TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Phoenix
4625 East Cotton Ctr Blvd
Suite 189
Phoenix, AZ 85040
Tel: (602)437-3340

TestAmerica Job ID: 550-76919-1
Client Project/Site: CCR Four Corners

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

Attn: Doug Lavarnway

Authorized for release by:
3/7/2017 9:55:39 AM
Carissa Cumine, Project Manager I
carissa.cumine@testamericainc.com

Designee for

Ken Baker, Project Manager II
(602)659-7624
ken.baker@testamericainc.com

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

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Qualifiers

Metals

Qualifier	Qualifier Description
D1	Sample required dilution due to matrix.
B1	Target analyte detected in method blank at or above the method reporting limit.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: 550-76919-1

Laboratory: TestAmerica Phoenix

Narrative

Job Narrative
550-76919-1

Comments
No additional comments.

Receipt
The samples were received on 2/4/2017 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.4º C, 0.5º C, 0.5º C, 0.9º C and 0.9º 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: The method blank for preparation batch 550-109537 contained Chromium above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 200.8 LL: Internal standard responses were outside of acceptance limits for the following samples: FC-CCR-MW72-117 (550-76919-15), FC-CCR-MW73-117 (550-76919-16), FC-CCR-MW74-117 (550-76919-17), FC-CCR-MW100-117 (550-76919-18) and FC-CCR-MW101-117 (550-76919-19). The sample(s) shows evidence of matrix interference.

Method(s) 200.8 LL: The following sample was diluted due to the nature of the sample matrix: FC-CCR-MW40R-117 (550-76919-20). Elevated reporting limits (RLs) are provided.

Method(s) 200.8: The following samples was diluted due to the nature of the sample matrix: FC-CCR-MW49A-117 (550-76919-2), FC-CCR-MW60-117 (550-76919-3) and FC-CCR-MW62-117 (550-76919-5). Elevated reporting limits (RLs) are provided.

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 Four Corners

TestAmerica Job ID: 550-76919-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-76919-1	FC-CCR-MW7-117	Water	02/02/17 14:51	02/04/17 08:45
550-76919-2	FC-CCR-MW49A-117	Water	02/02/17 12:49	02/04/17 08:45
550-76919-3	FC-CCR-MW60-117	Water	02/02/17 14:07	02/04/17 08:45
550-76919-4	FC-CCR-MW61-117	Water	02/02/17 13:34	02/04/17 08:45
550-76919-5	FC-CCR-MW62-117	Water	02/01/17 11:00	02/04/17 08:45
550-76919-6	FC-CCR-MW63-117	Water	01/31/17 14:31	02/04/17 08:45
550-76919-7	FC-CCR-MW64-117	Water	01/31/17 15:40	02/04/17 08:45
550-76919-8	FC-CCR-MW65-117	Water	02/01/17 11:45	02/04/17 08:45
550-76919-9	FC-CCR-MW66-117	Water	02/01/17 10:15	02/04/17 08:45
550-76919-10	FC-CCR-MW67-117	Water	02/01/17 13:50	02/04/17 08:45
550-76919-11	FC-CCR-MW68-117	Water	02/01/17 14:18	02/04/17 08:45
550-76919-12	FC-CCR-MW69-117	Water	02/01/17 15:02	02/04/17 08:45
550-76919-13	FC-CCR-MW70-117	Water	02/01/17 12:53	02/04/17 08:45
550-76919-14	FC-CCR-MW71-117	Water	02/02/17 10:00	02/04/17 08:45
550-76919-15	FC-CCR-MW72-117	Water	02/02/17 09:08	02/04/17 08:45
550-76919-16	FC-CCR-MW73-117	Water	02/02/17 11:41	02/04/17 08:45
550-76919-17	FC-CCR-MW74-117	Water	02/02/17 10:50	02/04/17 08:45
550-76919-18	FC-CCR-MW100-117	Water	01/31/17 14:31	02/04/17 08:45
550-76919-19	FC-CCR-MW101-117	Water	02/02/17 09:08	02/04/17 08:45
550-76919-20	FC-CCR-MW40R-117	Water	02/02/17 15:24	02/04/17 08:45
550-76919-21	FC-CCR-MW50A-117	Water	02/02/17 15:59	02/04/17 08:45

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW7-117 — Lab Sample ID: 550-76919-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lithium	0.92		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.016		0.00050		mg/L	1		200.8 LL	Total/NA
Chromium	0.00093		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.00065		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0048		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.0063		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00017		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW49A-117 — Lab Sample ID: 550-76919-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lithium	1.4		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.00092		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.020		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.00031		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.00079		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0040		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.042		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.0018		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.0015		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW60-117 — Lab Sample ID: 550-76919-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Fluoride	7.2		0.40		mg/L	1		300.0	Total/NA
Lithium	0.82		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.00060		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.018		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.0016		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.0021		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.29		0.00050		mg/L	1		200.8 LL	Total/NA
Lead	0.00086		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.18		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.00084		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00025		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW61-117 — Lab Sample ID: 550-76919-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.1		0.40		mg/L	1		300.0	Total/NA
Lithium	0.36		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.00050		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.013		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.0011		0.00010		mg/L	1		200.8 LL	Total/NA
Cobalt	0.013		0.00050		mg/L	1		200.8 LL	Total/NA
Lead	0.00079		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.072		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.00070		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00015		0.00010		mg/L	1		200.8 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW62-117 — Lab Sample ID: 550-76919-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.4		0.40	mg/L	1		300.0	Total/NA
Arsenic	0.0025		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.027		0.00050	mg/L	1		200.8 LL	Total/NA
Chromium	0.00051		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0062		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0034		0.00050	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW63-117 — Lab Sample ID: 550-76919-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.0		0.40	mg/L	1		300.0	Total/NA
Barium	0.016		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00013		0.00010	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0041		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0024		0.00050	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW64-117 — Lab Sample ID: 550-76919-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.5		0.40	mg/L	1		300.0	Total/NA
Barium	0.025		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0012		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0048		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-MW65-117 — Lab Sample ID: 550-76919-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.0		0.40	mg/L	1		300.0	Total/NA
Barium	0.014		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0011		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0086		0.00050	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW66-117 — Lab Sample ID: 550-76919-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	19		0.40	mg/L	1		300.0	Total/NA
Lithium	0.29		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0014		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.021		0.00050	mg/L	1		200.8 LL	Total/NA
Chromium	0.0031		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0064		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.020		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.0019		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00040		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW67-117 — Lab Sample ID: 550-76919-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	16		0.40	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW67-117 (Continued) — Lab Sample ID: 550-76919-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lithium	0.36		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0033		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.019		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.00015		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.00058		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0058		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.046		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.064		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00039		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW68-117 — Lab Sample ID: 550-76919-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Fluoride	6.8		0.40		mg/L	1		300.0	Total/NA
Lithium	0.32		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0048		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.0082		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.00012		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.00081		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0034		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.010		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.17		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00080		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW69-117 — Lab Sample ID: 550-76919-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Fluoride	12		0.40		mg/L	1		300.0	Total/NA
Lithium	0.40		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0042		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.017		0.00050		mg/L	1		200.8 LL	Total/NA
Chromium	0.00083		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0046		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.016		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.015		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00017		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW70-117 — Lab Sample ID: 550-76919-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lithium	0.28		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0071		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.0089		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.00011		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.0016		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0031		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0026		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.26		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00040		0.00010		mg/L	1		200.8 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW71-117 — Lab Sample ID: 550-76919-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.39		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0094		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.012		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00011		0.00010	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0012		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.00078		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.34		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00037		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW72-117 — Lab Sample ID: 550-76919-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.39		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0041	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Barium	0.0093		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0025	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Molybdenum	0.00093		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.13	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Thallium	0.00094		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW73-117 — Lab Sample ID: 550-76919-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.21		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0015	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Barium	0.043		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00017		0.00010	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0073	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Molybdenum	0.0086		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.029	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Thallium	0.00020		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW74-117 — Lab Sample ID: 550-76919-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.7		0.40	mg/L	1		300.0	Total/NA
Lithium	0.39		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0035	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Barium	0.036	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Chromium	0.0026	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Molybdenum	0.075	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Selenium	0.089	D1	0.0010	mg/L	2		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW100-117 — Lab Sample ID: 550-76919-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.8		0.40	mg/L	1		300.0	Total/NA
Barium	0.018		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00017		0.00010	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0042	D1	0.0010	mg/L	2		200.8 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FC-CCR-MW100-117 (Continued) — Lab Sample ID: 550-76919-18

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.0023		0.00050		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW101-117 — Lab Sample ID: 550-76919-19

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lithium	0.39		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0027	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Barium	0.0084	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Cobalt	0.0025	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Molybdenum	0.0010	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.12	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Thallium	0.00096	D1	0.00020		mg/L	2		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW40R-117 — Lab Sample ID: 550-76919-20

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
Barium	0.023	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Cadmium	0.00058	D1	0.00020		mg/L	2		200.8 LL	Total/NA
Chromium	0.028	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Cobalt	0.034	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Molybdenum	0.026	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.0018	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Thallium	0.00021		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW50A-117 — Lab Sample ID: 550-76919-21

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lithium	0.36		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0020		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.11		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.00074		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.014		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0060		0.00050		mg/L	1		200.8 LL	Total/NA
Lead	0.0048		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0024		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.0018		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00018		0.00010		mg/L	1		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 Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW7-117

Lab Sample ID: 550-76919-1
Date Collected: 02/02/17 14:51
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40		mg/L			02/15/17 03:28	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		02/07/17 06:05	02/08/17 21:02	1
Lithium	**0.92**		0.20		mg/L		02/07/17 06:05	02/08/17 21:02	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		02/07/17 07:22	02/13/17 11:37	1
Arsenic	ND		0.00050		mg/L		02/07/17 07:22	02/13/17 11:37	1
Barium	**0.016**		0.00050		mg/L		02/07/17 07:22	02/13/17 11:37	1
Cadmium	ND		0.00010		mg/L		02/07/17 07:22	02/13/17 11:37	1
Chromium	**0.00093**		0.00050		mg/L		02/15/17 10:33	02/19/17 16:16	1
Cobalt	**0.00065**		0.00050		mg/L		02/07/17 07:22	02/13/17 11:37	1
Lead	ND		0.00050		mg/L		02/07/17 07:22	02/13/17 11:37	1
Molybdenum	**0.0048**		0.00050		mg/L		02/07/17 07:22	02/13/17 11:37	1
Selenium	**0.0063**		0.00050		mg/L		02/07/17 07:22	02/13/17 11:37	1
Thallium	**0.00017**		0.00010		mg/L		02/07/17 07:22	02/13/17 11:37	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		02/14/17 14:58	02/18/17 15:29	1

Client Sample ID: FC-CCR-MW49A-117

Lab Sample ID: 550-76919-2
Date Collected: 02/02/17 12:49
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40		mg/L			02/15/17 03:47	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		02/07/17 06:05	02/08/17 21:07	1
Lithium	**1.4**		0.20		mg/L		02/07/17 06:05	02/08/17 21:07	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		02/07/17 07:22	02/13/17 11:39	1
Arsenic	**0.00092**		0.00050		mg/L		02/07/17 07:22	02/13/17 11:39	1
Barium	**0.020**		0.00050		mg/L		02/07/17 07:22	02/13/17 11:39	1
Cadmium	**0.00031**		0.00010		mg/L		02/07/17 07:22	02/13/17 11:39	1
Chromium	**0.00079**		0.00050		mg/L		02/15/17 10:33	02/19/17 16:18	1
Cobalt	**0.0040**		0.00050		mg/L		02/07/17 07:22	02/13/17 11:39	1
Lead	ND		0.00050		mg/L		02/07/17 07:22	02/13/17 11:39	1
Molybdenum	**0.042**		0.00050		mg/L		02/07/17 07:22	02/13/17 11:39	1
Selenium	**0.0018**		0.00050		mg/L		02/07/17 07:22	02/13/17 11:39	1
Thallium	**0.0015**		0.00010		mg/L		02/07/17 07:22	02/13/17 11:39	1

Client Sample ID: FC-CCR-MW49A-117

Lab Sample ID: 550-76919-2

Date Collected: 02/02/17 12:49
Matrix: Water
Date Received: 02/04/17 08:45

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:30	1

Client Sample ID: FC-CCR-MW60-117

Lab Sample ID: 550-76919-3

Date Collected: 02/02/17 14:07
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	7.2		0.40	mg/L			02/15/17 04:05	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		02/07/17 06:05	02/08/17 21:14	1
Lithium	0.82		0.20	mg/L		02/07/17 06:05	02/08/17 21:14	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:22	02/13/17 11:42	1
Arsenic	0.00060		0.00050	mg/L		02/07/17 07:22	02/13/17 11:42	1
Barium	0.018		0.00050	mg/L		02/07/17 07:22	02/13/17 11:42	1
Cadmium	0.0016		0.00010	mg/L		02/07/17 07:22	02/13/17 11:42	1
Chromium	0.0021		0.00050	mg/L		02/15/17 10:33	02/19/17 16:20	1
Cobalt	0.29		0.00050	mg/L		02/07/17 07:22	02/13/17 11:42	1
Lead	0.00086		0.00050	mg/L		02/07/17 07:22	02/13/17 11:42	1
Molybdenum	0.18		0.00050	mg/L		02/07/17 07:22	02/13/17 11:42	1
Selenium	0.00084		0.00050	mg/L		02/07/17 07:22	02/13/17 11:42	1
Thallium	0.00025		0.00010	mg/L		02/07/17 07:22	02/13/17 11:42	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:32	1

Client Sample ID: FC-CCR-MW61-117

Lab Sample ID: 550-76919-4

Date Collected: 02/02/17 13:34
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.1		0.40	mg/L			02/15/17 04:23	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		02/07/17 06:05	02/08/17 21:25	1
Lithium	0.36		0.20	mg/L		02/07/17 06:05	02/08/17 21:25	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:22	02/13/17 11:44	1
Arsenic	0.00050		0.00050	mg/L		02/07/17 07:22	02/13/17 11:44	1
Barium	0.013		0.00050	mg/L		02/07/17 07:22	02/13/17 11:44	1
Cadmium	0.0011		0.00010	mg/L		02/07/17 07:22	02/13/17 11:44	1

Client Sample ID: FC-CCR-MW61-117

Lab Sample ID: 550-76919-4

Date Collected: 02/02/17 13:34

Matrix: Water

Date Received: 02/04/17 08:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:44	1
Cobalt	**0.013**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:44	1
Lead	**0.00079**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:44	1
Molybdenum	**0.072**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:44	1
Selenium	**0.00070**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:44	1
Thallium	**0.00015**		0.00010	mg/L		02/07/17 07:22	02/13/17 11:44	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:34	1

Client Sample ID: FC-CCR-MW62-117

Lab Sample ID: 550-76919-5

Date Collected: 02/01/17 11:00

Matrix: Water

Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.4**		0.40	mg/L			02/15/17 04:42	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		02/06/17 17:09	02/07/17 23:26	1
Lithium	ND		0.20	mg/L		02/06/17 17:09	02/07/17 23:26	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:22	02/13/17 11:49	1
Arsenic	**0.0025**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:49	1
Barium	**0.027**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:49	1
Cadmium	ND		0.00010	mg/L		02/07/17 07:22	02/13/17 11:49	1
Chromium	**0.00051**		0.00050	mg/L		02/15/17 10:33	02/19/17 16:23	1
Cobalt	**0.0062**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:49	1
Lead	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:49	1
Molybdenum	**0.0034**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:49	1
Selenium	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:49	1
Thallium	ND		0.00010	mg/L		02/07/17 07:22	02/13/17 11:49	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:35	1

Client Sample ID: FC-CCR-MW63-117

Lab Sample ID: 550-76919-6

Date Collected: 01/31/17 14:31

Matrix: Water

Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**2.0**		0.40	mg/L			02/15/17 07:09	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW63-117

Lab Sample ID: 550-76919-6
Date Collected: 01/31/17 14:31
Matrix: Water
Date Received: 02/04/17 08:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		02/06/17 16:22	02/07/17 17:52	1
Lithium	ND		0.20	mg/L		02/06/17 16:22	02/07/17 17:52	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:22	02/13/17 11:52	1
Arsenic	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:52	1
Barium	**0.016**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:52	1
Cadmium	**0.00013**		0.00010	mg/L		02/07/17 07:22	02/13/17 11:52	1
Chromium	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:52	1
Cobalt	**0.0041**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:52	1
Lead	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:52	1
Molybdenum	**0.0024**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:52	1
Selenium	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:52	1
Thallium	ND		0.00010	mg/L		02/07/17 07:22	02/13/17 11:52	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:37	1

Client Sample ID: FC-CCR-MW64-117

Lab Sample ID: 550-76919-7
Date Collected: 01/31/17 15:40
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.5**		0.40	mg/L			02/15/17 07:27	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		02/06/17 16:22	02/07/17 17:58	1
Lithium	ND		0.20	mg/L		02/06/17 16:22	02/07/17 17:58	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:22	02/13/17 11:54	1
Arsenic	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:54	1
Barium	**0.025**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:54	1
Cadmium	ND		0.00010	mg/L		02/07/17 07:22	02/13/17 11:54	1
Chromium	ND		0.00050	mg/L		02/15/17 10:33	02/19/17 16:25	1
Cobalt	**0.0012**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:54	1
Lead	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:54	1
Molybdenum	**0.0048**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:54	1
Selenium	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:54	1
Thallium	**0.00011**		0.00010	mg/L		02/07/17 07:22	02/13/17 11:54	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:38	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW65-117

Lab Sample ID: 550-76919-8
Date Collected: 02/01/17 11:45
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**2.0**		0.40	mg/L			02/15/17 07:46	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		02/06/17 17:09	02/07/17 23:32	1
Lithium	ND		0.20	mg/L		02/06/17 17:09	02/07/17 23:32	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:22	02/13/17 11:56	1
Arsenic	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:56	1
Barium	**0.014**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:56	1
Cadmium	ND		0.00010	mg/L		02/07/17 07:22	02/13/17 11:56	1
Chromium	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:56	1
Cobalt	**0.0011**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:56	1
Lead	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:56	1
Molybdenum	**0.0086**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:56	1
Selenium	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:56	1
Thallium	ND		0.00010	mg/L		02/07/17 07:22	02/13/17 11:56	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:40	1

Client Sample ID: FC-CCR-MW66-117

Lab Sample ID: 550-76919-9
Date Collected: 02/01/17 10:15
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**19**		0.40	mg/L			02/15/17 08:04	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		02/06/17 17:09	02/07/17 23:35	1
Lithium	**0.29**		0.20	mg/L		02/06/17 17:09	02/07/17 23:35	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:22	02/13/17 11:59	1
Arsenic	**0.0014**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:59	1
Barium	**0.021**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:59	1
Cadmium	ND		0.00010	mg/L		02/07/17 07:22	02/13/17 11:59	1
Chromium	**0.0031**		0.00050	mg/L		02/15/17 10:33	02/19/17 16:28	1
Cobalt	**0.0064**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:59	1
Lead	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:59	1
Molybdenum	**0.020**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:59	1
Selenium	**0.0019**		0.00050	mg/L		02/07/17 07:22	02/13/17 11:59	1
Thallium	**0.00040**		0.00010	mg/L		02/07/17 07:22	02/13/17 11:59	1

Client Sample ID: FC-CCR-MW66-117

Lab Sample ID: 550-76919-9
Date Collected: 02/01/17 10:15
Matrix: Water
Date Received: 02/04/17 08:45

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:41	1

Client Sample ID: FC-CCR-MW67-117

Lab Sample ID: 550-76919-10
Date Collected: 02/01/17 13:50
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**16**		0.40	mg/L			02/15/17 08:23	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		02/06/17 17:09	02/07/17 23:41	1
Lithium	**0.36**		0.20	mg/L		02/06/17 17:09	02/07/17 23:41	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/24/17 09:39	02/26/17 12:46	1
Arsenic	**0.0033**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:46	1
Barium	**0.019**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:46	1
Cadmium	**0.00015**		0.00010	mg/L		02/24/17 09:39	02/26/17 12:46	1
Chromium	**0.00058**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:46	1
Cobalt	**0.0058**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:46	1
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:46	1
Molybdenum	**0.046**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:46	1
Selenium	**0.064**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:46	1
Thallium	**0.00039**		0.00010	mg/L		02/24/17 09:39	02/26/17 12:46	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:43	1

Client Sample ID: FC-CCR-MW68-117

Lab Sample ID: 550-76919-11
Date Collected: 02/01/17 14:18
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**6.8**		0.40	mg/L			02/15/17 08:41	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		02/06/17 17:09	02/07/17 23:47	1
Lithium	**0.32**		0.20	mg/L		02/06/17 17:09	02/07/17 23:47	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/24/17 09:39	02/26/17 12:48	1
Arsenic	**0.0048**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:48	1
Barium	**0.0082**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:48	1
Cadmium	**0.00012**		0.00010	mg/L		02/24/17 09:39	02/26/17 12:48	1

Client Sample ID: FC-CCR-MW68-117 — Lab Sample ID: 550-76919-11

Date Collected: 02/01/17 14:18 — **Matrix: Water**
Date Received: 02/04/17 08:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.00081		0.00050	mg/L		02/24/17 09:39	02/26/17 12:48	1
Cobalt	0.0034		0.00050	mg/L		02/24/17 09:39	02/26/17 12:48	1
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:48	1
Molybdenum	0.010		0.00050	mg/L		02/24/17 09:39	02/26/17 12:48	1
Selenium	0.17		0.00050	mg/L		02/24/17 09:39	02/26/17 12:48	1
Thallium	0.00080		0.00010	mg/L		02/24/17 09:39	02/26/17 12:48	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:48	1

Client Sample ID: FC-CCR-MW69-117 — Lab Sample ID: 550-76919-12

Date Collected: 02/01/17 15:02 — **Matrix: Water**
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	12		0.40	mg/L			02/15/17 08:59	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		02/06/17 17:09	02/07/17 23:53	1
Lithium	0.40		0.20	mg/L		02/06/17 17:09	02/07/17 23:53	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/24/17 09:39	02/26/17 12:51	1
Arsenic	0.0042		0.00050	mg/L		02/24/17 09:39	02/26/17 12:51	1
Barium	0.017		0.00050	mg/L		02/24/17 09:39	02/26/17 12:51	1
Cadmium	ND		0.00010	mg/L		02/24/17 09:39	02/26/17 12:51	1
Chromium	0.00083		0.00050	mg/L		02/24/17 09:39	02/26/17 12:51	1
Cobalt	0.0046		0.00050	mg/L		02/24/17 09:39	02/26/17 12:51	1
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:51	1
Molybdenum	0.016		0.00050	mg/L		02/24/17 09:39	02/26/17 12:51	1
Selenium	0.015		0.00050	mg/L		02/24/17 09:39	02/26/17 12:51	1
Thallium	0.00017		0.00010	mg/L		02/24/17 09:39	02/26/17 12:51	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:49	1

Client Sample ID: FC-CCR-MW70-117 — Lab Sample ID: 550-76919-13

Date Collected: 02/01/17 12:53 — **Matrix: Water**
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			02/15/17 19:42	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW70-117

Lab Sample ID: 550-76919-13

Date Collected: 02/01/17 12:53
Matrix: Water
Date Received: 02/04/17 08:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		02/06/17 17:09	02/07/17 23:59	1
Lithium	**0.28**		0.20	mg/L		02/06/17 17:09	02/07/17 23:59	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/24/17 09:39	02/26/17 12:53	1
Arsenic	**0.0071**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:53	1
Barium	**0.0089**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:53	1
Cadmium	**0.00011**		0.00010	mg/L		02/24/17 09:39	02/26/17 12:53	1
Chromium	**0.0016**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:53	1
Cobalt	**0.0031**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:53	1
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:53	1
Molybdenum	**0.0026**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:53	1
Selenium	**0.26**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:53	1
Thallium	**0.00040**		0.00010	mg/L		02/24/17 09:39	02/26/17 12:53	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:51	1

Client Sample ID: FC-CCR-MW71-117

Lab Sample ID: 550-76919-14

Date Collected: 02/02/17 10:00
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			02/15/17 20:00	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		02/07/17 06:05	02/08/17 21:31	1
Lithium	**0.39**		0.20	mg/L		02/07/17 06:05	02/08/17 21:31	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/24/17 09:39	02/26/17 12:56	1
Arsenic	**0.0094**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:56	1
Barium	**0.012**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:56	1
Cadmium	**0.00011**		0.00010	mg/L		02/24/17 09:39	02/26/17 12:56	1
Chromium	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:56	1
Cobalt	**0.0012**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:56	1
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:56	1
Molybdenum	**0.00078**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:56	1
Selenium	**0.34**		0.00050	mg/L		02/24/17 09:39	02/26/17 12:56	1
Thallium	**0.00037**		0.00010	mg/L		02/24/17 09:39	02/26/17 12:56	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:52	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW72-117

Lab Sample ID: 550-76919-15

Date Collected: 02/02/17 09:08
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			02/15/17 20:19	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		02/07/17 06:05	02/08/17 21:37	1
Lithium	**0.39**		0.20	mg/L		02/07/17 06:05	02/08/17 21:37	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/24/17 09:39	02/26/17 13:08	1
Arsenic	**0.0041**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:37	2
Barium	**0.0093**		0.00050	mg/L		02/24/17 09:39	02/26/17 13:08	1
Cadmium	ND		0.00010	mg/L		02/24/17 09:39	02/26/17 13:08	1
Chromium	ND	D1	0.0010	mg/L		02/24/17 09:39	02/27/17 10:37	2
Cobalt	**0.0025**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:37	2
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 13:08	1
Molybdenum	**0.00093**		0.00050	mg/L		02/24/17 09:39	02/26/17 13:08	1
Selenium	**0.13**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:37	2
Thallium	**0.00094**		0.00010	mg/L		02/24/17 09:39	02/26/17 13:08	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:54	1

Client Sample ID: FC-CCR-MW73-117

Lab Sample ID: 550-76919-16

Date Collected: 02/02/17 11:41
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			02/15/17 20:37	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		02/07/17 06:05	02/08/17 21:42	1
Lithium	**0.21**		0.20	mg/L		02/07/17 06:05	02/08/17 21:42	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/24/17 09:39	02/26/17 13:10	1
Arsenic	**0.0015**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:39	2
Barium	**0.043**		0.00050	mg/L		02/24/17 09:39	02/26/17 13:10	1
Cadmium	**0.00017**		0.00010	mg/L		02/24/17 09:39	02/26/17 13:10	1
Chromium	ND	D1	0.0010	mg/L		02/24/17 09:39	02/27/17 10:39	2
Cobalt	**0.0073**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:39	2
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 13:10	1
Molybdenum	**0.0086**		0.00050	mg/L		02/24/17 09:39	02/26/17 13:10	1
Selenium	**0.029**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:39	2
Thallium	**0.00020**		0.00010	mg/L		02/24/17 09:39	02/26/17 13:10	1

Client Sample ID: FC-CCR-MW73-117

Lab Sample ID: 550-76919-16
Date Collected: 02/02/17 11:41
Matrix: Water
Date Received: 02/04/17 08:45

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:56	1

Client Sample ID: FC-CCR-MW74-117

Lab Sample ID: 550-76919-17
Date Collected: 02/02/17 10:50
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.7**		0.40	mg/L			02/15/17 22:09	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		02/07/17 06:05	02/08/17 21:48	1
Lithium	**0.39**		0.20	mg/L		02/07/17 06:05	02/08/17 21:48	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0020	mg/L		02/24/17 09:39	02/27/17 10:42	2
Arsenic	**0.0035**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:42	2
Barium	**0.036**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:42	2
Cadmium	ND	D1	0.00020	mg/L		02/24/17 09:39	02/27/17 10:42	2
Chromium	**0.0026**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:42	2
Cobalt	ND	D1	0.0010	mg/L		02/24/17 09:39	02/27/17 10:42	2
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 13:15	1
Molybdenum	**0.075**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:42	2
Selenium	**0.089**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:42	2
Thallium	ND		0.00010	mg/L		02/24/17 09:39	02/26/17 13:15	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:57	1

Client Sample ID: FC-CCR-MW100-117

Lab Sample ID: 550-76919-18
Date Collected: 01/31/17 14:31
Matrix: Water
Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.8**		0.40	mg/L			02/15/17 22:27	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		02/06/17 16:22	02/07/17 18:00	1
Lithium	ND		0.20	mg/L		02/06/17 16:22	02/07/17 18:00	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/24/17 09:39	02/26/17 13:17	1
Arsenic	ND	D1	0.0010	mg/L		02/24/17 09:39	02/27/17 10:44	2
Barium	**0.018**		0.00050	mg/L		02/24/17 09:39	02/26/17 13:17	1
Cadmium	**0.00017**		0.00010	mg/L		02/24/17 09:39	02/26/17 13:17	1

Client Sample ID: FC-CCR-MW100-117

Lab Sample ID: 550-76919-18

Date Collected: 01/31/17 14:31

Matrix: Water

Date Received: 02/04/17 08:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	D1	0.0010	mg/L		02/24/17 09:39	02/27/17 10:44	2
Cobalt	**0.0042**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:44	2
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 13:17	1
Molybdenum	**0.0023**		0.00050	mg/L		02/24/17 09:39	02/26/17 13:17	1
Selenium	ND	D1	0.0010	mg/L		02/24/17 09:39	02/27/17 10:44	2
Thallium	ND		0.00010	mg/L		02/24/17 09:39	02/26/17 13:17	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:59	1

Client Sample ID: FC-CCR-MW101-117

Lab Sample ID: 550-76919-19

Date Collected: 02/02/17 09:08

Matrix: Water

Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			02/15/17 22:46	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		02/07/17 06:05	02/08/17 21:54	1
Lithium	**0.39**		0.20	mg/L		02/07/17 06:05	02/08/17 21:54	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0020	mg/L		02/24/17 09:39	02/27/17 10:47	2
Arsenic	**0.0027**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:47	2
Barium	**0.0084**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:47	2
Cadmium	ND	D1	0.00020	mg/L		02/24/17 09:39	02/27/17 10:47	2
Chromium	ND	D1	0.0010	mg/L		02/24/17 09:39	02/27/17 10:47	2
Cobalt	**0.0025**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:47	2
Lead	ND	D1	0.0010	mg/L		02/24/17 09:39	02/27/17 10:47	2
Molybdenum	**0.0010**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:47	2
Selenium	**0.12**	**D1**	0.0010	mg/L		02/24/17 09:39	02/27/17 10:47	2
Thallium	**0.00096**	**D1**	0.00020	mg/L		02/24/17 09:39	02/27/17 10:47	2

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 16:00	1

Client Sample ID: FC-CCR-MW40R-117

Lab Sample ID: 550-76919-20

Date Collected: 02/02/17 15:24

Matrix: Water

Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			02/15/17 23:04	1

Client Sample ID: FC-CCR-MW40R-117

Lab Sample ID: 550-76919-20

Date Collected: 02/02/17 15:24

Matrix: Water

Date Received: 02/04/17 08:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		02/06/17 17:35	02/07/17 22:11	1
Lithium	**1.1**		0.20	mg/L		02/06/17 17:35	02/07/17 22:11	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0020	mg/L		02/07/17 07:29	02/28/17 14:44	2
Arsenic	ND	D1	0.0010	mg/L		02/07/17 07:29	02/28/17 14:44	2
Barium	**0.023**	**D1**	0.0010	mg/L		02/07/17 07:29	02/28/17 14:44	2
Cadmium	**0.00058**	**D1**	0.00020	mg/L		02/07/17 07:29	02/28/17 14:44	2
Chromium	**0.028**	**D1**	0.0010	mg/L		02/07/17 07:29	02/28/17 14:44	2
Cobalt	**0.034**	**D1**	0.0010	mg/L		02/07/17 07:29	02/28/17 14:44	2
Lead	ND		0.00050	mg/L		02/07/17 07:29	02/16/17 14:25	1
Molybdenum	**0.026**	**D1**	0.0010	mg/L		02/07/17 07:29	02/28/17 14:44	2
Selenium	**0.0018**	**D1**	0.0010	mg/L		02/07/17 07:29	02/28/17 14:44	2
Thallium	**0.00021**		0.00010	mg/L		02/07/17 07:29	02/16/17 14:25	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 16:02	1

Client Sample ID: FC-CCR-MW50A-117

Lab Sample ID: 550-76919-21

Date Collected: 02/02/17 15:59

Matrix: Water

Date Received: 02/04/17 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			02/15/17 23:23	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		02/06/17 17:35	02/07/17 22:17	1
Lithium	**0.36**		0.20	mg/L		02/06/17 17:35	02/07/17 22:17	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:29	02/16/17 14:22	1
Arsenic	**0.0020**		0.00050	mg/L		02/07/17 07:29	02/16/17 14:22	1
Barium	**0.11**		0.00050	mg/L		02/07/17 07:29	02/16/17 14:22	1
Cadmium	**0.00074**		0.00010	mg/L		02/07/17 07:29	02/16/17 14:22	1
Chromium	**0.014**		0.00050	mg/L		02/07/17 07:29	02/16/17 14:22	1
Cobalt	**0.0060**		0.00050	mg/L		02/07/17 07:29	02/16/17 14:22	1
Lead	**0.0048**		0.00050	mg/L		02/07/17 07:29	02/16/17 14:22	1
Molybdenum	**0.0024**		0.00050	mg/L		02/07/17 07:29	02/16/17 14:22	1
Selenium	**0.0018**		0.00050	mg/L		02/07/17 07:29	02/16/17 14:22	1
Thallium	**0.00018**		0.00010	mg/L		02/07/17 07:29	02/16/17 14:22	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/16/17 16:12	02/17/17 14:31	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 550-110161/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110161

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40		mg/L			02/14/17 12:26	1

Lab Sample ID: LCS 550-110161/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110161

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			4.00	4.31		mg/L		108	90 - 110		

Lab Sample ID: LCSD 550-110161/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110161

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride			4.00	4.31		mg/L		108	90 - 110	0	20

Lab Sample ID: 550-77538-A-5 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND		4.00	4.52		mg/L		106	80 - 120		

Lab Sample ID: 550-77538-A-5 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		4.00	4.50		mg/L		105	80 - 120	1	20

Lab Sample ID: MB 550-110162/41 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110162

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40		mg/L			02/15/17 05:19	1

Lab Sample ID: LCS 550-110162/42 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110162

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			4.00	4.34		mg/L		109	90 - 110		

Lab Sample ID: LCSD 550-110162/43 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110162

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride			4.00	4.33		mg/L		108	90 - 110	0	20

QC Sample Results

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Lab Sample ID: 550-77538-A-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND		4.00	4.31		mg/L		99	80 - 120		

Lab Sample ID: 550-77538-A-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110162

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		4.00	4.81		mg/L		112	80 - 120	11	20

Lab Sample ID: MB 550-110285/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110285

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40		mg/L			02/15/17 10:13	1

Lab Sample ID: LCS 550-110285/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110285

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			4.00	4.35		mg/L		109	90 - 110		

Lab Sample ID: LCSD 550-110285/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110285

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride			4.00	4.36		mg/L		109	90 - 110	0	20

Lab Sample ID: 550-77588-A-10 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	0.57		4.00	4.82		mg/L		106	80 - 120		

Lab Sample ID: 550-77588-A-10 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.57		4.00	4.82		mg/L		106	80 - 120	0	20

Lab Sample ID: MB 550-110286/30 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110286

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40		mg/L			02/15/17 21:14	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 550-110286/31 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.31		mg/L		108	90 - 110

Lab Sample ID: LCSD 550-110286/32 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	4.00	4.31		mg/L		108	90 - 110	0	20

Lab Sample ID: 550-77218-A-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		4.00	4.61		mg/L		108	80 - 120

Lab Sample ID: 550-77218-A-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		4.00	4.54		mg/L		106	80 - 120	2	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 550-109518/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109680 — **Prep Batch: 109518**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		02/06/17 16:22	02/07/17 16:36	1
Lithium	ND		0.20	mg/L		02/06/17 16:22	02/07/17 16:36	1

Lab Sample ID: LCS 550-109518/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109680 — **Prep Batch: 109518**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1.00	0.961		mg/L		96	85 - 115
Lithium	1.00	0.948		mg/L		95	85 - 115

Lab Sample ID: LCSD 550-109518/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109680 — **Prep Batch: 109518**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	1.00	0.959		mg/L		96	85 - 115	0	20
Lithium	1.00	0.947		mg/L		95	85 - 115	0	20

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

Lab Sample ID: 550-76887-F-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109680 — **Prep Batch: 109518**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	ND		1.00	0.950		mg/L		95	70 - 130
Lithium	ND		1.00	1.03		mg/L		96	70 - 130

Lab Sample ID: 550-76887-F-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109680 — **Prep Batch: 109518**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	0.936		mg/L		94	70 - 130	1	20
Lithium	ND		1.00	1.04		mg/L		97	70 - 130	1	20

Lab Sample ID: MB 550-109524/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109684 — **Prep Batch: 109524**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		02/06/17 17:09	02/07/17 22:28	1
Lithium	ND		0.20	mg/L		02/06/17 17:09	02/07/17 22:28	1

Lab Sample ID: LCS 550-109524/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109684 — **Prep Batch: 109524**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1.00	0.932		mg/L		93	85 - 115
Lithium	1.00	0.928		mg/L		93	85 - 115

Lab Sample ID: LCSD 550-109524/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109684 — **Prep Batch: 109524**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	1.00	0.934		mg/L		93	85 - 115	0	20
Lithium	1.00	0.935		mg/L		94	85 - 115	1	20

Lab Sample ID: 550-76903-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109684 — **Prep Batch: 109524**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	ND		1.00	0.944		mg/L		94	70 - 130
Lithium	ND		1.00	0.982		mg/L		94	70 - 130

Lab Sample ID: 550-76903-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109684 — **Prep Batch: 109524**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	0.950		mg/L		95	70 - 130	1	20

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

Lab Sample ID: 550-76903-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109684 — **Prep Batch: 109524**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	ND		1.00	0.989		mg/L		94	70 - 130	1	20

Lab Sample ID: MB 550-109527/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109683 — **Prep Batch: 109527**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		02/06/17 17:35	02/07/17 20:53	1
Lithium	ND		0.20	mg/L		02/06/17 17:35	02/07/17 20:53	1

Lab Sample ID: LCS 550-109527/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109683 — **Prep Batch: 109527**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1.00	0.927		mg/L		93	85 - 115
Lithium	1.00	0.940		mg/L		94	85 - 115

Lab Sample ID: LCSD 550-109527/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109683 — **Prep Batch: 109527**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	1.00	0.929		mg/L		93	85 - 115	0	20
Lithium	1.00	0.932		mg/L		93	85 - 115	1	20

Lab Sample ID: 550-76787-D-2-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109683 — **Prep Batch: 109527**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	ND		1.00	0.937		mg/L		94	70 - 130
Lithium	ND		1.00	0.988		mg/L		95	70 - 130

Lab Sample ID: 550-76787-D-2-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109683 — **Prep Batch: 109527**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	0.942		mg/L		94	70 - 130	1	20
Lithium	ND		1.00	0.996		mg/L		96	70 - 130	1	20

Lab Sample ID: MB 550-109533/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109747 — **Prep Batch: 109533**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		02/07/17 06:05	02/08/17 20:19	1
Lithium	ND		0.20	mg/L		02/07/17 06:05	02/08/17 20:19	1

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

Lab Sample ID: LCS 550-109533/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109747 — **Prep Batch: 109533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1.00	0.993		mg/L		99	85 - 115
Lithium	1.00	1.01		mg/L		101	85 - 115

Lab Sample ID: LCSD 550-109533/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109747 — **Prep Batch: 109533**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	1.00	0.986		mg/L		99	85 - 115	1	20
Lithium	1.00	1.00		mg/L		100	85 - 115	1	20

Lab Sample ID: 550-76907-A-2-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109747 — **Prep Batch: 109533**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	ND		1.00	0.997		mg/L		100	70 - 130
Lithium	ND		1.00	1.05		mg/L		100	70 - 130

Lab Sample ID: 550-76907-A-2-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109747 — **Prep Batch: 109533**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	1.00		mg/L		100	70 - 130	0	20
Lithium	ND		1.00	1.06		mg/L		101	70 - 130	1	20

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-109537/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109994 — **Prep Batch: 109537**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:22	02/13/17 11:22	1
Arsenic	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:22	1
Barium	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:22	1
Cadmium	ND		0.00010	mg/L		02/07/17 07:22	02/13/17 11:22	1
Chromium	0.00981	B1	0.00050	mg/L		02/07/17 07:22	02/13/17 11:22	1
Cobalt	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:22	1
Lead	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:22	1
Molybdenum	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:22	1
Selenium	ND		0.00050	mg/L		02/07/17 07:22	02/13/17 11:22	1
Thallium	ND		0.00010	mg/L		02/07/17 07:22	02/13/17 11:22	1

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

Lab Sample ID: LCS 550-109537/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109994 — **Prep Batch: 109537**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.0956		mg/L		96	85 - 115
Arsenic	0.100	0.0951		mg/L		95	85 - 115
Barium	0.100	0.0956		mg/L		96	85 - 115
Cadmium	0.100	0.0956		mg/L		96	85 - 115
Chromium	0.100	0.0962		mg/L		96	85 - 115
Cobalt	0.100	0.0958		mg/L		96	85 - 115
Lead	0.100	0.0967		mg/L		97	85 - 115
Molybdenum	0.100	0.0949		mg/L		95	85 - 115
Selenium	0.100	0.0955		mg/L		96	85 - 115
Thallium	0.100	0.0951		mg/L		95	85 - 115

Lab Sample ID: LCSD 550-109537/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109994 — **Prep Batch: 109537**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.0961		mg/L		96	85 - 115	1	20
Arsenic	0.100	0.0957		mg/L		96	85 - 115	1	20
Barium	0.100	0.0962		mg/L		96	85 - 115	1	20
Cadmium	0.100	0.0963		mg/L		96	85 - 115	1	20
Chromium	0.100	0.0966		mg/L		97	85 - 115	0	20
Cobalt	0.100	0.0963		mg/L		96	85 - 115	0	20
Lead	0.100	0.0971		mg/L		97	85 - 115	0	20
Molybdenum	0.100	0.0954		mg/L		95	85 - 115	0	20
Selenium	0.100	0.0951		mg/L		95	85 - 115	0	20
Thallium	0.100	0.0964		mg/L		96	85 - 115	1	20

Lab Sample ID: 550-76907-A-2-E MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109994 — **Prep Batch: 109537**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0026		0.100	0.101		mg/L		98	70 - 130
Arsenic	0.00087		0.100	0.0985		mg/L		98	70 - 130
Barium	0.015		0.100	0.110		mg/L		96	70 - 130
Cadmium	0.025		0.100	0.117		mg/L		92	70 - 130
Chromium	0.0011	B1	0.100	0.0959		mg/L		95	70 - 130
Cobalt	0.029		0.100	0.122		mg/L		93	70 - 130
Lead	ND		0.100	0.0907		mg/L		91	70 - 130
Molybdenum	0.054		0.100	0.153		mg/L		99	70 - 130
Selenium	0.011		0.100	0.109		mg/L		98	70 - 130
Thallium	0.0049		0.100	0.0944		mg/L		90	70 - 130

Lab Sample ID: 550-76907-A-2-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109994 — **Prep Batch: 109537**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.0026		0.100	0.101		mg/L		98	70 - 130	0	20

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

Lab Sample ID: 550-76907-A-2-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 109994 — **Prep Batch: 109537**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.00087		0.100	0.0985		mg/L		98	70 - 130	0	20
Barium	0.015		0.100	0.111		mg/L		96	70 - 130	0	20
Cadmium	0.025		0.100	0.117		mg/L		92	70 - 130	0	20
Chromium	0.0011	B1	0.100	0.0953		mg/L		94	70 - 130	1	20
Cobalt	0.029		0.100	0.122		mg/L		94	70 - 130	0	20
Lead	ND		0.100	0.0909		mg/L		91	70 - 130	0	20
Molybdenum	0.054		0.100	0.154		mg/L		100	70 - 130	0	20
Selenium	0.011		0.100	0.110		mg/L		98	70 - 130	0	20
Thallium	0.0049		0.100	0.0947		mg/L		90	70 - 130	0	20

Lab Sample ID: MB 550-109538/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110340 — **Prep Batch: 109538**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/07/17 07:29	02/16/17 13:56	1
Arsenic	ND		0.00050	mg/L		02/07/17 07:29	02/16/17 13:56	1
Barium	ND		0.00050	mg/L		02/07/17 07:29	02/16/17 13:56	1
Cadmium	ND		0.00010	mg/L		02/07/17 07:29	02/16/17 13:56	1
Chromium	ND		0.00050	mg/L		02/07/17 07:29	02/16/17 13:56	1
Cobalt	ND		0.00050	mg/L		02/07/17 07:29	02/16/17 13:56	1
Lead	ND		0.00050	mg/L		02/07/17 07:29	02/16/17 13:56	1
Molybdenum	ND		0.00050	mg/L		02/07/17 07:29	02/16/17 13:56	1
Selenium	ND		0.00050	mg/L		02/07/17 07:29	02/16/17 13:56	1
Thallium	ND		0.00010	mg/L		02/07/17 07:29	02/16/17 13:56	1

Lab Sample ID: LCS 550-109538/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110340 — **Prep Batch: 109538**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.101		mg/L		101	85 - 115
Arsenic	0.100	0.101		mg/L		101	85 - 115
Barium	0.100	0.102		mg/L		102	85 - 115
Cadmium	0.100	0.102		mg/L		102	85 - 115
Chromium	0.100	0.0974		mg/L		97	85 - 115
Cobalt	0.100	0.103		mg/L		103	85 - 115
Lead	0.100	0.101		mg/L		101	85 - 115
Molybdenum	0.100	0.103		mg/L		103	85 - 115
Selenium	0.100	0.0997		mg/L		100	85 - 115
Thallium	0.100	0.0995		mg/L		99	85 - 115

Lab Sample ID: LCSD 550-109538/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110340 — **Prep Batch: 109538**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.102		mg/L		102	85 - 115	1	20
Arsenic	0.100	0.101		mg/L		101	85 - 115	0	20

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

Lab Sample ID: LCSD 550-109538/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110340 — **Prep Batch: 109538**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.100	0.102		mg/L		102	85 - 115	1	20
Cadmium	0.100	0.103		mg/L		103	85 - 115	1	20
Chromium	0.100	0.0979		mg/L		98	85 - 115	1	20
Cobalt	0.100	0.101		mg/L		101	85 - 115	2	20
Lead	0.100	0.101		mg/L		101	85 - 115	0	20
Molybdenum	0.100	0.104		mg/L		104	85 - 115	1	20
Selenium	0.100	0.100		mg/L		100	85 - 115	1	20
Thallium	0.100	0.101		mg/L		101	85 - 115	1	20

Lab Sample ID: 550-76935-I-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110340 — **Prep Batch: 109538**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.100	0.103		mg/L		103	70 - 130
Arsenic	0.017		0.100	0.116		mg/L		99	70 - 130
Barium	0.015		0.100	0.115		mg/L		100	70 - 130
Cadmium	ND		0.100	0.100		mg/L		100	70 - 130
Chromium	0.011		0.100	0.101		mg/L		90	70 - 130
Cobalt	ND		0.100	0.0940		mg/L		94	70 - 130
Lead	ND		0.100	0.0930		mg/L		93	70 - 130
Molybdenum	0.00082		0.100	0.104		mg/L		103	70 - 130
Selenium	0.0024		0.100	0.0996		mg/L		97	70 - 130
Thallium	ND		0.100	0.0916		mg/L		92	70 - 130

Lab Sample ID: 550-76935-I-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110340 — **Prep Batch: 109538**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.106		mg/L		106	70 - 130	3	20
Arsenic	0.017		0.100	0.118		mg/L		101	70 - 130	1	20
Barium	0.015		0.100	0.118		mg/L		103	70 - 130	2	20
Cadmium	ND		0.100	0.103		mg/L		103	70 - 130	2	20
Chromium	0.011		0.100	0.102		mg/L		91	70 - 130	1	20
Cobalt	ND		0.100	0.0954		mg/L		95	70 - 130	1	20
Lead	ND		0.100	0.0954		mg/L		95	70 - 130	3	20
Molybdenum	0.00082		0.100	0.109		mg/L		108	70 - 130	4	20
Selenium	0.0024		0.100	0.101		mg/L		99	70 - 130	1	20
Thallium	ND		0.100	0.0942		mg/L		94	70 - 130	3	20

Lab Sample ID: MB 550-110159/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110504 — **Prep Batch: 110159**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.00050	mg/L		02/15/17 09:33	02/19/17 15:52	1

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

Lab Sample ID: LCS 550-110159/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110504 — **Prep Batch: 110159**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.100	0.0941		mg/L		94	85 - 115

Lab Sample ID: LCSD 550-110159/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110504 — **Prep Batch: 110159**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	0.100	0.0959		mg/L		96	85 - 115	2	20

Lab Sample ID: 550-77449-B-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110504 — **Prep Batch: 110159**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.034		0.100	0.126		mg/L		92	70 - 130

Lab Sample ID: 550-77449-B-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110504 — **Prep Batch: 110159**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	0.034		0.100	0.125		mg/L		91	70 - 130	1	20

Lab Sample ID: MB 550-110987/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 111093 — **Prep Batch: 110987**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L		02/24/17 09:39	02/26/17 12:24	1
Arsenic	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:24	1
Barium	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:24	1
Cadmium	ND		0.00010	mg/L		02/24/17 09:39	02/26/17 12:24	1
Chromium	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:24	1
Cobalt	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:24	1
Lead	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:24	1
Molybdenum	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:24	1
Selenium	ND		0.00050	mg/L		02/24/17 09:39	02/26/17 12:24	1
Thallium	ND		0.00010	mg/L		02/24/17 09:39	02/26/17 12:24	1

Lab Sample ID: LCS 550-110987/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 111093 — **Prep Batch: 110987**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.0960		mg/L		96	85 - 115
Arsenic	0.100	0.0977		mg/L		98	85 - 115
Barium	0.100	0.0959		mg/L		96	85 - 115
Cadmium	0.100	0.102		mg/L		102	85 - 115
Chromium	0.100	0.0998		mg/L		100	85 - 115

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

Lab Sample ID: LCS 550-110987/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 111093 — **Prep Batch: 110987**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.100	0.103		mg/L		103	85 - 115
Lead	0.100	0.102		mg/L		102	85 - 115
Molybdenum	0.100	0.106		mg/L		106	85 - 115
Selenium	0.100	0.0924		mg/L		92	85 - 115
Thallium	0.100	0.101		mg/L		101	85 - 115

Lab Sample ID: LCSD 550-110987/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 111093 — **Prep Batch: 110987**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.0961		mg/L		96	85 - 115	0	20
Arsenic	0.100	0.0962		mg/L		96	85 - 115	2	20
Barium	0.100	0.0963		mg/L		96	85 - 115	0	20
Cadmium	0.100	0.102		mg/L		102	85 - 115	0	20
Chromium	0.100	0.0985		mg/L		98	85 - 115	1	20
Cobalt	0.100	0.102		mg/L		102	85 - 115	1	20
Lead	0.100	0.101		mg/L		101	85 - 115	1	20
Molybdenum	0.100	0.105		mg/L		105	85 - 115	1	20
Selenium	0.100	0.0911		mg/L		91	85 - 115	1	20
Thallium	0.100	0.100		mg/L		100	85 - 115	0	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 550-110107/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110519 — **Prep Batch: 110107**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/14/17 14:58	02/18/17 15:21	1

Lab Sample ID: LCS 550-110107/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110519 — **Prep Batch: 110107**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	0.0100	0.0109		mg/L		109	85 - 115

Lab Sample ID: LCSD 550-110107/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110519 — **Prep Batch: 110107**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	0.0100	0.0103		mg/L		103	85 - 115	5	20

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 550-76919-1 MS — **Client Sample ID: FC-CCR-MW7-117**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110519 — **Prep Batch: 110107**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	ND		0.0100	0.0109		mg/L		109	70 - 130

Lab Sample ID: 550-76919-1 MSD — **Client Sample ID: FC-CCR-MW7-117**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110519 — **Prep Batch: 110107**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	ND		0.0100	0.0107		mg/L		107	70 - 130	2	20

Lab Sample ID: MB 550-110323/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110436 — **Prep Batch: 110323**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		02/16/17 16:12	02/17/17 14:22	1

Lab Sample ID: LCS 550-110323/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110436 — **Prep Batch: 110323**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	0.0100	0.0109		mg/L		109	85 - 115

Lab Sample ID: LCSD 550-110323/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110436 — **Prep Batch: 110323**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	0.0100	0.0105		mg/L		105	85 - 115	4	20

Lab Sample ID: 550-77152-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110436 — **Prep Batch: 110323**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	ND		0.0100	0.0101		mg/L		101	70 - 130

Lab Sample ID: 550-77152-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 110436 — **Prep Batch: 110323**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	ND		0.0100	0.0102		mg/L		102	70 - 130	1	20

HPLC/IC

Analysis Batch: 110161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1	FC-CCR-MW7-117	Total/NA	Water	300.0	
550-76919-2	FC-CCR-MW49A-117	Total/NA	Water	300.0	
550-76919-3	FC-CCR-MW60-117	Total/NA	Water	300.0	
550-76919-4	FC-CCR-MW61-117	Total/NA	Water	300.0	
550-76919-5	FC-CCR-MW62-117	Total/NA	Water	300.0	
MB 550-110161/2	Method Blank	Total/NA	Water	300.0	
LCS 550-110161/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-110161/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-77538-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
550-77538-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 110162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-6	FC-CCR-MW63-117	Total/NA	Water	300.0	
550-76919-7	FC-CCR-MW64-117	Total/NA	Water	300.0	
550-76919-8	FC-CCR-MW65-117	Total/NA	Water	300.0	
550-76919-9	FC-CCR-MW66-117	Total/NA	Water	300.0	
550-76919-10	FC-CCR-MW67-117	Total/NA	Water	300.0	
550-76919-11	FC-CCR-MW68-117	Total/NA	Water	300.0	
550-76919-12	FC-CCR-MW69-117	Total/NA	Water	300.0	
MB 550-110162/41	Method Blank	Total/NA	Water	300.0	
LCS 550-110162/42	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-110162/43	Lab Control Sample Dup	Total/NA	Water	300.0	
550-77538-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
550-77538-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 110285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-13	FC-CCR-MW70-117	Total/NA	Water	300.0	
550-76919-14	FC-CCR-MW71-117	Total/NA	Water	300.0	
550-76919-15	FC-CCR-MW72-117	Total/NA	Water	300.0	
550-76919-16	FC-CCR-MW73-117	Total/NA	Water	300.0	
MB 550-110285/2	Method Blank	Total/NA	Water	300.0	
LCS 550-110285/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-110285/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-77588-A-10 MS	Matrix Spike	Total/NA	Water	300.0	
550-77588-A-10 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 110286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-17	FC-CCR-MW74-117	Total/NA	Water	300.0	
550-76919-18	FC-CCR-MW100-117	Total/NA	Water	300.0	
550-76919-19	FC-CCR-MW101-117	Total/NA	Water	300.0	
550-76919-20	FC-CCR-MW40R-117	Total/NA	Water	300.0	
550-76919-21	FC-CCR-MW50A-117	Total/NA	Water	300.0	
MB 550-110286/30	Method Blank	Total/NA	Water	300.0	
LCS 550-110286/31	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-110286/32	Lab Control Sample Dup	Total/NA	Water	300.0	
550-77218-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
550-77218-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 109518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-6	FC-CCR-MW63-117	Total/NA	Water	200.7	
550-76919-7	FC-CCR-MW64-117	Total/NA	Water	200.7	
550-76919-18	FC-CCR-MW100-117	Total/NA	Water	200.7	
MB 550-109518/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-109518/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-109518/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-76887-F-1-A MS	Matrix Spike	Total/NA	Water	200.7	
550-76887-F-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Prep Batch: 109524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-5	FC-CCR-MW62-117	Total/NA	Water	200.7	
550-76919-8	FC-CCR-MW65-117	Total/NA	Water	200.7	
550-76919-9	FC-CCR-MW66-117	Total/NA	Water	200.7	
550-76919-10	FC-CCR-MW67-117	Total/NA	Water	200.7	
550-76919-11	FC-CCR-MW68-117	Total/NA	Water	200.7	
550-76919-12	FC-CCR-MW69-117	Total/NA	Water	200.7	
550-76919-13	FC-CCR-MW70-117	Total/NA	Water	200.7	
MB 550-109524/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-109524/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-109524/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-76903-A-1-D MS	Matrix Spike	Total/NA	Water	200.7	
550-76903-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Prep Batch: 109527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-20	FC-CCR-MW40R-117	Total/NA	Water	200.7	
550-76919-21	FC-CCR-MW50A-117	Total/NA	Water	200.7	
MB 550-109527/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-109527/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-109527/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-76787-D-2-A MS	Matrix Spike	Total/NA	Water	200.7	
550-76787-D-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Prep Batch: 109533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1	FC-CCR-MW7-117	Total/NA	Water	200.7	
550-76919-2	FC-CCR-MW49A-117	Total/NA	Water	200.7	
550-76919-3	FC-CCR-MW60-117	Total/NA	Water	200.7	
550-76919-4	FC-CCR-MW61-117	Total/NA	Water	200.7	
550-76919-14	FC-CCR-MW71-117	Total/NA	Water	200.7	
550-76919-15	FC-CCR-MW72-117	Total/NA	Water	200.7	
550-76919-16	FC-CCR-MW73-117	Total/NA	Water	200.7	
550-76919-17	FC-CCR-MW74-117	Total/NA	Water	200.7	
550-76919-19	FC-CCR-MW101-117	Total/NA	Water	200.7	
MB 550-109533/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-109533/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-109533/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-76907-A-2-A MS	Matrix Spike	Total/NA	Water	200.7	
550-76907-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Metals (Continued)

Prep Batch: 109537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1	FC-CCR-MW7-117	Total/NA	Water	200.8	
550-76919-2	FC-CCR-MW49A-117	Total/NA	Water	200.8	
550-76919-3	FC-CCR-MW60-117	Total/NA	Water	200.8	
550-76919-4	FC-CCR-MW61-117	Total/NA	Water	200.8	
550-76919-5	FC-CCR-MW62-117	Total/NA	Water	200.8	
550-76919-6	FC-CCR-MW63-117	Total/NA	Water	200.8	
550-76919-7	FC-CCR-MW64-117	Total/NA	Water	200.8	
550-76919-8	FC-CCR-MW65-117	Total/NA	Water	200.8	
550-76919-9	FC-CCR-MW66-117	Total/NA	Water	200.8	
MB 550-109537/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-109537/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-109537/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-76907-A-2-E MS	Matrix Spike	Total/NA	Water	200.8	
550-76907-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Prep Batch: 109538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-20	FC-CCR-MW40R-117	Total/NA	Water	200.8	
550-76919-21	FC-CCR-MW50A-117	Total/NA	Water	200.8	
MB 550-109538/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-109538/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-109538/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-76935-I-1-C MS	Matrix Spike	Total/NA	Water	200.8	
550-76935-I-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 109680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-6	FC-CCR-MW63-117	Total/NA	Water	200.7 Rev 4.4	109518
550-76919-7	FC-CCR-MW64-117	Total/NA	Water	200.7 Rev 4.4	109518
550-76919-18	FC-CCR-MW100-117	Total/NA	Water	200.7 Rev 4.4	109518
MB 550-109518/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	109518
LCS 550-109518/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	109518
LCSD 550-109518/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	109518
550-76887-F-1-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	109518
550-76887-F-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	109518

Analysis Batch: 109683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-20	FC-CCR-MW40R-117	Total/NA	Water	200.7 Rev 4.4	109527
550-76919-21	FC-CCR-MW50A-117	Total/NA	Water	200.7 Rev 4.4	109527
MB 550-109527/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	109527
LCS 550-109527/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	109527
LCSD 550-109527/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	109527
550-76787-D-2-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	109527
550-76787-D-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	109527

Analysis Batch: 109684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-5	FC-CCR-MW62-117	Total/NA	Water	200.7 Rev 4.4	109524
550-76919-8	FC-CCR-MW65-117	Total/NA	Water	200.7 Rev 4.4	109524
550-76919-9	FC-CCR-MW66-117	Total/NA	Water	200.7 Rev 4.4	109524

Metals (Continued)

Analysis Batch: 109684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-10	FC-CCR-MW67-117	Total/NA	Water	200.7 Rev 4.4	109524
550-76919-11	FC-CCR-MW68-117	Total/NA	Water	200.7 Rev 4.4	109524
550-76919-12	FC-CCR-MW69-117	Total/NA	Water	200.7 Rev 4.4	109524
550-76919-13	FC-CCR-MW70-117	Total/NA	Water	200.7 Rev 4.4	109524
MB 550-109524/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	109524
LCS 550-109524/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	109524
LCSD 550-109524/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	109524
550-76903-A-1-D MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	109524
550-76903-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	109524

Analysis Batch: 109747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1	FC-CCR-MW7-117	Total/NA	Water	200.7 Rev 4.4	109533
550-76919-2	FC-CCR-MW49A-117	Total/NA	Water	200.7 Rev 4.4	109533
550-76919-3	FC-CCR-MW60-117	Total/NA	Water	200.7 Rev 4.4	109533
550-76919-4	FC-CCR-MW61-117	Total/NA	Water	200.7 Rev 4.4	109533
550-76919-14	FC-CCR-MW71-117	Total/NA	Water	200.7 Rev 4.4	109533
550-76919-15	FC-CCR-MW72-117	Total/NA	Water	200.7 Rev 4.4	109533
550-76919-16	FC-CCR-MW73-117	Total/NA	Water	200.7 Rev 4.4	109533
550-76919-17	FC-CCR-MW74-117	Total/NA	Water	200.7 Rev 4.4	109533
550-76919-19	FC-CCR-MW101-117	Total/NA	Water	200.7 Rev 4.4	109533
MB 550-109533/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	109533
LCS 550-109533/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	109533
LCSD 550-109533/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	109533
550-76907-A-2-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	109533
550-76907-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	109533

Analysis Batch: 109994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1	FC-CCR-MW7-117	Total/NA	Water	200.8 LL	109537
550-76919-2	FC-CCR-MW49A-117	Total/NA	Water	200.8 LL	109537
550-76919-3	FC-CCR-MW60-117	Total/NA	Water	200.8 LL	109537
550-76919-4	FC-CCR-MW61-117	Total/NA	Water	200.8 LL	109537
550-76919-5	FC-CCR-MW62-117	Total/NA	Water	200.8 LL	109537
550-76919-6	FC-CCR-MW63-117	Total/NA	Water	200.8 LL	109537
550-76919-7	FC-CCR-MW64-117	Total/NA	Water	200.8 LL	109537
550-76919-8	FC-CCR-MW65-117	Total/NA	Water	200.8 LL	109537
550-76919-9	FC-CCR-MW66-117	Total/NA	Water	200.8 LL	109537
MB 550-109537/1-A	Method Blank	Total/NA	Water	200.8 LL	109537
LCS 550-109537/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	109537
LCSD 550-109537/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	109537
550-76907-A-2-E MS	Matrix Spike	Total/NA	Water	200.8 LL	109537
550-76907-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	109537

Prep Batch: 110107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1	FC-CCR-MW7-117	Total/NA	Water	245.1	
550-76919-2	FC-CCR-MW49A-117	Total/NA	Water	245.1	
550-76919-3	FC-CCR-MW60-117	Total/NA	Water	245.1	
550-76919-4	FC-CCR-MW61-117	Total/NA	Water	245.1	
550-76919-5	FC-CCR-MW62-117	Total/NA	Water	245.1	

Metals (Continued)

Prep Batch: 110107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-6	FC-CCR-MW63-117	Total/NA	Water	245.1	
550-76919-7	FC-CCR-MW64-117	Total/NA	Water	245.1	
550-76919-8	FC-CCR-MW65-117	Total/NA	Water	245.1	
550-76919-9	FC-CCR-MW66-117	Total/NA	Water	245.1	
550-76919-10	FC-CCR-MW67-117	Total/NA	Water	245.1	
550-76919-11	FC-CCR-MW68-117	Total/NA	Water	245.1	
550-76919-12	FC-CCR-MW69-117	Total/NA	Water	245.1	
550-76919-13	FC-CCR-MW70-117	Total/NA	Water	245.1	
550-76919-14	FC-CCR-MW71-117	Total/NA	Water	245.1	
550-76919-15	FC-CCR-MW72-117	Total/NA	Water	245.1	
550-76919-16	FC-CCR-MW73-117	Total/NA	Water	245.1	
550-76919-17	FC-CCR-MW74-117	Total/NA	Water	245.1	
550-76919-18	FC-CCR-MW100-117	Total/NA	Water	245.1	
550-76919-19	FC-CCR-MW101-117	Total/NA	Water	245.1	
550-76919-20	FC-CCR-MW40R-117	Total/NA	Water	245.1	
MB 550-110107/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-110107/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-110107/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-76919-1 MS	FC-CCR-MW7-117	Total/NA	Water	245.1	
550-76919-1 MSD	FC-CCR-MW7-117	Total/NA	Water	245.1	

Prep Batch: 110159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1	FC-CCR-MW7-117	Total/NA	Water	200.8	
550-76919-2	FC-CCR-MW49A-117	Total/NA	Water	200.8	
550-76919-3	FC-CCR-MW60-117	Total/NA	Water	200.8	
550-76919-5	FC-CCR-MW62-117	Total/NA	Water	200.8	
550-76919-7	FC-CCR-MW64-117	Total/NA	Water	200.8	
550-76919-9	FC-CCR-MW66-117	Total/NA	Water	200.8	
MB 550-110159/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-110159/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-110159/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-77449-B-1-B MS	Matrix Spike	Total/NA	Water	200.8	
550-77449-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Prep Batch: 110323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-21	FC-CCR-MW50A-117	Total/NA	Water	245.1	
MB 550-110323/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-110323/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-110323/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-77152-A-1-B MS	Matrix Spike	Total/NA	Water	245.1	
550-77152-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 110340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-20	FC-CCR-MW40R-117	Total/NA	Water	200.8 LL	109538
550-76919-21	FC-CCR-MW50A-117	Total/NA	Water	200.8 LL	109538
MB 550-109538/1-A	Method Blank	Total/NA	Water	200.8 LL	109538
LCS 550-109538/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	109538
LCSD 550-109538/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	109538

Metals (Continued)

Analysis Batch: 110340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76935-I-1-C MS	Matrix Spike	Total/NA	Water	200.8 LL	109538
550-76935-I-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	109538

Analysis Batch: 110436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-21	FC-CCR-MW50A-117	Total/NA	Water	245.1	110323
MB 550-110323/1-A	Method Blank	Total/NA	Water	245.1	110323
LCS 550-110323/2-A	Lab Control Sample	Total/NA	Water	245.1	110323
LCSD 550-110323/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	110323
550-77152-A-1-B MS	Matrix Spike	Total/NA	Water	245.1	110323
550-77152-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	110323

Analysis Batch: 110504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1	FC-CCR-MW7-117	Total/NA	Water	200.8 LL	110159
550-76919-2	FC-CCR-MW49A-117	Total/NA	Water	200.8 LL	110159
550-76919-3	FC-CCR-MW60-117	Total/NA	Water	200.8 LL	110159
550-76919-5	FC-CCR-MW62-117	Total/NA	Water	200.8 LL	110159
550-76919-7	FC-CCR-MW64-117	Total/NA	Water	200.8 LL	110159
550-76919-9	FC-CCR-MW66-117	Total/NA	Water	200.8 LL	110159
MB 550-110159/1-A	Method Blank	Total/NA	Water	200.8 LL	110159
LCS 550-110159/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	110159
LCSD 550-110159/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	110159
550-77449-B-1-B MS	Matrix Spike	Total/NA	Water	200.8 LL	110159
550-77449-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	110159

Analysis Batch: 110519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1	FC-CCR-MW7-117	Total/NA	Water	245.1	110107
550-76919-2	FC-CCR-MW49A-117	Total/NA	Water	245.1	110107
550-76919-3	FC-CCR-MW60-117	Total/NA	Water	245.1	110107
550-76919-4	FC-CCR-MW61-117	Total/NA	Water	245.1	110107
550-76919-5	FC-CCR-MW62-117	Total/NA	Water	245.1	110107
550-76919-6	FC-CCR-MW63-117	Total/NA	Water	245.1	110107
550-76919-7	FC-CCR-MW64-117	Total/NA	Water	245.1	110107
550-76919-8	FC-CCR-MW65-117	Total/NA	Water	245.1	110107
550-76919-9	FC-CCR-MW66-117	Total/NA	Water	245.1	110107
550-76919-10	FC-CCR-MW67-117	Total/NA	Water	245.1	110107
550-76919-11	FC-CCR-MW68-117	Total/NA	Water	245.1	110107
550-76919-12	FC-CCR-MW69-117	Total/NA	Water	245.1	110107
550-76919-13	FC-CCR-MW70-117	Total/NA	Water	245.1	110107
550-76919-14	FC-CCR-MW71-117	Total/NA	Water	245.1	110107
550-76919-15	FC-CCR-MW72-117	Total/NA	Water	245.1	110107
550-76919-16	FC-CCR-MW73-117	Total/NA	Water	245.1	110107
550-76919-17	FC-CCR-MW74-117	Total/NA	Water	245.1	110107
550-76919-18	FC-CCR-MW100-117	Total/NA	Water	245.1	110107
550-76919-19	FC-CCR-MW101-117	Total/NA	Water	245.1	110107
550-76919-20	FC-CCR-MW40R-117	Total/NA	Water	245.1	110107
MB 550-110107/1-A	Method Blank	Total/NA	Water	245.1	110107
LCS 550-110107/2-A	Lab Control Sample	Total/NA	Water	245.1	110107
LCSD 550-110107/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	110107

Metals (Continued)

Analysis Batch: 110519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-1 MS	FC-CCR-MW7-117	Total/NA	Water	245.1	110107
550-76919-1 MSD	FC-CCR-MW7-117	Total/NA	Water	245.1	110107

Prep Batch: 110987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-10	FC-CCR-MW67-117	Total/NA	Water	200.8	
550-76919-11	FC-CCR-MW68-117	Total/NA	Water	200.8	
550-76919-12	FC-CCR-MW69-117	Total/NA	Water	200.8	
550-76919-13	FC-CCR-MW70-117	Total/NA	Water	200.8	
550-76919-14	FC-CCR-MW71-117	Total/NA	Water	200.8	
550-76919-15	FC-CCR-MW72-117	Total/NA	Water	200.8	
550-76919-16	FC-CCR-MW73-117	Total/NA	Water	200.8	
550-76919-17	FC-CCR-MW74-117	Total/NA	Water	200.8	
550-76919-18	FC-CCR-MW100-117	Total/NA	Water	200.8	
550-76919-19	FC-CCR-MW101-117	Total/NA	Water	200.8	
MB 550-110987/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-110987/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-110987/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	

Analysis Batch: 111093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-10	FC-CCR-MW67-117	Total/NA	Water	200.8 LL	110987
550-76919-11	FC-CCR-MW68-117	Total/NA	Water	200.8 LL	110987
550-76919-12	FC-CCR-MW69-117	Total/NA	Water	200.8 LL	110987
550-76919-13	FC-CCR-MW70-117	Total/NA	Water	200.8 LL	110987
550-76919-14	FC-CCR-MW71-117	Total/NA	Water	200.8 LL	110987
550-76919-15	FC-CCR-MW72-117	Total/NA	Water	200.8 LL	110987
550-76919-16	FC-CCR-MW73-117	Total/NA	Water	200.8 LL	110987
550-76919-17	FC-CCR-MW74-117	Total/NA	Water	200.8 LL	110987
550-76919-18	FC-CCR-MW100-117	Total/NA	Water	200.8 LL	110987
MB 550-110987/1-A	Method Blank	Total/NA	Water	200.8 LL	110987
LCS 550-110987/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	110987
LCSD 550-110987/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	110987

Analysis Batch: 111133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-15	FC-CCR-MW72-117	Total/NA	Water	200.8 LL	110987
550-76919-16	FC-CCR-MW73-117	Total/NA	Water	200.8 LL	110987
550-76919-17	FC-CCR-MW74-117	Total/NA	Water	200.8 LL	110987
550-76919-18	FC-CCR-MW100-117	Total/NA	Water	200.8 LL	110987
550-76919-19	FC-CCR-MW101-117	Total/NA	Water	200.8 LL	110987

Analysis Batch: 111252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-76919-20	FC-CCR-MW40R-117	Total/NA	Water	200.8 LL	109538

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW7-117

Lab Sample ID: 550-76919-1
Date Collected: 02/02/17 14:51
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110161	02/15/17 03:28	BCB	TAL PHX
Total/NA	Prep	200.7			109533	02/07/17 06:05	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109747	02/08/17 21:02	CJD	TAL PHX
Total/NA	Prep	200.8			109537	02/07/17 07:22	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	109994	02/13/17 11:37	TEK	TAL PHX
Total/NA	Prep	200.8			110159	02/15/17 10:33	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	110504	02/19/17 16:16	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:29	JTG	TAL PHX

Client Sample ID: FC-CCR-MW49A-117

Lab Sample ID: 550-76919-2
Date Collected: 02/02/17 12:49
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110161	02/15/17 03:47	BCB	TAL PHX
Total/NA	Prep	200.7			109533	02/07/17 06:05	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109747	02/08/17 21:07	CJD	TAL PHX
Total/NA	Prep	200.8			109537	02/07/17 07:22	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	109994	02/13/17 11:39	TEK	TAL PHX
Total/NA	Prep	200.8			110159	02/15/17 10:33	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	110504	02/19/17 16:18	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:30	JTG	TAL PHX

Client Sample ID: FC-CCR-MW60-117

Lab Sample ID: 550-76919-3
Date Collected: 02/02/17 14:07
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110161	02/15/17 04:05	BCB	TAL PHX
Total/NA	Prep	200.7			109533	02/07/17 06:05	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109747	02/08/17 21:14	CJD	TAL PHX
Total/NA	Prep	200.8			109537	02/07/17 07:22	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	109994	02/13/17 11:42	TEK	TAL PHX
Total/NA	Prep	200.8			110159	02/15/17 10:33	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	110504	02/19/17 16:20	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:32	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW61-117

Lab Sample ID: 550-76919-4

Date Collected: 02/02/17 13:34
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110161	02/15/17 04:23	BCB	TAL PHX
Total/NA	Prep	200.7			109533	02/07/17 06:05	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109747	02/08/17 21:25	CJD	TAL PHX
Total/NA	Prep	200.8			109537	02/07/17 07:22	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	109994	02/13/17 11:44	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:34	JTG	TAL PHX

Client Sample ID: FC-CCR-MW62-117

Lab Sample ID: 550-76919-5

Date Collected: 02/01/17 11:00
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110161	02/15/17 04:42	BCB	TAL PHX
Total/NA	Prep	200.7			109524	02/06/17 17:09	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109684	02/07/17 23:26	CJD	TAL PHX
Total/NA	Prep	200.8			109537	02/07/17 07:22	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	109994	02/13/17 11:49	TEK	TAL PHX
Total/NA	Prep	200.8			110159	02/15/17 10:33	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	110504	02/19/17 16:23	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:35	JTG	TAL PHX

Client Sample ID: FC-CCR-MW63-117

Lab Sample ID: 550-76919-6

Date Collected: 01/31/17 14:31
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110162	02/15/17 07:09	BCB	TAL PHX
Total/NA	Prep	200.7			109518	02/06/17 16:22	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109680	02/07/17 17:52	CJD	TAL PHX
Total/NA	Prep	200.8			109537	02/07/17 07:22	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	109994	02/13/17 11:52	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:37	JTG	TAL PHX

Client Sample ID: FC-CCR-MW64-117

Lab Sample ID: 550-76919-7

Date Collected: 01/31/17 15:40
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110162	02/15/17 07:27	BCB	TAL PHX
Total/NA	Prep	200.7			109518	02/06/17 16:22	EXZ	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW64-117

Lab Sample ID: 550-76919-7
Date Collected: 01/31/17 15:40
Matrix: Water
Date Received: 02/04/17 08:45

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	109680	02/07/17 17:58	CJD	TAL PHX
Total/NA	Prep	200.8			109537	02/07/17 07:22	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	109994	02/13/17 11:54	TEK	TAL PHX
Total/NA	Prep	200.8			110159	02/15/17 10:33	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	110504	02/19/17 16:25	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:38	JTG	TAL PHX

Client Sample ID: FC-CCR-MW65-117

Lab Sample ID: 550-76919-8
Date Collected: 02/01/17 11:45
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110162	02/15/17 07:46	BCB	TAL PHX
Total/NA	Prep	200.7			109524	02/06/17 17:09	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109684	02/07/17 23:32	CJD	TAL PHX
Total/NA	Prep	200.8			109537	02/07/17 07:22	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	109994	02/13/17 11:56	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:40	JTG	TAL PHX

Client Sample ID: FC-CCR-MW66-117

Lab Sample ID: 550-76919-9
Date Collected: 02/01/17 10:15
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110162	02/15/17 08:04	BCB	TAL PHX
Total/NA	Prep	200.7			109524	02/06/17 17:09	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109684	02/07/17 23:35	CJD	TAL PHX
Total/NA	Prep	200.8			109537	02/07/17 07:22	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	109994	02/13/17 11:59	TEK	TAL PHX
Total/NA	Prep	200.8			110159	02/15/17 10:33	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	110504	02/19/17 16:28	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:41	JTG	TAL PHX

Client Sample ID: FC-CCR-MW67-117

Lab Sample ID: 550-76919-10
Date Collected: 02/01/17 13:50
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110162	02/15/17 08:23	BCB	TAL PHX
Total/NA	Prep	200.7			109524	02/06/17 17:09	EXZ	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW67-117

Lab Sample ID: 550-76919-10
Date Collected: 02/01/17 13:50
Matrix: Water
Date Received: 02/04/17 08:45

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	109684	02/07/17 23:41	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	111093	02/26/17 12:46	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:43	JTG	TAL PHX

Client Sample ID: FC-CCR-MW68-117

Lab Sample ID: 550-76919-11
Date Collected: 02/01/17 14:18
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110162	02/15/17 08:41	BCB	TAL PHX
Total/NA	Prep	200.7			109524	02/06/17 17:09	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109684	02/07/17 23:47	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	111093	02/26/17 12:48	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:48	JTG	TAL PHX

Client Sample ID: FC-CCR-MW69-117

Lab Sample ID: 550-76919-12
Date Collected: 02/01/17 15:02
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110162	02/15/17 08:59	BCB	TAL PHX
Total/NA	Prep	200.7			109524	02/06/17 17:09	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109684	02/07/17 23:53	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	111093	02/26/17 12:51	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:49	JTG	TAL PHX

Client Sample ID: FC-CCR-MW70-117

Lab Sample ID: 550-76919-13
Date Collected: 02/01/17 12:53
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110285	02/15/17 19:42	BCB	TAL PHX
Total/NA	Prep	200.7			109524	02/06/17 17:09	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109684	02/07/17 23:59	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	111093	02/26/17 12:53	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW70-117 — Lab Sample ID: 550-76919-13

Date Collected: 02/01/17 12:53 — **Matrix: Water**
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	245.1		1	110519	02/18/17 15:51	JTG	TAL PHX

Client Sample ID: FC-CCR-MW71-117 — Lab Sample ID: 550-76919-14

Date Collected: 02/02/17 10:00 — **Matrix: Water**
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110285	02/15/17 20:00	BCB	TAL PHX
Total/NA	Prep	200.7			109533	02/07/17 06:05	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109747	02/08/17 21:31	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	111093	02/26/17 12:56	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:52	JTG	TAL PHX

Client Sample ID: FC-CCR-MW72-117 — Lab Sample ID: 550-76919-15

Date Collected: 02/02/17 09:08 — **Matrix: Water**
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110285	02/15/17 20:19	BCB	TAL PHX
Total/NA	Prep	200.7			109533	02/07/17 06:05	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109747	02/08/17 21:37	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	111093	02/26/17 13:08	TEK	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	111133	02/27/17 10:37	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:54	JTG	TAL PHX

Client Sample ID: FC-CCR-MW73-117 — Lab Sample ID: 550-76919-16

Date Collected: 02/02/17 11:41 — **Matrix: Water**
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110285	02/15/17 20:37	BCB	TAL PHX
Total/NA	Prep	200.7			109533	02/07/17 06:05	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109747	02/08/17 21:42	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	111093	02/26/17 13:10	TEK	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	111133	02/27/17 10:39	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW73-117 — Lab Sample ID: 550-76919-16

Date Collected: 02/02/17 11:41 — **Matrix: Water**
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	245.1		1	110519	02/18/17 15:56	JTG	TAL PHX

Client Sample ID: FC-CCR-MW74-117 — Lab Sample ID: 550-76919-17

Date Collected: 02/02/17 10:50 — **Matrix: Water**
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110286	02/15/17 22:09	BCB	TAL PHX
Total/NA	Prep	200.7			109533	02/07/17 06:05	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109747	02/08/17 21:48	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	111093	02/26/17 13:15	TEK	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	111133	02/27/17 10:42	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:57	JTG	TAL PHX

Client Sample ID: FC-CCR-MW100-117 — Lab Sample ID: 550-76919-18

Date Collected: 01/31/17 14:31 — **Matrix: Water**
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110286	02/15/17 22:27	BCB	TAL PHX
Total/NA	Prep	200.7			109518	02/06/17 16:22	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109680	02/07/17 18:00	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	111093	02/26/17 13:17	TEK	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	111133	02/27/17 10:44	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 15:59	JTG	TAL PHX

Client Sample ID: FC-CCR-MW101-117 — Lab Sample ID: 550-76919-19

Date Collected: 02/02/17 09:08 — **Matrix: Water**
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110286	02/15/17 22:46	BCB	TAL PHX
Total/NA	Prep	200.7			109533	02/07/17 06:05	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109747	02/08/17 21:54	CJD	TAL PHX
Total/NA	Prep	200.8			110987	02/24/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	111133	02/27/17 10:47	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Client Sample ID: FC-CCR-MW101-117

Lab Sample ID: 550-76919-19

Date Collected: 02/02/17 09:08
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	245.1		1	110519	02/18/17 16:00	JTG	TAL PHX

Client Sample ID: FC-CCR-MW40R-117

Lab Sample ID: 550-76919-20

Date Collected: 02/02/17 15:24
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110286	02/15/17 23:04	BCB	TAL PHX
Total/NA	Prep	200.7			109527	02/06/17 17:35	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109683	02/07/17 22:11	CJD	TAL PHX
Total/NA	Prep	200.8			109538	02/07/17 07:29	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	110340	02/16/17 14:25	TEK	TAL PHX
Total/NA	Prep	200.8			109538	02/07/17 07:29	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	111252	02/28/17 14:44	TEK	TAL PHX
Total/NA	Prep	245.1			110107	02/14/17 14:58	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110519	02/18/17 16:02	JTG	TAL PHX

Client Sample ID: FC-CCR-MW50A-117

Lab Sample ID: 550-76919-21

Date Collected: 02/02/17 15:59
Matrix: Water
Date Received: 02/04/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	110286	02/15/17 23:23	BCB	TAL PHX
Total/NA	Prep	200.7			109527	02/06/17 17:35	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	109683	02/07/17 22:17	CJD	TAL PHX
Total/NA	Prep	200.8			109538	02/07/17 07:29	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	110340	02/16/17 14:22	TEK	TAL PHX
Total/NA	Prep	245.1			110323	02/16/17 16:12	JTG	TAL PHX
Total/NA	Analysis	245.1		1	110436	02/17/17 14:31	JTG	TAL PHX

Laboratory References:

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

Certification Summary

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

Laboratory: TestAmerica Phoenix

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0728	06-09-17

Method Summary

Client: Arizona Public Service Company
Project/Site: CCR Four Corners

TestAmerica Job ID: 550-76919-1

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

76919

550-76919 Chain of Custody

CCR

TestAmerica Laboratories, Inc.

3/7/2017

Client Contact		Doug Lavarnway	Date:	COC No:
APS Four Corners		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-MW7-117	2/2/2017	1451	G	W	2	N	x	x	x	x	x	-01
FC-CCR-MW49A-117	2/2/2017	1249	G	W	2	N	x	x	x	x	x	-02
FC-CCR-MW60-117	2/2/2017	1407	G	W	2	N	x	x	x	x	x	-03
FC-CCR-MW61-117	2/2/2017	1334	G	W	2	N	x	x	x	x	x	-04
FC-CCR-MW62-117	2/1/2017	1100	G	W	2	N	x	x	x	x	x	-05
FC-CCR-MW63-117	1/31/2017	1431	G	W	2	N	x	x	x	x	x	-06
FC-CCR-MW64-117	1/31/2017	1540	G	W	2	N	x	x	x	x	x	-07
FC-CCR-MW65-117	2/1/2017	1145	G	W	2	N	x	x	x	x	x	-08
FC-CCR-MW66-117	2/1/2017	1015	G	W	2	N	x	x	x	x	x	-09
FC-CCR-MW67-117	2/1/2017	1350	G	W	2	N	x	x	x	x	x	-10
FC-CCR-MW68-117	2/1/2017	1418	G	W	2	N	x	x	x	x	x	-11

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

0.5°C, 0.9°C, 0.9°C, 0.5°C, 0.4°C

Custody Seals Intact:	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____		
Relinquished by: Doug Lavarnway	Company: APS	Date/Time: 2/3/17	Received by: Diana Rogers	Company: Rel J	Date/Time: 2/3/17 4:31p
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 2-4-17 845

4°C

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

Chain of Custody Record

76919

3/7/2017

Regulatory Program: CCR

TestAmerica Laboratories, Inc.

Client Contact	**Doug Lavarnway**	**Doug Lavarnway**	**Date:**
APS Four Corners	**928-587-0319**	**Lab Contact:**	**Carrier:**
End of County Road 6675	**Analysis Turnaround Time**		
Fruitland, New Mexico 87416			
(928) 587-0319 Phone	TAT if different from Below _____		
(xxx) xxx-xxxx FAX			
Project Name: CCR			
Site: Four Corners (FC) Power Plant			
P O #			

COC No: 4 of 6 COCs

Sampler:

For Lab Use Only:
Walk-in Client:
Lab Sampling:

Job / SDG No.:

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-MW69-117	2/1/2017	1502	G	W	2	N	x	x	x	x	x	-12
FC-CCR-MW70-117	2/1/2017	1253	G	W	2	N	x	x	x	x	x	-13
FC-CCR-MW71-117	2/2/2017	1000	G	W	2	N	x	x	x	x	x	-14
FC-CCR-MW72-117	2/2/2017	0908	G	W	2	N	x	x	x	x	x	-15
FC-CCR-MW73-117	2/2/2017	1141	G	W	2	N	x	x	x	x	x	-16
FC-CCR-MW74-117	2/2/2017	1050	G	W	2	N	x	x	x	x	x	-17
FC-CCR-MW100-117	1/31/2017	1431	G	W	2	N	x	x	x	x	x	-18
FC-CCR-MW101-117	2/2/2017	0908	G	W	2	N	x	x	x	x	x	-19
FC-CCR-MW40R-117	2/2/2017	1524	G	W	2	N	x	x	x	x	x	-20
FC-CCR-MW50A-117	2/2/2017	1559	G	W	2	N	x	x	x	x	x	-21

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

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	2/3/17	Diana Rogers	RetJ	2/3/17 4:30p
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: PC	Company:	Date/Time: 2-4-17 0845

Form No. CA-C-WI-002, Rev. 4.2, dated 04/02/2013

Login Sample Receipt Checklist

Client: Arizona Public Service Company

Job Number: 550-76919-1

Login Number: 76919

List Source: TestAmerica Phoenix

List Number: 1

Creator: Doerr, Bret C

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?	False	
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	