TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 240-57710-1
Client Project/Site: CCR FCPP APS Four Corners

For:
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Authorized for release by:
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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
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: 240-57710-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: AECOM Technical Services Inc.

Project: CCR FCPP APS Four Corners

Report Number: 240-57710-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/10/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3º C and 3.6º C.

The sulfuric preserved bottle for sample FC-CCR-FD-1-110615 (240-57710-3) was received empty. The laboratory will wait to make sure all other analyses are complete and then will split an aliquot from the unpreserved container for sample FC-CCR-FD-1-110615 (240-57710-3). The laboratory will then preserve the aliquot and analyze for nitrate-nitrite as nitrogen.

TOTAL RECOVERABLE METALS (ICPMS)

Samples FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-FD-1-110615 (240-57710-3), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6), FC-CCR-FB-1-110915 (240-57710-7) and FC-CCR-MW62-110915 (240-57710-8) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/11/2015 and analyzed on 11/17/2015, 11/18/2015 and 11/20/2015.

Sodium was detected in method blank MB 240-206266/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Samples FC-CCR-MW68-110615 (240-57710-1)[5X], FC-CCR-MW68-110615 (240-57710-1)[500X], FC-CCR-MW61-110615 (240-57710-2)[10X], FC-CCR-MW61-110615 (240-57710-2)[5X], FC-CCR-MW61-110615 (240-57710-2)[500X], FC-CCR-FD-1-110615

Job ID: 240-57710-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

(240-57710-3)[10X], FC-CCR-FD-1-110615 (240-57710-3)[5X], FC-CCR-FD-1-110615 (240-57710-3)[500X], FC-CCR-MW7-110715 (240-57710-4)[10X], FC-CCR-MW7-110715 (240-57710-4)[100X], FC-CCR-MW7-110715 (240-57710-4)[5X], FC-CCR-MW60-110815 (240-57710-5)[10X], FC-CCR-MW60-110815 (240-57710-5)[5X], FC-CCR-MW60-110815 (240-57710-5)[500X], FC-CCR-MW70-110915 (240-57710-6)[10X], FC-CCR-MW70-110915 (240-57710-6)[5X], FC-CCR-MW70-110915 (240-57710-6)[500X], FC-CCR-MW62-110915 (240-57710-8)[10X], FC-CCR-MW62-110915 (240-57710-8)[20X] and FC-CCR-MW62-110915 (240-57710-8)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following samples were diluted due to the nature of the sample matrix: FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-FD-1-110615 (240-57710-3), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6) and FC-CCR-MW62-110915 (240-57710-8). Elevated reporting limits (RLs) are provided.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-FD-1-110615 (240-57710-3), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6), FC-CCR-FB-1-110915 (240-57710-7) and FC-CCR-MW62-110915 (240-57710-8). The continuing calibration blanks and method blanks may not support the lower PQL.

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

MERCURY

Samples FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-FD-1-110615 (240-57710-3), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6), FC-CCR-FB-1-110915 (240-57710-7) and FC-CCR-MW62-110915 (240-57710-8) were analyzed for mercury in accordance with EPA Method 245.1. The samples were prepared on 11/11/2015 and analyzed on 11/12/2015.

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

ALKALINITY

Samples FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-FD-1-110615 (240-57710-3), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6), FC-CCR-FB-1-110915 (240-57710-7) and FC-CCR-MW62-110915 (240-57710-8) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 11/12/2015.

Alkalinity and Bicarbonate Alkalinity as CaCO3 were detected in method blank MB 240-206521/30 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Alkalinity and Bicarbonate Alkalinity as CaCO3 were detected in method blank MB 240-206521/52 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Alkalinity and Bicarbonate Alkalinity as CaCO3 were detected in method blank MB 240-206633/38 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Alkalinity was detected in method blank MB 240-206633/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Carbonate Alkalinity as CaCO3 exceeded the RPD limit for the duplicate of sample FC-CCR-MW61-110615DU (240-57710-2).

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

TOTAL DISSOLVED SOLIDS

Job ID: 240-57710-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Samples FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-FD-1-110615 (240-57710-3), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6), FC-CCR-FB-1-110915 (240-57710-7) and FC-CCR-MW62-110915 (240-57710-8) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 11/12/2015, 11/13/2015 and 11/18/2015.

Reanalysis of the following sample was performed outside of the analytical holding time due to sample needing a larger dilution. Residue was greater than the 0.2 mg/L limit : FC-CCR-MW68-110615 (240-57710-1).

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

ANIONS

Samples FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-FD-1-110615 (240-57710-3), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6), FC-CCR-FB-1-110915 (240-57710-7) and FC-CCR-MW62-110915 (240-57710-8) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 11/17/2015 and 11/18/2015.

Samples FC-CCR-MW68-110615 (240-57710-1)[20X], FC-CCR-MW68-110615 (240-57710-1)[50X], FC-CCR-MW61-110615 (240-57710-2)[20X], FC-CCR-FD-1-110615 (240-57710-3)[20X], FC-CCR-MW7-110715 (240-57710-4)[20X], FC-CCR-MW7-110715 (240-57710-4)[50X], FC-CCR-MW60-110815 (240-57710-5)[20X], FC-CCR-MW60-110815 (240-57710-5)[50X], FC-CCR-MW70-110915 (240-57710-6)[20X], FC-CCR-MW70-110915 (240-57710-6)[50X] and FC-CCR-MW62-110915 (240-57710-8)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following samples were diluted due to the nature of the sample matrix: FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-MW61-110615 (240-57710-2[MS]), FC-CCR-MW61-110615 (240-57710-2[MSD]), FC-CCR-FD-1-110615 (240-57710-3), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6) and FC-CCR-MW62-110915 (240-57710-8). 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.

NITRATE-NITRITE AS NITROGEN

Samples FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6), FC-CCR-FB-1-110915 (240-57710-7) and FC-CCR-MW62-110915 (240-57710-8) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 11/11/2015 and 11/13/2015.

Sample FC-CCR-MW70-110915 (240-57710-6)[40X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 240-206746 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

FIELD SAMPLING

Samples FC-CCR-MW68-110615 (240-57710-1), FC-CCR-MW61-110615 (240-57710-2), FC-CCR-MW7-110715 (240-57710-4), FC-CCR-MW60-110815 (240-57710-5), FC-CCR-MW70-110915 (240-57710-6) and FC-CCR-MW62-110915 (240-57710-8) were analyzed for Field Sampling in accordance with approved methodologies. The samples were analyzed on 11/06/2015, 11/07/2015, 11/08/2015 and 11/09/2015.

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

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL CAN
245.1	Mercury (CVAA)	EPA	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
Field Sampling	Field Sampling	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-57710-1	FC-CCR-MW68-110615	Water	11/06/15 16:30	11/10/15 09:30
240-57710-2	FC-CCR-MW61-110615	Water	11/06/15 14:05	11/10/15 09:30
240-57710-3	FC-CCR-FD-1-110615	Water	11/06/15 00:00	11/10/15 09:30
240-57710-4	FC-CCR-MW7-110715	Water	11/07/15 09:20	11/10/15 09:30
240-57710-5	FC-CCR-MW60-110815	Water	11/08/15 10:05	11/10/15 09:30
240-57710-6	FC-CCR-MW70-110915	Water	11/09/15 09:35	11/10/15 09:30
240-57710-7	FC-CCR-FB-1-110915	Water	11/09/15 11:20	11/10/15 09:30
240-57710-8	FC-CCR-MW62-110915	Water	11/09/15 10:40	11/10/15 09:30

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW68-110615 — Lab Sample ID: 240-57710-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0027	J	0.0050	0.00018	mg/L	1		200.8	Total Recoverable
Boron	93		10	5.5	mg/L	500		200.8	Total Recoverable
Barium	0.0093		0.0050	0.0011	mg/L	1		200.8	Total Recoverable
Beryllium	0.00033	J	0.0010	0.000053	mg/L	1		200.8	Total Recoverable
Calcium	470		1.0	0.24	mg/L	1		200.8	Total Recoverable
Cadmium	0.00046	J	0.0010	0.000061	mg/L	1		200.8	Total Recoverable
Cobalt	0.0053		0.0010	0.000021	mg/L	1		200.8	Total Recoverable
Chromium	0.0012	J	0.0020	0.00020	mg/L	1		200.8	Total Recoverable
Nickel	0.016		0.0020	0.00023	mg/L	1		200.8	Total Recoverable
Molybdenum	0.010		0.010	0.00023	mg/L	1		200.8	Total Recoverable
Lead	0.00019	J	0.0010	0.00011	mg/L	1		200.8	Total Recoverable
Antimony	0.00045	J	0.0020	0.00016	mg/L	1		200.8	Total Recoverable
Selenium	0.045		0.0050	0.00025	mg/L	1		200.8	Total Recoverable
Potassium	17		1.0	0.030	mg/L	1		200.8	Total Recoverable
Sodium	360	B	1.0	0.068	mg/L	1		200.8	Total Recoverable
Lithium	0.22		0.040	0.0015	mg/L	5		200.8	Total Recoverable
Thallium	0.00089	J	0.0010	0.000074	mg/L	1		200.8	Total Recoverable
Alkalinity	320	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	320	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	1200		20	8.1	mg/L	20		300.0	Total/NA
Fluoride	7.0	J	20	0.18	mg/L	20		300.0	Total/NA
Sulfate	7900		50	6.5	mg/L	50		300.0	Total/NA
Nitrate Nitrite as N	1.0		0.050	0.010	mg/L	1		353.2	Total/NA
Total Dissolved Solids	12000	H	100	74	mg/L	1		SM 2540C	Total/NA
Field pH by SM4500-H B	7.11				SU	1		Field Sampling	Total/NA

Client Sample ID: FC-CCR-MW61-110615 — Lab Sample ID: 240-57710-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00056	J	0.0050	0.00018	mg/L	1		200.8	Total Recoverable
Boron	35		10	5.5	mg/L	500		200.8	Total Recoverable
Barium	0.016		0.0050	0.0011	mg/L	1		200.8	Total Recoverable
Beryllium	0.00016	J	0.0010	0.000053	mg/L	1		200.8	Total Recoverable
Calcium	460		1.0	0.24	mg/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: FC-CCR-MW61-110615 (Continued) — Lab Sample ID: 240-57710-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0010		0.0010	0.000061	mg/L	1		200.8	Total Recoverable
Cobalt	0.011		0.0010	0.000021	mg/L	1		200.8	Total Recoverable
Chromium	0.00075	J	0.0020	0.00020	mg/L	1		200.8	Total Recoverable
Nickel	0.11		0.0020	0.00023	mg/L	1		200.8	Total Recoverable
Molybdenum	0.076		0.010	0.00023	mg/L	1		200.8	Total Recoverable
Lead	0.00082	J	0.0010	0.00011	mg/L	1		200.8	Total Recoverable
Antimony	0.00029	J	0.0020	0.00016	mg/L	1		200.8	Total Recoverable
Selenium	0.0016	J	0.0050	0.00025	mg/L	1		200.8	Total Recoverable
Potassium	18		1.0	0.030	mg/L	1		200.8	Total Recoverable
Sodium	1000	B	10	0.68	mg/L	10		200.8	Total Recoverable
Lithium	0.36		0.040	0.0015	mg/L	5		200.8	Total Recoverable
Thallium	0.00018	J	0.0010	0.000074	mg/L	1		200.8	Total Recoverable
Alkalinity	98	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	64	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	34		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	320		20	8.1	mg/L	20		300.0	Total/NA
Fluoride	1.2	J	20	0.18	mg/L	20		300.0	Total/NA
Sulfate	3700		20	2.6	mg/L	20		300.0	Total/NA
Nitrate Nitrite as N	0.015	J	0.050	0.010	mg/L	1		353.2	Total/NA
Total Dissolved Solids	5400		40	30	mg/L	1		SM 2540C	Total/NA
Field pH by SM4500-H B	8.81				SU	1		Field Sampling	Total/NA

Client Sample ID: FC-CCR-FD-1-110615 — Lab Sample ID: 240-57710-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00062	J	0.0050	0.00018	mg/L	1		200.8	Total Recoverable
Boron	42		10	5.5	mg/L	500		200.8	Total Recoverable
Barium	0.016		0.0050	0.0011	mg/L	1		200.8	Total Recoverable
Beryllium	0.00023	J	0.0010	0.000053	mg/L	1		200.8	Total Recoverable
Calcium	490		1.0	0.24	mg/L	1		200.8	Total Recoverable
Cadmium	0.00099	J	0.0010	0.000061	mg/L	1		200.8	Total Recoverable
Cobalt	0.011		0.0010	0.000021	mg/L	1		200.8	Total Recoverable
Chromium	0.00028	J	0.0020	0.00020	mg/L	1		200.8	Total Recoverable
Nickel	0.11		0.0020	0.00023	mg/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: FC-CCR-FD-1-110615 (Continued) — Lab Sample ID: 240-57710-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.084		0.010	0.00023	mg/L	1		200.8	Total Recoverable
Lead	0.00085	J	0.0010	0.00011	mg/L	1		200.8	Total Recoverable
Antimony	0.00032	J	0.0020	0.00016	mg/L	1		200.8	Total Recoverable
Selenium	0.0017	J	0.0050	0.00025	mg/L	1		200.8	Total Recoverable
Potassium	19		1.0	0.030	mg/L	1		200.8	Total Recoverable
Sodium	1100	B	10	0.68	mg/L	10		200.8	Total Recoverable
Lithium	0.37		0.040	0.0015	mg/L	5		200.8	Total Recoverable
Thallium	0.00019	J	0.0010	0.000074	mg/L	1		200.8	Total Recoverable
Alkalinity	100	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	59	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	44		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	330		20	8.1	mg/L	20		300.0	Total/NA
Fluoride	1.2	J	20	0.18	mg/L	20		300.0	Total/NA
Sulfate	3700		20	2.6	mg/L	20		300.0	Total/NA
Total Dissolved Solids	5000		50	37	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FC-CCR-MW7-110715 — Lab Sample ID: 240-57710-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00060	J	0.0050	0.00018	mg/L	1		200.8	Total Recoverable
Boron	9.4		2.0	1.1	mg/L	100		200.8	Total Recoverable
Barium	0.017		0.0050	0.0011	mg/L	1		200.8	Total Recoverable
Beryllium	0.00015	J	0.0010	0.000053	mg/L	1		200.8	Total Recoverable
Calcium	390		1.0	0.24	mg/L	1		200.8	Total Recoverable
Cadmium	0.00014	J	0.0010	0.000061	mg/L	1		200.8	Total Recoverable
Cobalt	0.0028		0.0010	0.000021	mg/L	1		200.8	Total Recoverable
Chromium	0.00041	J	0.0020	0.00020	mg/L	1		200.8	Total Recoverable
Nickel	0.071		0.0020	0.00023	mg/L	1		200.8	Total Recoverable
Molybdenum	0.0055	J	0.010	0.00023	mg/L	1		200.8	Total Recoverable
Lead	0.00045	J	0.0010	0.00011	mg/L	1		200.8	Total Recoverable
Antimony	0.00027	J	0.0020	0.00016	mg/L	1		200.8	Total Recoverable
Selenium	0.0038	J	0.0050	0.00025	mg/L	1		200.8	Total Recoverable
Potassium	30		1.0	0.030	mg/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW7-110715 (Continued) — Lab Sample ID: 240-57710-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	1900	B	10	0.68	mg/L	10		200.8	Total Recoverable
Lithium	0.75		0.040	0.0015	mg/L	5		200.8	Total Recoverable
Thallium	0.000093	J	0.0010	0.000074	mg/L	1		200.8	Total Recoverable
Alkalinity	560	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	560	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	580		20	8.1	mg/L	20		300.0	Total/NA
Fluoride	0.35	J	20	0.18	mg/L	20		300.0	Total/NA
Sulfate	6400		50	6.5	mg/L	50		300.0	Total/NA
Nitrate Nitrite as N	1.3		0.050	0.010	mg/L	1		353.2	Total/NA
Total Dissolved Solids	9800		50	37	mg/L	1		SM 2540C	Total/NA
Field pH by SM4500-H B	7.25				SU	1		Field Sampling	Total/NA

Client Sample ID: FC-CCR-MW60-110815 — Lab Sample ID: 240-57710-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0011	J	0.0050	0.00018	mg/L	1		200.8	Total Recoverable
Boron	46		10	5.5	mg/L	500		200.8	Total Recoverable
Barium	0.037		0.0050	0.0011	mg/L	1		200.8	Total Recoverable
Beryllium	0.00021	J	0.0010	0.000053	mg/L	1		200.8	Total Recoverable
Calcium	430		1.0	0.24	mg/L	1		200.8	Total Recoverable
Cadmium	0.0012		0.0010	0.000061	mg/L	1		200.8	Total Recoverable
Cobalt	0.24		0.0010	0.000021	mg/L	1		200.8	Total Recoverable
Chromium	0.0033		0.0020	0.00020	mg/L	1		200.8	Total Recoverable
Nickel	0.64		0.0020	0.00023	mg/L	1		200.8	Total Recoverable
Molybdenum	0.078		0.010	0.00023	mg/L	1		200.8	Total Recoverable
Lead	0.0038		0.0010	0.00011	mg/L	1		200.8	Total Recoverable
Antimony	0.00043	J	0.0020	0.00016	mg/L	1		200.8	Total Recoverable
Selenium	0.0028	J	0.0050	0.00025	mg/L	1		200.8	Total Recoverable
Potassium	35		1.0	0.030	mg/L	1		200.8	Total Recoverable
Sodium	1400	B	10	0.68	mg/L	10		200.8	Total Recoverable
Lithium	0.60		0.040	0.0015	mg/L	5		200.8	Total Recoverable
Thallium	0.00011	J	0.0010	0.000074	mg/L	1		200.8	Total Recoverable
Alkalinity	320	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	320	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	700		20	8.1	mg/L	20		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW60-110815 (Continued) — Lab Sample ID: 240-57710-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	4.5	J	20	0.18	mg/L	20		300.0	Total/NA
Sulfate	7500		50	6.5	mg/L	50		300.0	Total/NA
Nitrate Nitrite as N	0.19		0.050	0.010	mg/L	1		353.2	Total/NA
Total Dissolved Solids	11000		100	74	mg/L	1		SM 2540C	Total/NA
Field pH by SM4500-H B	7.35				SU	1		Field Sampling	Total/NA

Client Sample ID: FC-CCR-MW70-110915 — Lab Sample ID: 240-57710-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0094		0.0050	0.00018	mg/L	1		200.8	Total Recoverable
Boron	95		10	5.5	mg/L	500		200.8	Total Recoverable
Barium	0.015		0.0050	0.0011	mg/L	1		200.8	Total Recoverable
Beryllium	0.00011	J	0.0010	0.000053	mg/L	1		200.8	Total Recoverable
Calcium	500		10	2.4	mg/L	10		200.8	Total Recoverable
Cadmium	0.00014	J	0.0010	0.000061	mg/L	1		200.8	Total Recoverable
Cobalt	0.0057		0.0010	0.000021	mg/L	1		200.8	Total Recoverable
Chromium	0.00060	J	0.0020	0.00020	mg/L	1		200.8	Total Recoverable
Nickel	0.016		0.0020	0.00023	mg/L	1		200.8	Total Recoverable
Molybdenum	0.0096	J	0.010	0.00023	mg/L	1		200.8	Total Recoverable
Lead	0.00015	J	0.0010	0.00011	mg/L	1		200.8	Total Recoverable
Antimony	0.00017	J	0.0020	0.00016	mg/L	1		200.8	Total Recoverable
Selenium	0.20		0.0050	0.00025	mg/L	1		200.8	Total Recoverable
Potassium	19		1.0	0.030	mg/L	1		200.8	Total Recoverable
Sodium	830	B	10	0.68	mg/L	10		200.8	Total Recoverable
Lithium	0.28		0.040	0.0015	mg/L	5		200.8	Total Recoverable
Thallium	0.00049	J	0.0010	0.000074	mg/L	1		200.8	Total Recoverable
Alkalinity	540	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	540	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	1200		20	8.1	mg/L	20		300.0	Total/NA
Fluoride	2.6	J	20	0.18	mg/L	20		300.0	Total/NA
Sulfate	7000		50	6.5	mg/L	50		300.0	Total/NA
Nitrate Nitrite as N	52		2.0	0.40	mg/L	40		353.2	Total/NA
Total Dissolved Solids	11000		100	74	mg/L	1		SM 2540C	Total/NA
Field pH by SM4500-H B	6.87				SU	1		Field Sampling	Total/NA

Client Sample ID: FC-CCR-FB-1-110915 — Lab Sample ID: 240-57710-7

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-FB-1-110915 (Continued) — Lab Sample ID: 240-57710-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.028		0.020	0.011	mg/L	1		200.8	Total Recoverable
Sodium	0.24	J B	1.0	0.068	mg/L	1		200.8	Total Recoverable
Alkalinity	2.6	J B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	2.6	J B	5.0	1.9	mg/L	1		2320B-1997	Total/NA

Client Sample ID: FC-CCR-MW62-110915 — Lab Sample ID: 240-57710-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00098	J	0.0050	0.00018	mg/L	1		200.8	Total Recoverable
Boron	2.1		0.40	0.22	mg/L	20		200.8	Total Recoverable
Barium	0.043		0.0050	0.0011	mg/L	1		200.8	Total Recoverable
Beryllium	0.000086	J	0.0010	0.000053	mg/L	1		200.8	Total Recoverable
Calcium	520		10	2.4	mg/L	10		200.8	Total Recoverable
Cadmium	0.000084	J	0.0010	0.000061	mg/L	1		200.8	Total Recoverable
Cobalt	0.011		0.0010	0.000021	mg/L	1		200.8	Total Recoverable
Nickel	0.0069		0.0020	0.00023	mg/L	1		200.8	Total Recoverable
Molybdenum	0.0043	J	0.010	0.00023	mg/L	1		200.8	Total Recoverable
Selenium	0.00093	J	0.0050	0.00025	mg/L	1		200.8	Total Recoverable
Potassium	11		1.0	0.030	mg/L	1		200.8	Total Recoverable
Sodium	710	B	10	0.68	mg/L	10		200.8	Total Recoverable
Lithium	0.11		0.040	0.0015	mg/L	5		200.8	Total Recoverable
Alkalinity	1100	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	1100	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	150		20	8.1	mg/L	20		300.0	Total/NA
Fluoride	1.6	J	20	0.18	mg/L	20		300.0	Total/NA
Sulfate	3600		20	2.6	mg/L	20		300.0	Total/NA
Total Dissolved Solids	6700		50	37	mg/L	1		SM 2540C	Total/NA
Field pH by SM4500-H B	6.94				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW68-110615

Lab Sample ID: 240-57710-1

Date Collected: 11/06/15 16:30
Matrix: Water
Date Received: 11/10/15 09:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0027	J	0.0050	0.00018	mg/L		11/11/15 09:45	11/18/15 13:59	1
Boron	93		10	5.5	mg/L		11/11/15 09:45	11/17/15 14:11	500
Barium	0.0093		0.0050	0.0011	mg/L		11/11/15 09:45	11/18/15 13:59	1
Beryllium	0.00033	J	0.0010	0.000053	mg/L		11/11/15 09:45	11/18/15 13:59	1
Calcium	470		1.0	0.24	mg/L		11/11/15 09:45	11/18/15 13:59	1
Cadmium	0.00046	J	0.0010	0.000061	mg/L		11/11/15 09:45	11/18/15 13:59	1
Cobalt	0.0053		0.0010	0.000021	mg/L		11/11/15 09:45	11/18/15 13:59	1
Chromium	0.0012	J	0.0020	0.00020	mg/L		11/11/15 09:45	11/18/15 13:59	1
Nickel	0.016		0.0020	0.00023	mg/L		11/11/15 09:45	11/18/15 13:59	1
Molybdenum	0.010		0.010	0.00023	mg/L		11/11/15 09:45	11/18/15 13:59	1
Lead	0.00019	J	0.0010	0.00011	mg/L		11/11/15 09:45	11/18/15 13:59	1
Antimony	0.00045	J	0.0020	0.00016	mg/L		11/11/15 09:45	11/18/15 13:59	1
Selenium	0.045		0.0050	0.00025	mg/L		11/11/15 09:45	11/18/15 13:59	1
Potassium	17		1.0	0.030	mg/L		11/11/15 09:45	11/18/15 13:59	1
Sodium	360	B	1.0	0.068	mg/L		11/11/15 09:45	11/18/15 13:59	1
Lithium	0.22		0.040	0.0015	mg/L		11/11/15 09:45	11/20/15 10:51	5
Thallium	0.00089	J	0.0010	0.000074	mg/L		11/11/15 09:45	11/18/15 13:59	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000090	mg/L		11/11/15 14:00	11/12/15 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	320	B	5.0	1.9	mg/L			11/12/15 01:23	1
Bicarbonate Alkalinity as CaCO3	320	B	5.0	1.9	mg/L			11/12/15 01:23	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/12/15 01:23	1
Chloride	1200		20	8.1	mg/L			11/17/15 03:09	20
Fluoride	7.0	J	20	0.18	mg/L			11/17/15 03:09	20
Sulfate	7900		50	6.5	mg/L			11/17/15 14:57	50
Nitrate Nitrite as N	1.0		0.050	0.010	mg/L			11/11/15 18:34	1
Total Dissolved Solids	12000	H	100	74	mg/L			11/18/15 15:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	7.11				SU			11/06/15 16:30	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW61-110615

Lab Sample ID: 240-57710-2

Date Collected: 11/06/15 14:05
Matrix: Water
Date Received: 11/10/15 09:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00056	J	0.0050	0.00018	mg/L		11/11/15 09:45	11/18/15 13:39	1
Boron	35		10	5.5	mg/L		11/11/15 09:45	11/17/15 13:44	500
Barium	0.016		0.0050	0.0011	mg/L		11/11/15 09:45	11/18/15 13:39	1
Beryllium	0.00016	J	0.0010	0.000053	mg/L		11/11/15 09:45	11/18/15 13:39	1
Calcium	460		1.0	0.24	mg/L		11/11/15 09:45	11/18/15 13:39	1
Cadmium	0.0010		0.0010	0.000061	mg/L		11/11/15 09:45	11/18/15 13:39	1
Cobalt	0.011		0.0010	0.000021	mg/L		11/11/15 09:45	11/18/15 13:39	1
Chromium	0.00075	J	0.0020	0.00020	mg/L		11/11/15 09:45	11/18/15 13:39	1
Nickel	0.11		0.0020	0.00023	mg/L		11/11/15 09:45	11/18/15 13:39	1
Molybdenum	0.076		0.010	0.00023	mg/L		11/11/15 09:45	11/18/15 13:39	1
Lead	0.00082	J	0.0010	0.00011	mg/L		11/11/15 09:45	11/18/15 13:39	1
Antimony	0.00029	J	0.0020	0.00016	mg/L		11/11/15 09:45	11/18/15 13:39	1
Selenium	0.0016	J	0.0050	0.00025	mg/L		11/11/15 09:45	11/18/15 13:39	1
Potassium	18		1.0	0.030	mg/L		11/11/15 09:45	11/18/15 13:39	1
Sodium	1000	B	10	0.68	mg/L		11/11/15 09:45	11/18/15 14:15	10
Lithium	0.36		0.040	0.0015	mg/L		11/11/15 09:45	11/20/15 10:31	5
Thallium	0.00018	J	0.0010	0.000074	mg/L		11/11/15 09:45	11/18/15 13:39	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000090	mg/L		11/11/15 14:00	11/12/15 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	98	B	5.0	1.9	mg/L			11/12/15 01:32	1
Bicarbonate Alkalinity as CaCO3	64	B	5.0	1.9	mg/L			11/12/15 01:32	1
Carbonate Alkalinity as CaCO3	34		5.0	1.9	mg/L			11/12/15 01:32	1
Chloride	320		20	8.1	mg/L			11/17/15 05:29	20
Fluoride	1.2	J	20	0.18	mg/L			11/17/15 05:29	20
Sulfate	3700		20	2.6	mg/L			11/17/15 05:29	20
Nitrate Nitrite as N	0.015	J	0.050	0.010	mg/L			11/11/15 18:30	1
Total Dissolved Solids	5400		40	30	mg/L			11/12/15 14:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	8.81				SU			11/06/15 14:05	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-FD-1-110615

Lab Sample ID: 240-57710-3

Date Collected: 11/06/15 00:00
Matrix: Water
Date Received: 11/10/15 09:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00062	J	0.0050	0.00018	mg/L		11/11/15 09:45	11/18/15 14:03	1
Boron	42		10	5.5	mg/L		11/11/15 09:45	11/17/15 14:16	500
Barium	0.016		0.0050	0.0011	mg/L		11/11/15 09:45	11/18/15 14:03	1
Beryllium	0.00023	J	0.0010	0.000053	mg/L		11/11/15 09:45	11/18/15 14:03	1
Calcium	490		1.0	0.24	mg/L		11/11/15 09:45	11/18/15 14:03	1
Cadmium	0.00099	J	0.0010	0.000061	mg/L		11/11/15 09:45	11/18/15 14:03	1
Cobalt	0.011		0.0010	0.000021	mg/L		11/11/15 09:45	11/18/15 14:03	1
Chromium	0.00028	J	0.0020	0.00020	mg/L		11/11/15 09:45	11/18/15 14:03	1
Nickel	0.11		0.0020	0.00023	mg/L		11/11/15 09:45	11/18/15 14:03	1
Molybdenum	0.084		0.010	0.00023	mg/L		11/11/15 09:45	11/18/15 14:03	1
Lead	0.00085	J	0.0010	0.00011	mg/L		11/11/15 09:45	11/18/15 14:03	1
Antimony	0.00032	J	0.0020	0.00016	mg/L		11/11/15 09:45	11/18/15 14:03	1
Selenium	0.0017	J	0.0050	0.00025	mg/L		11/11/15 09:45	11/18/15 14:03	1
Potassium	19		1.0	0.030	mg/L		11/11/15 09:45	11/18/15 14:03	1
Sodium	1100	B	10	0.68	mg/L		11/11/15 09:45	11/18/15 14:34	10
Lithium	0.37		0.040	0.0015	mg/L		11/11/15 09:45	11/20/15 11:11	5
Thallium	0.00019	J	0.0010	0.000074	mg/L		11/11/15 09:45	11/18/15 14:03	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000090	mg/L		11/11/15 14:00	11/12/15 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	100	B	5.0	1.9	mg/L			11/12/15 02:37	1
Bicarbonate Alkalinity as CaCO3	59	B	5.0	1.9	mg/L			11/12/15 02:37	1
Carbonate Alkalinity as CaCO3	44		5.0	1.9	mg/L			11/12/15 02:37	1
Chloride	330		20	8.1	mg/L			11/17/15 06:29	20
Fluoride	1.2	J	20	0.18	mg/L			11/17/15 06:29	20
Sulfate	3700		20	2.6	mg/L			11/17/15 06:29	20
Nitrate Nitrite as N	0.050	U	0.050	0.010	mg/L			11/23/15 12:27	1
Total Dissolved Solids	5000		50	37	mg/L			11/12/15 19:16	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW7-110715

Lab Sample ID: 240-57710-4

Date Collected: 11/07/15 09:20
Matrix: Water
Date Received: 11/10/15 09:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00060	J	0.0050	0.00018	mg/L		11/11/15 09:45	11/18/15 14:38	1
Boron	9.4		2.0	1.1	mg/L		11/11/15 09:45	11/17/15 14:32	100
Barium	0.017		0.0050	0.0011	mg/L		11/11/15 09:45	11/18/15 14:38	1
Beryllium	0.00015	J	0.0010	0.000053	mg/L		11/11/15 09:45	11/18/15 14:38	1
Calcium	390		1.0	0.24	mg/L		11/11/15 09:45	11/18/15 14:38	1
Cadmium	0.00014	J	0.0010	0.000061	mg/L		11/11/15 09:45	11/18/15 14:38	1
Cobalt	0.0028		0.0010	0.000021	mg/L		11/11/15 09:45	11/18/15 14:38	1
Chromium	0.00041	J	0.0020	0.00020	mg/L		11/11/15 09:45	11/18/15 14:38	1
Nickel	0.071		0.0020	0.00023	mg/L		11/11/15 09:45	11/18/15 14:38	1
Molybdenum	0.0055	J	0.010	0.00023	mg/L		11/11/15 09:45	11/18/15 14:38	1
Lead	0.00045	J	0.0010	0.00011	mg/L		11/11/15 09:45	11/18/15 14:38	1
Antimony	0.00027	J	0.0020	0.00016	mg/L		11/11/15 09:45	11/18/15 14:38	1
Selenium	0.0038	J	0.0050	0.00025	mg/L		11/11/15 09:45	11/18/15 14:38	1
Potassium	30		1.0	0.030	mg/L		11/11/15 09:45	11/18/15 14:38	1
Sodium	1900	B	10	0.68	mg/L		11/11/15 09:45	11/18/15 14:44	10
Lithium	0.75		0.040	0.0015	mg/L		11/11/15 09:45	11/20/15 11:15	5
Thallium	0.000093	J	0.0010	0.000074	mg/L		11/11/15 09:45	11/18/15 14:38	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000090	mg/L		11/11/15 14:00	11/12/15 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	560	B	5.0	1.9	mg/L			11/12/15 02:54	1
Bicarbonate Alkalinity as CaCO3	560	B	5.0	1.9	mg/L			11/12/15 02:54	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/12/15 02:54	1
Chloride	580		20	8.1	mg/L			11/17/15 06:49	20
Fluoride	0.35	J	20	0.18	mg/L			11/17/15 06:49	20
Sulfate	6400		50	6.5	mg/L			11/18/15 16:04	50
Nitrate Nitrite as N	1.3		0.050	0.010	mg/L			11/11/15 18:35	1
Total Dissolved Solids	9800		50	37	mg/L			11/12/15 19:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	7.25				SU			11/07/15 09:20	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW60-110815

Lab Sample ID: 240-57710-5

Date Collected: 11/08/15 10:05
Matrix: Water
Date Received: 11/10/15 09:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011	J	0.0050	0.00018	mg/L		11/11/15 09:45	11/18/15 14:48	1
Boron	46		10	5.5	mg/L		11/11/15 09:45	11/17/15 14:36	500
Barium	0.037		0.0050	0.0011	mg/L		11/11/15 09:45	11/18/15 14:48	1
Beryllium	0.00021	J	0.0010	0.000053	mg/L		11/11/15 09:45	11/18/15 14:48	1
Calcium	430		1.0	0.24	mg/L		11/11/15 09:45	11/18/15 14:48	1
Cadmium	0.0012		0.0010	0.000061	mg/L		11/11/15 09:45	11/18/15 14:48	1
Cobalt	0.24		0.0010	0.000021	mg/L		11/11/15 09:45	11/18/15 14:48	1
Chromium	0.0033		0.0020	0.00020	mg/L		11/11/15 09:45	11/18/15 14:48	1
Nickel	0.64		0.0020	0.00023	mg/L		11/11/15 09:45	11/18/15 14:48	1
Molybdenum	0.078		0.010	0.00023	mg/L		11/11/15 09:45	11/18/15 14:48	1
Lead	0.0038		0.0010	0.00011	mg/L		11/11/15 09:45	11/18/15 14:48	1
Antimony	0.00043	J	0.0020	0.00016	mg/L		11/11/15 09:45	11/18/15 14:48	1
Selenium	0.0028	J	0.0050	0.00025	mg/L		11/11/15 09:45	11/18/15 14:48	1
Potassium	35		1.0	0.030	mg/L		11/11/15 09:45	11/18/15 14:48	1
Sodium	1400	B	10	0.68	mg/L		11/11/15 09:45	11/18/15 14:53	10
Lithium	0.60		0.040	0.0015	mg/L		11/11/15 09:45	11/20/15 11:19	5
Thallium	0.00011	J	0.0010	0.000074	mg/L		11/11/15 09:45	11/18/15 14:48	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000090	mg/L		11/11/15 14:00	11/12/15 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	320	B	5.0	1.9	mg/L			11/12/15 03:06	1
Bicarbonate Alkalinity as CaCO3	320	B	5.0	1.9	mg/L			11/12/15 03:06	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/12/15 03:06	1
Chloride	700		20	8.1	mg/L			11/17/15 07:09	20
Fluoride	4.5	J	20	0.18	mg/L			11/17/15 07:09	20
Sulfate	7500		50	6.5	mg/L			11/18/15 16:21	50
Nitrate Nitrite as N	0.19		0.050	0.010	mg/L			11/11/15 18:36	1
Total Dissolved Solids	11000		100	74	mg/L			11/13/15 16:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	7.35				SU			11/08/15 10:05	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW70-110915

Lab Sample ID: 240-57710-6

Date Collected: 11/09/15 09:35
Matrix: Water
Date Received: 11/10/15 09:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0094		0.0050	0.00018	mg/L		11/11/15 09:45	11/18/15 15:05	1
Boron	95		10	5.5	mg/L		11/11/15 09:45	11/17/15 14:40	500
Barium	0.015		0.0050	0.0011	mg/L		11/11/15 09:45	11/18/15 15:05	1
Beryllium	0.00011	J	0.0010	0.000053	mg/L		11/11/15 09:45	11/18/15 15:05	1
Calcium	500		10	2.4	mg/L		11/11/15 09:45	11/18/15 15:09	10
Cadmium	0.00014	J	0.0010	0.000061	mg/L		11/11/15 09:45	11/18/15 15:05	1
Cobalt	0.0057		0.0010	0.000021	mg/L		11/11/15 09:45	11/18/15 15:05	1
Chromium	0.00060	J	0.0020	0.00020	mg/L		11/11/15 09:45	11/18/15 15:05	1
Nickel	0.016		0.0020	0.00023	mg/L		11/11/15 09:45	11/18/15 15:05	1
Molybdenum	0.0096	J	0.010	0.00023	mg/L		11/11/15 09:45	11/18/15 15:05	1
Lead	0.00015	J	0.0010	0.00011	mg/L		11/11/15 09:45	11/18/15 15:05	1
Antimony	0.00017	J	0.0020	0.00016	mg/L		11/11/15 09:45	11/18/15 15:05	1
Selenium	0.20		0.0050	0.00025	mg/L		11/11/15 09:45	11/18/15 15:05	1
Potassium	19		1.0	0.030	mg/L		11/11/15 09:45	11/18/15 15:05	1
Sodium	830	B	10	0.68	mg/L		11/11/15 09:45	11/18/15 15:09	10
Lithium	0.28		0.040	0.0015	mg/L		11/11/15 09:45	11/20/15 11:23	5
Thallium	0.00049	J	0.0010	0.000074	mg/L		11/11/15 09:45	11/18/15 15:05	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000090	mg/L		11/11/15 14:00	11/12/15 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	540	B	5.0	1.9	mg/L			11/12/15 03:23	1
Bicarbonate Alkalinity as CaCO3	540	B	5.0	1.9	mg/L			11/12/15 03:23	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/12/15 03:23	1
Chloride	1200		20	8.1	mg/L			11/17/15 07:29	20
Fluoride	2.6	J	20	0.18	mg/L			11/17/15 07:29	20
Sulfate	7000		50	6.5	mg/L			11/18/15 16:37	50
Nitrate Nitrite as N	52		2.0	0.40	mg/L			11/11/15 18:37	40
Total Dissolved Solids	11000		100	74	mg/L			11/13/15 16:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	6.87				SU			11/09/15 09:35	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-FB-1-110915

Lab Sample ID: 240-57710-7

Date Collected: 11/09/15 11:20
Matrix: Water
Date Received: 11/10/15 09:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0050	U	0.0050	0.00018	mg/L		11/11/15 09:45	11/18/15 15:14	1
Boron	**0.028**		0.020	0.011	mg/L		11/11/15 09:45	11/17/15 15:14	1
Barium	0.0050	U	0.0050	0.0011	mg/L		11/11/15 09:45	11/18/15 15:14	1
Beryllium	0.0010	U	0.0010	0.000053	mg/L		11/11/15 09:45	11/18/15 15:14	1
Calcium	1.0	U	1.0	0.24	mg/L		11/11/15 09:45	11/18/15 15:14	1
Cadmium	0.0010	U	0.0010	0.000061	mg/L		11/11/15 09:45	11/18/15 15:14	1
Cobalt	0.0010	U	0.0010	0.000021	mg/L		11/11/15 09:45	11/18/15 15:14	1
Chromium	0.0020	U	0.0020	0.00020	mg/L		11/11/15 09:45	11/18/15 15:14	1
Nickel	0.0020	U	0.0020	0.00023	mg/L		11/11/15 09:45	11/18/15 15:14	1
Molybdenum	0.010	U	0.010	0.00023	mg/L		11/11/15 09:45	11/18/15 15:14	1
Lead	0.0010	U	0.0010	0.00011	mg/L		11/11/15 09:45	11/18/15 15:14	1
Antimony	0.0020	U	0.0020	0.00016	mg/L		11/11/15 09:45	11/18/15 15:14	1
Selenium	0.0050	U	0.0050	0.00025	mg/L		11/11/15 09:45	11/18/15 15:14	1
Potassium	1.0	U	1.0	0.030	mg/L		11/11/15 09:45	11/18/15 15:14	1
Sodium	**0.24**	**J B**	1.0	0.068	mg/L		11/11/15 09:45	11/18/15 15:14	1
Lithium	0.0080	U	0.0080	0.00029	mg/L		11/11/15 09:45	11/20/15 11:27	1
Thallium	0.0010	U	0.0010	0.000074	mg/L		11/11/15 09:45	11/18/15 15:14	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000090	mg/L		11/11/15 14:00	11/12/15 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**2.6**	**J B**	5.0	1.9	mg/L			11/12/15 03:30	1
Bicarbonate Alkalinity as CaCO3	**2.6**	**J B**	5.0	1.9	mg/L			11/12/15 03:30	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/12/15 03:30	1
Chloride	1.0	U	1.0	0.41	mg/L			11/17/15 07:49	1
Fluoride	1.0	U	1.0	0.0090	mg/L			11/17/15 07:49	1
Sulfate	1.0	U	1.0	0.13	mg/L			11/17/15 07:49	1
Nitrate Nitrite as N	0.050	U	0.050	0.010	mg/L			11/13/15 12:59	1
Total Dissolved Solids	10	U	10	7.4	mg/L			11/13/15 16:34	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW62-110915

Lab Sample ID: 240-57710-8

Date Collected: 11/09/15 10:40
Matrix: Water
Date Received: 11/10/15 09:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00098	J	0.0050	0.00018	mg/L		11/11/15 09:45	11/18/15 15:22	1
Boron	2.1		0.40	0.22	mg/L		11/11/15 09:45	11/17/15 14:57	20
Barium	0.043		0.0050	0.0011	mg/L		11/11/15 09:45	11/18/15 15:22	1
Beryllium	0.000086	J	0.0010	0.000053	mg/L		11/11/15 09:45	11/18/15 15:22	1
Calcium	520		10	2.4	mg/L		11/11/15 09:45	11/18/15 15:26	10
Cadmium	0.000084	J	0.0010	0.000061	mg/L		11/11/15 09:45	11/18/15 15:22	1
Cobalt	0.011		0.0010	0.000021	mg/L		11/11/15 09:45	11/18/15 15:22	1
Chromium	0.0020	U	0.0020	0.00020	mg/L		11/11/15 09:45	11/18/15 15:22	1
Nickel	0.0069		0.0020	0.00023	mg/L		11/11/15 09:45	11/18/15 15:22	1
Molybdenum	0.0043	J	0.010	0.00023	mg/L		11/11/15 09:45	11/18/15 15:22	1
Lead	0.0010	U	0.0010	0.00011	mg/L		11/11/15 09:45	11/18/15 15:22	1
Antimony	0.0020	U	0.0020	0.00016	mg/L		11/11/15 09:45	11/18/15 15:22	1
Selenium	0.00093	J	0.0050	0.00025	mg/L		11/11/15 09:45	11/18/15 15:22	1
Potassium	11		1.0	0.030	mg/L		11/11/15 09:45	11/18/15 15:22	1
Sodium	710	B	10	0.68	mg/L		11/11/15 09:45	11/18/15 15:26	10
Lithium	0.11		0.040	0.0015	mg/L		11/11/15 09:45	11/20/15 11:35	5
Thallium	0.0010	U	0.0010	0.000074	mg/L		11/11/15 09:45	11/18/15 15:22	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000090	mg/L		11/11/15 14:00	11/12/15 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1100	B	5.0	1.9	mg/L			11/12/15 03:57	1
Bicarbonate Alkalinity as CaCO3	1100	B	5.0	1.9	mg/L			11/12/15 03:57	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/12/15 03:57	1
Chloride	150		20	8.1	mg/L			11/17/15 08:49	20
Fluoride	1.6	J	20	0.18	mg/L			11/17/15 08:49	20
Sulfate	3600		20	2.6	mg/L			11/17/15 08:49	20
Nitrate Nitrite as N	0.050	U	0.050	0.010	mg/L			11/13/15 13:00	1
Total Dissolved Solids	6700		50	37	mg/L			11/13/15 16:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	6.94				SU			11/09/15 10:40	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 240-206266/1-A
Matrix: Water
Analysis Batch: 207361

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 206266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.020	U	0.020	0.011	mg/L		11/11/15 09:45	11/17/15 13:36	1

Lab Sample ID: MB 240-206266/1-A
Matrix: Water
Analysis Batch: 207534

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 206266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0050	U	0.0050	0.00018	mg/L		11/11/15 09:45	11/18/15 13:29	1
Barium	0.0050	U	0.0050	0.0011	mg/L		11/11/15 09:45	11/18/15 13:29	1
Beryllium	0.0010	U	0.0010	0.000053	mg/L		11/11/15 09:45	11/18/15 13:29	1
Calcium	1.0	U	1.0	0.24	mg/L		11/11/15 09:45	11/18/15 13:29	1
Cadmium	0.0010	U	0.0010	0.000061	mg/L		11/11/15 09:45	11/18/15 13:29	1
Cobalt	0.0010	U	0.0010	0.000021	mg/L		11/11/15 09:45	11/18/15 13:29	1
Chromium	0.0020	U	0.0020	0.00020	mg/L		11/11/15 09:45	11/18/15 13:29	1
Nickel	0.0020	U	0.0020	0.00023	mg/L		11/11/15 09:45	11/18/15 13:29	1
Molybdenum	0.010	U	0.010	0.00023	mg/L		11/11/15 09:45	11/18/15 13:29	1
Lead	0.0010	U	0.0010	0.00011	mg/L		11/11/15 09:45	11/18/15 13:29	1
Antimony	0.0020	U	0.0020	0.00016	mg/L		11/11/15 09:45	11/18/15 13:29	1
Selenium	0.0050	U	0.0050	0.00025	mg/L		11/11/15 09:45	11/18/15 13:29	1
Potassium	1.0	U	1.0	0.030	mg/L		11/11/15 09:45	11/18/15 13:29	1
Sodium	0.0965	J	1.0	0.068	mg/L		11/11/15 09:45	11/18/15 13:29	1
Thallium	0.0010	U	0.0010	0.000074	mg/L		11/11/15 09:45	11/18/15 13:29	1

Lab Sample ID: MB 240-206266/1-A
Matrix: Water
Analysis Batch: 207809

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 206266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0080	U	0.0080	0.00029	mg/L		11/11/15 09:45	11/20/15 10:23	1

Lab Sample ID: LCS 240-206266/3-A
Matrix: Water
Analysis Batch: 207361

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 206266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.100	0.0967		mg/L		97	85 - 115

Lab Sample ID: LCS 240-206266/3-A
Matrix: Water
Analysis Batch: 207534

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 206266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.911		mg/L		91	85 - 115
Barium	1.00	0.911		mg/L		91	85 - 115
Beryllium	1.00	0.907		mg/L		91	85 - 115
Calcium	10.0	9.42		mg/L		94	85 - 115
Cadmium	1.00	0.948		mg/L		95	85 - 115
Cobalt	1.00	0.978		mg/L		98	85 - 115
Chromium	1.00	0.933		mg/L		93	85 - 115

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

Lab Sample ID: LCS 240-206266/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207534 — **Prep Batch: 206266**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	1.00	0.987		mg/L		99	85 - 115
Molybdenum	0.100	0.0902		mg/L		90	85 - 115
Lead	1.00	1.04		mg/L		104	85 - 115
Antimony	0.100	0.0913		mg/L		91	85 - 115
Selenium	1.00	0.933		mg/L		93	85 - 115
Potassium	10.0	9.17		mg/L		92	85 - 115
Sodium	10.0	9.37		mg/L		94	85 - 115
Thallium	0.250	0.239		mg/L		96	85 - 115

Lab Sample ID: LCS 240-206266/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207809 — **Prep Batch: 206266**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.100	0.0966		mg/L		97	85 - 115

Lab Sample ID: 240-57710-2MS — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207361 — **Prep Batch: 206266**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	35		0.100	36.7	4	mg/L		1400	80 - 120

Lab Sample ID: 240-57710-2MS — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207534 — **Prep Batch: 206266**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00056	J	1.00	1.03		mg/L		103	70 - 130
Barium	0.016		1.00	0.998		mg/L		98	70 - 130
Beryllium	0.00016	J	1.00	1.04		mg/L		104	70 - 130
Calcium	460		10.0	483	4	mg/L		245	70 - 130
Cadmium	0.0010		1.00	0.937		mg/L		94	70 - 130
Cobalt	0.011		1.00	0.995		mg/L		98	70 - 130
Chromium	0.00075	J	1.00	0.956		mg/L		96	70 - 130
Nickel	0.11		1.00	1.12		mg/L		101	70 - 130
Molybdenum	0.076		0.100	0.187		mg/L		111	70 - 130
Lead	0.00082	J	1.00	1.03		mg/L		103	70 - 130
Antimony	0.00029	J	0.100	0.0977		mg/L		97	70 - 130
Selenium	0.0016	J	1.00	1.05		mg/L		105	70 - 130
Potassium	18		10.0	28.2		mg/L		98	70 - 130
Thallium	0.00018	J	0.250	0.239		mg/L		95	70 - 130

Lab Sample ID: 240-57710-2MS — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207534 — **Prep Batch: 206266**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	1000	B	10.0	1090	4	mg/L		646	70 - 130

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

Lab Sample ID: 240-57710-2MS — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207809 — **Prep Batch: 206266**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lithium	0.36		0.100	0.464		mg/L		108	70 - 130		

Lab Sample ID: 240-57710-2MSD — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207361 — **Prep Batch: 206266**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	35		0.100	33.6	4	mg/L		-1700	80 - 120	9	20

Lab Sample ID: 240-57710-2MSD — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207534 — **Prep Batch: 206266**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.00056	J	1.00	0.972		mg/L		97	70 - 130	6	20
Barium	0.016		1.00	0.926		mg/L		91	70 - 130	7	20
Beryllium	0.00016	J	1.00	0.947		mg/L		95	70 - 130	9	20
Calcium	460		10.0	449	4	mg/L		-95	70 - 130	7	20
Cadmium	0.0010		1.00	0.886		mg/L		88	70 - 130	6	20
Cobalt	0.011		1.00	0.910		mg/L		90	70 - 130	9	20
Chromium	0.00075	J	1.00	0.888		mg/L		89	70 - 130	7	20
Nickel	0.11		1.00	1.02		mg/L		91	70 - 130	9	20
Molybdenum	0.076		0.100	0.172		mg/L		96	70 - 130	8	20
Lead	0.00082	J	1.00	0.970		mg/L		97	70 - 130	6	20
Antimony	0.00029	J	0.100	0.0940		mg/L		94	70 - 130	4	20
Selenium	0.0016	J	1.00	0.983		mg/L		98	70 - 130	6	20
Potassium	18		10.0	26.6		mg/L		83	70 - 130	6	20
Thallium	0.00018	J	0.250	0.225		mg/L		90	70 - 130	6	20

Lab Sample ID: 240-57710-2MSD — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207534 — **Prep Batch: 206266**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	1000	B	10.0	1030	4	mg/L		77	70 - 130	5	20

Lab Sample ID: 240-57710-2MSD — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 207809 — **Prep Batch: 206266**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	0.36		0.100	0.473		mg/L		117	70 - 130	2	20

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 240-206270/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206524 — **Prep Batch: 206270**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000090	mg/L		11/11/15 14:00	11/12/15 09:44	1

Lab Sample ID: LCS 240-206270/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206524 — **Prep Batch: 206270**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00535		mg/L		107	85 - 115

Lab Sample ID: 240-57710-2MS — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206524 — **Prep Batch: 206270**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00020	U	0.00100	0.00117		mg/L		117	70 - 130

Lab Sample ID: 240-57710-2MSD — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206524 — **Prep Batch: 206270**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00020	U	0.00100	0.00114		mg/L		114	70 - 130	2	20

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-206521/30 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2.73	J	5.0	1.9	mg/L			11/11/15 21:23	1
Bicarbonate Alkalinity as CaCO3	2.73	J	5.0	1.9	mg/L			11/11/15 21:23	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/11/15 21:23	1

Lab Sample ID: MB 240-206521/52 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	3.34	J	5.0	1.9	mg/L			11/12/15 02:17	1
Bicarbonate Alkalinity as CaCO3	3.34	J	5.0	1.9	mg/L			11/12/15 02:17	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/12/15 02:17	1

Lab Sample ID: LCS 240-206521/29 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	284	318		mg/L		112	90 - 127

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 240-206521/51 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206521

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			284	323		mg/L		114	90 - 127		

Lab Sample ID: 240-57710-2MS — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity	98	B	500	172		mg/L		15	10 - 160		

Lab Sample ID: 240-57710-2MSD — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	98	B	500	157		mg/L		12	10 - 160	9	24

Lab Sample ID: 240-57710-2 DU — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206521

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	98	B		101		mg/L				3	20
Bicarbonate Alkalinity as CaCO3	64	B		57.9		mg/L				10	20
Carbonate Alkalinity as CaCO3	34			43.5	F3	mg/L				23	20

Lab Sample ID: MB 240-206633/38 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2.53	J	5.0	1.9	mg/L			11/13/15 01:53	1
Bicarbonate Alkalinity as CaCO3	2.53	J	5.0	1.9	mg/L			11/13/15 01:53	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/13/15 01:53	1

Lab Sample ID: MB 240-206633/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2.89	J	5.0	1.9	mg/L			11/12/15 18:32	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/12/15 18:32	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	1.9	mg/L			11/12/15 18:32	1

Lab Sample ID: LCS 240-206633/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206633

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			284	315		mg/L		111	90 - 127		

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 240-206633/58 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	284	322		mg/L		113	90 - 127

Lab Sample ID: LCS 240-206633/59 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	284	314		mg/L		111	90 - 127

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-206944/27 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			11/16/15 20:09	1
Fluoride	1.0	U	1.0	0.0090	mg/L			11/16/15 20:09	1
Sulfate	1.0	U	1.0	0.13	mg/L			11/16/15 20:09	1

Lab Sample ID: LCS 240-206944/28 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.8		mg/L		106	90 - 110
Fluoride	2.50	2.70		mg/L		108	90 - 110
Sulfate	50.0	52.2		mg/L		104	90 - 110

Lab Sample ID: MB 240-206970/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			11/17/15 04:49	1
Fluoride	1.0	U	1.0	0.0090	mg/L			11/17/15 04:49	1
Sulfate	1.0	U	1.0	0.13	mg/L			11/17/15 04:49	1

Lab Sample ID: LCS 240-206970/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.8		mg/L		106	90 - 110
Fluoride	2.50	2.71		mg/L		108	90 - 110
Sulfate	50.0	52.3		mg/L		105	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-57710-2MS — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	320		50.0	362	4	mg/L		76	80 - 120
Fluoride	1.2	J	2.50	3.80	J	mg/L		106	80 - 120
Sulfate	3700		50.0	3570	4	mg/L		-277	80 - 120

Lab Sample ID: 240-57710-2MSD — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206970

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	320		50.0	367	4	mg/L		85	80 - 120	1	20
Fluoride	1.2	J	2.50	3.95	J	mg/L		112	80 - 120	4	20
Sulfate	3700		50.0	3620	4	mg/L		-180	80 - 120	1	20

Lab Sample ID: MB 240-207106/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 207106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			11/17/15 10:34	1
Sulfate	1.0	U	1.0	0.13	mg/L			11/17/15 10:34	1

Lab Sample ID: LCS 240-207106/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 207106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.2		mg/L		104	90 - 110
Sulfate	50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: MB 240-207350/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 207350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			11/18/15 11:25	1
Sulfate	1.0	U	1.0	0.13	mg/L			11/18/15 11:25	1

Lab Sample ID: LCS 240-207350/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 207350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.7		mg/L		103	90 - 110
Sulfate	50.0	49.4		mg/L		99	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 240-206389/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.050	0.010	mg/L			11/11/15 18:28	1

Lab Sample ID: LCS 240-206389/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.93	2.03		mg/L		105	90 - 110

Lab Sample ID: 240-57710-2MS — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.015	J	1.00	0.948		mg/L		93	90 - 110

Lab Sample ID: 240-57710-2MSD — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.015	J	1.00	0.921		mg/L		91	90 - 110	3	20

Lab Sample ID: MB 240-206746/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.050	0.010	mg/L			11/13/15 12:43	1

Lab Sample ID: LCS 240-206746/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.93	1.89		mg/L		98	90 - 110

Lab Sample ID: MB 240-208110/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 208110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.050	0.010	mg/L			11/23/15 12:25	1

Lab Sample ID: LCS 240-208110/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 208110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.93	2.06		mg/L		107	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-206555/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			11/12/15 14:48	1

Lab Sample ID: LCS 240-206555/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	543	523		mg/L		96	88 - 110

Lab Sample ID: 240-57710-2 DU — **Client Sample ID: FC-CCR-MW61-110615**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206555

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5400		5400		mg/L		0.8	20

Lab Sample ID: MB 240-206778/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206778

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			11/13/15 16:34	1

Lab Sample ID: LCS 240-206778/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206778

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	543	528		mg/L		97	88 - 110

Lab Sample ID: MB 240-207436/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 207436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			11/18/15 15:37	1

Lab Sample ID: LCS 240-207436/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 207436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	543	519		mg/L		96	88 - 110

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Metals

Prep Batch: 206266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total Recoverable	Water	200.8	
240-57710-2	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	
240-57710-2MS	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	
240-57710-2MSD	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	
240-57710-3	FC-CCR-FD-1-110615	Total Recoverable	Water	200.8	
240-57710-4	FC-CCR-MW7-110715	Total Recoverable	Water	200.8	
240-57710-5	FC-CCR-MW60-110815	Total Recoverable	Water	200.8	
240-57710-6	FC-CCR-MW70-110915	Total Recoverable	Water	200.8	
240-57710-7	FC-CCR-FB-1-110915	Total Recoverable	Water	200.8	
240-57710-8	FC-CCR-MW62-110915	Total Recoverable	Water	200.8	
LCS 240-206266/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
MB 240-206266/1-A	Method Blank	Total Recoverable	Water	200.8	

Prep Batch: 206270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total/NA	Water	245.1	
240-57710-2	FC-CCR-MW61-110615	Total/NA	Water	245.1	
240-57710-2MS	FC-CCR-MW61-110615	Total/NA	Water	245.1	
240-57710-2MSD	FC-CCR-MW61-110615	Total/NA	Water	245.1	
240-57710-3	FC-CCR-FD-1-110615	Total/NA	Water	245.1	
240-57710-4	FC-CCR-MW7-110715	Total/NA	Water	245.1	
240-57710-5	FC-CCR-MW60-110815	Total/NA	Water	245.1	
240-57710-6	FC-CCR-MW70-110915	Total/NA	Water	245.1	
240-57710-7	FC-CCR-FB-1-110915	Total/NA	Water	245.1	
240-57710-8	FC-CCR-MW62-110915	Total/NA	Water	245.1	
LCS 240-206270/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 240-206270/1-A	Method Blank	Total/NA	Water	245.1	

Analysis Batch: 206524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total/NA	Water	245.1	206270
240-57710-2	FC-CCR-MW61-110615	Total/NA	Water	245.1	206270
240-57710-2MS	FC-CCR-MW61-110615	Total/NA	Water	245.1	206270
240-57710-2MSD	FC-CCR-MW61-110615	Total/NA	Water	245.1	206270
240-57710-3	FC-CCR-FD-1-110615	Total/NA	Water	245.1	206270
240-57710-4	FC-CCR-MW7-110715	Total/NA	Water	245.1	206270
240-57710-5	FC-CCR-MW60-110815	Total/NA	Water	245.1	206270
240-57710-6	FC-CCR-MW70-110915	Total/NA	Water	245.1	206270
240-57710-7	FC-CCR-FB-1-110915	Total/NA	Water	245.1	206270
240-57710-8	FC-CCR-MW62-110915	Total/NA	Water	245.1	206270
LCS 240-206270/2-A	Lab Control Sample	Total/NA	Water	245.1	206270
MB 240-206270/1-A	Method Blank	Total/NA	Water	245.1	206270

Analysis Batch: 207361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total Recoverable	Water	200.8	206266
240-57710-2	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-2MS	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-2MSD	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-3	FC-CCR-FD-1-110615	Total Recoverable	Water	200.8	206266
240-57710-4	FC-CCR-MW7-110715	Total Recoverable	Water	200.8	206266

Metals (Continued)

Analysis Batch: 207361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-5	FC-CCR-MW60-110815	Total Recoverable	Water	200.8	206266
240-57710-6	FC-CCR-MW70-110915	Total Recoverable	Water	200.8	206266
240-57710-7	FC-CCR-FB-1-110915	Total Recoverable	Water	200.8	206266
240-57710-8	FC-CCR-MW62-110915	Total Recoverable	Water	200.8	206266
LCS 240-206266/3-A	Lab Control Sample	Total Recoverable	Water	200.8	206266
MB 240-206266/1-A	Method Blank	Total Recoverable	Water	200.8	206266

Analysis Batch: 207534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total Recoverable	Water	200.8	206266
240-57710-2	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-2	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-2MS	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-2MS	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-2MSD	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-2MSD	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-3	FC-CCR-FD-1-110615	Total Recoverable	Water	200.8	206266
240-57710-3	FC-CCR-FD-1-110615	Total Recoverable	Water	200.8	206266
240-57710-4	FC-CCR-MW7-110715	Total Recoverable	Water	200.8	206266
240-57710-4	FC-CCR-MW7-110715	Total Recoverable	Water	200.8	206266
240-57710-5	FC-CCR-MW60-110815	Total Recoverable	Water	200.8	206266
240-57710-5	FC-CCR-MW60-110815	Total Recoverable	Water	200.8	206266
240-57710-6	FC-CCR-MW70-110915	Total Recoverable	Water	200.8	206266
240-57710-6	FC-CCR-MW70-110915	Total Recoverable	Water	200.8	206266
240-57710-7	FC-CCR-FB-1-110915	Total Recoverable	Water	200.8	206266
240-57710-8	FC-CCR-MW62-110915	Total Recoverable	Water	200.8	206266
240-57710-8	FC-CCR-MW62-110915	Total Recoverable	Water	200.8	206266
LCS 240-206266/3-A	Lab Control Sample	Total Recoverable	Water	200.8	206266
MB 240-206266/1-A	Method Blank	Total Recoverable	Water	200.8	206266

Analysis Batch: 207809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total Recoverable	Water	200.8	206266
240-57710-2	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-2MS	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-2MSD	FC-CCR-MW61-110615	Total Recoverable	Water	200.8	206266
240-57710-3	FC-CCR-FD-1-110615	Total Recoverable	Water	200.8	206266
240-57710-4	FC-CCR-MW7-110715	Total Recoverable	Water	200.8	206266
240-57710-5	FC-CCR-MW60-110815	Total Recoverable	Water	200.8	206266
240-57710-6	FC-CCR-MW70-110915	Total Recoverable	Water	200.8	206266
240-57710-7	FC-CCR-FB-1-110915	Total Recoverable	Water	200.8	206266
240-57710-8	FC-CCR-MW62-110915	Total Recoverable	Water	200.8	206266
LCS 240-206266/3-A	Lab Control Sample	Total Recoverable	Water	200.8	206266
MB 240-206266/1-A	Method Blank	Total Recoverable	Water	200.8	206266

General Chemistry

Analysis Batch: 206389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 206389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-2	FC-CCR-MW61-110615	Total/NA	Water	353.2	
240-57710-2MS	FC-CCR-MW61-110615	Total/NA	Water	353.2	
240-57710-2MSD	FC-CCR-MW61-110615	Total/NA	Water	353.2	
240-57710-4	FC-CCR-MW7-110715	Total/NA	Water	353.2	
240-57710-5	FC-CCR-MW60-110815	Total/NA	Water	353.2	
240-57710-6	FC-CCR-MW70-110915	Total/NA	Water	353.2	
LCS 240-206389/5	Lab Control Sample	Total/NA	Water	353.2	
MB 240-206389/4	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 206521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total/NA	Water	2320B-1997	
240-57710-2	FC-CCR-MW61-110615	Total/NA	Water	2320B-1997	
240-57710-2 DU	FC-CCR-MW61-110615	Total/NA	Water	2320B-1997	
240-57710-2MS	FC-CCR-MW61-110615	Total/NA	Water	2320B-1997	
240-57710-2MSD	FC-CCR-MW61-110615	Total/NA	Water	2320B-1997	
240-57710-3	FC-CCR-FD-1-110615	Total/NA	Water	2320B-1997	
240-57710-4	FC-CCR-MW7-110715	Total/NA	Water	2320B-1997	
240-57710-5	FC-CCR-MW60-110815	Total/NA	Water	2320B-1997	
240-57710-6	FC-CCR-MW70-110915	Total/NA	Water	2320B-1997	
240-57710-7	FC-CCR-FB-1-110915	Total/NA	Water	2320B-1997	
240-57710-8	FC-CCR-MW62-110915	Total/NA	Water	2320B-1997	
LCS 240-206521/29	Lab Control Sample	Total/NA	Water	2320B-1997	
LCS 240-206521/51	Lab Control Sample	Total/NA	Water	2320B-1997	
MB 240-206521/30	Method Blank	Total/NA	Water	2320B-1997	
MB 240-206521/52	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 206555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-2	FC-CCR-MW61-110615	Total/NA	Water	SM 2540C	
240-57710-2 DU	FC-CCR-MW61-110615	Total/NA	Water	SM 2540C	
240-57710-3	FC-CCR-FD-1-110615	Total/NA	Water	SM 2540C	
240-57710-4	FC-CCR-MW7-110715	Total/NA	Water	SM 2540C	
LCS 240-206555/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-206555/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 206633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-206633/4	Lab Control Sample	Total/NA	Water	2320B-1997	
LCS 240-206633/58	Lab Control Sample	Total/NA	Water	2320B-1997	
LCS 240-206633/59	Lab Control Sample	Total/NA	Water	2320B-1997	
MB 240-206633/38	Method Blank	Total/NA	Water	2320B-1997	
MB 240-206633/5	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 206746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-7	FC-CCR-FB-1-110915	Total/NA	Water	353.2	
240-57710-8	FC-CCR-MW62-110915	Total/NA	Water	353.2	
LCS 240-206746/5	Lab Control Sample	Total/NA	Water	353.2	
MB 240-206746/4	Method Blank	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 206778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-5	FC-CCR-MW60-110815	Total/NA	Water	SM 2540C	
240-57710-6	FC-CCR-MW70-110915	Total/NA	Water	SM 2540C	
240-57710-7	FC-CCR-FB-1-110915	Total/NA	Water	SM 2540C	
240-57710-8	FC-CCR-MW62-110915	Total/NA	Water	SM 2540C	
LCS 240-206778/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-206778/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 206944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total/NA	Water	300.0	
LCS 240-206944/28	Lab Control Sample	Total/NA	Water	300.0	
MB 240-206944/27	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 206970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-2	FC-CCR-MW61-110615	Total/NA	Water	300.0	
240-57710-2MS	FC-CCR-MW61-110615	Total/NA	Water	300.0	
240-57710-2MSD	FC-CCR-MW61-110615	Total/NA	Water	300.0	
240-57710-3	FC-CCR-FD-1-110615	Total/NA	Water	300.0	
240-57710-4	FC-CCR-MW7-110715	Total/NA	Water	300.0	
240-57710-5	FC-CCR-MW60-110815	Total/NA	Water	300.0	
240-57710-6	FC-CCR-MW70-110915	Total/NA	Water	300.0	
240-57710-7	FC-CCR-FB-1-110915	Total/NA	Water	300.0	
240-57710-8	FC-CCR-MW62-110915	Total/NA	Water	300.0	
LCS 240-206970/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-206970/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 207106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total/NA	Water	300.0	
LCS 240-207106/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-207106/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 207350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-4	FC-CCR-MW7-110715	Total/NA	Water	300.0	
240-57710-5	FC-CCR-MW60-110815	Total/NA	Water	300.0	
240-57710-6	FC-CCR-MW70-110915	Total/NA	Water	300.0	
LCS 240-207350/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-207350/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 207436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total/NA	Water	SM 2540C	
LCS 240-207436/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-207436/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 208110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-3	FC-CCR-FD-1-110615	Total/NA	Water	353.2	
LCS 240-208110/5	Lab Control Sample	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 208110 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-208110/4	Method Blank	Total/NA	Water	353.2	

Field Service / Mobile Lab

Analysis Batch: 206721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57710-1	FC-CCR-MW68-110615	Total/NA	Water	Field Sampling	
240-57710-2	FC-CCR-MW61-110615	Total/NA	Water	Field Sampling	
240-57710-2MS	FC-CCR-MW61-110615	Total/NA	Water	Field Sampling	
240-57710-2MSD	FC-CCR-MW61-110615	Total/NA	Water	Field Sampling	
240-57710-4	FC-CCR-MW7-110715	Total/NA	Water	Field Sampling	
240-57710-5	FC-CCR-MW60-110815	Total/NA	Water	Field Sampling	
240-57710-6	FC-CCR-MW70-110915	Total/NA	Water	Field Sampling	
240-57710-8	FC-CCR-MW62-110915	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW68-110615 — Lab Sample ID: 240-57710-1

Date Collected: 11/06/15 16:30 — **Matrix: Water**
Date Received: 11/10/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		500	207361	11/17/15 14:11	AS1	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207534	11/18/15 13:59	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		5	207809	11/20/15 10:51	AS1	TAL CAN
Total/NA	Prep	245.1			206270	11/11/15 14:00	WKD	TAL CAN
Total/NA	Analysis	245.1		1	206524	11/12/15 10:16	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	206521	11/12/15 01:23	DTN	TAL CAN
Total/NA	Analysis	300.0		50	207106	11/17/15 14:57	LKG	TAL CAN
Total/NA	Analysis	300.0		20	206944	11/17/15 03:09	LKG	TAL CAN
Total/NA	Analysis	353.2		1	206389	11/11/15 18:34	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	207436	11/18/15 15:37	GNR	TAL CAN
Total/NA	Analysis	Field Sampling		1	206721	11/06/15 16:30	FS	TAL CAN

Client Sample ID: FC-CCR-MW61-110615 — Lab Sample ID: 240-57710-2

Date Collected: 11/06/15 14:05 — **Matrix: Water**
Date Received: 11/10/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		500	207361	11/17/15 13:44	AS1	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207534	11/18/15 13:39	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		10	207534	11/18/15 14:15	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		5	207809	11/20/15 10:31	AS1	TAL CAN
Total/NA	Prep	245.1			206270	11/11/15 14:00	WKD	TAL CAN
Total/NA	Analysis	245.1		1	206524	11/12/15 09:49	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	206521	11/12/15 01:32	DTN	TAL CAN
Total/NA	Analysis	300.0		20	206970	11/17/15 05:29	LKG	TAL CAN
Total/NA	Analysis	353.2		1	206389	11/11/15 18:30	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	206555	11/12/15 14:48	JWW	TAL CAN
Total/NA	Analysis	Field Sampling		1	206721	11/06/15 14:05	FS	TAL CAN

Client Sample ID: FC-CCR-FD-1-110615 — Lab Sample ID: 240-57710-3

Date Collected: 11/06/15 00:00 — **Matrix: Water**
Date Received: 11/10/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN

Client Sample ID: FC-CCR-FD-1-110615 — Lab Sample ID: 240-57710-3

Date Collected: 11/06/15 00:00 — **Matrix: Water**
Date Received: 11/10/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	200.8		500	207361	11/17/15 14:16	AS1	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207534	11/18/15 14:03	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		10	207534	11/18/15 14:34	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		5	207809	11/20/15 11:11	AS1	TAL CAN
Total/NA	Prep	245.1			206270	11/11/15 14:00	WKD	TAL CAN
Total/NA	Analysis	245.1		1	206524	11/12/15 10:18	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	206521	11/12/15 02:37	DTN	TAL CAN
Total/NA	Analysis	300.0		20	206970	11/17/15 06:29	LKG	TAL CAN
Total/NA	Analysis	353.2		1	208110	11/23/15 12:27	LKG	TAL CAN
Total/NA	Analysis	SM 2540C		1	206555	11/12/15 19:16	JWW	TAL CAN

Client Sample ID: FC-CCR-MW7-110715 — Lab Sample ID: 240-57710-4

Date Collected: 11/07/15 09:20 — **Matrix: Water**
Date Received: 11/10/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		100	207361	11/17/15 14:32	AS1	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207534	11/18/15 14:38	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		10	207534	11/18/15 14:44	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		5	207809	11/20/15 11:15	AS1	TAL CAN
Total/NA	Prep	245.1			206270	11/11/15 14:00	WKD	TAL CAN
Total/NA	Analysis	245.1		1	206524	11/12/15 10:31	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	206521	11/12/15 02:54	DTN	TAL CAN
Total/NA	Analysis	300.0		50	207350	11/18/15 16:04	LCN	TAL CAN
Total/NA	Analysis	300.0		20	206970	11/17/15 06:49	LKG	TAL CAN
Total/NA	Analysis	353.2		1	206389	11/11/15 18:35	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	206555	11/12/15 19:16	JWW	TAL CAN
Total/NA	Analysis	Field Sampling		1	206721	11/07/15 09:20	FS	TAL CAN

Client Sample ID: FC-CCR-MW60-110815 — Lab Sample ID: 240-57710-5

Date Collected: 11/08/15 10:05 — **Matrix: Water**
Date Received: 11/10/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-MW60-110815 — Lab Sample ID: 240-57710-5

Date Collected: 11/08/15 10:05
Date Received: 11/10/15 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	200.8		500	207361	11/17/15 14:36	AS1	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207534	11/18/15 14:48	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		10	207534	11/18/15 14:53	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		5	207809	11/20/15 11:19	AS1	TAL CAN
Total/NA	Prep	245.1			206270	11/11/15 14:00	WKD	TAL CAN
Total/NA	Analysis	245.1		1	206524	11/12/15 10:33	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	206521	11/12/15 03:06	DTN	TAL CAN
Total/NA	Analysis	300.0		50	207350	11/18/15 16:21	LCN	TAL CAN
Total/NA	Analysis	300.0		20	206970	11/17/15 07:09	LKG	TAL CAN
Total/NA	Analysis	353.2		1	206389	11/11/15 18:36	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	206778	11/13/15 16:34	JWW	TAL CAN
Total/NA	Analysis	Field Sampling		1	206721	11/08/15 10:05	FS	TAL CAN

Client Sample ID: FC-CCR-MW70-110915 — Lab Sample ID: 240-57710-6

Date Collected: 11/09/15 09:35
Date Received: 11/10/15 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		500	207361	11/17/15 14:40	AS1	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207534	11/18/15 15:05	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		10	207534	11/18/15 15:09	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		5	207809	11/20/15 11:23	AS1	TAL CAN
Total/NA	Prep	245.1			206270	11/11/15 14:00	WKD	TAL CAN
Total/NA	Analysis	245.1		1	206524	11/12/15 10:35	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	206521	11/12/15 03:23	DTN	TAL CAN
Total/NA	Analysis	300.0		50	207350	11/18/15 16:37	LCN	TAL CAN
Total/NA	Analysis	300.0		20	206970	11/17/15 07:29	LKG	TAL CAN
Total/NA	Analysis	353.2		40	206389	11/11/15 18:37	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	206778	11/13/15 16:34	JWW	TAL CAN
Total/NA	Analysis	Field Sampling		1	206721	11/09/15 09:35	FS	TAL CAN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Client Sample ID: FC-CCR-FB-1-110915 — Lab Sample ID: 240-57710-7

Date Collected: 11/09/15 11:20 — **Matrix: Water**
Date Received: 11/10/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207361	11/17/15 15:14	AS1	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207534	11/18/15 15:14	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207809	11/20/15 11:27	AS1	TAL CAN
Total/NA	Prep	245.1			206270	11/11/15 14:00	WKD	TAL CAN
Total/NA	Analysis	245.1		1	206524	11/12/15 10:38	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	206521	11/12/15 03:30	DTN	TAL CAN
Total/NA	Analysis	300.0		1	206970	11/17/15 07:49	LKG	TAL CAN
Total/NA	Analysis	353.2		1	206746	11/13/15 12:59	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	206778	11/13/15 16:34	JWW	TAL CAN

Client Sample ID: FC-CCR-MW62-110915 — Lab Sample ID: 240-57710-8

Date Collected: 11/09/15 10:40 — **Matrix: Water**
Date Received: 11/10/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		20	207361	11/17/15 14:57	AS1	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		1	207534	11/18/15 15:22	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		10	207534	11/18/15 15:26	RKT	TAL CAN
Total Recoverable	Prep	200.8			206266	11/11/15 09:45	WKD	TAL CAN
Total Recoverable	Analysis	200.8		5	207809	11/20/15 11:35	AS1	TAL CAN
Total/NA	Prep	245.1			206270	11/11/15 14:00	WKD	TAL CAN
Total/NA	Analysis	245.1		1	206524	11/12/15 10:40	WAL	TAL CAN
Total/NA	Analysis	2320B-1997		1	206521	11/12/15 03:57	DTN	TAL CAN
Total/NA	Analysis	300.0		20	206970	11/17/15 08:49	LKG	TAL CAN
Total/NA	Analysis	353.2		1	206746	11/13/15 13:00	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	206778	11/13/15 16:34	JWW	TAL CAN
Total/NA	Analysis	Field Sampling		1	206721	11/09/15 10:40	FS	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR FCPP APS Four Corners

TestAmerica Job ID: 240-57710-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	11-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS

240-57710 Chain of Custody

Test[illegible]rica Phoenix
4625 E. Cotton Center Blvd.
Suite 189
Phoenix, AZ 85040
Phone: 602.437.3340 Fax:

3.21C33
3.5/C3.6

Ch[illegible] of Custody Record

097567

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact		Project Manager: Dan Sala	Site Contact:	Date: 11-9-15	COC No: 097567
Company Name: AECOM		Tel/Fax:	Lab Contact: Becki Strait	Carrier: FedEX	1 of 1 COCs
Address: 7720 N. 16th St #100		Analysis Turnaround Time			Sampler:
City/State/Zip: Phoenix AZ 85020		☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 602-248-2530		TAT if different from Below _____			Walk-in Client:
Fax:		☒ 2 weeks			Lab Sampling:
Project Name: CCR		☐ 1 week			
Site: FCPP APS Four Corners		☐ 2 days			Job / SDG No.:
P O #		☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	200.8 Mod Custom List	Nitrate/Nitrite as N	Alk/TDS/Anions	903.0 Std Target List	904.0 Std Target List	Sample Specific Notes:
FC-CCR-MW68-~~#06~~ RS 110615	11-6-15	1630	G	GW	5	N	N	X	X	X	X	X	pH Field 7.11
FC-CCR-MW61-110615	11-6-15	1405	G	GW	5	N	N	X	X	X	X	X	pH Field 8.81
FC-CCR-FD-1-110615	11-6-15	0000	G	GW	5	N	N	X	X	X	X	X	
FC-CCR-MS/MSD-1-110615	11-6-15	1405	G	GW	3	N	Y	X	X	X			MS/MSD of MW-61
FC-CCR-MW7-110715	11-7-15	0920	G	GW	5	N	N	X	X	X	X	X	pH Field 7.25
FC-CCR-MW60-110815	11-8-15	1005	G	GW	5	N	N	X	X	X	X	X	pH Field 7.35
FC-CCR-MW70-110915	11-9-15	0935	G	GW	5	N	N	X	X	X	X	X	pH Field 6.87
FC-CCR-FB-1-110915	11-9-15	1120	G	DI	3	N	N	X	X	X			
FC-CCR-MW62-110915	11-9-15	1040	G	GW	5	N	N	X	X	X	X	X	pH Field 6.94

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: TWO Coolers

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

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	AECOM	11-9-15 1330	To FedEX		
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company: TA	Date/Time: 11/10/15 930
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative Login # : 57710
Canton Facility

Client AECOM Site Name _____ Cooler unpacked by: [illegible]

Cooler Received on 11/10/15 Opened on 11/10/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 53 (CF +0.1 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

IR GUN# 48 (CF -0.3 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C ☑ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~

IR GUN# 8 (CF -0.5 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   - Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   - Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC554612
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

250 ml plastic sulfuric bottle for sample FC-CCR-FD-1-110615 arrived empty.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____.

Ref: SOP NC-SC-0005, Sample Receiving
X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099V-102115 Cooler Receipt Form.doc djl

TestAmerica Multiple Cooler Receipt Form/Narrative Login # : 57910
Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Cooler 1	53	3.2	3.3	wet ice
Cooler 2	↓	3.5	3.6	↓

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
FC-CCR-MW68-110615	240-57710-A-1	Plastic 250ml - with Sulfuric Acid	<2		
FC-CCR-MW68-110615	240-57710-C-1	Plastic 500ml - with Nitric Acid	<2		
FC-CCR-MW68-110615	240-57710-D-1	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW68-110615	240-57710-E-1	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW61-110615	240-57710-A-2	Plastic 250ml - with Sulfuric Acid	<2		
FC-CCR-MW61-110615	240-57710-B-2	Plastic 250ml - with Sulfuric Acid	<2		
FC-CCR-MW61-110615	240-57710-E-2	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW61-110615	240-57710-F-2	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW61-110615	240-57710-G-2	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW61-110615	240-57710-H-2	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-FD-1-110615	240-57710-A-3	Plastic 250ml - with Sulfuric Acid	<2		
FC-CCR-FD-1-110615	240-57710-C-3	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-FD-1-110615	240-57710-D-3	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-FD-1-110615	240-57710-E-3	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW7-110715	240-57710-A-4	Plastic 250ml - with Sulfuric Acid	<2		
FC-CCR-MW7-110715	240-57710-C-4	Plastic 500ml - with Nitric Acid	<2		
FC-CCR-MW7-110715	240-57710-D-4	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW7-110715	240-57710-E-4	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW60-110815	240-57710-A-5	Plastic 250ml - with Sulfuric Acid	<2		
FC-CCR-MW60-110815	240-57710-C-5	Plastic 500ml - with Nitric Acid	<2		
FC-CCR-MW60-110815	240-57710-D-5	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW60-110815	240-57710-E-5	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW70-110915	240-57710-A-6	Plastic 250ml - with Sulfuric Acid	<2		
FC-CCR-MW70-110915	240-57710-C-6	Plastic 500ml - with Nitric Acid	<2		
FC-CCR-MW70-110915	240-57710-D-6	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW70-110915	240-57710-E-6	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-FB-1-110915	240-57710-A-7	Plastic 250ml - with Sulfuric Acid	<2		
FC-CCR-FB-1-110915	240-57710-C-7	Plastic 500ml - with Nitric Acid	<2		
FC-CCR-MW62-110915	240-57710-A-8	Plastic 250ml - with Sulfuric Acid	<2		
FC-CCR-MW62-110915	240-57710-C-8	Plastic 500ml - with Nitric Acid	<2		
FC-CCR-MW62-110915	240-57710-D-8	Plastic 1 liter - Nitric Acid	<2		
FC-CCR-MW62-110915	240-57710-E-8	Plastic 1 liter - Nitric Acid	<2		