/28/17 01:57	1

Lab Sample ID: LCS 550-115420/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116055 — **Prep Batch: 115420**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Beryllium			1.00	1.01		mg/L		101	85 - 115		
Lithium			1.00	1.01		mg/L		101	85 - 115		

Lab Sample ID: LCSD 550-115420/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116055 — **Prep Batch: 115420**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium			1.00	1.01		mg/L		101	85 - 115	0	20
Lithium			1.00	1.02		mg/L		102	85 - 115	0	20

Lab Sample ID: 550-81375-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116055 — **Prep Batch: 115420**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Beryllium	ND		1.00	0.953		mg/L		95	70 - 130		
Lithium	ND		1.00	0.997		mg/L		98	70 - 130		

Lab Sample ID: 550-81375-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116055 — **Prep Batch: 115420**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	1.02		mg/L		102	70 - 130	7	20
Lithium	ND		1.00	1.06		mg/L		104	70 - 130	6	20

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-115437/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116091 — **Prep Batch: 115437**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		04/21/17 09:43	04/28/17 12:19	1
Arsenic	ND		0.00050		mg/L		04/21/17 09:43	04/28/17 12:19	1
Barium	ND		0.00050		mg/L		04/21/17 09:43	04/28/17 12:19	1
Cadmium	ND		0.00010		mg/L		04/21/17 09:43	04/28/17 12:19	1
Chromium	ND		0.00050		mg/L		04/21/17 09:43	04/28/17 12:19	1
Cobalt	ND		0.00050		mg/L		04/21/17 09:43	04/28/17 12:19	1
Lead	ND		0.00050		mg/L		04/21/17 09:43	04/28/17 12:19	1

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 550-115437/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116091 — **Prep Batch: 115437**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.00050		mg/L		04/21/17 09:43	04/28/17 12:19	1
Selenium	ND		0.00050		mg/L		04/21/17 09:43	04/28/17 12:19	1
Thallium	ND		0.00010		mg/L		04/21/17 09:43	04/28/17 12:19	1

Lab Sample ID: LCS 550-115437/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116091 — **Prep Batch: 115437**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.0993		mg/L		99	85 - 115
Arsenic	0.100	0.0973		mg/L		97	85 - 115
Barium	0.100	0.100		mg/L		100	85 - 115
Cadmium	0.100	0.101		mg/L		101	85 - 115
Chromium	0.100	0.0998		mg/L		100	85 - 115
Cobalt	0.100	0.0997		mg/L		100	85 - 115
Lead	0.100	0.101		mg/L		101	85 - 115
Molybdenum	0.100	0.102		mg/L		102	85 - 115
Selenium	0.100	0.0984		mg/L		98	85 - 115
Thallium	0.100	0.100		mg/L		100	85 - 115

Lab Sample ID: LCSD 550-115437/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116091 — **Prep Batch: 115437**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.0983		mg/L		98	85 - 115	1	20
Arsenic	0.100	0.0945		mg/L		94	85 - 115	3	20
Barium	0.100	0.0992		mg/L		99	85 - 115	1	20
Cadmium	0.100	0.0994		mg/L		99	85 - 115	1	20
Chromium	0.100	0.0981		mg/L		98	85 - 115	2	20
Cobalt	0.100	0.0984		mg/L		98	85 - 115	1	20
Lead	0.100	0.0986		mg/L		99	85 - 115	2	20
Molybdenum	0.100	0.101		mg/L		101	85 - 115	1	20
Selenium	0.100	0.0973		mg/L		97	85 - 115	1	20
Thallium	0.100	0.0988		mg/L		99	85 - 115	2	20

Lab Sample ID: 550-81087-B-7-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116091 — **Prep Batch: 115437**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.100	0.0989		mg/L		99	70 - 130
Arsenic	0.0025		0.100	0.108		mg/L		105	70 - 130
Barium	0.014		0.100	0.110		mg/L		96	70 - 130
Cadmium	ND		0.100	0.0912		mg/L		91	70 - 130
Chromium	0.014		0.100	0.112		mg/L		98	70 - 130
Cobalt	ND		0.100	0.0946		mg/L		94	70 - 130
Lead	ND		0.100	0.0865		mg/L		86	70 - 130
Molybdenum	0.0055		0.100	0.112		mg/L		107	70 - 130

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Lab Sample ID: 550-81087-B-7-C MS
Matrix: Water
Analysis Batch: 116091

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 115437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.082		0.100	0.196		mg/L		114	70 - 130
Thallium	0.00010		0.100	0.0889		mg/L		89	70 - 130

Lab Sample ID: 550-81087-B-7-D MSD
Matrix: Water
Analysis Batch: 116091

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 115437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.0989		mg/L		99	70 - 130	0	20
Arsenic	0.0025		0.100	0.108		mg/L		106	70 - 130	0	20
Barium	0.014		0.100	0.110		mg/L		97	70 - 130	0	20
Cadmium	ND		0.100	0.0906		mg/L		91	70 - 130	1	20
Chromium	0.014		0.100	0.113		mg/L		99	70 - 130	1	20
Cobalt	ND		0.100	0.0956		mg/L		95	70 - 130	1	20
Lead	ND		0.100	0.0856		mg/L		86	70 - 130	1	20
Molybdenum	0.0055		0.100	0.112		mg/L		106	70 - 130	1	20
Selenium	0.082		0.100	0.191		mg/L		109	70 - 130	3	20
Thallium	0.00010		0.100	0.0876		mg/L		87	70 - 130	1	20

Lab Sample ID: MB 550-115438/1-A
Matrix: Water
Analysis Batch: 117329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115438

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		04/21/17 09:53	05/14/17 13:22	1
Arsenic	ND		0.00050	mg/L		04/21/17 09:53	05/14/17 13:22	1
Barium	ND		0.00050	mg/L		04/21/17 09:53	05/14/17 13:22	1
Cadmium	ND		0.00010	mg/L		04/21/17 09:53	05/14/17 13:22	1
Chromium	ND		0.00050	mg/L		04/21/17 09:53	05/14/17 13:22	1
Cobalt	ND		0.00050	mg/L		04/21/17 09:53	05/14/17 13:22	1
Lead	ND		0.00050	mg/L		04/21/17 09:53	05/14/17 13:22	1
Molybdenum	ND		0.00050	mg/L		04/21/17 09:53	05/14/17 13:22	1
Selenium	ND		0.00050	mg/L		04/21/17 09:53	05/14/17 13:22	1
Thallium	ND		0.00010	mg/L		04/21/17 09:53	05/14/17 13:22	1

Lab Sample ID: LCS 550-115438/2-A
Matrix: Water
Analysis Batch: 117329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.0939		mg/L		94	85 - 115
Arsenic	0.100	0.0970		mg/L		97	85 - 115
Barium	0.100	0.0975		mg/L		98	85 - 115
Cadmium	0.100	0.0947		mg/L		95	85 - 115
Chromium	0.100	0.0960		mg/L		96	85 - 115
Cobalt	0.100	0.0954		mg/L		95	85 - 115
Lead	0.100	0.0962		mg/L		96	85 - 115
Molybdenum	0.100	0.0962		mg/L		96	85 - 115
Selenium	0.100	0.0945		mg/L		94	85 - 115

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 550-115438/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117329 — **Prep Batch: 115438**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.100	0.0956		mg/L		96	85 - 115

Lab Sample ID: LCSD 550-115438/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117329 — **Prep Batch: 115438**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.0936		mg/L		94	85 - 115	0	20
Arsenic	0.100	0.0955		mg/L		96	85 - 115	2	20
Barium	0.100	0.0974		mg/L		97	85 - 115	0	20
Cadmium	0.100	0.0950		mg/L		95	85 - 115	0	20
Chromium	0.100	0.0954		mg/L		95	85 - 115	1	20
Cobalt	0.100	0.0947		mg/L		95	85 - 115	1	20
Lead	0.100	0.0966		mg/L		97	85 - 115	0	20
Molybdenum	0.100	0.0960		mg/L		96	85 - 115	0	20
Selenium	0.100	0.0925		mg/L		93	85 - 115	2	20
Thallium	0.100	0.0969		mg/L		97	85 - 115	1	20

Lab Sample ID: 550-81383-D-1-C MS ^T — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117329 — **Prep Batch: 115438**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.100	0.0958		mg/L		96	70 - 130
Arsenic	0.0032		0.100	0.0994		mg/L		96	70 - 130
Barium	0.0090		0.100	0.105		mg/L		96	70 - 130
Cadmium	ND		0.100	0.0925		mg/L		92	70 - 130
Chromium	0.0054		0.100	0.0973		mg/L		92	70 - 130
Cobalt	ND		0.100	0.0901		mg/L		90	70 - 130
Lead	ND		0.100	0.0897		mg/L		90	70 - 130
Molybdenum	0.0056		0.100	0.104		mg/L		99	70 - 130
Selenium	0.0011		0.100	0.0926		mg/L		91	70 - 130
Thallium	ND		0.100	0.0903		mg/L		90	70 - 130

Lab Sample ID: 550-81383-D-1-D MSD ^T — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117329 — **Prep Batch: 115438**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.0967		mg/L		97	70 - 130	1	20
Arsenic	0.0032		0.100	0.0996		mg/L		96	70 - 130	0	20
Barium	0.0090		0.100	0.106		mg/L		97	70 - 130	1	20
Cadmium	ND		0.100	0.0936		mg/L		94	70 - 130	1	20
Chromium	0.0054		0.100	0.0977		mg/L		92	70 - 130	0	20
Cobalt	ND		0.100	0.0906		mg/L		91	70 - 130	1	20
Lead	ND		0.100	0.0901		mg/L		90	70 - 130	0	20
Molybdenum	0.0056		0.100	0.105		mg/L		99	70 - 130	1	20
Selenium	0.0011		0.100	0.0930		mg/L		92	70 - 130	0	20
Thallium	ND		0.100	0.0908		mg/L		91	70 - 130	0	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 550-115733/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 115920 — **Prep Batch: 115733**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		04/25/17 16:55	04/26/17 17:03	1

Lab Sample ID: LCS 550-115733/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 115920 — **Prep Batch: 115733**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg			0.0100	0.0116	L5	mg/L		116	85 - 115		

Lab Sample ID: LCSD 550-115733/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 115920 — **Prep Batch: 115733**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg			0.0100	0.0116	L5	mg/L		116	85 - 115	1	20

Lab Sample ID: 550-81338-1 MS — **Client Sample ID: FC-CCR-MW7-41817**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 115920 — **Prep Batch: 115733**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg	ND	L5	0.0100	0.0118		mg/L		118	70 - 130		

Lab Sample ID: 550-81338-1 MSD — **Client Sample ID: FC-CCR-MW7-41817**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 115920 — **Prep Batch: 115733**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	ND	L5	0.0100	0.0114		mg/L		114	70 - 130	4	20

Lab Sample ID: MB 550-115947/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116162 — **Prep Batch: 115947**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		04/27/17 12:12	04/29/17 14:24	1

Lab Sample ID: LCS 550-115947/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116162 — **Prep Batch: 115947**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg			0.0100	0.0107		mg/L		107	85 - 115		

Lab Sample ID: LCSD 550-115947/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116162 — **Prep Batch: 115947**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg			0.0100	0.0107		mg/L		107	85 - 115	0	20

QC Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Lab Sample ID: 550-81338-21 MS
Matrix: Water
Analysis Batch: 116162

Client Sample ID: FC-CCR-MW75-41817
Prep Type: Total/NA
Prep Batch: 115947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg	ND		0.0100	0.00993		mg/L		99	70 - 130		

Lab Sample ID: 550-81338-21 MSD
Matrix: Water
Analysis Batch: 116162

Client Sample ID: FC-CCR-MW75-41817
Prep Type: Total/NA
Prep Batch: 115947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	ND		0.0100	0.00937		mg/L		94	70 - 130	6	20

QC Association Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

HPLC/IC

Analysis Batch: 116880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-1	FC-CCR-MW7-41817	Total/NA	Water	300.0	
550-81338-2	FC-CCR-MW8-41817	Total/NA	Water	300.0	
550-81338-3	FC-CCR-MW49A-41817	Total/NA	Water	300.0	
550-81338-4	FC-CCR-MW60-41817	Total/NA	Water	300.0	
550-81338-5	FC-CCR-MW61-41817	Total/NA	Water	300.0	
550-81338-6	FC-CCR-MW62-41617	Total/NA	Water	300.0	
550-81338-7	FC-CCR-MW63-41717	Total/NA	Water	300.0	
550-81338-8	FC-CCR-MW64-41717	Total/NA	Water	300.0	
550-81338-9	FC-CCR-MW65-41617	Total/NA	Water	300.0	
550-81338-10	FC-CCR-MW66-41617	Total/NA	Water	300.0	
550-81338-11	FC-CCR-MW67-41717	Total/NA	Water	300.0	
550-81338-12	FC-CCR-MW68-41717	Total/NA	Water	300.0	
550-81338-13	FC-CCR-MW69-41717	Total/NA	Water	300.0	
550-81338-14	FC-CCR-FD02-41717	Total/NA	Water	300.0	
550-81338-15	FC-CCR-MW70-41617	Total/NA	Water	300.0	
550-81338-16	FC-CCR-FD01-41617	Total/NA	Water	300.0	
550-81338-17	FC-CCR-MW71-41717	Total/NA	Water	300.0	
550-81338-18	FC-CCR-MW72-41717	Total/NA	Water	300.0	
550-81338-19	FC-CCR-MW73-41817	Total/NA	Water	300.0	
MB 550-116880/2	Method Blank	Total/NA	Water	300.0	
LCS 550-116880/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-116880/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-81338-5 MS	FC-CCR-MW61-41817	Total/NA	Water	300.0	
550-81338-5 MSD	FC-CCR-MW61-41817	Total/NA	Water	300.0	

Analysis Batch: 117125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-20	FC-CCR-MW74-41817	Total/NA	Water	300.0	
550-81338-21	FC-CCR-MW75-41817	Total/NA	Water	300.0	
MB 550-117125/2	Method Blank	Total/NA	Water	300.0	
LCS 550-117125/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-117125/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-81769-A-17 MS	Matrix Spike	Total/NA	Water	300.0	
550-81769-A-17 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 115419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-1	FC-CCR-MW7-41817	Total/NA	Water	200.7	
550-81338-2	FC-CCR-MW8-41817	Total/NA	Water	200.7	
550-81338-3	FC-CCR-MW49A-41817	Total/NA	Water	200.7	
550-81338-4	FC-CCR-MW60-41817	Total/NA	Water	200.7	
550-81338-5	FC-CCR-MW61-41817	Total/NA	Water	200.7	
550-81338-6	FC-CCR-MW62-41617	Total/NA	Water	200.7	
550-81338-7	FC-CCR-MW63-41717	Total/NA	Water	200.7	
550-81338-8	FC-CCR-MW64-41717	Total/NA	Water	200.7	
550-81338-9	FC-CCR-MW65-41617	Total/NA	Water	200.7	
550-81338-10	FC-CCR-MW66-41617	Total/NA	Water	200.7	
550-81338-11	FC-CCR-MW67-41717	Total/NA	Water	200.7	

Metals (Continued)

Prep Batch: 115419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-12	FC-CCR-MW68-41717	Total/NA	Water	200.7	
550-81338-13	FC-CCR-MW69-41717	Total/NA	Water	200.7	
MB 550-115419/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-115419/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-115419/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-81335-A-1-A MS	Matrix Spike	Total/NA	Water	200.7	
550-81335-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Prep Batch: 115420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-14	FC-CCR-FD02-41717	Total/NA	Water	200.7	
550-81338-15	FC-CCR-MW70-41617	Total/NA	Water	200.7	
550-81338-16	FC-CCR-FD01-41617	Total/NA	Water	200.7	
550-81338-17	FC-CCR-MW71-41717	Total/NA	Water	200.7	
550-81338-18	FC-CCR-MW72-41717	Total/NA	Water	200.7	
550-81338-19	FC-CCR-MW73-41817	Total/NA	Water	200.7	
550-81338-20	FC-CCR-MW74-41817	Total/NA	Water	200.7	
550-81338-21	FC-CCR-MW75-41817	Total/NA	Water	200.7	
MB 550-115420/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-115420/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-115420/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-81375-A-1-A MS	Matrix Spike	Total/NA	Water	200.7	
550-81375-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Prep Batch: 115437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-1	FC-CCR-MW7-41817	Total/NA	Water	200.8	
550-81338-2	FC-CCR-MW8-41817	Total/NA	Water	200.8	
550-81338-3	FC-CCR-MW49A-41817	Total/NA	Water	200.8	
550-81338-4	FC-CCR-MW60-41817	Total/NA	Water	200.8	
550-81338-5	FC-CCR-MW61-41817	Total/NA	Water	200.8	
550-81338-6	FC-CCR-MW62-41617	Total/NA	Water	200.8	
550-81338-7	FC-CCR-MW63-41717	Total/NA	Water	200.8	
550-81338-8	FC-CCR-MW64-41717	Total/NA	Water	200.8	
MB 550-115437/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-115437/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-115437/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-81087-B-7-C MS	Matrix Spike	Total/NA	Water	200.8	
550-81087-B-7-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Prep Batch: 115438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-9	FC-CCR-MW65-41617	Total/NA	Water	200.8	
550-81338-10	FC-CCR-MW66-41617	Total/NA	Water	200.8	
550-81338-11	FC-CCR-MW67-41717	Total/NA	Water	200.8	
550-81338-12	FC-CCR-MW68-41717	Total/NA	Water	200.8	
550-81338-13	FC-CCR-MW69-41717	Total/NA	Water	200.8	
550-81338-14	FC-CCR-FD02-41717	Total/NA	Water	200.8	
550-81338-15	FC-CCR-MW70-41617	Total/NA	Water	200.8	
550-81338-16	FC-CCR-FD01-41617	Total/NA	Water	200.8	
550-81338-17	FC-CCR-MW71-41717	Total/NA	Water	200.8	

Metals (Continued)

Prep Batch: 115438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-18	FC-CCR-MW72-41717	Total/NA	Water	200.8	
550-81338-19	FC-CCR-MW73-41817	Total/NA	Water	200.8	
550-81338-20	FC-CCR-MW74-41817	Total/NA	Water	200.8	
550-81338-21	FC-CCR-MW75-41817	Total/NA	Water	200.8	
MB 550-115438/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-115438/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-115438/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-81383-D-1-C MS ^T	Matrix Spike	Total/NA	Water	200.8	
550-81383-D-1-D MSD ^T	Matrix Spike Duplicate	Total/NA	Water	200.8	

Prep Batch: 115733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-1	FC-CCR-MW7-41817	Total/NA	Water	245.1	
550-81338-2	FC-CCR-MW8-41817	Total/NA	Water	245.1	
550-81338-3	FC-CCR-MW49A-41817	Total/NA	Water	245.1	
550-81338-4	FC-CCR-MW60-41817	Total/NA	Water	245.1	
550-81338-5	FC-CCR-MW61-41817	Total/NA	Water	245.1	
550-81338-6	FC-CCR-MW62-41617	Total/NA	Water	245.1	
550-81338-7	FC-CCR-MW63-41717	Total/NA	Water	245.1	
550-81338-8	FC-CCR-MW64-41717	Total/NA	Water	245.1	
550-81338-9	FC-CCR-MW65-41617	Total/NA	Water	245.1	
550-81338-10	FC-CCR-MW66-41617	Total/NA	Water	245.1	
550-81338-11	FC-CCR-MW67-41717	Total/NA	Water	245.1	
550-81338-12	FC-CCR-MW68-41717	Total/NA	Water	245.1	
550-81338-13	FC-CCR-MW69-41717	Total/NA	Water	245.1	
550-81338-14	FC-CCR-FD02-41717	Total/NA	Water	245.1	
550-81338-15	FC-CCR-MW70-41617	Total/NA	Water	245.1	
550-81338-16	FC-CCR-FD01-41617	Total/NA	Water	245.1	
550-81338-17	FC-CCR-MW71-41717	Total/NA	Water	245.1	
550-81338-18	FC-CCR-MW72-41717	Total/NA	Water	245.1	
550-81338-19	FC-CCR-MW73-41817	Total/NA	Water	245.1	
550-81338-20	FC-CCR-MW74-41817	Total/NA	Water	245.1	
MB 550-115733/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-115733/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-115733/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-81338-1 MS	FC-CCR-MW7-41817	Total/NA	Water	245.1	
550-81338-1 MSD	FC-CCR-MW7-41817	Total/NA	Water	245.1	

Analysis Batch: 115920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-1	FC-CCR-MW7-41817	Total/NA	Water	245.1	115733
550-81338-2	FC-CCR-MW8-41817	Total/NA	Water	245.1	115733
550-81338-3	FC-CCR-MW49A-41817	Total/NA	Water	245.1	115733
550-81338-4	FC-CCR-MW60-41817	Total/NA	Water	245.1	115733
550-81338-5	FC-CCR-MW61-41817	Total/NA	Water	245.1	115733
550-81338-6	FC-CCR-MW62-41617	Total/NA	Water	245.1	115733
550-81338-7	FC-CCR-MW63-41717	Total/NA	Water	245.1	115733
550-81338-8	FC-CCR-MW64-41717	Total/NA	Water	245.1	115733
550-81338-9	FC-CCR-MW65-41617	Total/NA	Water	245.1	115733
550-81338-10	FC-CCR-MW66-41617	Total/NA	Water	245.1	115733
550-81338-11	FC-CCR-MW67-41717	Total/NA	Water	245.1	115733

Metals (Continued)

Analysis Batch: 115920 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-12	FC-CCR-MW68-41717	Total/NA	Water	245.1	115733
550-81338-13	FC-CCR-MW69-41717	Total/NA	Water	245.1	115733
550-81338-14	FC-CCR-FD02-41717	Total/NA	Water	245.1	115733
550-81338-15	FC-CCR-MW70-41617	Total/NA	Water	245.1	115733
550-81338-16	FC-CCR-FD01-41617	Total/NA	Water	245.1	115733
550-81338-17	FC-CCR-MW71-41717	Total/NA	Water	245.1	115733
550-81338-18	FC-CCR-MW72-41717	Total/NA	Water	245.1	115733
550-81338-19	FC-CCR-MW73-41817	Total/NA	Water	245.1	115733
550-81338-20	FC-CCR-MW74-41817	Total/NA	Water	245.1	115733
MB 550-115733/1-A	Method Blank	Total/NA	Water	245.1	115733
LCS 550-115733/2-A	Lab Control Sample	Total/NA	Water	245.1	115733
LCSD 550-115733/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	115733
550-81338-1 MS	FC-CCR-MW7-41817	Total/NA	Water	245.1	115733
550-81338-1 MSD	FC-CCR-MW7-41817	Total/NA	Water	245.1	115733

Prep Batch: 115947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-21	FC-CCR-MW75-41817	Total/NA	Water	245.1	
MB 550-115947/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-115947/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-115947/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-81338-21 MS	FC-CCR-MW75-41817	Total/NA	Water	245.1	
550-81338-21 MSD	FC-CCR-MW75-41817	Total/NA	Water	245.1	

Analysis Batch: 116054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-1	FC-CCR-MW7-41817	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-2	FC-CCR-MW8-41817	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-3	FC-CCR-MW49A-41817	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-4	FC-CCR-MW60-41817	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-5	FC-CCR-MW61-41817	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-6	FC-CCR-MW62-41617	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-7	FC-CCR-MW63-41717	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-8	FC-CCR-MW64-41717	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-9	FC-CCR-MW65-41617	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-10	FC-CCR-MW66-41617	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-11	FC-CCR-MW67-41717	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-12	FC-CCR-MW68-41717	Total/NA	Water	200.7 Rev 4.4	115419
550-81338-13	FC-CCR-MW69-41717	Total/NA	Water	200.7 Rev 4.4	115419
MB 550-115419/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	115419
LCS 550-115419/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	115419
LCSD 550-115419/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	115419
550-81335-A-1-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	115419
550-81335-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	115419

Analysis Batch: 116055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-14	FC-CCR-FD02-41717	Total/NA	Water	200.7 Rev 4.4	115420
550-81338-15	FC-CCR-MW70-41617	Total/NA	Water	200.7 Rev 4.4	115420
550-81338-16	FC-CCR-FD01-41617	Total/NA	Water	200.7 Rev 4.4	115420
550-81338-17	FC-CCR-MW71-41717	Total/NA	Water	200.7 Rev 4.4	115420

Metals (Continued)

Analysis Batch: 116055 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-18	FC-CCR-MW72-41717	Total/NA	Water	200.7 Rev 4.4	115420
550-81338-19	FC-CCR-MW73-41817	Total/NA	Water	200.7 Rev 4.4	115420
550-81338-20	FC-CCR-MW74-41817	Total/NA	Water	200.7 Rev 4.4	115420
550-81338-21	FC-CCR-MW75-41817	Total/NA	Water	200.7 Rev 4.4	115420
MB 550-115420/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	115420
LCS 550-115420/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	115420
LCSD 550-115420/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	115420
550-81375-A-1-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	115420
550-81375-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	115420

Analysis Batch: 116091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-1	FC-CCR-MW7-41817	Total/NA	Water	200.8 LL	115437
550-81338-2	FC-CCR-MW8-41817	Total/NA	Water	200.8 LL	115437
550-81338-8	FC-CCR-MW64-41717	Total/NA	Water	200.8 LL	115437
MB 550-115437/1-A	Method Blank	Total/NA	Water	200.8 LL	115437
LCS 550-115437/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	115437
LCSD 550-115437/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	115437
550-81087-B-7-C MS	Matrix Spike	Total/NA	Water	200.8 LL	115437
550-81087-B-7-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	115437

Analysis Batch: 116162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-21	FC-CCR-MW75-41817	Total/NA	Water	245.1	115947
MB 550-115947/1-A	Method Blank	Total/NA	Water	245.1	115947
LCS 550-115947/2-A	Lab Control Sample	Total/NA	Water	245.1	115947
LCSD 550-115947/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	115947
550-81338-21 MS	FC-CCR-MW75-41817	Total/NA	Water	245.1	115947
550-81338-21 MSD	FC-CCR-MW75-41817	Total/NA	Water	245.1	115947

Analysis Batch: 117328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-3	FC-CCR-MW49A-41817	Total/NA	Water	200.8 LL	115437
550-81338-4	FC-CCR-MW60-41817	Total/NA	Water	200.8 LL	115437
550-81338-5	FC-CCR-MW61-41817	Total/NA	Water	200.8 LL	115437
550-81338-6	FC-CCR-MW62-41617	Total/NA	Water	200.8 LL	115437
550-81338-7	FC-CCR-MW63-41717	Total/NA	Water	200.8 LL	115437
550-81338-8	FC-CCR-MW64-41717	Total/NA	Water	200.8 LL	115437

Analysis Batch: 117329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-9	FC-CCR-MW65-41617	Total/NA	Water	200.8 LL	115438
550-81338-10	FC-CCR-MW66-41617	Total/NA	Water	200.8 LL	115438
550-81338-11	FC-CCR-MW67-41717	Total/NA	Water	200.8 LL	115438
550-81338-12	FC-CCR-MW68-41717	Total/NA	Water	200.8 LL	115438
550-81338-13	FC-CCR-MW69-41717	Total/NA	Water	200.8 LL	115438
550-81338-14	FC-CCR-FD02-41717	Total/NA	Water	200.8 LL	115438
550-81338-15	FC-CCR-MW70-41617	Total/NA	Water	200.8 LL	115438
550-81338-16	FC-CCR-FD01-41617	Total/NA	Water	200.8 LL	115438
550-81338-17	FC-CCR-MW71-41717	Total/NA	Water	200.8 LL	115438
550-81338-18	FC-CCR-MW72-41717	Total/NA	Water	200.8 LL	115438

Metals (Continued)

Analysis Batch: 117329 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81338-19	FC-CCR-MW73-41817	Total/NA	Water	200.8 LL	115438
550-81338-20	FC-CCR-MW74-41817	Total/NA	Water	200.8 LL	115438
550-81338-21	FC-CCR-MW75-41817	Total/NA	Water	200.8 LL	115438
MB 550-115438/1-A	Method Blank	Total/NA	Water	200.8 LL	115438
LCS 550-115438/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	115438
LCSD 550-115438/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	115438
550-81383-D-1-C MS ^T	Matrix Spike	Total/NA	Water	200.8 LL	115438
550-81383-D-1-D MSD ^T	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	115438

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW7-41817 — Lab Sample ID: 550-81338-1

Date Collected: 04/18/17 12:27 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	116880	05/08/17 21:20	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 00:41	CJM	TAL PHX
Total/NA	Prep	200.8			115437	04/21/17 09:43	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	116091	04/28/17 13:05	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:10	JTG	TAL PHX

Client Sample ID: FC-CCR-MW8-41817 — Lab Sample ID: 550-81338-2

Date Collected: 04/18/17 11:45 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	116880	05/08/17 21:39	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 00:47	CJM	TAL PHX
Total/NA	Prep	200.8			115437	04/21/17 09:43	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	116091	04/28/17 13:08	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:12	JTG	TAL PHX

Client Sample ID: FC-CCR-MW49A-41817 — Lab Sample ID: 550-81338-3

Date Collected: 04/18/17 13:17 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	116880	05/08/17 21:57	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 00:52	CJM	TAL PHX
Total/NA	Prep	200.8			115437	04/21/17 09:43	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117328	05/14/17 13:03	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:13	JTG	TAL PHX

Client Sample ID: FC-CCR-MW60-41817 — Lab Sample ID: 550-81338-4

Date Collected: 04/18/17 11:10 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	116880	05/08/17 22:16	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 00:58	CJM	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW60-41817 — Lab Sample ID: 550-81338-4

Date Collected: 04/18/17 11:10 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			115437	04/21/17 09:43	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117328	05/14/17 13:06	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:15	JTG	TAL PHX

Client Sample ID: FC-CCR-MW61-41817 — Lab Sample ID: 550-81338-5

Date Collected: 04/18/17 10:06 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	116880	05/08/17 22:34	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 01:04	CJM	TAL PHX
Total/NA	Prep	200.8			115437	04/21/17 09:43	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117328	05/14/17 13:08	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:16	JTG	TAL PHX

Client Sample ID: FC-CCR-MW62-41617 — Lab Sample ID: 550-81338-6

Date Collected: 04/16/17 15:41 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	116880	05/08/17 23:29	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 01:10	CJM	TAL PHX
Total/NA	Prep	200.8			115437	04/21/17 09:43	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117328	05/14/17 13:11	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:18	JTG	TAL PHX

Client Sample ID: FC-CCR-MW63-41717 — Lab Sample ID: 550-81338-7

Date Collected: 04/17/17 12:18 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	116880	05/09/17 00:24	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 01:16	CJM	TAL PHX
Total/NA	Prep	200.8			115437	04/21/17 09:43	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117328	05/14/17 13:13	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:20	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW64-41717 — Lab Sample ID: 550-81338-8

Date Collected: 04/17/17 11:22 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	116880	05/09/17 00:43	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 01:22	CJM	TAL PHX
Total/NA	Prep	200.8			115437	04/21/17 09:43	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	116091	04/28/17 13:32	TEK	TAL PHX
Total/NA	Prep	200.8			115437	04/21/17 09:43	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117328	05/14/17 13:15	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:21	JTG	TAL PHX

Client Sample ID: FC-CCR-MW65-41617 — Lab Sample ID: 550-81338-9

Date Collected: 04/16/17 15:04 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	116880	05/09/17 01:01	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 01:30	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 13:36	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:23	JTG	TAL PHX

Client Sample ID: FC-CCR-MW66-41617 — Lab Sample ID: 550-81338-10

Date Collected: 04/16/17 16:21 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	116880	05/09/17 01:20	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 01:33	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 13:39	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:29	JTG	TAL PHX

Client Sample ID: FC-CCR-MW67-41717 — Lab Sample ID: 550-81338-11

Date Collected: 04/17/17 10:35 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	116880	05/09/17 01:38	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW67-41717 — Lab Sample ID: 550-81338-11

Date Collected: 04/17/17 10:35 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 01:39	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 13:41	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:24	JTG	TAL PHX

Client Sample ID: FC-CCR-MW68-41717 — Lab Sample ID: 550-81338-12

Date Collected: 04/17/17 09:58 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	116880	05/09/17 01:56	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 01:45	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 13:43	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:30	JTG	TAL PHX

Client Sample ID: FC-CCR-MW69-41717 — Lab Sample ID: 550-81338-13

Date Collected: 04/17/17 09:01 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	116880	05/09/17 02:15	JAE	TAL PHX
Total/NA	Prep	200.7			115419	04/21/17 05:04	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116054	04/28/17 01:51	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 13:46	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:32	JTG	TAL PHX

Client Sample ID: FC-CCR-FD02-41717 — Lab Sample ID: 550-81338-14

Date Collected: 04/17/17 09:01 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	116880	05/09/17 02:33	JAE	TAL PHX
Total/NA	Prep	200.7			115420	04/21/17 05:12	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116055	04/28/17 02:14	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 13:48	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-FD02-41717 — Lab Sample ID: 550-81338-14

Date Collected: 04/17/17 09:01 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	245.1		1	115920	04/26/17 17:33	JTG	TAL PHX

Client Sample ID: FC-CCR-MW70-41617 — Lab Sample ID: 550-81338-15

Date Collected: 04/16/17 17:08 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	116880	05/09/17 02:52	JAE	TAL PHX
Total/NA	Prep	200.7			115420	04/21/17 05:12	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116055	04/28/17 02:20	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 13:55	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:35	JTG	TAL PHX

Client Sample ID: FC-CCR-FD01-41617 — Lab Sample ID: 550-81338-16

Date Collected: 04/16/17 17:08 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	116880	05/09/17 03:10	JAE	TAL PHX
Total/NA	Prep	200.7			115420	04/21/17 05:12	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116055	04/28/17 02:26	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 13:58	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:37	JTG	TAL PHX

Client Sample ID: FC-CCR-MW71-41717 — Lab Sample ID: 550-81338-17

Date Collected: 04/17/17 13:16 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	116880	05/09/17 04:05	JAE	TAL PHX
Total/NA	Prep	200.7			115420	04/21/17 05:12	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116055	04/28/17 02:32	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 14:00	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:38	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW72-41717 — Lab Sample ID: 550-81338-18

Date Collected: 04/17/17 13:52 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	116880	05/09/17 04:24	JAE	TAL PHX
Total/NA	Prep	200.7			115420	04/21/17 05:12	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116055	04/28/17 02:43	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 14:02	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:40	JTG	TAL PHX

Client Sample ID: FC-CCR-MW73-41817 — Lab Sample ID: 550-81338-19

Date Collected: 04/18/17 08:32 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	116880	05/09/17 04:42	JAE	TAL PHX
Total/NA	Prep	200.7			115420	04/21/17 05:12	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116055	04/28/17 02:49	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 14:05	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:41	JTG	TAL PHX

Client Sample ID: FC-CCR-MW74-41817 — Lab Sample ID: 550-81338-20

Date Collected: 04/18/17 09:18 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	117125	05/09/17 22:05	JAE	TAL PHX
Total/NA	Prep	200.7			115420	04/21/17 05:12	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116055	04/28/17 02:55	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 14:07	TEK	TAL PHX
Total/NA	Prep	245.1			115733	04/25/17 16:55	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	115920	04/26/17 17:43	JTG	TAL PHX

Client Sample ID: FC-CCR-MW75-41817 — Lab Sample ID: 550-81338-21

Date Collected: 04/18/17 10:36 — **Matrix: Water**
Date Received: 04/19/17 14:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	117125	05/09/17 22:24	JAE	TAL PHX
Total/NA	Prep	200.7			115420	04/21/17 05:12	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116055	04/28/17 03:01	CJM	TAL PHX
Total/NA	Prep	200.8			115438	04/21/17 09:53	SGO	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Client Sample ID: FC-CCR-MW75-41817

Lab Sample ID: 550-81338-21

Date Collected: 04/18/17 10:36
Date Received: 04/19/17 14:08

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8 LL		4	117329	05/14/17 14:10	TEK	TAL PHX
Total/NA	Prep	245.1			115947	04/27/17 12:12	JTG	TAL PHX
Total/NA	Analysis	245.1		1	116162	04/29/17 14:32	JTG	TAL PHX

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Laboratory: TestAmerica Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0728	06-09-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-81338-1
SDG: Four Corners (FC) Power Plant

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PHX
200.7 Rev 4.4	Metals (ICP)	40CFR136A	TAL PHX
200.8 LL	Metals (ICP/MS)	EPA	TAL PHX
245.1	Mercury (CVAA)	EPA	TAL PHX

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

TestAmerica Phoenix
4625 E Cotton Center Blvd
Suite 189
Phoenix, AZ 85040
phone 602.437.3340 fax 602.454.9303

Chain of Custody Record

81338

Regulatory Program: CCR

TestAmerica Laboratories, Inc.

5/15/2017

Client Contact	Doug Lavarnway	Doug Lavarnway	Date:	COC No:
APS Four Corners	928-587-0319	Lab Contact:	Carrier:	3 of 6 COCs
End of County Road 6675	**Analysis Turnaround Time**			Sampler:
Fruitland, New Mexico 87416				**For Lab Use Only:**
(928) 587-0319 Phone	TAT if different from Below _____			Walk-in Client:
(xxx) xxx-xxxx FAX				Lab Sampling:
Project Name: CCR				
Site: Four Corners (FC) Power Plant				Job / SDG No.:
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 200.7 (Be, Li)	200.8 (Sb, As, Ba, Cd, Cr, Co, Pb, Mo, Se, Tl)	EPA 245.1 (Hg)	EPA 300.0 (F)	Sample Specific Notes:
FC-CCR-MW7-41817 -01	4/18/2017	1227	G	W	2	N	x	x	x	x	x	
FC-CCR-MW8-41817 -02	4/18/2017	1145	G	W	2	N	x	x	x	x	x	
FC-CCR-MW49A-41817 -03	4/18/2017	1317	G	W	2	N	x	x	x	x	x	
FC-CCR-MW60-41817 -04	4/18/2017	1110	G	W	2	N	x	x	x	x	x	
FC-CCR-MW61-41817 -05	4/18/2017	1006	G	W	2	N	x	x	x	x	x	
FC-CCR-MW62-41617 -06	4/16/2017	1541	G	W	2	N	x	x	x	x	x	
FC-CCR-MW63-41717 -07	4/17/2017	1218	G	W	2	N	x	x	x	x	x	
FC-CCR-MW64-41717 -08	4/17/2017	1122	G	W	2	N	x	x	x	x	x	
FC-CCR-MW65-41617 -09	4/16/2017	1504	G	W	2	N	x	x	x	x	x	
FC-CCR-MW66-41617 -10	4/16/2017	1621	G	W	2	N	x	x	x	x	x	
FC-CCR-MW67-41717 -11	4/17/2017	1035	G	W	2	N	x	x	x	x	x	
FC-CCR-MW68-41717 -12	4/17/2017	958	G	W	2	N	x	x	x	x	x	

550-81338 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

Method 200.8 with collision cell

2.9/2.3/2.6/4.2/0.8

Custody Seals Intact: | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by: Doug Lavarnway	Company: APS	Date/Time: 4/19/17 1408	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 4/19/17 14:08

TestAmerica Phoenix
4625 E Cotton Center Blvd
Suite 189
Phoenix, AZ 85040
phone 602.437.3340 fax 602.454.9303

Chain of Custody Record

81338

Regulatory Program: CCR

TestAmerica Laboratories, Inc.

5/15/2017

Client Contact	Doug Lavarnway	Doug Lavarnway	Date:	COC No:
APS Four Corners	928-587-0319	Lab Contact:	Carrier:	4 of 6 COCs
End of County Road 6675	**Analysis Turnaround Time**			Sampler:
Fruitland, New Mexico 87416				**For Lab Use Only:**
(928) 587-0319 Phone	TAT if different from Below _____			Walk-in Client:
(xxx) xxx-xxxx FAX				Lab Sampling:
Project Name: CCR				
Site: Four Corners (FC) Power Plant				Job / SDG No.:
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 200.7 (Be, Li)	200.8 (Sb, As, Ba, Cd, Cr, Co, Pb, Mo, Se, Tl)	EPA 245.1 (Hg)	EPA 300.0 (F)	Sample Specific Notes:
FC-CCR-MW69-41717 -13	4/17/2017	901	G	W	2	N	x	x	x	x	x	
FC-CCR-FD02-41717 -14	4/17/2017	901	G	W	2	N	x	x	x	x	x	
FC-CCR-MW70-41617 -15	4/16/2017	1708	G	W	2	N	x	x	x	x	x	
FC-CCR-FD01-41617 -16	4/16/2017	1708	G	W	2	N	x	x	x	x	x	
FC-CCR-MW71-41717 -17	4/17/2017	1316	G	W	2	N	x	x	x	x	x	
FC-CCR-MW72-41717 -18	4/17/2017	1352	G	W	2	N	x	x	x	x	x	
FC-CCR-MW73-41817 -19	4/18/2017	832	G	W	2	N	x	x	x	x	x	
FC-CCR-MW74-41817 -20	4/18/2017	918	G	W	2	N	x	x	x	x	x	
FC-CCR-MW75-41817 -21	4/18/2017	1036	G	W	2	N	x	x	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

Method 200.8 with collision cell

2.9/2.3/2.6/4.2/0.8c

Custody Seals Intact: | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Doug Lavarnway	APS	4/18/17 1400			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 4/19/17 14:05

Login Sample Receipt Checklist

Client: Arizona Public Service Company

Job Number: 550-81338-1
SDG Number: Four Corners (FC) Power Plant

Login Number: 81338
List Number: 1
Creator: Gravlin, Andrea

List Source: TestAmerica Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.