

CASE NARRATIVE
Client: Sundance Consulting, Inc.
Project: Fort Wingate, New Mexico
Report Number: 280-76216-1

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.

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.

Revision - 01/13/2016

The third paragraph of case narrative section Total Metals - 6020A was removed as it was included by mistake. The paragraph noted Zinc was detected in MB 280-302231/1-A; however, Zinc was not detected in this method blank.

Revision - 01/06/2016

The SVOC method reference was changed from 8270C to 8270D or 8270_DOD to be consistent throughout the report.

Sample Receipt

Thirteen samples were received on 10/31/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.3°C, 0.4°C, 0.4°C, 1.1°C, 1.2°C and 3.0°C.

One 1L unpreserved amber glass bottle was received for sample TMW40S102015 (280-76216-8) for 8081A Organochlorine Pesticides analysis. Sufficient volume is present to perform the requested analysis. However, re-extraction or re-analysis may not be possible due to limited sample volume if requested or required. The client was notified on 11/2/2015.

Please note the Caprolactam data are reported under separate cover (280-76216-2), as the laboratory does not hold DOD ELAP certification for this compound.

In accordance with the client's instructions received on 10/29/2015, the requested 8011 EDB analyses will be reported under a separate cover (280-76216-3).

No other anomalies were encountered during sample receipt.

GC/MS Volatiles - 8260B

Samples TB-06-102015 (280-76216-1), MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW27102015 (280-76216-6), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/07/2015 and 11/10/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Methylene Chloride was detected in method blank MB 280-303290/6 at a level that was less than one half the reporting limit; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged "J" in accordance with the DOD QSM.

The MS/MSD associated with analytical batch 280-303290 was performed on sample BGMW03102015 (280-76216-12). The MS/MSD exhibited spike compound recoveries outside the QC control limits for 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone and Dichlorobromomethane. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. The associated data in the parent sample have been flagged "J" in accordance with the DOD QSM.

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

GC/MS Semivolatiles - 8270D

Samples TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/02/2015, 11/10/2015 and 11/19/2015 and analyzed on 11/16/2015, 11/18/2015, 11/19/2015 and 11/24/2015.

Please note the Caprolactam data are reported under separate cover (280-76216-2), as the laboratory does not hold DOD ELAP certification for this compound.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Due to a laboratory error, sample TMW33102015 (280-76216-11) was extracted out of the prescribed hold time and analyzed. This sample was originally batched in prep batch 280-302159; however, there was no volume in the extracted vial and no documentation indicating what may have occurred to the extracted volume. Please note that the sample results should be considered estimated.

Surrogate Terphenyl-d14 was recovered below the QC control limits in sample TMW33102015 (280-76216-11). Upon re-extraction past hold time and reanalysis, surrogate recovery outliers were still present indicating the outages may be due to matrix interference. The original data have been reported. The associated data have been flagged "Q" in accordance with the DOD QSM.

Surrogate Terphenyl-d14 was recovered below the QC control limits in sample BGMW03102015 (280-76216-12). This anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary. The associated data have been flagged "Q" in accordance with the DOD QSM.

The LCS/LCSD associated with prep batch 280-302159 exhibited a percent recovery outside the QC control limits for Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The associated data have been flagged "Q" in accordance with the DOD QSM.

The LCS associated with prep batch 280-303390 exhibited a percent recovery outside the QC control limits for Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The associated data have been flagged "Q" in accordance with the DOD QSM.

The LCS/LCSD associated with prep batch 280-304950 exhibited a percent recovery outside the QC control limits for Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The associated data have been flagged "Q" in accordance with the DOD QSM.

MS/MSD analyses for prep batches 280-302159 and 280-303390 were not requested.

The Continuing Calibration Verification (CCV) associated with analytical batch 280-304769 recovered above the upper control limit for Benzidine. The associated samples were non-detect for the affected analyte; therefore, the data have been reported. The associated data have been flagged "Q" in accordance with the DOD QSM.

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

Gasoline Range Organics - 8015C

Samples TB-07-102015 (280-76216-2), MW03102015 (280-76216-3) and TMW33102015 (280-76216-11) were analyzed for gasoline range organics (GRO) in accordance with 8015C GRO. The samples were analyzed on 11/11/2015.

Sample TMW33102015 (280-76216-11) was received at the laboratory with a pH value >2. If samples are not preserved to a pH of 2.0 and analyses are performed outside a 7 day holding time, experimental evidence suggests that some aromatic compounds in wastewater samples are susceptible to biological degradation. The sample was analyzed within the normal 14 day holding time, but outside a 7 day holding time.

The Gasoline Range Organics (GRO) concentration reported for sample TMW33102015 (280-76216-11) is due to the presence of discrete peaks.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

MS/MSD analyses for analytical batch 280-303558 were not requested.

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

Diesel Range Organics - 8015C

Samples MW03102015 (280-76216-3) and TMW33102015 (280-76216-11) were analyzed for Diesel Range Organics (DRO) in accordance with 8015C DRO. The samples were prepared on 11/05/2015 and analyzed on 11/13/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

MS/MSD analyses for prep batch 280-302639 were not requested.

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

Organochlorine Pesticides - 8081A

Samples TMW40S102015 (280-76216-8), TMW23102015 (280-76216-10) and BGMW03102015 (280-76216-12) were analyzed for Organochlorine Pesticides (GC) in accordance with SW846 8081A. The samples were prepared on 11/04/2015 and analyzed on 11/07/2015.

TestAmerica Denver's practice for the reporting of dual column data in packages requiring forms and/or raw data is to report the surrogates from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred

results for target analytes and surrogates are reported as PRIMARY on the Sample Datasheets.

Samples TMW40S102015 (280-76216-8), TMW23102015 (280-76216-10) and BGMW03102015 (280-76216-12) formed emulsion during the extraction procedure. The emulsions were broken up using pour backs.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Surrogate DCB Decachlorobiphenyl was recovered below the QC control limits in samples TMW40S102015 (280-76216-8) and BGMW03102015 (280-76216-12). These anomalies are due to obvious matrix interferences; therefore, corrective action is deemed unnecessary. The associated data have been flagged "Q" in accordance with the DOD QSM.

MS/MSD analyses for prep batch 280-302540 were not requested.

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

Explosives - 8330B

Samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), MW22S102015 (280-76216-7), TMW23102015 (280-76216-10), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with SW846 8330B. The samples were prepared on 11/05/2015 and analyzed on 11/17/2015 and 11/18/2015.

TestAmerica Denver's practice for the reporting of dual column data in packages requiring forms and/or raw data is to report the surrogates from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes and surrogates are reported as PRIMARY on the Sample Datasheets.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Samples MW22S102015 (280-76216-7), TMW23102015 (280-76216-10) and BGMW03102015 (280-76216-12) required filtration to reduce matrix interferences.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to analytes present above the calibration curve, sample TMW23102015 (280-76216-10) had to be analyzed at a dilution. Surrogate recoveries could not be accurately calculated for the diluted analysis because the extract was diluted beyond the ability to reliably quantitate recoveries. The reporting limits and method detection limits have been adjusted relative to the dilutions required.

Surrogate 1,2-Dinitrobenzene was recovered above the QC control limits in samples TMW23102015 (280-76216-10) and TMW07102015 (280-76216-13). These anomalies are due to obvious matrix interferences; therefore, corrective action is deemed unnecessary. The associated data have been flagged "Q" in accordance with the DOD QSM.

The RPD between the primary and confirmation columns exceeded 40% for 2-Amino-4,6-dinitrotoluene, 4-Amino-2,6-dinitrotoluene and p-Nitrotoluene in sample TMW23102015 (280-76216-10). The lower of the two values has been reported, as matrix interference is evident. The results in the analytical report have been flagged with "J" in accordance with the DOD QSM.

2-Amino-4,6-dinitrotoluene was detected in method blank MB 280-302679/1-A at a level less than the reporting limit on the confirmation column. The primary column result was ND; therefore, the method blank is ND. The value should be considered an estimate, and has been flagged "J" in accordance with the DOD QSM. If the associated samples reported a result above the MDL and/or RL, the result has been flagged "B".

o-Nitrotoluene was detected in method blank MB 280-302679/1-A at a level that was less than one half the reporting limit on the confirmation column; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged "J" in accordance with the DOD QSM.

The MS/MSD associated with prep batch 280-302679 was performed on sample TMW26102015 (280-76216-4). The MS/MSD exhibited a spike compound recovery outside the QC control limits for HMX. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. The associated data in the parent sample has been flagged "J" in accordance with the DOD QSM.

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

Perchlorate - 6860

Samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW27102015 (280-76216-6), TMW40S102015 (280-76216-8), TMW23102015 (280-76216-10) and BGMW03102015 (280-76216-12) were analyzed for Perchlorate in accordance with 6860. The samples were analyzed on 11/21/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, sample TMW40S102015 (280-76216-8) had to be analyzed at dilutions. The reporting limits and method detection limits have been adjusted relative to the dilutions required.

MS/MSD analyses for analytical batch 280-305017 were not requested.

The interference check standard (INF) associated with analytical batch 280-305014 was out of control, biased high, for Perchlorate. As the associated samples do not contain any detectable concentrations greater than the reporting limit, corrective action is deemed unnecessary.

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

Total Metals - 6010C

Samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW27102015 (280-76216-6), MW22S102015 (280-76216-7), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for Total Metals (ICP) in accordance with 6010C. The samples were prepared on 11/04/2015 and analyzed on 11/18/2015 and 11/20/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), MW22S102015 (280-76216-7), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) had to be analyzed at dilutions. The reporting limits and method detection limits have been adjusted relative to the dilutions required.

The MS/MSD associated with prep batch 280-302230 was performed on sample TMW26102015 (280-76216-4). The MS/MSD spike compound recoveries and RPD data could not be reliably calculated for Sodium because the sample concentration was greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. The associated data in the parent sample has been flagged "J" in accordance with the DOD QSM.

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

Dissolved Metals - 6010C

Samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW27102015 (280-76216-6), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for Dissolved Metals (ICP) in accordance with SW 846 6010C. The samples were prepared on 11/10/2015 and analyzed on 11/13/2015 and 11/17/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) had to be analyzed at dilutions. The reporting limits and method detection limits have been adjusted relative to the dilutions required.

The MS/MSD associated with prep batch 280-302230 was performed on sample TMW26102015 (280-76216-4). The MS/MSD spike compound recoveries and RPD data could not be reliably calculated for Sodium because the sample concentration was greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. The associated data in the parent sample has been flagged "J" in accordance with the DOD QSM.

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

Total Metals - 6020A

Samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW27102015 (280-76216-6), MW22S102015 (280-76216-7), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for total metals (ICPMS) in accordance with SW846 6020A. The samples were prepared on 11/04/2015 and analyzed on 11/05/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

The MS/MSD associated with prep batch 280-302231 was performed on sample TMW26102015 (280-76216-4). The MS/MSD exhibited a spike compound recovery outside the QC control limits for Manganese. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. The associated data in the parent sample has been flagged "J" in accordance with the DOD QSM.

The low Continuing Calibration Verification (CCVL) standard associated analytical batch 280-302842 exhibited a %Difference (%D) value out of range, biased high, for Cadmium. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. Associated data have been flagged "Q" in accordance with the DOD QSM.

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

Dissolved Metals - 6020A

Samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW27102015 (280-76216-6), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for dissolved metals (ICPMS) in accordance with SW 846 6020A. The samples were prepared on 11/05/2015 and analyzed on 11/10/2015 and 11/11/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

The MS/MSD associated with prep batch 280-302621 was performed on sample TMW26102015 (280-76216-4). The MS/MSD exhibited a spike compound recovery outside the QC control limits for Manganese. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. The associated data in the parent sample has been flagged "J" in accordance with the DOD QSM.

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

Total Mercury - 7470A

Samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW27102015 (280-76216-6), MW22S102015 (280-76216-7), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for mercury in accordance with SW 846 7470A. The samples were prepared and analyzed on 11/16/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

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

Dissolved Mercury - 7470A

Samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW27102015 (280-76216-6), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for dissolved mercury in accordance with SW 846 7470A. The samples were prepared and analyzed on 11/16/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

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

Nitrate & Nitrite - 9056

Samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW22102015 (280-76216-9), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11), BGMW03102015 (280-76216-12) and TMW07102015 (280-76216-13) were analyzed for anions by ion chromatography in accordance with SW 846 9056. The samples were analyzed on 10/31/2015 and 11/03/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Due to a required dilution to obtain a recovery within the calibration range, sample TMW23102015 (280-76216-10) was reanalyzed past holding time for Nitrate. The original analysis of the undiluted sample was performed within holding time. The diluted result has been reported and flagged accordingly.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes and/or matrix interference, samples MW03102015 (280-76216-3), TMW26102015 (280-76216-4), DTW26102015 (280-76216-5), TMW22102015 (280-76216-9), TMW23102015 (280-76216-10), TMW33102015 (280-76216-11) and TMW07102015 (280-76216-13) had to be analyzed at dilutions. The reporting limits and method detection limits have been adjusted relative to the dilutions required.

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



History of Manual Changes to Automated Data Review Qualifiers

Changed by: Doug Scott

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: BGMW03102015								
BARIUM	6020A	RE2/DIS	23	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:		CCVL high						
BARIUM	6020A	RE2/DIS	23	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:		error in flagging						
BARIUM	6020A	RE2/DIS	23	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:		CCVL high						
BARIUM	6020A	RE2/DIS	23	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:		DV flagged in error, remove						
BARIUM	6020A	RE2/TOT	150	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:		CCVL high						
BARIUM	6020A	RE2/TOT	150	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:		error in flagging						
BARIUM	6020A	RE2/TOT	150	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:		CCVL high						
BARIUM	6020A	RE2/TOT	150	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:		DV flagged in error, remove						
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:		CCVL low						
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:		DV flagged in error, remove						

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: BGMW03102015								
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RE2/DIS	3.3	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RE2/DIS	3.3	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RES/TOT	6.1	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RES/TOT	6.1	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/DIS	1.4	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/DIS	1.4	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/TOT	3.8	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/TOT	3.8	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
SILVER	6020A	RES/TOT	0.046	ug/L	Calibration Blank Contamination		U	1/19/2016 14:33
Reason for change:	0.066 CCB							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: BGMW03102015								
SODIUM	6010C	RE2/DIS	760000	ug/L	Matrix Spike Lower Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/DIS	760000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/TOT	720000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
THALLIUM	6020A	RES/TOT	0.16	ug/L	Calibration Blank Contamination		U	1/19/2016 14:33
Reason for change:	0.06 CCB							
ZINC	6020A	RE2/TOT	29	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RE2/TOT	29	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
Field Sample ID: DTW26102015								
BARIUM	6020A	RE2/DIS	18	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	18	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/DIS	18	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	18	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
BARIUM	6020A	RE2/TOT	22	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: DTW26102015								
BARIUM	6020A	RE2/TOT	22	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/TOT	22	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	22	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:37
Reason for change:	CCVL low							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
CHROMIUM	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:37
Reason for change:	CCVL low							
CHROMIUM	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: DTW26102015								
COPPER	6020A	RE2/DIS	2.2	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RE2/DIS	2.2	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RES/TOT	1.7	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RES/TOT	1.7	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/DIS	4.1	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/DIS	4.1	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/TOT	1.9	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/TOT	1.9	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
SILVER	6020A	RES/DIS	0.037	ug/L	Calibration Blank Contamination		U	1/19/2016 14:25
Reason for change:	CCB 0.054							
SODIUM	6010C	RE2/DIS	890000	ug/L	Matrix Spike Lower Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/DIS	890000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: DTW26102015								
SODIUM	6010C	RE2/TOT	950000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
Field Sample ID: MW03102015								
BARIUM	6020A	RE2/DIS	7.8	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	7.8	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/DIS	7.8	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	7.8	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
BARIUM	6020A	RE2/TOT	9.6	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	9.6	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/TOT	9.6	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	9.6	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: MW03102015								
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:37
Reason for change:	CCVL low							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
CHROMIUM	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:37
Reason for change:	CCVL low							
CHROMIUM	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RE2/DIS	1.2	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RE2/DIS	1.2	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:36
Reason for change:	CCVL low							
COPPER	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/DIS	0.43	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: MW03102015								
NICKEL	6020A	RES/DIS	0.43	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/TOT	0.35	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/TOT	0.35	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
SODIUM	6010C	RE2/DIS	1100000	ug/L	Matrix Spike Lower Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/DIS	1100000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/TOT	1200000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
ZINC	6020A	RES/DIS	4.5	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RES/DIS	4.5	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
ZINC	6020A	RES/TOT	4.0	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RES/TOT	4.0	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
Field Sample ID: MW22S102015								
BARIUM	6020A	RE2/TOT	460	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: MW22S102015								
BARIUM	6020A	RE2/TOT	460	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/TOT	460	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	460	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RES/TOT	13	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RES/TOT	13	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/TOT	14	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/TOT	14	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
SODIUM	6010C	RE2/TOT	1000000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
ZINC	6020A	RE2/TOT	57	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: MW22S102015								
ZINC	6020A	RE2/TOT	57	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change: DV flagged in error, remove								
Field Sample ID: TMW07102015								
BARIUM	6020A	RE2/DIS	24	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change: CCVL high								
BARIUM	6020A	RE2/DIS	24	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change: error in flagging								
BARIUM	6020A	RE2/DIS	24	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change: CCVL high								
BARIUM	6020A	RE2/DIS	24	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change: DV flagged in error, remove								
BARIUM	6020A	RE2/TOT	48	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change: CCVL high								
BARIUM	6020A	RE2/TOT	48	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change: error in flagging								
BARIUM	6020A	RE2/TOT	48	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change: CCVL high								
BARIUM	6020A	RE2/TOT	48	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change: DV flagged in error, remove								
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change: CCVL low								
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change: DV flagged in error, remove								

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW07102015								
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:37
Reason for change:	CCVL low							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RE2/DIS	0.64	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RE2/DIS	0.64	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RES/TOT	3.9	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RES/TOT	3.9	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/DIS	2.4	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/DIS	2.4	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/TOT	4.4	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW07102015								
NICKEL	6020A	RES/TOT	4.4	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
SODIUM	6010C	RE2/DIS	1200000	ug/L	Matrix Spike Lower Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/DIS	1200000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/TOT	1300000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
ZINC	6020A	RES/DIS	3.2	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RES/DIS	3.2	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
ZINC	6020A	RE2/TOT	16	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RE2/TOT	16	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
Field Sample ID: TMW23102015								
2-AMINO-4,6-DINITROTOLUENE	8330B	RES	0.83	ug/L	Professional Judgment		J	1/8/2016 12:29
Reason for change:	>40% RPD confirmation							
4-AMINO-2,6-DINITROTOLUENE	8330B	RES	0.41	ug/L	Professional Judgment		J	1/8/2016 12:29
Reason for change:	>40% RPD confirmation							
4-NITROTOLUENE	8330B	RE2	1.3	ug/L	Professional Judgment		J	1/8/2016 12:29
Reason for change:	>40% RPD confirmation							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW23102015								
BARIUM	6020A	RE2/DIS	71	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	71	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/DIS	71	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	71	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
BARIUM	6020A	RE2/TOT	81	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	81	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/TOT	81	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	81	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW23102015								
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RE2/DIS	2.7	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RE2/DIS	2.7	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8330B	DL	56	ug/L	Surrogate/Tracer Recovery Uppr	J		1/8/2016 12:27
Reason for change:	diluted out							
NICKEL	6020A	RES/DIS	2.8	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/DIS	2.8	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/TOT	2.8	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/TOT	2.8	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
SILVER	6020A	RES/TOT	0.035	ug/L	Calibration Blank Contamination		U	1/19/2016 14:33
Reason for change:	0.066 ccb							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW23102015								
SODIUM	6010C	RE2/DIS	820000	ug/L	Matrix Spike Lower Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/DIS	820000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/TOT	870000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
ZINC	6020A	RES/DIS	8.2	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RES/DIS	8.2	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
ZINC	6020A	RE2/TOT	13	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RE2/TOT	13	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
Field Sample ID: TMW26102015								
BARIUM	6020A	RE2/DIS	19	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	19	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/DIS	19	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	19	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW26102015								
BARIUM	6020A	RE2/TOT	24	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	24	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/TOT	24	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	24	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:37
Reason for change:	CCVL low							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
CHROMIUM	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:37
Reason for change:	CCVL low							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW26102015								
CHROMIUM	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RE2/DIS	2.2	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RE2/DIS	2.2	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RES/TOT	1.6	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RES/TOT	1.6	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/TOT	1.9	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/TOT	1.9	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
SODIUM	6010C	RE2/DIS	870000	ug/L	Matrix Spike Lower Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/DIS	870000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW26102015								
SODIUM	6010C	RE2/TOT	890000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
Field Sample ID: TMW27102015								
BARIUM	6020A	RE2/DIS	110	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	110	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/DIS	110	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	110	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
BARIUM	6020A	RE2/TOT	140	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	140	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/TOT	140	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	140	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW27102015								
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:37
Reason for change:	CCVL low							
CHROMIUM	6020A	RES/DIS	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
CHROMIUM	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:37
Reason for change:	CCVL low							
CHROMIUM	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RE2/DIS	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:36
Reason for change:	CCVL low							
COPPER	6020A	RE2/DIS	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:36
Reason for change:	CCVL low							
COPPER	6020A	RES/TOT	1.8	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:42
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/DIS	0.50	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW27102015								
NICKEL	6020A	RES/DIS	0.50	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/TOT	0.64	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/TOT	0.64	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
SODIUM	6010C	RE2/TOT	370000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RES/DIS	370000	ug/L	Matrix Spike Lower Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RES/DIS	370000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
ZINC	6020A	RE2/TOT	4.3	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RE2/TOT	4.3	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
Field Sample ID: TMW33102015								
BARIUM	6020A	RE2/DIS	31	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/DIS	31	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/DIS	31	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW33102015								
BARIUM	6020A	RE2/DIS	31	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
BARIUM	6020A	RE2/TOT	36	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:14
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	36	ug/L	Continuing Calibration Verificatic	J		1/19/2016 14:14
Reason for change:	error in flagging							
BARIUM	6020A	RE2/TOT	36	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:18
Reason for change:	CCVL high							
BARIUM	6020A	RE2/TOT	36	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RES/DIS	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic		UJ	1/19/2016 14:38
Reason for change:	CCVL low							
CADMIUM	6020A	RE2/TOT	1.0	ug/L	Continuing Calibration Verificatic	UJ		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
COPPER	6020A	RE2/DIS	3.3	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RE2/DIS	3.3	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW33102015								
COPPER	6020A	RES/TOT	2.5	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:15
Reason for change:	CCVL high							
COPPER	6020A	RES/TOT	2.5	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
GASOLINE RANGE ORGANICS	8015C GRO	RES	14	ug/L	Professional Judgment		J	1/8/2016 12:24
Reason for change:	detection associated with discret peaks.							
NICKEL	6020A	RES/DIS	2.6	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/DIS	2.6	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
NICKEL	6020A	RES/TOT	2.7	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:38
Reason for change:	CCVL low							
NICKEL	6020A	RES/TOT	2.7	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
SILVER	6020A	RES/DIS	0.085	ug/L	Calibration Blank Contamination		U	1/19/2016 14:23
Reason for change:	CCB 0.055							
SILVER	6020A	RES/TOT	0.049	ug/L	Calibration Blank Contamination		U	1/19/2016 14:32
Reason for change:	CCB 0.066							
SODIUM	6010C	RE2/DIS	2500000	ug/L	Matrix Spike Lower Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
SODIUM	6010C	RE2/DIS	2500000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW33102015								
SODIUM	6010C	RE2/TOT	2600000	ug/L	Matrix Spike Upper Estimation	J		1/8/2016 12:31
Reason for change:	4X rule							
ZINC	6020A	RES/DIS	7.6	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RES/DIS	7.6	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							
ZINC	6020A	RE2/TOT	7.5	ug/L	Continuing Calibration Verificatic		J	1/19/2016 14:21
Reason for change:	CCVL low							
ZINC	6020A	RE2/TOT	7.5	ug/L	Continuing Calibration Verificatic	J		1/20/2016 11:41
Reason for change:	DV flagged in error, remove							



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<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Lab Reporting Batch: 280-76216-1						
Method: 6010C						
BGMW03102015	280-76216-12	AQ	N	3005A	10/30/2015 12:30:00 PM	S2AVE
BGMW03102015	280-76216-12	AQ	N	3010A	10/30/2015 12:30:00 PM	S2AVE
DTW26102015	280-76216-5	AQ	FD	3005A	10/30/2015 11:15:00 AM	S2AVE
DTW26102015	280-76216-5	AQ	FD	3010A	10/30/2015 11:15:00 AM	S2AVE
MW03102015	280-76216-3	AQ	N	3005A	10/30/2015 9:10:00 AM	S2AVE
MW03102015	280-76216-3	AQ	N	3010A	10/30/2015 9:10:00 AM	S2AVE
MW22S102015	280-76216-7	AQ	N	3010A	10/30/2015 8:02:00 AM	S2AVE
TMW07102015	280-76216-13	AQ	N	3005A	10/30/2015 12:10:00 PM	S2AVE
TMW07102015	280-76216-13	AQ	N	3010A	10/30/2015 12:10:00 PM	S2AVE
TMW23102015	280-76216-10	AQ	N	3005A	10/30/2015 9:43:00 AM	S2AVE
TMW23102015	280-76216-10	AQ	N	3010A	10/30/2015 9:43:00 AM	S2AVE
TMW26102015	280-76216-4	AQ	N	3005A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015	280-76216-4	AQ	N	3010A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MS	280-76216-4MS	AQ	MS	3005A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MS	280-76216-4MS	AQ	MS	3010A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MSD	280-76216-4MSD	AQ	MSD	3005A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MSD	280-76216-4MSD	AQ	MSD	3010A	10/30/2015 11:15:00 AM	S2AVE
TMW27102015	280-76216-6	AQ	N	3010A	10/30/2015 1:15:00 PM	S2AVE
TMW27102015	280-76216-6	AQ	N	3005A	10/30/2015 1:15:00 PM	S2AVE
TMW33102015	280-76216-11	AQ	N	3005A	10/30/2015 11:20:00 AM	S2AVE
TMW33102015	280-76216-11	AQ	N	3010A	10/30/2015 11:20:00 AM	S2AVE

Method: 6020A

BGMW03102015	280-76216-12	AQ	N	3005A	10/30/2015 12:30:00 PM	S2AVE
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Method: 6020A						
BGMW03102015	280-76216-12	AQ	N	3020A	10/30/2015 12:30:00 PM	S2AVE
DTW26102015	280-76216-5	AQ	FD	3005A	10/30/2015 11:15:00 AM	S2AVE
DTW26102015	280-76216-5	AQ	FD	3020A	10/30/2015 11:15:00 AM	S2AVE
MW03102015	280-76216-3	AQ	N	3005A	10/30/2015 9:10:00 AM	S2AVE
MW03102015	280-76216-3	AQ	N	3020A	10/30/2015 9:10:00 AM	S2AVE
MW22S102015	280-76216-7	AQ	N	3020A	10/30/2015 8:02:00 AM	S2AVE
TMW07102015	280-76216-13	AQ	N	3005A	10/30/2015 12:10:00 PM	S2AVE
TMW07102015	280-76216-13	AQ	N	3020A	10/30/2015 12:10:00 PM	S2AVE
TMW23102015	280-76216-10	AQ	N	3005A	10/30/2015 9:43:00 AM	S2AVE
TMW23102015	280-76216-10	AQ	N	3020A	10/30/2015 9:43:00 AM	S2AVE
TMW26102015	280-76216-4	AQ	N	3005A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015	280-76216-4	AQ	N	3020A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MS	280-76216-4MS	AQ	MS	3005A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MS	280-76216-4MS	AQ	MS	3020A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MSD	280-76216-4MSD	AQ	MSD	3005A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MSD	280-76216-4MSD	AQ	MSD	3020A	10/30/2015 11:15:00 AM	S2AVE
TMW27102015	280-76216-6	AQ	N	3005A	10/30/2015 1:15:00 PM	S2AVE
TMW27102015	280-76216-6	AQ	N	3020A	10/30/2015 1:15:00 PM	S2AVE
TMW33102015	280-76216-11	AQ	N	3005A	10/30/2015 11:20:00 AM	S2AVE
TMW33102015	280-76216-11	AQ	N	3020A	10/30/2015 11:20:00 AM	S2AVE
Method: 6860						
BGMW03102015	280-76216-12	AQ	N	METHOD	10/30/2015 12:30:00 PM	S2AVE
DTW26102015	280-76216-5	AQ	FD	METHOD	10/30/2015 11:15:00 AM	S2AVE
MW03102015	280-76216-3	AQ	N	METHOD	10/30/2015 9:10:00 AM	S2AVE

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Method: 6860						
TMW23102015	280-76216-10	AQ	N	METHOD	10/30/2015 9:43:00 AM	S2AVE
TMW26102015	280-76216-4	AQ	N	METHOD	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MS	280-76216-4MS	AQ	MS	METHOD	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MSD	280-76216-4MSD	AQ	MSD	METHOD	10/30/2015 11:15:00 AM	S2AVE
TMW27102015	280-76216-6	AQ	N	METHOD	10/30/2015 1:15:00 PM	S2AVE
TMW40S102015	280-76216-8	AQ	N	METHOD	10/30/2015 8:55:00 AM	S2AVE
Method: 7470A						
BGMW03102015	280-76216-12	AQ	N	7470A	10/30/2015 12:30:00 PM	S2AVE
DTW26102015	280-76216-5	AQ	FD	7470A	10/30/2015 11:15:00 AM	S2AVE
MW03102015	280-76216-3	AQ	N	7470A	10/30/2015 9:10:00 AM	S2AVE
MW22S102015	280-76216-7	AQ	N	7470A	10/30/2015 8:02:00 AM	S2AVE
TMW07102015	280-76216-13	AQ	N	7470A	10/30/2015 12:10:00 PM	S2AVE
TMW23102015	280-76216-10	AQ	N	7470A	10/30/2015 9:43:00 AM	S2AVE
TMW26102015	280-76216-4	AQ	N	7470A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MS	280-76216-4MS	AQ	MS	7470A	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MSD	280-76216-4MSD	AQ	MSD	7470A	10/30/2015 11:15:00 AM	S2AVE
TMW27102015	280-76216-6	AQ	N	7470A	10/30/2015 1:15:00 PM	S2AVE
TMW33102015	280-76216-11	AQ	N	7470A	10/30/2015 11:20:00 AM	S2AVE
Method: 8015C DRO						
MW03102015	280-76216-3	AQ	N	3510C	10/30/2015 9:10:00 AM	S2AVE
TMW33102015	280-76216-11	AQ	N	3510C	10/30/2015 11:20:00 AM	S2AVE
Method: 8015C GRO						
MW03102015	280-76216-3	AQ	N	METHOD	10/30/2015 9:10:00 AM	S2AVE
TB-07-102015	280-76216-2	AQ	TB	METHOD	10/30/2015 8:05:00 AM	S2AVE

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Method: 8015C GRO						
TMW33102015	280-76216-11	AQ	N	METHOD	10/30/2015 11:20:00 AM	S2AVE
Method: 8081A						
BGMW03102015	280-76216-12	AQ	N	3510C	10/30/2015 12:30:00 PM	S2AVE
TMW23102015	280-76216-10	AQ	N	3510C	10/30/2015 9:43:00 AM	S2AVE
TMW40S102015	280-76216-8	AQ	N	3510C	10/30/2015 8:55:00 AM	S2AVE
Method: 8260B						
BGMW03102015	280-76216-12	AQ	N	5030	10/30/2015 12:30:00 PM	S2AVE
BGMW03102015MS	280-76216-12MS	AQ	MS	5030	10/30/2015 12:30:00 PM	S2AVE
BGMW03102015MSD	280-76216-12MSD	AQ	MSD	5030	10/30/2015 12:30:00 PM	S2AVE
DTW26102015	280-76216-5	AQ	FD	5030	10/30/2015 11:15:00 AM	S2AVE
MW03102015	280-76216-3	AQ	N	5030	10/30/2015 9:10:00 AM	S2AVE
TB-06-102015	280-76216-1	AQ	TB	5030	10/30/2015 8:00:00 AM	S2AVE
TMW07102015	280-76216-13	AQ	N	5030	10/30/2015 12:10:00 PM	S2AVE
TMW23102015	280-76216-10	AQ	N	5030	10/30/2015 9:43:00 AM	S2AVE
TMW26102015	280-76216-4	AQ	N	5030	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MS	280-76216-4MS	AQ	MS	5030	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MSD	280-76216-4MSD	AQ	MSD	5030	10/30/2015 11:15:00 AM	S2AVE
TMW27102015	280-76216-6	AQ	N	5030	10/30/2015 1:15:00 PM	S2AVE
TMW33102015	280-76216-11	AQ	N	5030	10/30/2015 11:20:00 AM	S2AVE
Method: 8270D						
BGMW03102015	280-76216-12	AQ	N	3520C	10/30/2015 12:30:00 PM	S2AVE
TMW07102015	280-76216-13	AQ	N	3520C	10/30/2015 12:10:00 PM	S2AVE
TMW33102015	280-76216-11	AQ	N	3520C	10/30/2015 11:20:00 AM	S2AVE



Data Review Sample Summary Report by Analysis Method

Reviewed By:

Approved By:

Laboratory: TA DEN

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
Method: 8330B						
BGMW03102015	280-76216-12	AQ	N	3535	10/30/2015 12:30:00 PM	S2AVE
DTW26102015	280-76216-5	AQ	FD	3535	10/30/2015 11:15:00 AM	S2AVE
MW03102015	280-76216-3	AQ	N	3535	10/30/2015 9:10:00 AM	S2AVE
MW22S102015	280-76216-7	AQ	N	3535	10/30/2015 8:02:00 AM	S2AVE
TMW07102015	280-76216-13	AQ	N	3535	10/30/2015 12:10:00 PM	S2AVE
TMW23102015	280-76216-10	AQ	N	3535	10/30/2015 9:43:00 AM	S2AVE
TMW26102015	280-76216-4	AQ	N	3535	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MS	280-76216-4MS	AQ	MS	3535	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MSD	280-76216-4MSD	AQ	MSD	3535	10/30/2015 11:15:00 AM	S2AVE
Method: 9056						
BGMW03102015	280-76216-12	AQ	N	METHOD	10/30/2015 12:30:00 PM	S2AVE
DTW26102015	280-76216-5	AQ	FD	METHOD	10/30/2015 11:15:00 AM	S2AVE
MW03102015	280-76216-3	AQ	N	METHOD	10/30/2015 9:10:00 AM	S2AVE
TMW07102015	280-76216-13	AQ	N	METHOD	10/30/2015 12:10:00 PM	S2AVE
TMW22102015	280-76216-9	AQ	N	METHOD	10/30/2015 9:20:00 AM	S2AVE
TMW23102015	280-76216-10	AQ	N	METHOD	10/30/2015 9:43:00 AM	S2AVE
TMW26102015	280-76216-4	AQ	N	METHOD	10/30/2015 11:15:00 AM	S2AVE
TMW26102015DUP	280-76216-4DUP	AQ	DUP	METHOD	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MS	280-76216-4MS	AQ	MS	METHOD	10/30/2015 11:15:00 AM	S2AVE
TMW26102015MSD	280-76216-4MSD	AQ	MSD	METHOD	10/30/2015 11:15:00 AM	S2AVE
TMW33102015	280-76216-11	AQ	N	METHOD	10/30/2015 11:20:00 AM	S2AVE



Data Review Sample Summary Report by Analysis Method

Reviewed By:

Approved By:

Laboratory: TA DEN

<i>Client Sample ID</i>	<i>Lab Sample ID</i>	<i>Matrix</i>	<i>Sample Type</i>	<i>Preparation Method</i>	<i>Collection Date</i>	<i>Validation Code</i>
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Validation Label Legend

<i>Label Code</i>	<i>Label Description</i>	<i>EPA Level</i>
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with calibration
S2BVM	Stage_2B_Validation_Manual	Level 3 with calibration
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with calibration
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A



Data Review Summary

Lab Reporting Batch ID: 280-76216-1
 EDD Filename: 280-76216-1

Laboratory: TA DEN
 eQAPP Name: FtWingate_Primary_120405

<i>Validation Area</i>	<i>Note</i>
Technical Holding Times	SR
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Field Duplicate RPD Report

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 6010C**Matrix: AQ**

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	TMW26102015 (DIS)	DTW26102015 (DIS)			
CALCIUM	18000	18000	0	50.00	No Qualifiers Applied
MAGNESIUM	7300	7400	1	50.00	
SODIUM	870000	890000	2	50.00	
IRON	100 U	24	200	50.00	J(all detects) UJ(all non-detects)
POTASSIUM	390	690	56	50.00	

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	TMW26102015 (TOT)	DTW26102015 (TOT)			
ALUMINUM	270	260	4	50.00	No Qualifiers Applied
CALCIUM	18000	18000	0	50.00	
IRON	130	130	0	50.00	
MAGNESIUM	6900	7200	4	50.00	
POTASSIUM	690	590	16	50.00	
SODIUM	890000	950000	7	50.00	

Method: 6020A**Matrix: AQ**

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	TMW26102015 (DIS)	DTW26102015 (DIS)			
ARSENIC	1.2	1.3	8	50.00	No Qualifiers Applied
BARIUM	19	18	5	50.00	
COBALT	0.27	0.32	17	50.00	
COPPER	2.2	2.2	0	50.00	
MANGANESE	120	120	0	50.00	
VANADIUM	3.5	3.5	0	50.00	
BERYLLIUM	1.0 U	0.083	200	50.00	J(all detects) UJ(all non-detects)
NICKEL	1.8	4.1	78	50.00	
SILVER	5.0 U	0.037	200	50.00	

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	TMW26102015 (TOT)	DTW26102015 (TOT)			
ARSENIC	1.2	0.94	24	50.00	No Qualifiers Applied
BARIUM	24	22	9	50.00	
COBALT	0.32	0.31	3	50.00	
COPPER	1.6	1.7	6	50.00	
MANGANESE	120	110	9	50.00	
NICKEL	1.9	1.9	0	50.00	
SILVER	5.0 U	0.046	200	50.00	
VANADIUM	3.8	3.6	5	50.00	

Method: 7470A**Matrix: AQ**

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	TMW26102015 (DIS)	DTW26102015 (DIS)			
MERCURY	0.032	0.032	0	50.00	No Qualifiers Applied

Project Name and Number: 102012 - FWDA 102012 GW

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Field Duplicate RPD Report

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 7470A

Matrix: AQ

<i>Analyte</i>	<i>Concentration (ug/L)</i>		<i>Sample RPD</i>	<i>eQAPP RPD</i>	<i>Flag</i>
	TMW26102015 (TOT)	DTW26102015 (TOT)			
MERCURY	0.028	0.20 U	200	50.00	No Qualifiers Applied

Project Name and Number: 102012 - FWDA 102012 GW

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QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 8270D	Preparation Method: 3520C
Matrix: AQ	

Sample ID	Type	Actual	Criteria	Units	Flag
TMW33102015 (RES)	Sampling To Extraction	11.00	7.00	DAYS	J (all detects) UJ (all non-detects)

Method: 9056	Preparation Method: 3520C
Matrix: AQ	

Sample ID	Type	Actual	Criteria	Units	Flag
TMW23102015 (RE2/TOT)	Sampling To Analysis	87.50	48.00	HOURS	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 8270D**Matrix: AQ**

<i>QC Sample ID (Associated Samples)</i>	<i>Compound</i>	<i>LCS %R</i>	<i>LCSD %R</i>	<i>%R Limits</i>	<i>RPD (Limits)</i>	<i>Affected Compounds</i>	<i>Flag</i>
LCSD 280-302159/3-A (BGMW03102015 TMW07102015)	BENZIDINE	-	26	27.00-150.00	-	BENZIDINE	J (all detects) UJ (all non-detects)
LCS 280-303390/2-A (TMW33102015)	BENZIDINE	21	-	27.00-150.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Project Name and Number: 102012 - FWDA 102012 GW

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 6010C**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
TMW26102015MS (TOT) TMW26102015MSD (TOT) (BGMW03102015 DTW26102015 MW03102015 MW22S102015 TMW07102015 TMW23102015 TMW26102015 TMW27102015 TMW33102015)	SODIUM	158	195	80.00-120.00	-	SODIUM	J (all detects)

Method: 6020A**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
TMW26102015MS (TOT) (BGMW03102015 DTW26102015 MW03102015 MW22S102015 TMW07102015 TMW23102015 TMW26102015 TMW27102015 TMW33102015)	MANGANESE	84	-	85.00-117.00	-	MANGANESE	J(all detects) UJ(all non-detects)
TMW26102015MS (DIS) (BGMW03102015 DTW26102015 MW03102015 TMW07102015 TMW23102015 TMW26102015 TMW27102015 TMW33102015)	MANGANESE	82	-	85.00-117.00	-	MANGANESE	J(all detects) UJ(all non-detects)

Method: 8330B**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
TMW26102015MSD (BGMW03102015 DTW26102015 MW03102015 MW22S102015 TMW07102015 TMW23102015 TMW26102015)	Octahydro-1,3,5,7-tetranitro-1,3,5,7-	-	72	80.00-115.00	-	Octahydro-1,3,5,7-tetranitro-1,3,5,	J(all detects) UJ(all non-detects)

Project Name and Number: 102012 - FWDA 102012 GW

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 6010C**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
TMW26102015MS (DIS) TMW26102015MSD (DIS) (BGMW03102015 DTW26102015 MW03102015 TMW07102015 TMW23102015 TMW26102015 TMW27102015 TMW33102015)	SODIUM	72	145	80.00-120.00	-	SODIUM	J(all detects) UJ(all non-detects)

Method: 8260B**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BGMW03102015MSD (BGMW03102015 TMW07102015 TMW33102015)	2-HEXANONE 4-METHYL-2-PENTANONE ACETONE BROMODICHLOROMETHANE DIBROMOCHLOROMETHANE	- - - - -	134 141 141 123 123	55.00-130.00 60.00-135.00 40.00-140.00 75.00-120.00 75.00-120.00	- - - - -	2-HEXANONE 4-METHYL-2-PENTANONE ACETONE BROMODICHLOROMETHANE DIBROMOCHLOROMETHANE	J(all detects)

Project Name and Number: 102012 - FWDA 102012 GW

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Method Blank Outlier Report

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 8260B				
Matrix: AQ				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 280-303290/6	11/10/2015 10:01:00 AM	METHYLENE CHLORIDE	0.350 ug/L	BGMW03102015 TMW07102015 TMW33102015

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
TMW33102015(RES)	METHYLENE CHLORIDE	0.61 ug/L	0.61U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 6010C
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BGMW03102015	POTASSIUM	J	1900	3000	LOQ	ug/L	J (all detects)
DTW26102015	ALUMINUM	J	260	300	LOQ	ug/L	J (all detects)
	IRON	J	24	100	LOQ	ug/L	
	POTASSIUM	J	690	3000	LOQ	ug/L	
MW03102015	POTASSIUM	J	500	3000	LOQ	ug/L	J (all detects)
TMW23102015	POTASSIUM	J	920	3000	LOQ	ug/L	J (all detects)
TMW26102015	ALUMINUM	J	270	300	LOQ	ug/L	J (all detects)
	POTASSIUM	J	390	3000	LOQ	ug/L	
TMW27102015	POTASSIUM	J	630	3000	LOQ	ug/L	J (all detects)
TMW33102015	ALUMINUM	J	81	300	LOQ	ug/L	J (all detects)
	IRON	J	77	100	LOQ	ug/L	
	POTASSIUM	J	2000	3000	LOQ	ug/L	

Method: 6020A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BGMW03102015	ARSENIC	J	2.3	5.0	LOQ	ug/L	J (all detects)
	BERYLLIUM	J	0.74	1.0	LOQ	ug/L	
	CHROMIUM	J	0.61	10	LOQ	ug/L	
	COBALT	J	0.18	1.0	LOQ	ug/L	
	NICKEL	J	1.4	3.0	LOQ	ug/L	
	SILVER	J	0.046	5.0	LOQ	ug/L	
	THALLIUM	J	0.16	1.0	LOQ	ug/L	
DTW26102015	ARSENIC	J	1.3	5.0	LOQ	ug/L	J (all detects)
	BERYLLIUM	J	0.083	1.0	LOQ	ug/L	
	COBALT	J	0.32	1.0	LOQ	ug/L	
	COPPER	J	1.7	2.0	LOQ	ug/L	
	NICKEL	J	1.9	3.0	LOQ	ug/L	
	SILVER	J	0.037	5.0	LOQ	ug/L	
	VANADIUM	J	3.5	6.0	LOQ	ug/L	
MW03102015	ARSENIC	J	0.38	5.0	LOQ	ug/L	J (all detects)
	COBALT	J	0.086	1.0	LOQ	ug/L	
	COPPER	J	1.2	2.0	LOQ	ug/L	
	NICKEL	J	0.43	3.0	LOQ	ug/L	
	VANADIUM	J	1.1	6.0	LOQ	ug/L	
	ZINC	J	4.5	20	LOQ	ug/L	
	MW22S102015	SILVER	J	0.18	5.0	LOQ	
THALLIUM		J	0.28	1.0	LOQ	ug/L	
TMW07102015	ARSENIC	J	2.1	5.0	LOQ	ug/L	J (all detects)
	CHROMIUM	J	4.5	10	LOQ	ug/L	
	COBALT	J	0.37	1.0	LOQ	ug/L	
	COPPER	J	0.64	2.0	LOQ	ug/L	
	LEAD	J	0.76	3.0	LOQ	ug/L	
	NICKEL	J	2.4	3.0	LOQ	ug/L	
	SILVER	J	0.39	5.0	LOQ	ug/L	
	VANADIUM	J	1.5	6.0	LOQ	ug/L	
	ZINC	J	16	20	LOQ	ug/L	

Project Name and Number: 102012 - FWDA 102012 GW

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Reporting Limit Outliers

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 6020A							
Matrix: AQ							
SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TMW23102015	ARSENIC	J	1.7	5.0	LOQ	ug/L	J (all detects)
	BERYLLIUM	J	0.20	1.0	LOQ	ug/L	
	CHROMIUM	J	4.2	10	LOQ	ug/L	
	COPPER	J	1.8	2.0	LOQ	ug/L	
	LEAD	J	1.4	3.0	LOQ	ug/L	
	NICKEL	J	2.8	3.0	LOQ	ug/L	
	SILVER	J	0.035	5.0	LOQ	ug/L	
ZINC	J	13	20	LOQ	ug/L		
TMW26102015	ARSENIC	J	1.2	5.0	LOQ	ug/L	J (all detects)
	COBALT	J	0.27	1.0	LOQ	ug/L	
	COPPER	J	1.6	2.0	LOQ	ug/L	
	NICKEL	J	1.8	3.0	LOQ	ug/L	
TMW27102015	VANADIUM	J	3.5	6.0	LOQ	ug/L	J (all detects)
	COBALT	J	0.16	1.0	LOQ	ug/L	
	NICKEL	J	0.50	3.0	LOQ	ug/L	
	VANADIUM	J	0.51	6.0	LOQ	ug/L	
TMW33102015	ZINC	J	4.3	20	LOQ	ug/L	J (all detects)
	ARSENIC	J	0.99	5.0	LOQ	ug/L	
	BERYLLIUM	J	0.13	1.0	LOQ	ug/L	
	CHROMIUM	J	1.5	10	LOQ	ug/L	
	COBALT	J	0.67	1.0	LOQ	ug/L	J (all detects)
	LEAD	J	1.2	3.0	LOQ	ug/L	
	NICKEL	J	2.6	3.0	LOQ	ug/L	
	SILVER	J	0.085	5.0	LOQ	ug/L	
	VANADIUM	J	5.0	6.0	LOQ	ug/L	
	ZINC	J	7.5	20	LOQ	ug/L	

Method: 6860**Matrix: AQ**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TMW23102015	PERCHLORATE	J	0.036	0.050	LOQ	ug/L	J (all detects)

Method: 7470A**Matrix: AQ**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BGMW03102015	MERCURY	J	0.027	0.20	LOQ	ug/L	J (all detects)
DTW26102015	MERCURY	J	0.032	0.20	LOQ	ug/L	J (all detects)
MW22S102015	MERCURY	J	0.058	0.20	LOQ	ug/L	J (all detects)
TMW26102015	MERCURY	J	0.032	0.20	LOQ	ug/L	J (all detects)
TMW33102015	MERCURY	J	0.052	0.20	LOQ	ug/L	J (all detects)

Project Name and Number: 102012 - FWDA 102012 GW

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Reporting Limit Outliers

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 8015C DRO							
Matrix: AQ							
SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TMW33102015	DIESEL RANGE ORGANICS	J M	0.10	0.25	LOQ	mg/L	J (all detects)
Method: 8015C GRO							
Matrix: AQ							
SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TMW33102015	GASOLINE RANGE ORGANICS	J M	14	25	LOQ	ug/L	J (all detects)
Method: 8260B							
Matrix: AQ							
SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TMW33102015	METHYLENE CHLORIDE	J	0.61	5.0	LOQ	ug/L	J (all detects)
Method: 8270D							
Matrix: AQ							
SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BGMW03102015	BENZOIC ACID	J	12	82	LOQ	ug/L	J (all detects)
	BENZYL ALCOHOL	J	0.37	26	LOQ	ug/L	
TMW07102015	BENZOIC ACID	J	11	76	LOQ	ug/L	J (all detects)
	BIS(2-ETHYLHEXYL) PHTHALATE	J	4.3	9.5	LOQ	ug/L	
TMW33102015	BENZOIC ACID	J H	10	78	LOQ	ug/L	J (all detects)
Method: 9056							
Matrix: AQ							
SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BGMW03102015	NITRITE	J	0.25	0.50	LOQ	mg/L	J (all detects)
TMW07102015	NITRATE	J D	0.097	1.0	LOQ	mg/L	J (all detects)
TMW23102015	NITRITE	J	0.063	0.50	LOQ	mg/L	J (all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: 280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method: 8081A
Matrix: AQ

<i>Sample ID (Analysis Type)</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
BGMW03102015	DECACHLOROBIPHENYL	29	30.00-135.00	All Target Analytes	J (all detects) UJ (all non-detects)
TMW40S102015	DECACHLOROBIPHENYL	12	30.00-135.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8270D
Matrix: AQ

<i>Sample ID (Analysis Type)</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
BGMW03102015	Terphenyl-d14	36	50.00-135.00	No Affected Compounds	
TMW33102015	Terphenyl-d14	40	50.00-135.00	No Affected Compounds	

Method: 8330B
Matrix: AQ

<i>Sample ID (Analysis Type)</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
TMW07102015	1,2-DINITROBENZENE	135	75.00-118.00	All Target Analytes	J(all detects)
TMW23102015 (DL)	1,2-DINITROBENZENE	120	75.00-118.00	All Target Analytes	J(all detects)
TMW23102015 (RE2)	1,2-DINITROBENZENE	4774	75.00-118.00	All Target Analytes	J(all detects)

Project Name and Number: 102012 - FWDA 102012 GW

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Field QC Assignments and Associated Samples

EDD File Name: 280-76216-1

eQapp Name: FtWingate_Primary_120405

	Associated Samples	Sample Collection Date
Field QC DTW26102015 QC Type: FD	TMW26102015	10/30/2015 11:15:00 AM
Field QC TB-06-102015 QC Type: TB	BGMW03102015	10/30/2015 12:30:00 PM
	DTW26102015	10/30/2015 11:15:00 AM
	MW03102015	10/30/2015 9:10:00 AM
	MW22S102015	10/30/2015 8:02:00 AM
	TMW07102015	10/30/2015 12:10:00 PM
	TMW22102015	10/30/2015 9:20:00 AM
	TMW23102015	10/30/2015 9:43:00 AM
	TMW26102015	10/30/2015 11:15:00 AM
	TMW27102015	10/30/2015 1:15:00 PM
	TMW33102015	10/30/2015 11:20:00 AM
	TMW40S102015	10/30/2015 8:55:00 AM
Field QC TB-07-102015 QC Type: TB	BGMW03102015	10/30/2015 12:30:00 PM
	DTW26102015	10/30/2015 11:15:00 AM
	MW03102015	10/30/2015 9:10:00 AM
	MW22S102015	10/30/2015 8:02:00 AM
	TMW07102015	10/30/2015 12:10:00 PM
	TMW22102015	10/30/2015 9:20:00 AM
	TMW23102015	10/30/2015 9:43:00 AM
	TMW26102015	10/30/2015 11:15:00 AM
	TMW27102015	10/30/2015 1:15:00 PM
	TMW33102015	10/30/2015 11:20:00 AM
	TMW40S102015	10/30/2015 8:55:00 AM



Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	GENCHEM								
Method:	9056	Matrix:		AQ					

Sample ID: BGMW03102015 Collected: 10/30/2015 12:30:00 PM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NITRITE	0.25	J	0.10	LOD	0.50	LOQ	mg/L	J	RI

Sample ID: TMW07102015 Collected: 10/30/2015 12:10:00 PM Analysis Type: RES/TOT Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NITRATE	0.097	J D	0.20	LOD	1.0	LOQ	mg/L	J	RI

Sample ID: TMW23102015 Collected: 10/30/2015 9:43:00 AM Analysis Type: RE2/TOT Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NITRATE	29	D H	0.50	LOD	2.5	LOQ	mg/L	J	StoA

Sample ID: TMW23102015 Collected: 10/30/2015 9:43:00 AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NITRITE	0.063	J	0.10	LOD	0.50	LOQ	mg/L	J	RI

Method Category:	METALS								
Method:	6010C	Matrix:		AQ					

Sample ID: BGMW03102015 Collected: 10/30/2015 12:30:00 PM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1900	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: DTW26102015 Collected: 10/30/2015 11:15:00 AM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	24	J	85	LOD	100	LOQ	ug/L	J	RI, Fd
POTASSIUM	690	J	940	LOD	3000	LOQ	ug/L	J	RI, Fd

Sample ID: DTW26102015 Collected: 10/30/2015 11:15:00 AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	260	J	70	LOD	300	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS	Matrix:	AQ
Method:	6010C		

Sample ID: DTW26102015 Collected: 10/30/2015 11:15:00 AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	590	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: MW03102015 Collected: 10/30/2015 9:10:00 AM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	500	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: MW03102015 Collected: 10/30/2015 9:10:00 AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	790	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW23102015 Collected: 10/30/2015 9:43:00 AM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	920	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW23102015 Collected: 10/30/2015 9:43:00 AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1800	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW26102015 Collected: 10/30/2015 11:15:00 AM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	85	U	85	LOD	100	LOQ	ug/L	UJ	Fd
POTASSIUM	390	J	940	LOD	3000	LOQ	ug/L	J	RI, Fd

Sample ID: TMW26102015 Collected: 10/30/2015 11:15:00 AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	270	J	70	LOD	300	LOQ	ug/L	J	RI
POTASSIUM	690	J	940	LOD	3000	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS	
Method:	6010C	Matrix: AQ

Sample ID: TMW27102015		Collected: PM			Analysis Type: RES/DIS			Dilution: 1	
10/30/2015 1:15:00									
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	630	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW27102015		Collected: PM			Analysis Type: RES/TOT			Dilution: 1	
10/30/2015 1:15:00									
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	690	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW33102015		Collected: AM			Analysis Type: RES/DIS			Dilution: 1	
10/30/2015 11:20:00									
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	81	J	70	LOD	300	LOQ	ug/L	J	RI
IRON	77	J	85	LOD	100	LOQ	ug/L	J	RI
POTASSIUM	2000	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW33102015		Collected: AM			Analysis Type: RES/TOT			Dilution: 1	
10/30/2015 11:20:00									
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2900	J	940	LOD	3000	LOQ	ug/L	J	RI

Method Category:	METALS	
Method:	6020A	Matrix: AQ

Sample ID: BGMW03102015		Collected: PM			Analysis Type: RE2/DIS			Dilution: 1	
10/30/2015 12:30:00									
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	23		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
COPPER	3.3		1.8	LOD	2.0	LOQ	ug/L	J	Ccv

Sample ID: BGMW03102015		Collected: PM			Analysis Type: RE2/TOT			Dilution: 1	
10/30/2015 12:30:00									
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
CADMIUM	1.0	U Q	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
ZINC	29		8.0	LOD	20	LOQ	ug/L	J	Ccv

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW



Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS								
Method:	6020A	Matrix:	AQ						

Sample ID: BGMW03102015 Collected: PM 10/30/2015 12:30:00 Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.3	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
CADMIUM	1.0	U	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
CHROMIUM	0.61	J	1.8	LOD	10	LOQ	ug/L	J	RI
COBALT	0.18	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
MANGANESE	11		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	1.4	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv

Sample ID: BGMW03102015 Collected: PM 10/30/2015 12:30:00 Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.2	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.74	J	0.30	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	5.5	J	1.8	LOD	10	LOQ	ug/L	J	RI
COPPER	6.1		1.8	LOD	2.0	LOQ	ug/L	J	Ccv
MANGANESE	240		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	3.8		1.0	LOD	3.0	LOQ	ug/L	J	Ccv
SILVER	0.046	J	0.10	LOD	5.0	LOQ	ug/L	U	Cb
THALLIUM	0.16	J	0.20	LOD	1.0	LOQ	ug/L	U	Cb

Sample ID: DTW26102015 Collected: AM 10/30/2015 11:15:00 Analysis Type: RE2/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	18		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
COPPER	2.2		1.8	LOD	2.0	LOQ	ug/L	J	Ccv

Sample ID: DTW26102015 Collected: AM 10/30/2015 11:15:00 Analysis Type: RE2/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	22		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
CADMIUM	1.0	U Q	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv

Sample ID: DTW26102015 Collected: AM 10/30/2015 11:15:00 Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.3	J	1.0	LOD	5.0	LOQ	ug/L	J	RI

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS								
Method:	6020A	Matrix:		AQ					

Sample ID: DTW26102015 Collected: 10/30/2015 11:15:00 AM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.083	J	0.30	LOD	1.0	LOQ	ug/L	J	RI, Fd
CADMIUM	1.0	U	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
CHROMIUM	1.8	U	1.8	LOD	10	LOQ	ug/L	UJ	Ccv
COBALT	0.32	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
MANGANESE	120		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	4.1		1.0	LOD	3.0	LOQ	ug/L	J	Fd, Ccv
SILVER	0.037	J	0.10	LOD	5.0	LOQ	ug/L	UJ	Fd, Cb
VANADIUM	3.5	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

Sample ID: DTW26102015 Collected: 10/30/2015 11:15:00 AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.94	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
CHROMIUM	1.8	U	1.8	LOD	10	LOQ	ug/L	UJ	Ccv
COBALT	0.31	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
COPPER	1.7	J	1.8	LOD	2.0	LOQ	ug/L	J	RI, Ccv
MANGANESE	110		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	1.9	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
SILVER	0.046	J	0.10	LOD	5.0	LOQ	ug/L	J	RI
VANADIUM	3.6	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

Sample ID: MW03102015 Collected: 10/30/2015 9:10:00 AM Analysis Type: RE2/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	7.8		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
COPPER	1.2	J	1.8	LOD	2.0	LOQ	ug/L	J	RI, Ccv

Sample ID: MW03102015 Collected: 10/30/2015 9:10:00 AM Analysis Type: RE2/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	9.6		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
CADMIUM	1.0	U Q	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv

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Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS								
Method:	6020A	Matrix:	AQ						

Sample ID: MW03102015 10/30/2015 9:10:00 Collected: AM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.38	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
CADMIUM	1.0	U	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
CHROMIUM	1.8	U	1.8	LOD	10	LOQ	ug/L	UJ	Ccv
COBALT	0.086	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
MANGANESE	47		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	0.43	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
VANADIUM	1.1	J	2.0	LOD	6.0	LOQ	ug/L	J	RI
ZINC	4.5	J	8.0	LOD	20	LOQ	ug/L	J	RI, Ccv

Sample ID: MW03102015 10/30/2015 9:10:00 Collected: AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.40	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
CHROMIUM	1.8	U	1.8	LOD	10	LOQ	ug/L	UJ	Ccv
COBALT	0.085	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
COPPER	1.8	U	1.8	LOD	2.0	LOQ	ug/L	UJ	Ccv
MANGANESE	45		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	0.35	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
VANADIUM	0.63	J	2.0	LOD	6.0	LOQ	ug/L	J	RI
ZINC	4.0	J	8.0	LOD	20	LOQ	ug/L	J	RI, Ccv

Sample ID: MW22S102015 10/30/2015 8:02:00 Collected: AM Analysis Type: RE2/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	460		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
CADMIUM	1.0	U Q	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
ZINC	57		8.0	LOD	20	LOQ	ug/L	J	Ccv

Sample ID: MW22S102015 10/30/2015 8:02:00 Collected: AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13		1.8	LOD	2.0	LOQ	ug/L	J	Ccv
MANGANESE	640		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	14		1.0	LOD	3.0	LOQ	ug/L	J	Ccv
SILVER	0.18	J	0.10	LOD	5.0	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS									
Method:	6020A	Matrix:		AQ						

Sample ID: MW22S102015 Collected: 10/30/2015 8:02:00 AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.28	J	0.20	LOD	1.0	LOQ	ug/L	J	RI

Sample ID: TMW07102015 Collected: 10/30/2015 12:10:00 PM Analysis Type: RE2/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	24		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
COPPER	0.64	J	1.8	LOD	2.0	LOQ	ug/L	J	RI, Ccv

Sample ID: TMW07102015 Collected: 10/30/2015 12:10:00 PM Analysis Type: RE2/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	48		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
CADMIUM	1.0	U Q	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
ZINC	16	J	8.0	LOD	20	LOQ	ug/L	J	RI, Ccv

Sample ID: TMW07102015 Collected: 10/30/2015 12:10:00 PM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.1	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
CADMIUM	1.0	U	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
CHROMIUM	1.8	U	1.8	LOD	10	LOQ	ug/L	UJ	Ccv
COBALT	0.37	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
MANGANESE	200		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	2.4	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
VANADIUM	1.5	J	2.0	LOD	6.0	LOQ	ug/L	J	RI
ZINC	3.2	J	8.0	LOD	20	LOQ	ug/L	J	RI, Ccv

Sample ID: TMW07102015 Collected: 10/30/2015 12:10:00 PM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.7	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
CHROMIUM	4.5	J	1.8	LOD	10	LOQ	ug/L	J	RI
COBALT	0.89	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
COPPER	3.9		1.8	LOD	2.0	LOQ	ug/L	J	Ccv
LEAD	0.76	J	0.70	LOD	3.0	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS	
Method:	6020A	Matrix: AQ

Sample ID: TMW07102015 10/30/2015 12:10:00 Collected: PM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	240		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	4.4		1.0	LOD	3.0	LOQ	ug/L	J	Ccv
SILVER	0.39	J	0.10	LOD	5.0	LOQ	ug/L	J	RI
VANADIUM	4.3	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

Sample ID: TMW23102015 10/30/2015 9:43:00 Collected: AM Analysis Type: RE2/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	71		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
COPPER	2.7		1.8	LOD	2.0	LOQ	ug/L	J	Ccv

Sample ID: TMW23102015 10/30/2015 9:43:00 Collected: AM Analysis Type: RE2/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	81		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
CADMIUM	1.0	U Q	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
ZINC	13	J	8.0	LOD	20	LOQ	ug/L	J	RI, Ccv

Sample ID: TMW23102015 10/30/2015 9:43:00 Collected: AM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.7	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.20	J	0.30	LOD	1.0	LOQ	ug/L	J	RI
CADMIUM	1.0	U	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
CHROMIUM	4.2	J	1.8	LOD	10	LOQ	ug/L	J	RI
LEAD	1.4	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
MANGANESE	81		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	2.8	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
ZINC	8.2	J	8.0	LOD	20	LOQ	ug/L	J	RI, Ccv

Sample ID: TMW23102015 10/30/2015 9:43:00 Collected: AM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.8	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.21	J	0.30	LOD	1.0	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS								
Method:	6020A	Matrix:	AQ						

Sample ID: TMW23102015 Collected: AM 10/30/2015 9:43:00 Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	4.0	J	1.8	LOD	10	LOQ	ug/L	J	RI
COPPER	1.8	J	1.8	LOD	2.0	LOQ	ug/L	J	RI, Ccv
LEAD	1.4	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
MANGANESE	83		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	2.8	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
SILVER	0.035	J	0.10	LOD	5.0	LOQ	ug/L	U	Cb

Sample ID: TMW26102015 Collected: AM 10/30/2015 11:15:00 Analysis Type: RE2/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	19		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
COPPER	2.2		1.8	LOD	2.0	LOQ	ug/L	J	Ccv

Sample ID: TMW26102015 Collected: AM 10/30/2015 11:15:00 Analysis Type: RE2/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	24		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
CADMIUM	1.0	U Q	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv

Sample ID: TMW26102015 Collected: AM 10/30/2015 11:15:00 Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.2	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.30	U	0.30	LOD	1.0	LOQ	ug/L	UJ	Fd
CADMIUM	1.0	U	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
CHROMIUM	1.8	U	1.8	LOD	10	LOQ	ug/L	UJ	Ccv
COBALT	0.27	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
MANGANESE	120	J	0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	1.8	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Fd, Ccv
SILVER	0.10	U	0.10	LOD	5.0	LOQ	ug/L	UJ	Fd
VANADIUM	3.5	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS
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Method:	6020A
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Matrix:	AQ
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Sample ID: TMW26102015	Collected: AM	10/30/2015 11:15:00	Analysis Type: RES/TOT	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.2	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
CHROMIUM	1.8	U	1.8	LOD	10	LOQ	ug/L	UJ	Ccv
COBALT	0.32	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
COPPER	1.6	J	1.8	LOD	2.0	LOQ	ug/L	J	RI, Ccv
MANGANESE	120	J	0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	1.9	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
VANADIUM	3.8	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

Sample ID: TMW27102015	Collected: PM	10/30/2015 1:15:00	Analysis Type: RE2/DIS	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
COPPER	1.8	U	1.8	LOD	2.0	LOQ	ug/L	UJ	Ccv

Sample ID: TMW27102015	Collected: PM	10/30/2015 1:15:00	Analysis Type: RE2/TOT	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
CADMIUM	1.0	U Q	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
ZINC	4.3	J	8.0	LOD	20	LOQ	ug/L	J	RI, Ccv

Sample ID: TMW27102015	Collected: PM	10/30/2015 1:15:00	Analysis Type: RES/DIS	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	1.0	U	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
CHROMIUM	1.8	U	1.8	LOD	10	LOQ	ug/L	UJ	Ccv
COBALT	0.16	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
MANGANESE	560		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	0.50	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
VANADIUM	0.51	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

Sample ID: TMW27102015	Collected: PM	10/30/2015 1:15:00	Analysis Type: RES/TOT	Dilution: 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	1.8	U	1.8	LOD	10	LOQ	ug/L	UJ	Ccv

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Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS								
Method:	6020A	Matrix:	AQ						

Sample ID: TMW27102015 10/30/2015 1:15:00 Collected: PM Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	0.21	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
COPPER	1.8	U	1.8	LOD	2.0	LOQ	ug/L	UJ	Ccv
MANGANESE	570		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	0.64	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv

Sample ID: TMW33102015 10/30/2015 11:20:00 Collected: AM Analysis Type: RE2/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	31		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
COPPER	3.3		1.8	LOD	2.0	LOQ	ug/L	J	Ccv

Sample ID: TMW33102015 10/30/2015 11:20:00 Collected: AM Analysis Type: RE2/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	36		0.95	LOD	3.0	LOQ	ug/L	J	Ccv
CADMIUM	1.0	U Q	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
ZINC	7.5	J	8.0	LOD	20	LOQ	ug/L	J	RI, Ccv

Sample ID: TMW33102015 10/30/2015 11:20:00 Collected: AM Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.99	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
CADMIUM	1.0	U	1.0	LOD	1.0	LOQ	ug/L	UJ	Ccv
CHROMIUM	1.5	J	1.8	LOD	10	LOQ	ug/L	J	RI
COBALT	0.67	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
LEAD	1.2	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
MANGANESE	510		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	2.6	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
SILVER	0.085	J	0.10	LOD	5.0	LOQ	ug/L	U	Cb
VANADIUM	5.0	J	2.0	LOD	6.0	LOQ	ug/L	J	RI
ZINC	7.6	J	8.0	LOD	20	LOQ	ug/L	J	RI, Ccv

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Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS								
Method:	6020A	Matrix:	AQ						

Sample ID: TMW33102015 Collected: AM 10/30/2015 11:20:00 Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.0	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.13	J	0.30	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	1.5	J	1.8	LOD	10	LOQ	ug/L	J	RI
COBALT	0.64	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
COPPER	2.5		1.8	LOD	2.0	LOQ	ug/L	J	Ccv
LEAD	1.1	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
MANGANESE	470		0.95	LOD	3.5	LOQ	ug/L	J	Ms
NICKEL	2.7	J	1.0	LOD	3.0	LOQ	ug/L	J	RI, Ccv
SILVER	0.049	J	0.10	LOD	5.0	LOQ	ug/L	U	Cb
VANADIUM	4.7	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

Method Category:	METALS								
Method:	7470A	Matrix:	AQ						

Sample ID: BGMW03102015 Collected: PM 10/30/2015 12:30:00 Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.027	J	0.080	LOD	0.20	LOQ	ug/L	J	RI

Sample ID: BGMW03102015 Collected: PM 10/30/2015 12:30:00 Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.038	J	0.080	LOD	0.20	LOQ	ug/L	J	RI

Sample ID: DTW26102015 Collected: AM 10/30/2015 11:15:00 Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.032	J	0.080	LOD	0.20	LOQ	ug/L	J	RI

Sample ID: MW22S102015 Collected: AM 10/30/2015 8:02:00 Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.058	J	0.080	LOD	0.20	LOQ	ug/L	J	RI

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Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	METALS									
Method:	7470A			Matrix: AQ						

Sample ID: TMW26102015 Collected: AM 10/30/2015 11:15:00 Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.032	J	0.080	LOD	0.20	LOQ	ug/L	J	RI

Sample ID: TMW26102015 Collected: AM 10/30/2015 11:15:00 Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.028	J	0.080	LOD	0.20	LOQ	ug/L	J	RI

Sample ID: TMW33102015 Collected: AM 10/30/2015 11:20:00 Analysis Type: RES/DIS Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.052	J	0.080	LOD	0.20	LOQ	ug/L	J	RI

Sample ID: TMW33102015 Collected: AM 10/30/2015 11:20:00 Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.043	J	0.080	LOD	0.20	LOQ	ug/L	J	RI

Method Category:	SVOA									
Method:	6860			Matrix: AQ						

Sample ID: TMW23102015 Collected: AM 10/30/2015 9:43:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	0.036	J	0.010	LOD	0.050	LOQ	ug/L	J	RI

Method Category:	SVOA									
Method:	8015C DRO			Matrix: AQ						

Sample ID: TMW33102015 Collected: AM 10/30/2015 11:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIESEL RANGE ORGANICS	0.10	J M	0.12	LOD	0.25	LOQ	mg/L	J	RI

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	SVOA									
Method:	8015C GRO			Matrix: AQ						

Sample ID: TMW33102015 Collected: 10/30/2015 11:20:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS	14	J M	25	LOD	25	LOQ	ug/L	J	RI, ProfJudg

Method Category:	SVOA									
Method:	8081A			Matrix: AQ						

Sample ID: BGMW03102015 Collected: 10/30/2015 12:30:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
4,4'-DDE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
4,4'-DDT	0.050	U Q	0.050	LOD	0.050	LOQ	ug/L	UJ	Surr
ALDRIN	0.020	U M Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ALPHA-BHC	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ALPHA-CHLORDANE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
BETA-BHC	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
DELTA-BHC	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
DIELDRIN	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDOSULFAN I	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDOSULFAN II	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDOSULFAN SULFATE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDRIN	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDRIN ALDEHYDE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDRIN KETONE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
GAMMA-BHC	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
GAMMA-CHLORDANE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
HEPTACHLOR	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
HEPTACHLOR EPOXIDE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
METHOXYCHLOR	0.050	U Q	0.050	LOD	0.050	LOQ	ug/L	UJ	Surr
TOXAPHENE	0.80	U Q	0.80	LOD	5.0	LOQ	ug/L	UJ	Surr

Sample ID: TMW40S102015 Collected: 10/30/2015 8:55:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	SVOA	
Method:	8081A	Matrix: AQ

10/30/2015 8:55:00
Sample ID: TMW40S102015 **Collected:** AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
4,4'-DDT	0.052	U Q	0.052	LOD	0.052	LOQ	ug/L	UJ	Surr
ALDRIN	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
ALPHA-BHC	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
ALPHA-CHLORDANE	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
BETA-BHC	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
DELTA-BHC	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
DIELDRIN	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
ENDOSULFAN I	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
ENDOSULFAN II	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
ENDOSULFAN SULFATE	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
ENDRIN	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
ENDRIN ALDEHYDE	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
ENDRIN KETONE	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
GAMMA-BHC	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
GAMMA-CHLORDANE	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
HEPTACHLOR	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
HEPTACHLOR EPOXIDE	0.021	U Q	0.021	LOD	0.052	LOQ	ug/L	UJ	Surr
METHOXYCHLOR	0.052	U Q	0.052	LOD	0.052	LOQ	ug/L	UJ	Surr
TOXAPHENE	0.82	U Q	0.82	LOD	5.2	LOQ	ug/L	UJ	Surr

Method Category:	SVOA	
Method:	8270D	Matrix: AQ

10/30/2015 12:30:00
Sample ID: BGMW03102015 **Collected:** PM **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	12	J	31	LOD	82	LOQ	ug/L	J	RI

10/30/2015 12:30:00
Sample ID: BGMW03102015 **Collected:** PM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	100	U Q	100	LOD	210	LOQ	ug/L	UJ	Lcs
BENZYL ALCOHOL	0.37	J	0.51	LOD	26	LOQ	ug/L	J	RI

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Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	SVOA									
Method:	8270D			Matrix: AQ						

Sample ID: TMW07102015 Collected: 10/30/2015 12:10:00 PM Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	11	J	28	LOD	76	LOQ	ug/L	J	RI

Sample ID: TMW07102015 Collected: 10/30/2015 12:10:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	95	U	95	LOD	190	LOQ	ug/L	UJ	Lcs
BIS(2-ETHYLHEXYL) PHTHALATE	4.3	J	1.9	LOD	9.5	LOQ	ug/L	J	RI

Sample ID: TMW33102015 Collected: 10/30/2015 11:20:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
M,P-CRESOL	0.49	U H	0.49	LOD	20	LOQ	ug/L	UJ	StoE

Sample ID: TMW33102015 Collected: 10/30/2015 11:20:00 AM Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6-TETRACHLOROPHENOL	4.3	U H	4.3	LOD	49	LOQ	ug/L	UJ	StoE
2,4,5-TRICHLOROPHENOL	0.98	U H	0.98	LOD	20	LOQ	ug/L	UJ	StoE
2,4,6-TRICHLOROPHENOL	0.98	U H	0.98	LOD	20	LOQ	ug/L	UJ	StoE
2,4-DICHLOROPHENOL	2.0	U H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
2,4-DIMETHYLPHENOL	2.0	U H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
2,4-DINITROPHENOL	29	U H	29	LOD	78	LOQ	ug/L	UJ	StoE
2,6-DICHLOROPHENOL	4.3	U H	4.3	LOD	9.8	LOQ	ug/L	UJ	StoE
2-CHLOROPHENOL	4.3	U H	4.3	LOD	9.8	LOQ	ug/L	UJ	StoE
2-METHYLPHENOL	2.0	U H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
2-NITROPHENOL	0.98	U H	0.98	LOD	20	LOQ	ug/L	UJ	StoE
4,6-DINITRO-2-METHYLPHENOL	8.6	U H	8.6	LOD	78	LOQ	ug/L	UJ	StoE
4-CHLORO-3-METHYLPHENOL	4.9	U H	4.9	LOD	20	LOQ	ug/L	UJ	StoE
4-NITROPHENOL	3.9	U H	3.9	LOD	49	LOQ	ug/L	UJ	StoE
BENZOIC ACID	10	J H	29	LOD	78	LOQ	ug/L	J	RI, StoE
PENTACHLOROPHENOL	59	U H	59	LOD	78	LOQ	ug/L	UJ	StoE
PHENOL	4.3	U H	4.3	LOD	9.8	LOQ	ug/L	UJ	StoE

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	SVOA
Method:	8270D
Matrix:	AQ

Sample ID: TMW33102015 Collected: 10/30/2015 11:20:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4,5-TETRACHLOROBENZENE	4.3	U H	4.3	LOD	9.8	LOQ	ug/L	UJ	StoE
1,2,4-TRICHLOROBENZENE	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
1,2-DICHLOROBENZENE	0.49	U H	0.49	LOD	9.8	LOQ	ug/L	UJ	StoE
1,2-DIPHENYLHYDRAZINE	0.49	U H	0.49	LOD	9.8	LOQ	ug/L	UJ	StoE
1,3-DICHLOROBENZENE	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
1,4-DICHLOROBENZENE	3.9	U H	3.9	LOD	9.8	LOQ	ug/L	UJ	StoE
2,4-DINITROTOLUENE	4.3	U H	4.3	LOD	20	LOQ	ug/L	UJ	StoE
2,6-DINITROTOLUENE	4.3	U H	4.3	LOD	20	LOQ	ug/L	UJ	StoE
2-CHLORONAPHTHALENE	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
2-METHYLNAPHTHALENE	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
2-NITROANILINE	4.3	U H	4.3	LOD	49	LOQ	ug/L	UJ	StoE
3,3'-DICHLOROBENZIDINE	4.3	U H	4.3	LOD	49	LOQ	ug/L	UJ	StoE
3-NITROANILINE	4.3	U H	4.3	LOD	49	LOQ	ug/L	UJ	StoE
4-BROMOPHENYL-PHENYLEETHER	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
4-CHLOROANILINE	4.3	U H	4.3	LOD	24	LOQ	ug/L	UJ	StoE
4-CHLOROPHENYL-PHENYLEETHER	4.3	U H	4.3	LOD	9.8	LOQ	ug/L	UJ	StoE
4-NITROANILINE	4.3	U H	4.3	LOD	49	LOQ	ug/L	UJ	StoE
ACENAPHTHENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
ACENAPHTHYLENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
ACETOPHENONE	4.9	U H	4.9	LOD	9.8	LOQ	ug/L	UJ	StoE
ANTHRACENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
BENZALDEHYDE	2.0	U H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
BENZIDINE	98	U Q H	98	LOD	200	LOQ	ug/L	UJ	Lcs, StoE
BENZO(A)ANTHRACENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
BENZO(A)PYRENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
BENZO(B)FLUORANTHENE	2.0	U Q H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
BENZO(G,H,I)PERYLENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
BENZO(K)FLUORANTHENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
BENZYL ALCOHOL	0.49	U H	0.49	LOD	24	LOQ	ug/L	UJ	StoE
BIS(2-CHLOROETHOXY)METHANE	2.0	U H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
BIS(2-CHLOROETHYL) ETHER	0.98	U H	0.98	LOD	20	LOQ	ug/L	UJ	StoE
BIS(2-CHLOROISOPROPYL)ETHER	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
BIS(2-ETHYLHEXYL) PHTHALATE	2.0	U H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
Butyl Benzyl Phthlate	2.0	U H	2.0	LOD	20	LOQ	ug/L	UJ	StoE

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	SVOA		
Method:	8270D	Matrix:	AQ

Sample ID: TMW33102015 Collected: AM 10/30/2015 11:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
CHRYSENE	2.0	U Q H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
DIBENZ(A,H)ANTHRACENE	2.0	U H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
DIBENZOFURAN	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
DIETHYL PHTHALATE	0.98	U H	0.98	LOD	20	LOQ	ug/L	UJ	StoE
DIMETHYL PHTHALATE	0.49	U H	0.49	LOD	20	LOQ	ug/L	UJ	StoE
DI-N-BUTYL PHTHALATE	4.3	U H	4.3	LOD	20	LOQ	ug/L	UJ	StoE
DI-N-OCTYL PHTHALATE	0.98	U H	0.98	LOD	20	LOQ	ug/L	UJ	StoE
FLUORANTHENE	0.49	U Q H	0.49	LOD	20	LOQ	ug/L	UJ	StoE
FLUORENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
HEXACHLOROENZENE	2.0	U H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
HEXACHLOROBUTADIENE	9.8	U H	9.8	LOD	29	LOQ	ug/L	UJ	StoE
HEXACHLOROCYCLOPENTADIENE	29	U H	29	LOD	49	LOQ	ug/L	UJ	StoE
HEXACHLOROETHANE	4.3	U H	4.3	LOD	9.8	LOQ	ug/L	UJ	StoE
INDENO(1,2,3-CD)PYRENE	2.0	U Q H	2.0	LOD	9.8	LOQ	ug/L	UJ	StoE
ISOPHORONE	0.49	U H	0.49	LOD	9.8	LOQ	ug/L	UJ	StoE
NAPHTHALENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
NITROBENZENE	2.0	U H	2.0	LOD	20	LOQ	ug/L	UJ	StoE
N-NITROSODIMETHYLAMINE	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
N-NITROSO-DI-N-PROPYLAMINE	0.98	U H	0.98	LOD	20	LOQ	ug/L	UJ	StoE
N-NITROSODIPHENYLAMINE	0.98	U H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
PHENANTHRENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE
PYRENE	0.98	U Q H	0.98	LOD	9.8	LOQ	ug/L	UJ	StoE

Method Category:	SVOA		
Method:	8330B	Matrix:	AQ

Sample ID: BGMW03102015 Collected: PM 10/30/2015 12:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.22	U	0.22	LOD	0.44	LOQ	ug/L	UJ	Ms

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category:	SVOA									
Method:	8330B			Matrix: AQ						

Sample ID: DTW26102015 **Collected:** 10/30/2015 11:15:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.23	U	0.23	LOD	0.45	LOQ	ug/L	UJ	Ms

Sample ID: MW03102015 **Collected:** 10/30/2015 9:10:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.24	U	0.24	LOD	0.49	LOQ	ug/L	UJ	Ms

Sample ID: MW22S102015 **Collected:** 10/30/2015 8:02:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.22	U	0.22	LOD	0.44	LOQ	ug/L	UJ	Ms

Sample ID: TMW07102015 **Collected:** 10/30/2015 12:10:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.22	U	0.22	LOD	0.43	LOQ	ug/L	UJ	Ms

Sample ID: TMW23102015 **Collected:** 10/30/2015 9:43:00 AM **Analysis Type:** RE2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROTOLUENE	1.3	J	0.43	LOD	1.1	LOQ	ug/L	J	Surr, ProfJudg

Sample ID: TMW23102015 **Collected:** 10/30/2015 9:43:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-AMINO-4,6-DINITROTOLUENE	0.83	J	0.13	LOD	0.22	LOQ	ug/L	J	ProfJudg
4-AMINO-2,6-DINITROTOLUENE	0.41	J	0.13	LOD	0.22	LOQ	ug/L	J	ProfJudg
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.22	U	0.22	LOD	0.43	LOQ	ug/L	UJ	Ms

Sample ID: TMW26102015 **Collected:** 10/30/2015 11:15:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.22	U J	0.22	LOD	0.45	LOQ	ug/L	UJ	Ms

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Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Method Category: VOA

Method: 8260B

Matrix: AQ

Sample ID: TMW33102015

Collected: 10/30/2015 11:20:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.61	J	0.80	LOD	5.0	LOQ	ug/L	U	Mb

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Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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Data Qualifier Summary

Lab Reporting Batch ID: 280-76216-1

Laboratory: TA DEN

EDD Filename: Prep280-76216-1

eQAPP Name: FtWingate_Primary_120405

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
Cb	Calibration Blank Contamination
Ccv	Continuing Calibration Verification Percent Difference Lower Estimation
Ccv	Continuing Calibration Verification Percent Difference Upper Estimation
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
RI	Reporting Limit Trace Value
StoA	Sampling to Analysis Estimation
StoE	Sampling to Extraction Estimation
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: 102012 - USACE Project: FWDA 102012 GW

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