Data Validation Summary Report Revision 1
January through March and May 2015
Groundwater Remedial Investigation Sampling
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

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June 8, 2018

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ATTACHMENT

LIST OF ACRONYMS AND ABBREVIATIONS

CCB	Continuing Calibration Blank
CLPNFG	Contract Laboratory Program National Functional Guidelines
DL	Detection Limit
DNR	Do Not Report
DOC	Dissolved Organic Carbon
DQO	Data Quality Objectives
DUP	Laboratory Duplicate
DVR	Data Validation Report
DVSR	Data Validation Summary Report
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants, Inc.
MDA	Minimum Detectable Activity
MDL	Method Detection Limit
MS/MSD	Matrix Spike / Matrix Spike Duplicate
NDEP	Nevada Department of Environmental Protection
NERT	Nevada Environmental Response Trust
p-CBSA	para-Chlorbenzene Sulfonic Acid
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance / Quality Control
QAPP	Quality Assurance Project Plan
RER	Relative Error Ratio
RPD	Relative Percent Difference
SDG	Sample Delivery Group
SIM	Selected Ion Monitoring
SQL	Sample Quantitation Limit
SVOC	Semivolatile Organic Compound
TB	Trip Blank
TDS	Total Dissolved Solids
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
ug/L	Micrograms per Liter
mg/L	Milligrams per Liter
pCi/L	Picocuries per Liter
%RSD	Percent Relative Standard Deviation
%D	Percent Difference
%R	Percent Recovery

1.0 INTRODUCTION

This data validation summary report (DVSR) has been prepared by Laboratory Data Consultants, Inc. (LDC) to assess the validity and usability of laboratory analytical data from the Groundwater Remedial Investigation Sampling conducted at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. The assessment was performed by Ramboll (formerly Ramboll ENVIRON) as a part of the *Quality Assurance Project Plan, Revision 1, Nevada Environmental Response Trust Site, Henderson, Nevada* dated July 2014 and included the collection and analyses of 255 environmental and quality control (QC) samples. The analyses were performed by the following methods:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW-846 Method 8260B
1,2,3-Trichloropropane and 1,4-Dioxane by EPA SW-846 Method 8260B in Selected Ion Monitoring (SIM) mode
Semivolatile Organic Compounds (SVOCs) by EPA SW-846 Method 8270C
para-Chlorobenzene Sulfonic Acid (p-CBSA) by EPA SW-846 Method 8321A
Chlorinated Pesticides by EPA SW-846 Method 8081A
Metals by EPA Methods 2007/200.8 and EPA SW-846 Methods 6020A/7470A

Wet Chemistry:
Bromide, Chloride, Nitrate as NO3, Nitrite as Nitrogen, Orthophosphate as Phosphorus, and Sulfate (Anions) by EPA Method 300.0
Nitrate/Nitrite as Nitrogen by Calculation Method
Chlorate by EPA Method 300.1B
Perchlorate by EPA Method 314.0
Phosphorus by EPA Method 365.3
Hexavalent Chromium by EPA Method 218.6
Alkalinity by Standard Method 2320B
Total Dissolved Solids (TDS) by Standard Method 2540C
Cyanide by Standard Method 4500-CN-E
Ammonia as Nitrogen by Standard Method 4500-NH3-D
Dissolved Organic Carbon (DOC) by Standard Method 5310B
Sulfide by EPA SW-846 Method 9034
pH by EPA SW-846 Method 9040C

Radium-226 by EPA Method 903.0
Radium-228 by EPA Method 904.0
Isotopic Uranium by Method A-01-R
Isotopic Thorium by Method A-01-R

Laboratory analytical services were provided by TestAmerica, Inc. The samples were grouped into sample delivery groups (SDGs). The soil and water samples are associated with quality assurance and quality control (QA/QC) samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, matrix, and validation level. Table II is a reference table that identifies the QC elements reviewed for each validation level per method, as applicable.

The laboratory analytical data were validated in accordance with procedures described in the Nevada Division of Environmental Protection (NDEP) *Data Verification and Validation Requirements - Supplement* established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, April 13, 2009. Consistent with the NDEP requirements, approximately ninety percent of the analytical data were validated according to Stage 2B data validation procedures and approximately ten percent of the samples were validated according to Stage 4 data validation procedures. The number of samples and

percentage of samples validated to Stage 2B and Stage 4 for each sampling event and for each method is presented in Table III.

The analytical data were evaluated for QA/QC based on the following documents: *Quality Assurance Project Plan, Revision 1, NERT Site, Henderson, Nevada,* July 2014; Nevada Department of Environmental Protection (NDEP) *Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas*, January 5 2012; a modified outline of the *USEPA Contract Laboratory Program National Functional Guidelines* (CLPNFGs) *for Organic Superfund Methods Data Review* (January 2017), *for Inorganic Superfund Data Review* (January 2017); and the *EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste,* update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007; update V, July 2014.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The PARCCS summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCCS criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 14.0 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. Qualitative PARCCS criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors for sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: trip blanks (TBs), equipment blanks (EBs), field blanks (FBs), field duplicates (FDs), laboratory blanks, laboratory control samples/laboratory control sample duplicates (LCS/LCSDs), matrix spike/matrix spike duplicates (MS/MSDs), and laboratory duplicates (DUP).

Before conducting the PARCCS evaluation, the analytical data were validated according to the QAPP (July 2014), CLPNFGs (USEPA 2017), and EPA SW 846 Test Methods. Samples not meeting the acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

J- Estimated The associated numerical value is an estimated quantity with a negative bias. The analyte was detected but the reported value may not be accurate or precise.

J+ Estimated The associated numerical value is an estimated quantity with a positive bias. The analyte was detected but the reported value may not be accurate or precise.

J Estimated The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits but the exceedance was not sufficient to cause rejection of the data.

R Rejected The data is unusable (the analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.

U Nondetected Analyses were performed for the compound or analyte, but it was not detected.

UJ Estimated/Nondetected Analyses were performed for the analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision.

DNR Do Not Report A more appropriate result is reported from another analysis or dilution.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

The hierarchy of flags is listed below:

R > J	The R flag will always take precedence over the J qualifier.
J+	The high bias (J+) flag is applied only to detected results.
J > J+ or J-	A non-biased (J) flag will always supersede biased (J+ or J-) flags since it is not possible to assess the direction of the potential bias.
J = J+ plus J-	Adding biased (J+, J-) flags with opposite signs will result in a non-biased flag (J).
UJ = U plus J	The UJ flag is used when a non-detected (U) flag is added to a non-biased flag (J).

Table IV lists the reason codes used. Reason codes explain why flags have been applied and identify possible limitations of data use. Reason codes are cumulative except when one of the flags is R then only the reason code associated to the R flag will be used.

Table V presents the overall qualified results after all the flags or validation qualifiers and associated reason codes have been applied.

Once the data are reviewed and qualified according to the QAPP, NFG, and EPA Test Methods, the data set is then evaluated using PARCCS criteria. PARCCS criteria provide an evaluation of overall data usability. The following is a discussion of PARCCS criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from reported concentrations. Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \text{ X } 100$$

where:
D1 = reported concentration for the sample

D2 = reported concentration for the duplicate

Precision is primarily assessed by calculating an RPD from the reported concentrations of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water or solid matrix is used to prepare an LCS. The LCS measures laboratory efficiency in recovering target analytes from either matrix in the absence of matrix interferences.

DUPs measure laboratory precision. DUPs are replicate samples and are prepared by taking two aliquots from one sample container. The analytical results for DUPs are reported as the RPD between the results of the two aliquots.

Laboratory and field sampling precision are evaluated by calculating RPDs for field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in the LCS/LCSD, MS/MSD, DUPs, or field duplicates indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample heterogeneity, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results may be reported in either the primary or duplicate samples at levels below the practical quantitation limit (PQL) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, LCS, MS/MSD, and standard, for all applicable organic analyses. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:
A = measured concentration in the spiked sample
B = measured concentration of the spike compound in the unspiked sample
C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS/LCSD, and surrogate compounds

added to environmental samples is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blanks, samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are laboratory blanks, calibration blanks, TBs, EBs, and FBs.

A laboratory blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The laboratory blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Laboratory blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Initial and continuing calibration blanks (ICB/CCBs) consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid or solid matrix. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis.

Field blanks consist of analyte-free source water stored at the sample collection site. The water is collected from each source water used during each sampling event.

Equipment blanks consist of analyte-free water poured over or through the sample collection equipment. The water is collected in a sample container for laboratory analysis. These blanks are collected after the sampling equipment is decontaminated and measure efficiency of the decontamination procedure.

The blanks and associated samples were evaluated according to the NDEP *BMI Plant Sites and Common Areas Projects, Henderson, Nevada, Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas,* January 5, 2012.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedance can cause loss of sample constituents due to biodegradation, precipitation, volatilization, and chemical degradation.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCCS criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

where:
%C = percent completeness
T = total number of sample results
R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the QAPP, with the number determined above.

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the DQOs. It is important that calibration requirements, detection limits (DLs), and PQLs presented in the QAPP are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. The method detection limits (MDLs) represent the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. Sample quantitation limits (SQLs) are adjusted MDL values that reflect sample specific actions, such as dilutions or varying aliquot sizes. PQLs are the lowest level at which the entire analytical system gives a recognizable signal and acceptable calibration point for the analyte. The laboratory is required to report detected analytes down to the SQL for this project. In addition, sample results are compared to laboratory blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The following sections present a review of QC data for each analytical method.

2.0 VOLATILE ORGANIC COMPOUNDS

A total of 187 water samples were analyzed for VOCs and 13 water samples were analyzed for chloroform by EPA SW-846 Method 8260B. All VOC data were assessed to be valid with the exception of two of the 11,420 total results which were rejected based on MS/MSD %Rs. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 Instrument Calibration

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Relative response factor (RRF), percent relative standard deviation (%RSD), and percent difference (%D) are the major parameters used to measure the effectiveness of instrument calibration. RRF is a measure of the relative spectral response of an analyte compared to its internal standard. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The %RSDs met the acceptance criteria of 15 percent for each individual compound and 30 percent for calibration check compounds, or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

Two hundred fifty-one results were qualified as estimated (J- or J+) or non-detected estimated (UJ). The %Ds in the initial and continuing calibration verifications were outside the acceptance criteria of 20 percent. The details regarding the qualification of results are provided in Attachment A.

2.1.2 Surrogates

All surrogate %Rs met the QAPP acceptance criteria.

2.1.3 MS/MSD Samples

As a result of grossly exceeded MS/MSD %R (e.g. <0%), the styrene results in samples M-79-20150205 and MC-53-20150122 were qualified as rejected (R). Additionally, the chlorobenzene result in sample MC-50-20150127 and the chloroform result in sample M-81A-20150206 were qualified estimated (J-), and the styrene results in samples M-37-20150129, M-22A-20150202, M-13-20150202, and M-10-20150505 were qualified as non-detected estimated (UJ) due to MS/MSD %R below the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment A.

No data were qualified due to styrene MS/MSD RPD above the QAPP acceptance criteria since the associated result was not detected.

2.1.4 LCS/LCSD Samples

All LCS/LCSD %Rs met the QAPP acceptance criteria.

No data were qualified due to chloromethane and dichlorodifluoromethane LCS/LCSD RPDs above the QAPP acceptance since the associated results were not detected.

2.1.5 Internal Standards

All internal standard areas and retention times met the method acceptance criteria.

2.1.6 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. All RPDs met the QAPP acceptance criteria.

2.1.7 Compound Quantitation and Target Identification

Raw data were evaluated for twenty-seven samples. All compound quantitation and target identifications were acceptable for these Stage 4 samples.

2.2 Representativeness

2.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 14-day analysis holding time criteria for VOCs.

Due to sample condition non-conformances (i.e. presence of headspace in the containers), the chloroform result in sample PC-40-20150113 was qualified as estimated (J-). The details regarding the qualification

of results are provided in Attachment A.

2.2.2 Blanks

Laboratory blanks, TBs, EBs, and FBs were collected and analyzed to evaluate representativeness. The concentration for an individual target compound in any of the types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

> Results Below the PQL If a sample result for the blank contaminant was less than the PQL and the sample result was less than or equal to 2 times the blank value, the sample result was qualified as detected estimated (J) at the reported concentration.
>
> Results Above the PQL If a sample result for the blank contaminant was greater than the PQL and the sample result was less than or equal to 2 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the reported concentration.
>
> No Action If a sample result for the blank contaminant was greater than 2 times the blank value, the result was not amended.

2.2.2.1 Laboratory blanks

No data were qualified due to contaminants detected in the laboratory blanks.

2.2.2.2 TBs

No contaminants were detected in the trip blanks for this analysis.

2.2.2.3 FBs

No data were qualified due to contaminants detected in the field blanks.

2.2.2.4 EBs

As a result of contamination found in the equipment blanks, the chloroform result in sample M-139-20150204 was qualified as estimated (J). The details regarding the qualification of results are provided in Attachment A.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the VOC data is regarded as acceptable.

2.4 Completeness

The completeness level attained for VOC field samples was 99.98 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

2.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

3.0 1,2,3-TRICHLOROPROPANE AND 1,4-DIOXANE

A total of 185 water samples were analyzed for 1,2,3-trichloropropane and 1,4-dioxane by EPA SW-846 Method 8260B-SIM. All 1,2,3-trichloropropane and 1,4-dioxane and were assessed to be valid since none of the 370 total results which were rejected based on holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent for each individual compound and 20 percent for initial and continuing calibration check compounds.

3.1.2 Surrogates

The 1,4-dioxane and 1,2,3-trichloropropane results in sample H-28-20150312 were qualified as estimated (J-) due to a surrogate %R below the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment B.

3.1.3 MS/MSD Samples

The 1,2,3-trichloropropane result in sample M-81A-20150206 was qualified as estimated (J+) due to a MSD %R above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment B.

All MS/MSD RPDs met the QAPP acceptance criteria.

3.1.4 LCS Samples

All LCS %Rs met the QAPP acceptance criteria.

3.1.5 Internal Standards

All internal standard areas and retention times met the method acceptance.

3.1.6 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. All RPDs met the QAPP acceptance criteria.

3.1.7 Compound Quantitation and Target Identification

Raw data were evaluated for twenty-four samples. All compound quantitation and target identifications were acceptable for these Stage 4 samples.

3.2 Representativeness

3.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 14-day analysis holding time criteria for 1,4-dioxane and 1,2,3-trichloropropane.

3.2.2 Blanks

Laboratory blanks, TBs, EBs, and FBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 2.2.2.

3.2.2.1 Laboratory blanks

No contaminants were detected in the laboratory blanks for this analysis.

3.2.2.2 TBs

As a result of contamination found in the trip blanks, the 1,2,3-trichloropropane results in samples M-126-20150206, M-126-20150206-FD, and M-136-20150205 were qualified as estimated (J). The details regarding the qualification of results are provided in Attachment B.

3.2.2.3 FBs

No contaminants were detected in the field blanks for this analysis.

3.2.2.4 EBs

No contaminants were detected in the equipment blanks for this analysis.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the Sample Quantitation Limits (SQLs) attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the 1,4-dioxane and 1,2,3-trichloropropane data is regarded as acceptable.

3.4 Completeness

The completeness level attained for 1,4-dioxane and 1,2,3-trichloropropane field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

4.0 SEMIVOLATILE ORGANIC COMPOUNDS

A total of 18 water samples were analyzed for SVOCs by EPA SW-846 Method 8270C. All SVOC data

were assessed to be valid with the exception of 134 of the 1,260 total results which were rejected based on surrogate %Rs, MS/MSD %Rs, and LCS/LCSD %Rs. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

4.1 Precision and Accuracy

4.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 15 percent for each individual compound and 30 percent for calibration check compounds, or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration.

The 4-nitrophenol and benzoic acid results in samples M-191-20150202-EB and M-192-20150202 were qualified as non-detected estimated (UJ). The %Ds in the initial and continuing calibration verifications were outside the acceptance criteria of 20 percent. The details regarding the qualification of results are provided in Attachment C.

4.1.2 Surrogates

As a result of grossly exceeded surrogate %R, 105 results were qualified as rejected (R). Additionally, 53 results were qualified estimated (J-) or non-detected estimated (UJ) due to surrogate %Rs below the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment C.

4.1.3 MS/MSD Samples

As a result of grossly exceeded MS/MSD %R (e.g., < 0%), 32 results were qualified as rejected (R). Additionally, 21 results were qualified as non-detected estimated (UJ) as a result of MS/MSD %Rs below the QAPP acceptance criteria.

No data were qualified due to MS/MSD RPDs above the QAPP acceptance criteria for several SVOCs since the associated results were not detected.

The details regarding the qualification of results are provided in Attachment C.

4.1.4 LCS/LCSD Samples

As a result of grossly exceeded LCS/LCSD %R (e.g., < 10%), 10 results were qualified as rejected (R). Additionally, 25 results were qualified as non-detected estimated (UJ) as a result of LCS/LCSD %Rs below the QAPP acceptance criteria.

No data were qualified due to LCS/LCSD RPDs above the QAPP acceptance criteria for several SVOCs since the associated results were not detected.

The details regarding the qualification of results are provided in Attachment C.

4.1.5 Internal Standards

All internal standard areas and retention times met the method acceptance criteria.

4.1.6 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. The diethylphthalate results in field duplicate pair M-38-20150507 and M-38-20150507-FD were qualified as detected estimated (J) due to RPDs above the QAPP acceptance criteria. The details regarding the

qualification of results are provided in Attachment C.

4.1.7 Compound Quantitation and Target Identification

Raw data were evaluated for five samples. All compound quantitation and target identifications were acceptable for these Stage 4 samples.

4.2 Representativeness

4.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 7-day extraction and 40-day analysis holding time criteria for SVOCs.

4.2.2 Blanks

Laboratory blanks, EBs, and FBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 2.2.2.

4.2.2.1 Laboratory blanks

No contaminants were detected in the laboratory blanks for this analysis.

4.2.2.2 EBs

No data were qualified due to contaminants detected in the equipment blanks.

4.2.2.3 FBs

No contaminants were detected in the field blanks for this analysis.

4.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the SVOC data is regarded as acceptable.

4.4 Completeness

The completeness level attained for SVOC field samples was 89.4 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

4.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

5.0 PARA-CHLOROBENZENE SULFONIC ACID

A total of 16 water samples were analyzed for p-CBSA by EPA SW-846 Method 8321A. All p-CBSA

data were assessed to be valid since none of the 16 total results were rejected based on holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

5.1 Precision and Accuracy

5.1.1 Instrument Calibration

The %RSDs in the initial calibration and the %Ds in the initial calibration verifications met the acceptance criteria of 20 percent.

The p-CBSA results in samples M-126-20150206, M-126-20150206-FD and M-5A-20150206 were qualified as estimated (J+) and in samples M-162D-20150127-FB, and M-186D-20150126, p-CBSA results were qualified as non-detected estimated (UJ). The %Ds in the continuing calibration verifications were outside the acceptance criteria of 20 percent. The details regarding the qualification of results are provided in Attachment D.

5.1.2 Surrogates

All surrogate %Rs met the QAPP acceptance criteria.

5.1.3 MS/MSD Samples

All MS/MSD %Rs met the QAPP acceptance criteria.

No data were qualified due to p-CBSA MS/MSD RPD above the QAPP acceptance criteria since the associated result was not detected.

5.1.4 LCS Samples

All LCS %Rs met the QAPP acceptance criteria.

5.1.5 Internal Standards

All internal standard areas and retention times met the method acceptance criteria.

5.1.6 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. All RPDs met the QAPP acceptance criteria.

5.1.7 Compound Quantitation and Target Identification

Raw data were evaluated for four samples. All target identifications were acceptable for these Stage 4 samples.

As a result of compound quantitation non-conformances (i.e., ion ratio outside of method limits), the p-CBSA result in sample M-191-20150202-EB was qualified as estimated (J). The details regarding the qualification of results are provided in Attachment D.

5.2 Representativeness

5.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 7-day extraction and 40-day analysis holding time criteria for p-CBSA.

5.2.2 Blanks

Laboratory blanks, EBs, and FBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 2.2.2.

5.2.2.1 Laboratory blanks

No data were qualified due to contaminants detected in the laboratory blanks.

5.2.2.2 EBs

No data were qualified due to contaminants detected in the equipment blank.

5.2.2.3 FBs

No contaminants were detected in the field blank for this analysis.

5.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the p-CBSA data is regarded as acceptable.

5.4 Completeness

The completeness level attained for p-CBSA field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

5.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

6.0 CHLORINATED PESTICIDES

A total of 16 water samples were analyzed for chlorinated pesticides by EPA SW-846 Method 8081A. All chlorinated pesticide data were assessed to be valid since none of the 336 total results were rejected based on holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the PQOs.

6.1 Precision and Accuracy

6.1.1 Instrument Calibration

The %RSDs met the acceptance criteria of 20 percent or the coefficient of determination (r^2) was ≥ 0.990 in the initial calibration. The %Ds in the initial calibration verifications met the acceptance criteria of 20 percent.

The toxaphene result in sample M-161D-20150119 was qualified as non-detected estimated (UJ). The %D in the continuing calibration verifications were outside the acceptance criteria of 20 percent. The details regarding the qualification of results are provided in Attachment E.

6.1.2 Surrogates

All surrogate %Rs met the QAPP acceptance criteria.

6.1.3 MS/MSD Samples

All MS/MSD %Rs and RPDs met the QAPP acceptance criteria.

6.1.4 LCS/LCSD Samples

Six results were qualified as non-detected estimated (UJ) as a result of LCS/LCSD %Rs below the QAPP acceptance criteria.

Five results were qualified as estimated (J) as a result of LCS/LCSD RPDs above the QAPP acceptance criteria.

The details regarding the qualification of results are provided in Attachment E.

6.1.5 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. All RPDs met the QAPP acceptance criteria.

6.1.6 Compound Quantitation and Target Identification

Raw data were evaluated for four samples. All target identifications were acceptable for these Stage 4 samples.

As a result of compound quantitation non-conformances (i.e., RPD between two columns > 40%), the delta-BHC result in sample MC-3-20150202 was qualified as estimated (J). The details regarding the qualification of results are provided in Attachment E.

6.2 Representativeness

6.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 7-day extraction and 40-day analysis holding time criteria for chlorinated pesticides.

6.2.2 Blanks

Laboratory blanks, EBs, and FBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 2.2.2.

6.2.2.1 Laboratory blanks

No contaminants were detected in the laboratory blanks for this analysis.

6.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

6.2.2.3 FBs

No contaminants were detected in the field blanks for this analysis.

6.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the chlorinated pesticide data is regarded as acceptable.

6.4 Completeness

The completeness level attained for chlorinated pesticide field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

6.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

7.0 METALS

A total of 194 water samples were analyzed for dissolved metals and 29 water samples were analyzed for total metals by EPA Methods 200.7, a total of 194 water samples were analyzed for dissolved metals and 24 water samples were analyzed for total metals by EPA Methods 200.8, a total of 149 water samples were analyzed for uranium by EPA SW-846 Method 6020A, and a total of 81 water samples were analyzed for dissolved mercury and 11 water samples were analyzed for total mercury by EPA SW-846 Method 7470A. All metal data were assessed to be valid with the exception of 117 of the 3,357 total results which were rejected based on MS/MSD %Rs. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

7.1 Precision and Accuracy

7.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a

particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the ongoing calibration acceptability of the analytical system. The most critical of the two calibration parameters, r, has the potential to affect data accuracy across an SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 and the %Rs in the continuing calibration verifications met the acceptance criteria of 90-110%.

Thirty-eight results were qualified as non-detected estimated (UJ) due to the CRQL standards below the acceptance criteria of 70-130%. Additionally, three dissolved iron results were qualified as detected estimated (J+) due to the CRQL standards above the acceptance criteria of 70-130%. Negative bias was removed for one of three results since the result was also qualified as detected estimated (J) due to equipment blank contamination. The details regarding the qualification of results are provided in Attachment F.

7.1.2 MS/MSD Samples

As a result of grossly exceeded MS/MSD %R (e.g., < 30%), 117 mercury and tungsten results were qualified as rejected (R). Additionally, 20 results were qualified as detected estimated (J-) or non-detected estimated (UJ) due to MS/MSD %Rs below the QAPP acceptance criteria.

Forty-one results were qualified as detected estimated (J+) due to MS/MSD %Rs above the QAPP acceptance criteria.

No data were qualified due to mercury and tungsten MS/MSD RPDs above the QAPP acceptance criteria since the associated results were qualified as rejected as noted above.

The details regarding the qualification of results are provided in Attachment F.

7.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs met the QAPP acceptance criteria.

7.1.4 ICP Interference Check Sample

All ICP interference check %Rs met the method acceptance criteria.

7.1.5 ICP Serial Dilution

All ICP serial dilution %Ds met the method acceptance criteria.

7.1.6 Internal Standards

All internal standard %Rs met the method acceptance criteria.

7.1.7 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The lead results in field duplicate pairs M-83-20150206 and M-83-20150206-FD and the aluminum results in field duplicate pairs MC-53-20150122 and MC-53-20150122-FD were qualified as detected estimated (J) due to RPDs above the QAPP acceptance criteria. The details regarding the qualification of results are

provided in Attachment F.

7.1.8 Sample Result Verification

Raw data were evaluated for 24 samples for dissolved metals under 200.7/200.8, three samples for total metals under 200.7, three samples for total metals under 200.8, 19 samples for uranium, eight samples for dissolved mercury, and two samples for total mercury. All reported sample results were greater than the SQL and were correctly calculated for these Stage 4 samples.

7.2 Representativeness

7.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 28-day analysis holding time criteria for mercury and 180-day analysis holding time criteria for all other metals.

7.2.2 Blanks

Laboratory blanks, ICB/CCBs, EBs, and FBs were collected and analyzed to evaluate representativeness. The concentration for an individual target compound in any of the types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

> Results Below the Practical Quantitation Limit (PQL) If a sample result and blank contaminant were less than the PQL, the sample result was qualified as detected estimated (J) at the reported concentration.
>
> Results Above the PQL If a sample result and blank contaminant value were greater than the PQL and the sample result was less than 10 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the reported concentration.
>
> No Action If a sample result and blank contaminant value were greater than the PQL and the sample result was greater than 10 times the blank contaminant value, or if a blank contaminant value was less than the PQL and the sample result was greater than the PQL, the result was not amended.

7.2.2.1 Laboratory and Calibration Blanks

As a result of contamination found in the laboratory and calibration blanks, 19 results were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment F.

7.2.2.2 EBs

As a result of contamination found in the equipment blanks, three results were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment F.

7.2.2.3 FBs

As a result of contamination found in the field blank, the dissolved antimony result in sample PC-28-

20150114-FD was qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment F.

7.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the metals data is regarded as acceptable.

7.4 Completeness

The completeness level attained for metal field samples was 96.5 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

7.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

8.0 WET CHEMISTRY

A total of 218 samples were analyzed for anions by EPA Method 300.0, 217 samples were analyzed for nitrate/nitrite as nitrogen by Calculation Method, 192 samples were analyzed for chlorate by EPA Method 300.1B, 195 samples were analyzed for perchlorate by EPA Method 314.0, 149 samples were analyzed for phosphorus by EPA Method 365.3, 150 samples were analyzed for hexavalent chromium by EPA Method 218.6, 92 samples were analyzed for alkalinity by Standard Method 2320B, DOC by Standard Method 5310B, and sulfide by EPA SW-846 Method 9034, 223 samples were analyzed for TDS by Standard Method 2540C, four samples were analyzed for cyanide by Standard Method 4500-CN-E, 149 samples were analyzed for ammonia as nitrogen by Standard Method 4500 NH3-D, and five samples were analyzed for pH by EPA SW-846 Method 9040C. All wet chemistry data were assessed to be valid with the exception of two of the 2,949 total results which were rejected based on MS/MSD %R. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

8.1 Precision and Accuracy

8.1.1 Instrument Calibration

Instrument calibrations were evaluated for all wet chemistry methods. The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 and the %Rs in the continuing calibration verifications met the acceptance criteria of 90-110%.

8.1.2 Surrogate

Surrogates were evaluated for chlorate by EPA Method 300.1B. All surrogate %Rs met the method acceptance criteria.

8.1.3 MS/MSD Samples

MS/MSD samples were evaluated for anions by EPA Method 300.0, chlorate by EPA Method 300.1B, perchlorate by EPA Method 314.0, hexavalent chromium by EPA SW-846 Method 218.6, ammonia and ammonia as nitrogen by Standard Method 4500 NH3-D, and sulfide by EPA SW-846 Method 9034.

As a result of grossly exceeded MS/MSD %R (e.g., < 30%), the cyanide results in samples M-55-20150205 and M-55-20150205-FD were qualified as rejected (R). Additionally, 279 results were qualified as estimated (J-) or non-detected estimated (UJ) due to MS/MSD %Rs below the QAPP acceptance criteria. Negative bias was removed for six of 279 results since these results were also qualified as estimated (J) due to MS/MSD RPD or field duplicate RPD above the QAPP acceptance criteria.

Twenty-two results were qualified as detected estimated (J+) due to MS/MSD %Rs above the QAPP acceptance criteria.

Twelve results were qualified as estimated (J) or non-detected estimated (UJ) due to MS/MSD RPDs above the QAPP acceptance criteria.

The details regarding the qualification of results are provided in Attachment G.

8.1.4 DUP Samples

DUP samples were evaluated for alkalinity by Standard Method 2320B and pH by EPA SW-846 Method 9040C. All DUP RPDs met the QAPP acceptance criteria.

8.1.5 LCS Samples

LCS samples were evaluated for all wet chemistry methods. All LCS %Rs met the QAPP acceptance criteria.

8.1.6 FD Samples

FD samples were evaluated for all wet chemistry methods. The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The bromide results in field duplicate pair M-97-20150129 and M-97-20150129-FD, the hexavalent chromium results in field duplicate pair M-25-20150203 and M-25-20150203-FD, the nitrate/nitrite results in field duplicate pair M-126-20150206 and M-126-20150206-FD, the nitrite results in field duplicate pair M-83-20150206 and M-83-20150206-FD, and the TDS results in field duplicate pair WMW6.15S-20150115 and WMW6.15S-20150115-FD were qualified as detected estimated (J) due to RPDs above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment G.

8.1.7 Sample Result Verification

Raw data were evaluated for 27 samples for anions, and perchlorate, 26 samples for chlorate and nitrate/nitrite as nitrogen, 22 samples for ammonia as nitrogen and phosphorus, 23 samples for hexavalent chromium, nine samples for alkalinity, DOC, and sulfide, 28 samples for TDS, and one sample for cyanide and pH. All reported sample results were greater than the SQL and were correctly calculated for these Stage 4 samples.

8.2 Representativeness

8.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with all wet chemistry methods was conducted. All samples met the 48-hour analysis holding time criteria for nitrite as nitrogen, and orthophosphate as phosphorus, the 7-day analysis holding time criteria for sulfide, the 14-day analysis holding time criteria for alkalinity and cyanide, the 28-day analysis holding time criteria for ammonia as nitrogen, bromide, chlorate, chloride, DOC, sulfate, perchlorate, and phosphorus.

Five pH results were qualified as detected estimated (J). The samples exceeded the 48-hours analysis holding time criteria for pH. Bias cannot be determined.

Eighty three hexavalent chromium, nitrate as NO3, nitrate/nitrite as nitrogen, and TDS were qualified as detected estimated (J-) or non-detected estimated (UJ). The analysis holding time criteria is 24 hours for hexavalent chromium, 48 hours for nitrate as NO3, and 7 days for TDS. The details regarding the qualification of results are presented in Attachment G.

8.2.2 Blanks

Laboratory blanks, ICB/CCBs, EBs, and FBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 7.2.2.

8.2.2.1 Laboratory and Calibration Blanks

No data were qualified due to contaminants detected in the calibration blanks.

8.2.2.2 EBs

No data were qualified due to contaminants detected in the equipment blanks.

8.2.2.3 FBs

No data were qualified due to contaminants detected in the field blanks.

8.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the wet chemistry data is regarded as acceptable.

8.4 Completeness

The completeness level attained for wet chemistry field samples was 99.9 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

8.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

9.0 RADIUM-226

A total of 149 samples were analyzed for radium-226 by EPA Method 903.0. All radium-226 data were assessed to be valid since none of the 149 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

9.1 Precision and Accuracy

9.1.1 Instrument Calibration

All instruments and detectors were calibrated as required. Detector efficiency was determined for each radionuclide of interest. Continuing calibration and background determination was performed at the required frequencies. Results met the method acceptance criteria.

9.1.2 Carrier

Sixteen radium-226 results were qualified as estimated (J) or non-detected estimated (UJ) as a result of carrier %R outside the method acceptance criteria. The details regarding the qualification of results are provided in Attachment H.

9.1.3 DUP Samples

The radium-226 result in sample M-142-20150203 was qualified as non-detected estimated (UJ) as a result of DUP relative error ratio (RER) above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment H.

9.1.4 LCS Samples

All LCS %Rs met the QAPP acceptance criteria.

9.1.5 FD Samples

FD samples were evaluated for radium-226. The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The radium-226 results in field duplicate pairs M-138-20150203 and M-138-20150203-FD and M-57A-20150206 and M-57A-20150206-FD were qualified as detected estimated (J) due to RPDs above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment H.

9.1.6 Isotope Quantitation and Target Identification

Raw data were evaluated for 19 samples. All isotope quantitation and target identifications were acceptable for these Stage 4 samples.

9.2 Representativeness

9.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria for radium-226.

9.2.2 Blanks

Laboratory blanks, EBs, and FBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 7.2.2.

9.2.2.1 Laboratory blanks

As a result of contamination found in the laboratory blanks, eight results were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment H.

9.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

9.2.2.3 FBs

As a result of contamination found in the field blanks, two results were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment H.

9.3 Comparability

The laboratory used standard analytical methods for all of the analyses. The laboratory reported non-detect results at the sample specific minimum detectable activities (MDAs). In all cases, the MDAs attained were at or below the PQLs. The comparability of the radium-226 data is regarded as acceptable.

9.4 Completeness

The completeness level attained for radium-226 field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

9.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

10.0 RADIUM-228

A total of 149 samples were analyzed for radium-228 by EPA Method 904.0. All radium-228 data were assessed to be valid since none of the 149 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

10.1 Precision and Accuracy

10.1.1 Instrument Calibration

All instruments and detectors were calibrated as required. Detector efficiency was determined for each radionuclide of interest. Continuing calibration and background determination was performed at the required frequencies. Results met the method acceptance.

10.1.2 Carrier

Fifteen radium-228 results were qualified as estimated (J) or non-detected estimated (UJ) as a result of carrier %R outside the method acceptance criteria. The details regarding the qualification of results are provided in Attachment I.

10.1.3 DUP Samples

All DUP RERs met the method acceptance criteria.

10.1.4 LCS Samples

All LCS %Rs met the QAPP acceptance criteria.

10.1.5 FD Samples

FD samples were evaluated for radium-228. The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The radium-228 results in field duplicate pairs M-25-20150203 and M-25-20150203-FD and M-53-20150122 and M-53-20150122-FD were qualified as detected estimated (J) due to RPDs above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment I.

10.1.6 Isotope Quantitation and Target Identification

Raw data were evaluated for 19 samples. All isotope quantitation and target identifications were acceptable for these Stage 4 samples.

10.2 Representativeness

10.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria for radium-228.

10.2.2 Blanks

Laboratory blanks, EBs, and FBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 7.2.2.

10.2.2.1 Laboratory blanks

As a result of contamination found in the laboratory blanks, six results were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment I.

10.2.2.2 EBs

No contaminants were detected in the equipment blanks for this analysis.

10.2.2.3 FBs

No contaminants were detected in the field blanks for this analysis.

10.3 Comparability

The laboratory used standard analytical methods for all of the analyses. The laboratory reported non-detect results at the sample specific MDAs. In all cases, the MDAs attained were at or below the PQLs. The comparability of the radium-228 data is regarded as acceptable.

10.4 Completeness

The completeness level attained for radium-228 field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

10.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

11.0 ISOTOPIC URANIUM

A total of 149 samples were analyzed for isotopic uranium by Method A-01-R. All isotopic uranium data were assessed to be valid since none of the 447 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

11.1 Precision and Accuracy

11.1.1 Instrument Calibration

All instruments and detectors were calibrated as required. Detector efficiency was determined for each radionuclide of interest. Continuing calibration and background determination was performed at the required frequencies. Results met the method acceptance criteria.

11.1.2 Tracer

All tracer %Rs met the method acceptance criteria.

11.1.3 DUP Samples

Twelve results were qualified as estimated (J) as a result of DUP RERs above the method acceptance criteria. The details regarding the qualification of results are provided in Attachment J.

11.1.4 LCS Samples

All LCS %Rs met the QAPP acceptance criteria.

11.1.5 FD Samples

FD samples were evaluated for isotopic uranium. The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The uranium-235/236 results in field duplicate pairs M-97-20150129 and M-97-20150129-FD and M-190-20150119 and M-190-20150119-FD, and the uranium-238 results in field duplicate pairs M-138-20150203 and M-138-20150203-FD and M-186-20150126 and M-186-20150126-FD were qualified as detected estimated (J) due to RPDs above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment J.

11.1.6 Isotope Quantitation and Target Identification

Raw data were evaluated for 19 samples. All isotope quantitation and target identifications were acceptable for these Stage 4 samples.

11.2 Representativeness

11.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria for isotopic uranium.

11.2.2 Blanks

Laboratory blanks, EBs, and FBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 7.2.2.

11.2.2.1 Laboratory blanks

As a result of contamination found in the laboratory blanks, the uranium-233/234 result in sample M-134-20150205-EB were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment J.

11.2.2.2 EBs

As a result of contamination found in the equipment blanks, the uranium-238 result in sample M-139-20150204 and the uranium-233/234 result in sample M-134-20150205 were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment J.

11.2.2.3 FBs

No contaminants were detected in the field blanks for this analysis.

11.3 Comparability

The laboratory used standard analytical methods for all of the analyses. The laboratory reported non-detect results at the sample specific MDAs. In all cases, the MDAs attained were at or below the PQLs. The comparability of the isotopic uranium data is regarded as acceptable.

11.4 Completeness

The completeness level attained for isotopic uranium field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

11.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

12.0 ISOTOPIC THORIUM

A total of 149 water samples were analyzed for isotopic thorium by Method A-01-R. All isotopic thorium data were assessed to be valid since none of the 447 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

12.1 Precision and Accuracy

12.1.1 Instrument Calibration

All instruments and detectors were calibrated as required. Detector efficiency was determined for each radionuclide of interest. Continuing calibration and background determination was performed at the required frequencies. Results met the method acceptance criteria.

12.1.2 Tracer

All tracer %Rs met the method acceptance criteria.

12.1.3 DUP Samples

All DUP RERs met the method acceptance criteria.

12.1.4 LCS Samples

All LCS %Rs met the QAPP acceptance criteria.

12.1.5 FD Samples

FD samples were evaluated for isotopic thorium. The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The thorium-230 results in field duplicate pairs M-193-20150311 and M-193-20150311-FD and M-186-20150126 and M-186-20150126-FD were qualified as detected estimated (J) due to RPDs above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment K.

12.1.6 Isotope Quantitation and Target Identification

Raw data were evaluated for 19 samples. All isotope quantitation and target identifications were acceptable for these Stage 4 samples.

12.2 Representativeness

12.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria for isotopic thorium.

12.2.2 Blanks

Laboratory blanks, EBs, and FBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 7.2.2.

12.2.2.1 Laboratory blanks

As a result of contamination found in the laboratory blanks, 72 thorium-230 results and 8 thorium-228 results were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment K.

12.2.2.2 EBs

As a result of contamination found in the equipment blanks, three thorium-230 results and one thorium-228 result were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment K.

12.2.2.2 FBs

As a result of contamination found in the field blanks, nine thorium-230 results were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment K.

12.3 Comparability

The laboratory used standard analytical methods for all of the analyses. The laboratory reported non-detect results at the sample specific MDAs.

The laboratory indicated that the MDA achieved for samples MC-29-20150205 and MC-51-20150205 exceeded the PQL for thorium-228. All other MDAs attained were at or below the PQLs. The details regarding the qualification of results are provided in Attachment K.

The comparability of the isotopic thorium data is regarded as acceptable.

12.4 Completeness

The completeness level attained for isotopic thorium field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

12.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

13.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted in the laboratory case narratives.

14.0 SUMMARY OF PARCCS CRITERIA

The validation reports present the PARCCS results for all SDGs. Each PARCCS criterion is discussed in detail in the following sections.

14.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as calibration, surrogates, MS/MSD, DUP, LCS/LCSD, and field duplicates. The precision and accuracy of the data set were considered acceptable after integration of result qualification.

All calibrations were performed as required and met the acceptance criteria with the exceptions noted in Sections 2.1.1, 4.1.1, 5.1.1, 6.1.1, and 7.1.1. All surrogate, carrier, MS/MSD, DUP, LCS/LCSD, internal standard, and field duplicate percent recoveries, RPDs, and areas met acceptance criteria with the exceptions noted in Sections 2.1.3, 3.1.2, 3.1.3, 4.1.2, 4.1.3, 4.1.4, 4.1.6, 6.1.4, 7.1.2, 7.1.7, 8.1.3, 8.1.6,

9.1.2, 9.1.3, 9.1.5, 10.1.2, 10.1.5, 11.1.4, 11.1.5, and 12.1.5. All ICP interference check sample %Rs met acceptance criteria.

14.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All holding times were met with the exceptions noted in Section 8.2.1. All samples were associated with a laboratory blank in each individual SDG. The representativeness of the project data is considered acceptable after integration of result qualification.

14.3 Comparability

Sampling frequency requirements were met in obtaining necessary equipment blanks, field blanks and field duplicates. The laboratory used standard analytical methods for the analyses. The analytical results were reported in correct standard units. Sample integrity criteria were met. Sample preservation and holding times were within QC criteria with the exceptions noted in Sections 2.2.1 and 8.2.1. The overall comparability is considered acceptable after integration of result qualification.

14.4 Completeness

Of the 20,900 total analytes reported, 255 sample results were rejected. The completeness for the SDGs is as follows:

Parameter	Total Analytes	No. of Rejects	% Completeness
VOCs	11,420	2	99.98
1,4-Dioxane & 1,2,3-Trichloropropane	370	0	100
SVOCs	1,260	134	89.4
p-CBSA	16	0	100
Chlorinated Pesticides	336	0	100
Metals	3,357	117	96.5
Wet Chemistry	2,949	2	99.9
Radium-226	149	0	100
Radium-228	149	0	100
Isotopic Uranium	447	0	100
Isotopic Thorium	447	0	100
Total	**20,900**	**255**	**98.8**

The completeness percentage based on rejected data met the 90 percent DQO goal.

The completeness for the SVOC analysis was 89.4%, slightly below the 90% criterion. The completeness goal was not achieved because results were rejected due to the presence of matrix interference (i.e., low surrogate and MS/MSD percent recoveries). Data users will need to assess any potential impact on the analysis for which the data will be used.

14.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations and PQLs met the project requirements and low level contamination in the laboratory blanks, ICB/CCBs, EBs, and FBs did not affect sensitivity.

15.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the soil and water sample laboratory analytical results generated during the Groundwater Remedial Investigation Sampling from January through March and

May 2015 at the NERT site in Henderson, Nevada established that the overall project requirements and completeness levels were met. The sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B and Stage 4 data validation all other results are considered valid and usable for all purposes.

16.0 REFERENCES

Environ 2014. Quality Assurance Project Plan, Revision 1, Nevada Environmental Response Trust Site, Henderson, Nevada. July 18.

NDEP 2009. NDEP Data Verification and Validation Requirements – Supplement. April

NDEP 2012. Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas. January 5.

USEPA 2017. USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review. January.

USEPA 2017. USEPA National Functional Guidelines for Superfund Organic Methods Data Review. January.

Region 9 Superfund Data Evaluation/Validation Guidance, R6QA/006.1, Draft. December 2001.

____.1996. EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007; update V, July 2014.

(Eaton et al., 1998) *Standard Method for the Examination of Water and Wastewater* (20th ed.). Washington, DC: American Public Health Association.

TABLES

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
33955A	440-98805-1	M-154-20150112	440-98805-1	Water	20150112		Stage 4	X		X				X					
33955A	440-98805-1	M-150-20150112	440-98805-2	Water	20150112		Stage 4	X		X				X					
33955A	440-98805-1	M-154-20150112-TB	440-98805-3	Water	20150112	TB	Stage 4	X											
33955A	440-98805-1	PC-21A-20150112	440-98805-4	Water	20150112	FD1	Stage 4		X					X				X	
33955A	440-98805-1	PC-21A-20150112-FD	440-98805-5	Water	20150112	FD1	Stage 4		X					X				X	
33949B	440-98805-2	M-154-20150112	440-98805-1	Water	20150112		Stage 2B										X		
33949B	440-98805-2	M-150-20150112	440-98805-2	Water	20150112		Stage 2B										X		
33955B	440-98909-1	PC-40-20150113-TB	440-98909-1	Water	20150113	TB	Stage 2B	X		X									
33955B	440-98909-1	PC-40-20150113	440-98909-2	Water	20150113		Stage 2B		X					X				X	
33955B	440-98909-1	PC-54-20150113	440-98909-3	Water	20150113		Stage 2B		X					X				X	
33955B	440-98909-1	PC-64-20150113	440-98909-4	Water	20150113		Stage 2B		X					X				X	
33955B	440-98909-1	PC-65-20150113	440-98909-5	Water	20150113		Stage 2B		X					X				X	
33955B	440-98909-1	M-161-20150113	440-98909-6	Water	20150113		Stage 2B	X		X				X					
33955B	440-98909-1	M-162-20150113	440-98909-7	Water	20150113		Stage 2B	X		X				X					
33955B	440-98909-1	PC-64-20150113-EB	440-98909-8	Water	20150113	EB	Stage 2B	X							X				X
33949C	440-98909-2	M-161-20150113	440-98909-6	Water	20150113		Stage 2B										X		
33949C	440-98909-2	M-162-20150113	440-98909-7	Water	20150113		Stage 2B										X		
33955C	440-99061-1	TR-1-20150114	440-99061-1	Water	20150114		Stage 4	X		X				X					
33955C	440-99061-1	TR-2-20150114	440-99061-2	Water	20150114		Stage 2B	X		X				X					
33955C	440-99061-1	TR-4-20150114	440-99061-3	Water	20150114		Stage 2B	X		X				X					
33955C	440-99061-1	TR-5-20150114	440-99061-4	Water	20150114		Stage 2B	X		X				X					
33955C	440-99061-1	TR-1-20150114-TB	440-99061-5	Water	20150114	TB	Stage 2B	X		X									
33955C	440-99061-1	PC-66-20150114	440-99061-6	Water	20150114		Stage 2B		X					X				X	
33955C	440-99061-1	PC-67-20150114	440-99061-7	Water	20150114		Stage 2B		X					X				X	
33955C	440-99061-1	PC-28-20150114	440-99061-8	Water	20150114	FD2	Stage 2B		X					X				X	
33955C	440-99061-1	PC-28-20150114-FB	440-99061-9	Water	20150114	FB	Stage 2B		X						X				X
33955C	440-99061-1	PC-28-20150114-FD	440-99061-10	Water	20150114	FD2	Stage 2B		X					X				X	
33955C	440-99061-1	BHEI-10-20150114	440-99061-11	Water	20150114		Stage 2B		X					X				X	
33955C	440-99061-1	PC-24-20150114	440-99061-12	Water	20150114		Stage 2B		X					X				X	
33949A	440-99061-2	TR-1-20150114	440-99061-1	Water	20150114		Stage 2B										X		
33949A	440-99061-2	TR-2-20150114	440-99061-2	Water	20150114		Stage 2B										X		
33949A	440-99061-2	TR-4-20150114	440-99061-3	Water	20150114		Stage 2B										X		
33949A	440-99061-2	TR-5-20150114	440-99061-4	Water	20150114		Stage 2B										X		
33955D	440-99142-1	WMW5.58S-20150115	440-99142-1	Water	20150115		Stage 2B							X				X	
33955D	440-99142-1	WMW6.15S-20150115	440-99142-2	Water	20150115	FD3	Stage 2B							X				X	
33955D	440-99142-1	WMW6.15S-20150115-FD	440-99142-3	Water	20150115	FD3	Stage 2B							X				X	
33955D	440-99142-1	WMW6.15S-20150115-EB	440-99142-4	Water	20150115	EB	Stage 2B								X				X
33955D	440-99142-1	WMW6.55S-20150115	440-99142-5	Water	20150115		Stage 2B							X				X	

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LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
33955D	440-99142-1	TR-3-20150115	440-99142-6	Water	20150115		Stage 2B	X		X				X					
33955D	440-99142-1	TR-11-20150115	440-99142-7	Water	20150115		Stage 2B	X		X				X					
33955D	440-99142-1	TR-7-20150115	440-99142-8	Water	20150115	FD4	Stage 2B	X		X				X					
33955D	440-99142-1	TR-6-20150115	440-99142-9	Water	20150115		Stage 2B	X		X				X					
33955D	440-99142-1	TR-3-20150115-TB	440-99142-10	Water	20150115	TB	Stage 2B	X		X									
33955D	440-99142-1	TR-7-20150115-FD	440-99142-11	Water	20150115	FD4	Stage 2B	X		X				X					
33949D	440-99142-2	TR-3-20150115	440-99142-6	Water	20150115		Stage 2B										X		
33949D	440-99142-2	TR-11-20150115	440-99142-7	Water	20150115		Stage 2B										X		
33949D	440-99142-2	TR-7-20150115	440-99142-8	Water	20150115	FD5	Stage 2B										X		
33949D	440-99142-2	TR-6-20150115	440-99142-9	Water	20150115		Stage 2B										X		
33949D	440-99142-2	TR-7-20150115-FD	440-99142-11	Water	20150115	FD5	Stage 2B										X		
33955E	440-99238-1	MCF-29B-20150116	440-99238-1	Water	20150116		Stage 2B							X				X	
33955E	440-99238-1	MCF-29B-20150116-FB	440-99238-2	Water	20150116	FB	Stage 2B								X				X
33955E	440-99238-1	MCF-29A-20150116	440-99238-3	Water	20150116		Stage 2B							X				X	
33955E	440-99238-1	MCF-30B-20150116	440-99238-4	Water	20150116		Stage 2B							X				X	
33955E	440-99238-1	MCF-30A-20150116	440-99238-5	Water	20150116		Stage 2B							X				X	
33955E	440-99238-1	M-117-20150116	440-99238-6	Water	20150116		Stage 2B	X		X				X				X	
33955E	440-99238-1	M-121-20150116	440-99238-7	Water	20150116		Stage 2B	X		X				X				X	
33955E	440-99238-1	M-117-20150116-TB	440-99238-8	Water	20150116	TB	Stage 2B	X		X									
33955F	440-99238-2	M-117-20150116	440-99238-6	Water	20150116		Stage 2B										X		
33955F	440-99238-2	M-121-20150116	440-99238-7	Water	20150116		Stage 2B										X		
33955M	440-99312-1	M-190-20150119	440-99312-1	Water	20150119	FD6	Stage 2B	X		X	X	X	X	X				X	
33955M	440-99312-1	M-190-20150119-FD	440-99312-2	Water	20150119	FD6	Stage 2B	X		X	X	X	X	X				X	
33955M	440-99312-1	M-189-20150119	440-99312-3	Water	20150119		Stage 2B	X		X	X	X	X	X				X	
33955M	440-99312-1	M-190-20150119-TB	440-99312-4	Water	20150119	TB	Stage 2B	X		X									
33955M	440-99312-1	M-193-20150119	440-99312-5	Water	20150119		Stage 2B	X		X	X	X	X	X				X	
33955M	440-99312-1	PC-110-20150119	440-99312-6	Water	20150119		Stage 2B							X				X	
33955N	440-99312-2	M-190-20150119	440-99312-1	Water	20150119	FD7	Stage 2B										X		
33955N	440-99312-2	M-190-20150119-FD	440-99312-2	Water	20150119	FD7	Stage 2B										X		
33955N	440-99312-2	M-189-20150119	440-99312-3	Water	20150119		Stage 2B										X		
33955N	440-99312-2	M-193-20150119	440-99312-5	Water	20150119		Stage 2B										X		
33955O	440-99401-1	M-161D-20150119	440-99401-1	Water	20150119		Stage 2B	X		X	X	X	X	X				X	
33955O	440-99401-1	M-161D-20150119-TB	440-99401-2	Water	20150119	TB	Stage 2B	X		X									
33955O	440-99401-1	M-118-20150120	440-99401-3	Water	20150120		Stage 2B	X		X				X				X	
33955O	440-99401-1	M-120-20150120	440-99401-4	Water	20150120		Stage 2B	X		X				X				X	
33955O	440-99401-1	TR-10-20150120	440-99401-5	Water	20150120		Stage 2B	X		X				X					
33955O	440-99401-1	TR-9-20150120	440-99401-6	Water	20150120		Stage 2B	X		X				X					
33955O	440-99401-1	TR-9-20150120-FB	440-99401-7	Water	20150120	FB	Stage 2B	X		X					X				

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33955O	440-99401-1	M-12A-20150120	440-99401-8	Water	20150120		Stage 2B	X		X				X					
33955O	440-99401-1	M-12A-20150120-EB	440-99401-9	Water	20150120	EB	Stage 2B	X		X					X				
33955O	440-99401-1	PC-108-20150120	440-99401-10	Water	20150120	FD8	Stage 2B							X				X	
33955O	440-99401-1	PC-108-20150120-FD	440-99401-11	Water	20150120	FD8	Stage 2B							X				X	
33955O	440-99401-1	HMW-15-20150120	440-99401-12	Water	20150120		Stage 2B							X				X	
33955O	440-99401-1	HMW-13-20150120	440-99401-13	Water	20150120		Stage 2B							X				X	
33955O	440-99401-1	PC-98R-20150120	440-99401-14	Water	20150120		Stage 2B							X				X	
33955O	440-99401-1	PC-103-20150120	440-99401-15	Water	20150120		Stage 2B							X				X	
33955O	440-99401-1	PC-68-20150120	440-99401-16	Water	20150120		Stage 2B							X				X	
33955P	440-99401-2	M-161D-20150119	440-99401-1	Water	20150119		Stage 2B										X		
33955P	440-99401-2	M-118-20150120	440-99401-3	Water	20150120		Stage 2B										X		
33955P	440-99401-2	M-120-20150120	440-99401-4	Water	20150120		Stage 2B										X		
33955P	440-99401-2	TR-10-20150120	440-99401-5	Water	20150120		Stage 2B										X		
33955P	440-99401-2	TR-9-20150120	440-99401-6	Water	20150120		Stage 2B										X		
33955P	440-99401-2	TR-9-20150120-FB	440-99401-7	Water	20150120	FB	Stage 2B										X		
33955P	440-99401-2	M-12A-20150120	440-99401-8	Water	20150120		Stage 2B										X		
33955P	440-99401-2	M-12A-20150120-EB	440-99401-9	Water	20150120	EB	Stage 2B										X		
33955G	440-99576-1	M-155-20150121	440-99576-1	Water	20150121		Stage 2B	X		X				X				X	
33955G	440-99576-1	M-151-20150121	440-99576-2	Water	20150121		Stage 2B	X		X				X					
33955G	440-99576-1	M-165-20150121	440-99576-3	Water	20150121		Stage 2B	X		X				X					
33955G	440-99576-1	M-155-20150121-TB	440-99576-4	Water	20150121	TB	Stage 2B	X		X									
33955H	440-99576-2	M-155-20150121	440-99576-1	Water	20150121		Stage 2B										X		
33955H	440-99576-2	M-151-20150121	440-99576-2	Water	20150121		Stage 2B										X		
33955H	440-99576-2	M-165-20150121	440-99576-3	Water	20150121		Stage 2B										X		
33955I	440-99577-1	PC-60-20150121	440-99577-1	Water	20150121		Stage 2B							X				X	
33955I	440-99577-1	PC-56-20150121	440-99577-2	Water	20150121		Stage 2B							X				X	
33955I	440-99577-1	PC-58-20150121	440-99577-3	Water	20150121		Stage 2B							X				X	
33955I	440-99577-1	PC-94-20150121	440-99577-4	Water	20150121		Stage 2B							X				X	
33955I	440-99577-1	PC-59-20150120	440-99577-5	Water	20150120		Stage 2B							X				X	
33955I	440-99577-1	PC-107-20150121	440-99577-6	Water	20150121		Stage 2B							X				X	
33955J	440-99685-1	PC-2-20150122	440-99685-1	Water	20150122		Stage 2B							X				X	
33955J	440-99685-1	PC-4-20150122	440-99685-2	Water	20150122		Stage 2B							X				X	
33955J	440-99685-1	PC-132-20150122	440-99685-3	Water	20150122		Stage 2B							X				X	
33955J	440-99685-1	PC-53-20150121	440-99685-4	Water	20150121		Stage 2B							X				X	
33955J	440-99685-1	PC-127-20150122	440-99685-5	Water	20150122	FD9	Stage 2B							X				X	
33955J	440-99685-1	PC-127-20150122-FD	440-99685-6	Water	20150122	FD9	Stage 2B							X				X	
33955J	440-99685-1	PC-127-20150122-EB	440-99685-7	Water	20150122	EB	Stage 2B								X				X
33955J	440-99685-1	PC-127-20150122-FB	440-99685-8	Water	20150122	FB	Stage 2B								X				X

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33955J	440-99685-1	PC-126-20150122	440-99685-9	Water	20150122		Stage 2B							X				X	
33955J	440-99685-1	M-181-20150121	440-99685-10	Water	20150121		Stage 2B	X		X				X					
33955J	440-99685-1	M-6A-20150122	440-99685-11	Water	20150122		Stage 2B	X		X				X				X	
33955J	440-99685-1	M-6A-20150122-FB	440-99685-12	Water	20150122	FB	Stage 2B	X		X					X				X
33955J	440-99685-1	MC-53-20150122	440-99685-13	Water	20150122	FD10	Stage 2B	X		X				X				X	
33955J	440-99685-1	MC-53-20150122-FD	440-99685-14	Water	20150122	FD10	Stage 2B	X		X				X				X	
33955J	440-99685-1	M-181-20150121-TB	440-99685-15	Water	20150121	TB	Stage 2B	X		X									
33955K	440-99685-2	M-181-20150121	440-99685-10	Water	20150121		Stage 2B										X		
33955K	440-99685-2	M-6A-20150122	440-99685-11	Water	20150122		Stage 2B										X		
33955K	440-99685-2	M-6A-20150122-FB	440-99685-12	Water	20150122	FB	Stage 2B										X		
33955K	440-99685-2	MC-53-20150122	440-99685-13	Water	20150122	FD11	Stage 2B										X		
33955K	440-99685-2	MC-53-20150122-FD	440-99685-14	Water	20150122	FD11	Stage 2B										X		
33955L	440-99783-1	PC-124-20150122	440-99783-1	Water	20150122		Stage 2B							X				X	
33955L	440-99783-1	PC-50-20150123	440-99783-2	Water	20150123		Stage 2B							X				X	
33955L	440-99783-1	PC-129-20150123	440-99783-3	Water	20150123		Stage 2B							X				X	
33955L	440-99783-1	PC-128-20150123	440-99783-4	Water	20150123		Stage 2B							X				X	
33955L	440-99783-1	PC-154-20150123	440-99783-5	Water	20150123		Stage 2B	X		X				X				X	
33955L	440-99783-1	PC-158-20150123	440-99783-6	Water	20150123		Stage 2B	X		X				X				X	
33955L	440-99783-1	PC-159-20150123	440-99783-7	Water	20150123		Stage 2B	X		X				X				X	
33955L	440-99783-1	PC-154-20150123-TB	440-99783-8	Water	20150123	TB	Stage 2B	X		X									
33955Q	440-99862-1	PC-160-20150126-TB	440-99862-1	Water	20150126	TB	Stage 2B	X		X									
33955Q	440-99862-1	PC-160-20150126	440-99862-2	Water	20150126		Stage 2B	X		X				X				X	
33955Q	440-99862-1	PC-134D-20150126	440-99862-3	Water	20150126		Stage 2B	X		X				X				X	
33955Q	440-99862-1	PC-137D-20150126	440-99862-4	Water	20150126		Stage 2B	X		X				X				X	
33955Q	440-99862-1	PC-151-20150126	440-99862-5	Water	20150126	FD12	Stage 2B	X		X				X				X	
33955Q	440-99862-1	PC-151-20150126-FD	440-99862-6	Water	20150126	FD12	Stage 2B	X		X				X				X	
33955Q	440-99862-1	PC-153-20150126	440-99862-7	Water	20150126		Stage 2B	X		X				X				X	
33955Q	440-99862-1	M-149-20150126	440-99862-8	Water	20150126		Stage 2B	X		X				X					
33955Q	440-99862-1	M-153-20150126	440-99862-9	Water	20150126		Stage 2B	X		X				X					
33955Q	440-99862-1	M-186-20150126	440-99862-10	Water	20150126	FD13	Stage 2B	X		X				X					
33955Q	440-99862-1	M-186-20150126-FD	440-99862-11	Water	20150126	FD13	Stage 2B	X		X				X					
34035A	440-99862-2	M-149-20150126	440-99862-8	Water	20150126		Stage 2B										X		
34035A	440-99862-2	M-153-20150126	440-99862-9	Water	20150126		Stage 2B										X		
34035A	440-99862-2	M-186-20150126	440-99862-10	Water	20150126	FD14	Stage 2B										X		
34035A	440-99862-2	M-186-20150126-FD	440-99862-11	Water	20150126	FD14	Stage 2B										X		
33955R	440-99974-1	M-163-20150127	440-99974-1	Water	20150127		Stage 2B	X		X				X					
33955R	440-99974-1	M-125-20150127	440-99974-2	Water	20150127		Stage 4	X		X		X		X					
33955R	440-99974-1	M-123-20150127	440-99974-3	Water	20150127		Stage 2B	X		X				X					

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
33955R	440-99974-1	TR-8-20150127	440-99974-4	Water	20150127		Stage 2B	X		X				X					
33955R	440-99974-1	MC-45-20150127	440-99974-5	Water	20150127		Stage 4	X		X				X				X	
33955R	440-99974-1	M-186D-20150126	440-99974-6	Water	20150126		Stage 2B	X		X	X	X	X	X					
33955R	440-99974-1	M-186D-20150126	440-99974-6	Water	20150126		Stage 4											X	
33955R	440-99974-1	M-162D-20150127	440-99974-7	Water	20150127		Stage 2B	X		X	X	X	X	X				X	
33955R	440-99974-1	M-162D-20150127-FB	440-99974-8	Water	20150127	FB	Stage 2B	X		X	X	X	X		X				
33955R	440-99974-1	M-162D-20150127-FB	440-99974-8	Water	20150127	FB	Stage 4												X
33955R	440-99974-1	M-186D-20150126-TB	440-99974-9	Water	20150126	TB	Stage 2B	X		X									
33955R	440-99974-1	PC-152-20150126	440-99974-10	Water	20150126		Stage 2B	X		X				X				X	
33955S	440-99974-2	M-163-20150127	440-99974-1	Water	20150127		Stage 2B										X		
33955S	440-99974-2	M-125-20150127	440-99974-2	Water	20150127		Stage 4										X		
33955S	440-99974-2	M-123-20150127	440-99974-3	Water	20150127		Stage 2B										X		
33955S	440-99974-2	TR-8-20150127	440-99974-4	Water	20150127		Stage 2B										X		
33955S	440-99974-2	MC-45-20150127	440-99974-5	Water	20150127		Stage 4										X		
33955S	440-99974-2	M-186D-20150126	440-99974-6	Water	20150126		Stage 2B										X		
33955S	440-99974-2	M-162D-20150127	440-99974-7	Water	20150127		Stage 2B										X		
33955S	440-99974-2	M-162D-20150127-FB	440-99974-8	Water	20150127	FB	Stage 2B										X		
33955R	440-99974-1	PC-152-20150126	440-99974-10	Water	20150126		Stage 4												
33955T	440-100079-1	MC-50-20150127	440-100079-1	Water	20150127		Stage 2B	X		X				X				X	
33955T	440-100079-1	MC-50-20150127-EB	440-100079-2	Water	20150127	EB	Stage 2B	X		X					X				X
33955T	440-100079-1	M-141-20150128	440-100079-3	Water	20150128	FD15	Stage 2B	X		X				X					
33955T	440-100079-1	M-141-20150128-FD	440-100079-4	Water	20150128	FD15	Stage 2B	X		X				X					
33955T	440-100079-1	M-31A-20150128	440-100079-5	Water	20150128		Stage 2B	X		X				X					
33955T	440-100079-1	M-148A-20150128	440-100079-6	Water	20150128		Stage 2B	X		X				X					
33955T	440-100079-1	M-77-20150128	440-100079-7	Water	20150128		Stage 2B	X		X				X					
33955T	440-100079-1	M-77-20150128-FB	440-100079-8	Water	20150128	FB	Stage 2B	X		X					X				
33955T	440-100079-1	MC-50-20150127-TB	440-100079-9	Water	20150127	TB	Stage 2B	X		X									
33955T	440-100079-1	M-182-20150128	440-100079-10	Water	20150128		Stage 2B	X		X				X					
33955T	440-100079-1	M-164-20150128	440-100079-11	Water	20150128		Stage 2B	X		X				X					
33955U	440-100079-2	MC-50-20150127	440-100079-1	Water	20150127		Stage 2B										X		
33955U	440-100079-2	MC-50-20150127-EB	440-100079-2	Water	20150127	EB	Stage 2B										X		
33955U	440-100079-2	M-141-20150128	440-100079-3	Water	20150128	FD16	Stage 2B										X		
33955U	440-100079-2	M-141-20150128-FD	440-100079-4	Water	20150128	FD16	Stage 2B										X		
33955U	440-100079-2	M-31A-20150128	440-100079-5	Water	20150128		Stage 2B										X		
33955U	440-100079-2	M-148A-20150128	440-100079-6	Water	20150128		Stage 2B										X		
33955U	440-100079-2	M-77-20150128	440-100079-7	Water	20150128		Stage 2B										X		
33955U	440-100079-2	M-77-20150128-FB	440-100079-8	Water	20150128	FB	Stage 2B										X		
33955U	440-100079-2	M-182-20150128	440-100079-10	Water	20150128		Stage 2B										X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
33955U	440-100079-2	M-164-20150128	440-100079-11	Water	20150128		Stage 2B										X		
33955V	440-100230-1	M-92-20150129	440-100230-1	Water	20150129		Stage 2B	X		X				X					
33955V	440-100230-1	M-97-20150129	440-100230-2	Water	20150129	FD17	Stage 2B	X		X				X					
33955V	440-100230-1	M-97-20150129-FD	440-100230-3	Water	20150129	FD17	Stage 2B	X		X				X					
33955V	440-100230-1	M-124-20150129	440-100230-4	Water	20150129		Stage 2B	X		X				X					
33955V	440-100230-1	M-14A-20150129	440-100230-5	Water	20150129		Stage 2B	X		X			X	X					
33955V	440-100230-1	M-92-20150129-TB	440-100230-6	Water	20150129	TB	Stage 2B	X		X									
33955V	440-100230-1	M-74-20150129	440-100230-7	Water	20150129		Stage 2B	X		X				X					
33955V	440-100230-1	M-133-20150129	440-100230-8	Water	20150129		Stage 2B	X		X				X					
33955V	440-100230-1	M-73-20150129	440-100230-9	Water	20150129		Stage 2B	X		X				X					
33955V	440-100230-1	M-67-20150129	440-100230-10	Water	20150129		Stage 2B	X		X				X					
33955V	440-100230-1	M-73-20150129-EB	440-100230-11	Water	20150129	EB	Stage 2B	X		X									
33955V	440-100230-1	M-73-20150129-EB	440-100230-11	Water	20150129	EB	Stage 4								X				
33955W	440-100230-2	M-92-20150129	440-100230-1	Water	20150129		Stage 2B										X		
33955W	440-100230-2	M-97-20150129	440-100230-2	Water	20150129	FD18	Stage 2B										X		
33955W	440-100230-2	M-97-20150129-FD	440-100230-3	Water	20150129	FD18	Stage 2B										X		
33955W	440-100230-2	M-124-20150129	440-100230-4	Water	20150129		Stage 2B										X		
33955W	440-100230-2	M-14A-20150129	440-100230-5	Water	20150129		Stage 2B										X		
33955W	440-100230-2	M-74-20150129	440-100230-7	Water	20150129		Stage 2B										X		
33955W	440-100230-2	M-133-20150129	440-100230-8	Water	20150129		Stage 2B										X		
33955W	440-100230-2	M-73-20150129	440-100230-9	Water	20150129		Stage 2B										X		
33955W	440-100230-2	M-67-20150129	440-100230-10	Water	20150129		Stage 2B										X		
33955W	440-100230-2	M-73-20150129-EB	440-100230-11	Water	20150129	EB	Stage 2B										X		
33955X	440-100386-1	M-37-20150129	440-100386-1	Water	20150129		Stage 2B	X		X				X					
33955X	440-100386-1	M-128-20150130	440-100386-2	Water	20150130		Stage 2B	X		X			X	X					
33955X	440-100386-1	M-37-20150129-TB	440-100386-3	Water	20150129	TB	Stage 2B	X		X									
33955X	440-100386-1	M-35-20150129	440-100386-4	Water	20150129	FD19	Stage 2B	X		X				X					
33955X	440-100386-1	M-35-20150129-FD	440-100386-5	Water	20150129	FD19	Stage 2B	X		X				X					
33955X	440-100386-1	M-146-20150130	440-100386-6	Water	20150130		Stage 2B	X		X				X					
33955X	440-100386-1	M-11-20150130	440-100386-7	Water	20150130		Stage 2B	X		X				X					
33955X	440-100386-1	M-52-20150130	440-100386-8	Water	20150130		Stage 2B	X		X				X					
33955Y	440-100386-2	M-37-20150129	440-100386-1	Water	20150129		Stage 2B										X		
33955Y	440-100386-2	M-128-20150130	440-100386-2	Water	20150130		Stage 2B										X		
33955Y	440-100386-2	M-35-20150129	440-100386-4	Water	20150129	FD20	Stage 2B										X		
33955Y	440-100386-2	M-35-20150129-FD	440-100386-5	Water	20150129	FD20	Stage 2B										X		
33955Y	440-100386-2	M-146-20150130	440-100386-6	Water	20150130		Stage 2B										X		
33955Y	440-100386-2	M-11-20150130	440-100386-7	Water	20150130		Stage 2B										X		
33955Y	440-100386-2	M-52-20150130	440-100386-8	Water	20150130		Stage 2B										X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
33955Z	440-100558-1	M-64-20150202	440-100558-1	Water	20150202		Stage 4	X		X				X					
33955Z	440-100558-1	M-22A-20150202	440-100558-2	Water	20150202		Stage 4	X		X	X			X					
33955Z	440-100558-1	MC-3-20150202	440-100558-3	Water	20150202		Stage 4						X						
33955Z	440-100558-1	M-191-20150202	440-100558-4	Water	20150202		Stage 4	X		X	X	X	X	X				X	
33955Z	440-100558-1	M-191-20150202-EB	440-100558-5	Water	20150202	EB	Stage 4	X		X	X	X	X		X				X
33955Z	440-100558-1	M-192-20150202	440-100558-6	Water	20150202		Stage 4	X		X	X	X	X	X				X	
33955Z	440-100558-1	M-144-20150202	440-100558-7	Water	20150202		Stage 4	X		X				X					
33955Z	440-100558-1	M-144-20150202-TB	440-100558-8	Water	20150202	TB	Stage 4	X		X									
33972A	440-100558-2	M-64-20150202	440-100558-1	Water	20150202		Stage 4										X		
33972A	440-100558-2	M-22A-20150202	440-100558-2	Water	20150202		Stage 4										X		
33972A	440-100558-2	M-191-20150202	440-100558-4	Water	20150202		Stage 4										X		
33972A	440-100558-2	M-191-20150202-EB	440-100558-5	Water	20150202	EB	Stage 4										X		
33972A	440-100558-2	M-192-20150202	440-100558-6	Water	20150202		Stage 4										X		
33972A	440-100558-2	M-144-20150202	440-100558-7	Water	20150202		Stage 4										X		
33972B	440-100759-1	M-13-20150202	440-100759-1	Water	20150202		Stage 2B	X		X				X					
33972B	440-100759-1	M-138-20150203	440-100759-2	Water	20150203	FD21	Stage 2B	X		X				X					
33972B	440-100759-1	M-138-20150203-FD	440-100759-3	Water	20150203	FD21	Stage 2B	X		X				X					
33972B	440-100759-1	M-137-20150203	440-100759-4	Water	20150203		Stage 2B	X		X				X					
33972B	440-100759-1	M-142-20150203	440-100759-5	Water	20150203		Stage 2B	X		X				X					
33972B	440-100759-1	M-115-20150203	440-100759-6	Water	20150203		Stage 2B	X		X				X					
33972B	440-100759-1	M-76-20150203	440-100759-7	Water	20150203		Stage 2B	X		X				X					
33972B	440-100759-1	M-13-20150203-TB	440-100759-8	Water	20150203	TB	Stage 2B	X		X									
33972B	440-100759-1	M-65-20150203	440-100759-9	Water	20150203		Stage 2B	X		X	X			X					
33972B	440-100759-1	M-66-20150203	440-100759-10	Water	20150203	FD22	Stage 2B	X		X	X			X					
33972B	440-100759-1	M-66-20150203-FD	440-100759-11	Water	20150203	FD22	Stage 2B	X		X	X			X					
33972B	440-100759-1	M-25-20150203	440-100759-12	Water	20150203	FD23	Stage 2B	X		X				X					
33972B	440-100759-1	M-25-20150203-FD	440-100759-13	Water	20150203	FD23	Stage 2B	X		X				X					
33972C	440-100759-2	M-13-20150202	440-100759-1	Water	20150202		Stage 2B										X		
33972C	440-100759-2	M-138-20150203	440-100759-2	Water	20150203	FD24	Stage 2B										X		
33972C	440-100759-2	M-138-20150203-FD	440-100759-3	Water	20150203	FD24	Stage 2B										X		
33972C	440-100759-2	M-137-20150203	440-100759-4	Water	20150203		Stage 2B										X		
33972C	440-100759-2	M-142-20150203	440-100759-5	Water	20150203		Stage 2B										X		
33972C	440-100759-2	M-115-20150203	440-100759-6	Water	20150203		Stage 2B										X		
33972C	440-100759-2	M-76-20150203	440-100759-7	Water	20150203		Stage 2B										X		
33972C	440-100759-2	M-65-20150203	440-100759-9	Water	20150203		Stage 2B										X		
33972C	440-100759-2	M-66-20150203	440-100759-10	Water	20150203	FD25	Stage 2B										X		
33972C	440-100759-2	M-66-20150203-FD	440-100759-11	Water	20150203	FD25	Stage 2B										X		
33972C	440-100759-2	M-25-20150203	440-100759-12	Water	20150203	FD26	Stage 2B										X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
33972C	440-100759-2	M-25-20150203-FD	440-100759-13	Water	20150203	FD26	Stage 2B										X		
33972D	440-100881-1	M-72-20150204	440-100881-1	Water	20150204		Stage 4	X		X				X					
33972D	440-100881-1	M-71-20150204	440-100881-2	Water	20150204		Stage 4	X		X				X					
33972D	440-100881-1	M-70-20150204	440-100881-3	Water	20150204		Stage 4	X		X				X					
33972D	440-100881-1	M-58-20150204	440-100881-4	Water	20150204		Stage 4	X		X				X					
33972D	440-100881-1	HM-2-20150203	440-100881-5	Water	20150203		Stage 4							X				X	
33972D	440-100881-1	M-75-20150203	440-100881-6	Water	20150203		Stage 4	X		X				X					
33972D	440-100881-1	M-132-20150204	440-100881-7	Water	20150204		Stage 4	X		X				X					
33972D	440-100881-1	M-68-20150204	440-100881-8	Water	20150204		Stage 4	X		X				X					
33972D	440-100881-1	M-147-20150204	440-100881-9	Water	20150204		Stage 4	X		X				X					
33972D	440-100881-1	M-139-20150204	440-100881-10	Water	20150204		Stage 4	X		X				X					
33972D	440-100881-1	M-139-20150204-EB	440-100881-11	Water	20150204	EB	Stage 4	X		X					X				
33972D	440-100881-1	M-75-20150203-TB	440-100881-12	Water	20150203	TB	Stage 4	X		X									
33972E	440-100881-2	M-72-20150204	440-100881-1	Water	20150204		Stage 4										X		
33972E	440-100881-2	M-71-20150204	440-100881-2	Water	20150204		Stage 4										X		
33972E	440-100881-2	M-70-20150204	440-100881-3	Water	20150204		Stage 4										X		
33972E	440-100881-2	M-58-20150204	440-100881-4	Water	20150204		Stage 4										X		
33972E	440-100881-2	M-75-20150203	440-100881-6	Water	20150203		Stage 4										X		
33972E	440-100881-2	M-132-20150204	440-100881-7	Water	20150204		Stage 4										X		
33972E	440-100881-2	M-68-20150204	440-100881-8	Water	20150204		Stage 4										X		
33972E	440-100881-2	M-147-20150204	440-100881-9	Water	20150204		Stage 4										X		
33972E	440-100881-2	M-139-20150204	440-100881-10	Water	20150204		Stage 4										X		
33972E	440-100881-2	M-139-20150204-EB	440-100881-11	Water	20150204	EB	Stage 4										X		
34035B	440-101036-1	M-2A-20150204	440-101036-1	Water	20150204		Stage 2B	X		X				X					
34035B	440-101036-1	MC-29-20150205	440-101036-2	Water	20150205		Stage 2B	X		X				X					
34035B	440-101036-1	MC-51-20150205	440-101036-3	Water	20150205	FD27	Stage 2B	X		X				X					
34035B	440-101036-1	MC-51-20150205-FD	440-101036-4	Water	20150205	FD27	Stage 2B	X		X				X					
34035B	440-101036-1	MC-93-20150205	440-101036-5	Water	20150205		Stage 2B	X		X				X					
34035B	440-101036-1	MC-97-20150205	440-101036-6	Water	20150205		Stage 2B	X		X				X					
34035B	440-101036-1	M-23-20150205	440-101036-7	Water	20150205		Stage 2B	X		X				X					
34035B	440-101036-1	M-7B-20150205	440-101036-8	Water	20150205		Stage 2B	X		X				X					
34035B	440-101036-1	M-7B-20150205-FB	440-101036-9	Water	20150205	FB	Stage 2B	X		X					X				
34035B	440-101036-1	M-2A-20150204-TB	440-101036-10	Water	20150204	TB	Stage 2B	X		X									
34035B	440-101036-1	M-69-20150204	440-101036-11	Water	20150204		Stage 2B	X		X				X					
34035B	440-101036-1	M-55-20150205	440-101036-12	Water	20150205	FD28	Stage 4												
34035B	440-101036-1	M-55-20150205-FD	440-101036-13	Water	20150205	FD28	Stage 2B												
34035B	440-101036-1	M-55-20150205-FB	440-101036-14	Water	20150205	FB	Stage 2B												
34035B	440-101036-1	M-55-20150205-EB	440-101036-15	Water	20150205	EB	Stage 2B												

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
34035B	440-101036-1	M-134-20150205	440-101036-16	Water	20150205		Stage 2B	X		X				X					
34035B	440-101036-1	M-134-20150205-FB	440-101036-17	Water	20150205	FB	Stage 2B	X		X					X				
34035B	440-101036-1	M-134-20150205-EB	440-101036-18	Water	20150205	EB	Stage 2B	X		X					X				
34035B	440-101036-1	M-79-20150205	440-101036-19	Water	20150205		Stage 2B	X		X				X					
34035B	440-101036-1	M-135-20150205	440-101036-20	Water	20150205		Stage 2B	X		X				X					
33972G	440-101036-2	M-2A-20150204	440-101036-1	Water	20150204		Stage 2B										X		
33972G	440-101036-2	MC-29-20150205	440-101036-2	Water	20150205		Stage 2B										X		
33972G	440-101036-2	MC-51-20150205	440-101036-3	Water	20150205	FD29	Stage 2B										X		
33972G	440-101036-2	MC-51-20150205-FD	440-101036-4	Water	20150205	FD29	Stage 2B										X		
33972G	440-101036-2	MC-93-20150205	440-101036-5	Water	20150205		Stage 2B										X		
33972G	440-101036-2	MC-97-20150205	440-101036-6	Water	20150205		Stage 2B										X		
33972G	440-101036-2	M-23-20150205	440-101036-7	Water	20150205		Stage 2B										X		
33972G	440-101036-2	M-7B-20150205	440-101036-8	Water	20150205		Stage 2B										X		
33972G	440-101036-2	M-7B-20150205-FB	440-101036-9	Water	20150205	FB	Stage 2B										X		
33972G	440-101036-2	M-69-20150204	440-101036-11	Water	20150204		Stage 2B										X		
33972G	440-101036-2	M-134-20150205	440-101036-16	Water	20150205		Stage 2B										X		
33972G	440-101036-2	M-134-20150205-FB	440-101036-17	Water	20150205	FB	Stage 2B										X		
33972G	440-101036-2	M-134-20150205-EB	440-101036-18	Water	20150205	EB	Stage 2B										X		
33972G	440-101036-2	M-79-20150205	440-101036-19	Water	20150205		Stage 2B										X		
33972G	440-101036-2	M-135-20150205	440-101036-20	Water	20150205		Stage 2B										X		
33972H	440-101116-1	MW-16-20150205	440-101116-1	Water	20150205		Stage 2B	X		X				X					
33972H	440-101116-1	M-81A-20150206	440-101116-2	Water	20150206		Stage 2B	X		X				X					
33972H	440-101116-1	M-81A-20150206-FB	440-101116-3	Water	20150206	FB	Stage 2B	X		X					X				
33972H	440-101116-1	M-80-20150206	440-101116-4	Water	20150206		Stage 2B	X		X				X					
33972H	440-101116-1	M-83-20150206	440-101116-5	Water	20150206	FD30	Stage 2B	X		X				X					
33972H	440-101116-1	M-83-20150206-FD	440-101116-6	Water	20150206	FD30	Stage 2B	X		X				X					
33972H	440-101116-1	M-136-20150205-TB	440-101116-7	Water	20150205	TB	Stage 2B	X		X									
33972H	440-101116-1	M-136-20150205	440-101116-8	Water	20150205		Stage 2B	X		X				X					
33972H	440-101116-1	M-126-20150206	440-101116-9	Water	20150206	FD31	Stage 2B	X		X		X	X	X					
33972H	440-101116-1	M-126-20150206-FD	440-101116-10	Water	20150206	FD31	Stage 2B	X		X		X	X	X					
33972H	440-101116-1	M-5A-20150206	440-101116-11	Water	20150206		Stage 2B	X		X		X		X					
33972H	440-101116-1	M-5A-20150206-FB	440-101116-12	Water	20150206	FB	Stage 2B	X		X		X			X				
33972H	440-101116-1	M-57A-20150206	440-101116-13	Water	20150206	FD32	Stage 2B	X		X				X					
33972H	440-101116-1	M-57A-20150206-FD	440-101116-14	Water	20150206	FD32	Stage 2B	X		X				X					
33972H	440-101116-1	M-140-20150206	440-101116-15	Water	20150206		Stage 2B	X		X				X					
34035C	440-101116-2	MW-16-20150205	440-101116-1	Water	20150205		Stage 2B										X		
34035C	440-101116-2	M-81A-20150206	440-101116-2	Water	20150206		Stage 2B										X		
34035C	440-101116-2	M-81A-20150206-FB	440-101116-3	Water	20150206	FB	Stage 2B										X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
34035C	440-101116-2	M-80-20150206	440-101116-4	Water	20150206		Stage 2B										X		
34035C	440-101116-2	M-83-20150206	440-101116-5	Water	20150206	FD33	Stage 2B										X		
34035C	440-101116-2	M-83-20150206-FD	440-101116-6	Water	20150206	FD33	Stage 2B										X		
34035C	440-101116-2	M-136-20150205	440-101116-8	Water	20150205		Stage 2B										X		
34035C	440-101116-2	M-126-20150206	440-101116-9	Water	20150206	FD34	Stage 2B										X		
34035C	440-101116-2	M-126-20150206-FD	440-101116-10	Water	20150206	FD34	Stage 2B										X		
34035C	440-101116-2	M-5A-20150206	440-101116-11	Water	20150206		Stage 2B										X		
34035C	440-101116-2	M-5A-20150206-FB	440-101116-12	Water	20150206	FB	Stage 2B										X		
34035C	440-101116-2	M-57A-20150206	440-101116-13	Water	20150206	FD35	Stage 2B										X		
34035C	440-101116-2	M-57A-20150206-FD	440-101116-14	Water	20150206	FD35	Stage 2B										X		
34035C	440-101116-2	M-140-20150206	440-101116-15	Water	20150206		Stage 2B										X		
34035D	440-104147-1	M-190-20150310-TB	440-104147-1	Water	20150310	TB	Stage 2B	X		X									
34035D	440-104147-1	M-190-20150310	440-104147-2	Water	20150310		Stage 2B	X		X				X					
34035D	440-104147-1	M-189-20150310	440-104147-3	Water	20150310		Stage 2B	X		X				X					
34035D	440-104147-1	M-189-20150310-EB	440-104147-4	Water	20150310	EB	Stage 2B	X		X					X				
34035D	440-104147-1	M-191-20150310	440-104147-5	Water	20150310		Stage 2B	X		X				X					
34434A	440-104147-2	M-190-20150310	440-104147-2	Water	20150310		Stage 2B										X		
34434A	440-104147-2	M-189-20150310	440-104147-3	Water	20150310		Stage 2B										X		
34434A	440-104147-2	M-189-20150310-EB	440-104147-4	Water	20150310	EB	Stage 2B										X		
34434A	440-104147-2	M-191-20150310	440-104147-5	Water	20150310		Stage 2B										X		
34035E	440-104245-1	M-186D-20150311-TB	440-104245-1	Water	20150311	TB	Stage 2B	X		X									
34035E	440-104245-1	M-186D-20150311	440-104245-2	Water	20150311		Stage 2B	X		X				X					
34035E	440-104245-1	M-186D-20150311-FB	440-104245-3	Water	20150311	FB	Stage 2B	X		X					X				
34035E	440-104245-1	M-192-20150311	440-104245-4	Water	20150311		Stage 2B	X		X				X					
34035E	440-104245-1	M-193-20150311	440-104245-5	Water	20150311	FD36	Stage 2B	X		X				X					
34035E	440-104245-1	M-193-20150311-FD	440-104245-6	Water	20150311	FD36	Stage 2B	X		X				X					
34434B	440-104245-2	M-186D-20150311	440-104245-2	Water	20150311		Stage 2B										X		
34434B	440-104245-2	M-186D-20150311-FB	440-104245-3	Water	20150311	FB	Stage 2B										X		
34434B	440-104245-2	M-192-20150311	440-104245-4	Water	20150311		Stage 2B										X		
34434B	440-104245-2	M-193-20150311	440-104245-5	Water	20150311	FD37	Stage 2B										X		
34434B	440-104245-2	M-193-20150311-FD	440-104245-6	Water	20150311	FD37	Stage 2B										X		
34035F	440-104383-1	PC-159-20150311	440-104383-1	Water	20150311		Stage 2B									X			
34035F	440-104383-1	M-161D-20150312-TB	440-104383-2	Water	20150312	TB	Stage 2B	X		X									
34035F	440-104383-1	M-161D-20150312	440-104383-3	Water	20150312		Stage 2B	X		X				X					
34035F	440-104383-1	M-162D-20150312	440-104383-4	Water	20150312		Stage 2B	X		X				X					
34035F	440-104383-1	H-28-20150312	440-104383-5	Water	20150312		Stage 2B	X		X				X					
34035F	440-104383-1	PC-154-20150312	440-104383-6	Water	20150312		Stage 2B									X			
34434C	440-104383-2	M-161D-20150312	440-104383-3	Water	20150312		Stage 2B										X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
34434C	440-104383-2	M-162D-20150312	440-104383-4	Water	20150312		Stage 2B										X		
34434C	440-104383-2	H-28-20150312	440-104383-5	Water	20150312		Stage 2B										X		
34035G	440-104519-1	PC-160-20150312	440-104519-1	Water	20150312		Stage 2B									X			
34035G	440-104519-1	PC-160-20150312	440-104519-1	Water	20150312		Stage 4												
34035G	440-104519-1	PC-158-20150312	440-104519-2	Water	20150312	FD38	Stage 2B									X			
34035G	440-104519-1	PC-158-20150312-FD	440-104519-3	Water	20150312	FD38	Stage 2B									X			
34501A	440-108824-1	M-10-20150505-TB	440-108824-1	Water	20150505	TB	Stage 2B			X									
34501A	440-108824-1	M-10-20150505	440-108824-2	Water	20150505		Stage 2B			X				X					
34501A	440-108824-1	M-32-20150505	440-108824-3	Water	20150505		Stage 2B			X				X					
34501A	440-108824-1	M-33-20150505	440-108824-4	Water	20150505		Stage 2B			X				X					
34274A	440-108824-2	M-10-20150505-TB	440-108824-1	Water	20150505	TB	Stage 2B	X											
34274A	440-108824-2	M-10-20150505	440-108824-2	Water	20150505		Stage 2B	X											
34274A	440-108824-2	M-32-20150505	440-108824-3	Water	20150505		Stage 2B	X											
34274A	440-108824-2	M-33-20150505	440-108824-4	Water	20150505		Stage 2B	X											
34501B	440-108824-3	M-10-20150505	440-108824-2	Water	20150505		Stage 2B										X		
34501B	440-108824-3	M-32-20150505	440-108824-3	Water	20150505		Stage 2B										X		
34501B	440-108824-3	M-33-20150505	440-108824-4	Water	20150505		Stage 2B										X		
34501C	440-108990-1	PC-157B-20150506	440-108990-1	Water	20150506		Stage 2B							X				X	
34501C	440-108990-1	PC-157A-20150506	440-108990-2	Water	20150506		Stage 2B							X				X	
34501C	440-108990-1	PC-155B-20150506	440-108990-3	Water	20150506		Stage 2B							X				X	
34501C	440-108990-1	PC-155A-20150506	440-108990-4	Water	20150506		Stage 4							X				X	
34501C	440-108990-1	PC-156B-20150506	440-108990-5	Water	20150506		Stage 2B							X				X	
34501C	440-108990-1	PC-156B-20150506-EB	440-108990-6	Water	20150506	EB	Stage 2B								X				X
34501C	440-108990-1	PC-156A-20150506	440-108990-7	Water	20150506		Stage 2B							X				X	
34501D	440-109157-1	M-38-20150507-TB	440-109157-1	Water	20150507	TB	Stage 2B			X									
34501D	440-109157-1	M-38-20150507	440-109157-2	Water	20150507	FD40	Stage 4			X	X			X					
34501D	440-109157-1	M-38-20150507-FD	440-109157-3	Water	20150507	FD40	Stage 2B			X	X			X					
34501D	440-109157-1	M-38-20150507-FB	440-109157-4	Water	20150507	FB	Stage 2B			X	X				X				
34501D	440-109157-1	M-38-20150507-EB	440-109157-5	Water	20150507	EB	Stage 2B			X									
34501D	440-109157-1	M-186-20150507	440-109157-6	Water	20150507		Stage 2B			X									
34501E	440-109157-2	M-38-20150507	440-109157-2	Water	20150507	FD41	Stage 4										X		
34501E	440-109157-2	M-38-20150507-FD	440-109157-3	Water	20150507	FD41	Stage 2B										X		
34501E	440-109157-2	M-38-20150507-FB	440-109157-4	Water	20150507	FB	Stage 2B										X		
34274B	440-109157-3	M-38-20150507-TB	440-109157-1	Water	20150507	TB	Stage 2B	X											
34274B	440-109157-3	M-38-20150507	440-109157-2	Water	20150507	FD42	Stage 4	X											
34274B	440-109157-3	M-38-20150507-FD	440-109157-3	Water	20150507	FD42	Stage 2B	X											
34274B	440-109157-3	M-38-20150507-FB	440-109157-4	Water	20150507	FB	Stage 2B	X											
34274B	440-109157-3	M-38-20150507-EB	440-109157-5	Water	20150507	EB	Stage 2B	X											

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOCs (8260B)	Chloroform (8260B)	1,2,3-TCP & 1,4-Diox (8260B-SIM)	SVOC (8270C)	p-CBSA (8321A)	Pest. (8081A)	Dissolved Metals (200.7/200.8)	Metals (200.7/200.8)	Chromium (200.7)	Uranium (6020A)	Dissolved Hg (7470A)	Hg (7470A)
34274B	440-109157-3	M-186-20150507	440-109157-6	Water	20150507		Stage 2B	X											

Table I. Sample Cross-Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-98805-1	M-154-20150112	440-98805-1	Water	20150112		Stage 4	X	X	X	X	X	X		X		X							
440-98805-1	M-150-20150112	440-98805-2	Water	20150112		Stage 4	X	X	X	X	X	X		X		X							
440-98805-1	M-154-20150112-TB	440-98805-3	Water	20150112	TB	Stage 4																	
440-98805-1	PC-21A-20150112	440-98805-4	Water	20150112	FD1	Stage 4	X	X	X	X			X	X			X	X					
440-98805-1	PC-21A-20150112-FD	440-98805-5	Water	20150112	FD1	Stage 4	X	X	X	X			X	X			X	X					
440-98805-2	M-154-20150112	440-98805-1	Water	20150112		Stage 2B														X	X	X	X
440-98805-2	M-150-20150112	440-98805-2	Water	20150112		Stage 2B														X	X	X	X
440-98909-1	PC-40-20150113-TB	440-98909-1	Water	20150113	TB	Stage 2B																	
440-98909-1	PC-40-20150113	440-98909-2	Water	20150113		Stage 2B	X	X	X	X			X	X			X	X					
440-98909-1	PC-54-20150113	440-98909-3	Water	20150113		Stage 2B	X	X	X	X			X	X			X	X					
440-98909-1	PC-64-20150113	440-98909-4	Water	20150113		Stage 2B	X	X	X	X			X	X			X	X					
440-98909-1	PC-65-20150113	440-98909-5	Water	20150113		Stage 2B	X	X	X	X			X	X			X	X					
440-98909-1	M-161-20150113	440-98909-6	Water	20150113		Stage 2B	X	X	X	X	X	X		X		X							
440-98909-1	M-162-20150113	440-98909-7	Water	20150113		Stage 2B	X	X	X	X	X	X		X		X							
440-98909-1	PC-64-20150113-EB	440-98909-8	Water	20150113	EB	Stage 2B	X	X	X	X			X	X			X	X					
440-98909-2	M-161-20150113	440-98909-6	Water	20150113		Stage 2B														X	X	X	X
440-98909-2	M-162-20150113	440-98909-7	Water	20150113		Stage 2B														X	X	X	X
440-99061-1	TR-1-20150114	440-99061-1	Water	20150114		Stage 4	X	X	X	X	X	X		X		X							
440-99061-1	TR-2-20150114	440-99061-2	Water	20150114		Stage 2B	X	X	X	X	X	X		X		X							
440-99061-1	TR-4-20150114	440-99061-3	Water	20150114		Stage 2B	X	X	X	X	X	X		X		X							
440-99061-1	TR-5-20150114	440-99061-4	Water	20150114		Stage 2B	X	X	X	X	X	X		X		X							
440-99061-1	TR-1-20150114-TB	440-99061-5	Water	20150114	TB	Stage 2B																	
440-99061-1	PC-66-20150114	440-99061-6	Water	20150114		Stage 2B	X	X	X	X			X	X			X	X					
440-99061-1	PC-67-20150114	440-99061-7	Water	20150114		Stage 2B	X	X	X	X			X	X			X	X					
440-99061-1	PC-28-20150114	440-99061-8	Water	20150114	FD2	Stage 2B	X	X	X	X			X	X			X	X					
440-99061-1	PC-28-20150114-FB	440-99061-9	Water	20150114	FB	Stage 2B	X	X	X	X			X	X			X	X					
440-99061-1	PC-28-20150114-FD	440-99061-10	Water	20150114	FD2	Stage 2B	X	X	X	X			X	X			X	X					
440-99061-1	BHEI-10-20150114	440-99061-11	Water	20150114		Stage 2B	X	X	X	X			X	X			X	X					
440-99061-1	PC-24-20150114	440-99061-12	Water	20150114		Stage 2B	X	X	X	X			X	X			X	X					
440-99061-2	TR-1-20150114	440-99061-1	Water	20150114		Stage 2B														X	X	X	X
440-99061-2	TR-2-20150114	440-99061-2	Water	20150114		Stage 2B														X	X	X	X
440-99061-2	TR-4-20150114	440-99061-3	Water	20150114		Stage 2B														X	X	X	X
440-99061-2	TR-5-20150114	440-99061-4	Water	20150114		Stage 2B														X	X	X	X
440-99142-1	WMW5.58S-20150115	440-99142-1	Water	20150115		Stage 2B	X	X	X	X			X	X			X	X					
440-99142-1	WMW6.15S-20150115	440-99142-2	Water	20150115	FD3	Stage 2B	X	X	X	X			X	X			X	X					
440-99142-1	WMW6.15S-20150115-FD	440-99142-3	Water	20150115	FD3	Stage 2B	X	X	X	X			X	X			X	X					
440-99142-1	WMW6.15S-20150115-EB	440-99142-4	Water	20150115	EB	Stage 2B	X	X	X	X			X	X			X	X					
440-99142-1	WMW6.55S-20150115	440-99142-5	Water	20150115		Stage 2B	X	X	X	X			X	X			X	X					

Table I. Sample Cross-Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-99142-1	TR-3-20150115	440-99142-6	Water	20150115		Stage 2B	X	X	X	X	X	X		X		X							
440-99142-1	TR-11-20150115	440-99142-7	Water	20150115		Stage 2B	X	X	X	X	X	X		X		X							
440-99142-1	TR-7-20150115	440-99142-8	Water	20150115	FD4	Stage 2B	X	X	X	X	X	X		X		X							
440-99142-1	TR-6-20150115	440-99142-9	Water	20150115		Stage 2B	X	X	X	X	X	X		X		X							
440-99142-1	TR-3-20150115-TB	440-99142-10	Water	20150115	TB	Stage 2B																	
440-99142-1	TR-7-20150115-FD	440-99142-11	Water	20150115	FD4	Stage 2B	X	X	X	X	X	X		X		X							
440-99142-2	TR-3-20150115	440-99142-6	Water	20150115		Stage 2B														X	X	X	X
440-99142-2	TR-11-20150115	440-99142-7	Water	20150115		Stage 2B														X	X	X	X
440-99142-2	TR-7-20150115	440-99142-8	Water	20150115	FD5	Stage 2B														X	X	X	X
440-99142-2	TR-6-20150115	440-99142-9	Water	20150115		Stage 2B														X	X	X	X
440-99142-2	TR-7-20150115-FD	440-99142-11	Water	20150115	FD5	Stage 2B														X	X	X	X
440-99238-1	MCF-29B-20150116	440-99238-1	Water	20150116		Stage 2B	X	X	X	X			X	X			X	X					
440-99238-1	MCF-29B-20150116-FB	440-99238-2	Water	20150116	FB	Stage 2B	X	X	X	X			X	X			X	X					
440-99238-1	MCF-29A-20150116	440-99238-3	Water	20150116		Stage 2B	X	X	X	X			X	X			X	X					
440-99238-1	MCF-30B-20150116	440-99238-4	Water	20150116		Stage 2B	X	X	X	X			X	X			X	X					
440-99238-1	MCF-30A-20150116	440-99238-5	Water	20150116		Stage 2B	X	X	X	X			X	X			X	X					
440-99238-1	M-117-20150116	440-99238-6	Water	20150116		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99238-1	M-121-20150116	440-99238-7	Water	20150116		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99238-1	M-117-20150116-TB	440-99238-8	Water	20150116	TB	Stage 2B																	
440-99238-2	M-117-20150116	440-99238-6	Water	20150116		Stage 2B														X	X	X	X
440-99238-2	M-121-20150116	440-99238-7	Water	20150116		Stage 2B														X	X	X	X
440-99312-1	M-190-20150119	440-99312-1	Water	20150119	FD6	Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99312-1	M-190-20150119-FD	440-99312-2	Water	20150119	FD6	Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99312-1	M-189-20150119	440-99312-3	Water	20150119		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99312-1	M-190-20150119-TB	440-99312-4	Water	20150119	TB	Stage 2B																	
440-99312-1	M-193-20150119	440-99312-5	Water	20150119		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99312-1	PC-110-20150119	440-99312-6	Water	20150119		Stage 2B	X	X					X	X			X	X					
440-99312-2	M-190-20150119	440-99312-1	Water	20150119	FD7	Stage 2B														X	X	X	X
440-99312-2	M-190-20150119-FD	440-99312-2	Water	20150119	FD7	Stage 2B														X	X	X	X
440-99312-2	M-189-20150119	440-99312-3	Water	20150119		Stage 2B														X	X	X	X
440-99312-2	M-193-20150119	440-99312-5	Water	20150119		Stage 2B														X	X	X	X
440-99401-1	M-161D-20150119	440-99401-1	Water	20150119		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99401-1	M-161D-20150119-TB	440-99401-2	Water	20150119	TB	Stage 2B																	
440-99401-1	M-118-20150120	440-99401-3	Water	20150120		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99401-1	M-120-20150120	440-99401-4	Water	20150120		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99401-1	TR-10-20150120	440-99401-5	Water	20150120		Stage 2B	X	X	X	X	X	X		X		X							
440-99401-1	TR-9-20150120	440-99401-6	Water	20150120		Stage 2B	X	X	X	X	X	X		X		X							
440-99401-1	TR-9-20150120-FB	440-99401-7	Water	20150120	FB	Stage 2B	X	X	X	X	X	X		X		X							

Table I. Sample Cross-Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-99401-1	M-12A-20150120	440-99401-8	Water	20150120		Stage 2B	X	X	X	X	X	X		X		X							
440-99401-1	M-12A-20150120-EB	440-99401-9	Water	20150120	EB	Stage 2B	X	X	X	X	X	X		X		X							
440-99401-1	PC-108-20150120	440-99401-10	Water	20150120	FD8	Stage 2B	X	X					X	X			X	X					
440-99401-1	PC-108-20150120-FD	440-99401-11	Water	20150120	FD8	Stage 2B	X	X					X	X			X	X					
440-99401-1	HMW-15-20150120	440-99401-12	Water	20150120		Stage 2B	X	X					X	X			X	X					
440-99401-1	HMW-13-20150120	440-99401-13	Water	20150120		Stage 2B	X	X					X	X			X	X					
440-99401-1	PC-98R-20150120	440-99401-14	Water	20150120		Stage 2B	X	X					X	X			X	X					
440-99401-1	PC-103-20150120	440-99401-15	Water	20150120		Stage 2B	X	X					X	X			X	X					
440-99401-1	PC-68-20150120	440-99401-16	Water	20150120		Stage 2B	X	X					X	X			X	X					
440-99401-2	M-161D-20150119	440-99401-1	Water	20150119		Stage 2B														X	X	X	X
440-99401-2	M-118-20150120	440-99401-3	Water	20150120		Stage 2B														X	X	X	X
440-99401-2	M-120-20150120	440-99401-4	Water	20150120		Stage 2B														X	X	X	X
440-99401-2	TR-10-20150120	440-99401-5	Water	20150120		Stage 2B														X	X	X	X
440-99401-2	TR-9-20150120	440-99401-6	Water	20150120		Stage 2B														X	X	X	X
440-99401-2	TR-9-20150120-FB	440-99401-7	Water	20150120	FB	Stage 2B														X	X	X	X
440-99401-2	M-12A-20150120	440-99401-8	Water	20150120		Stage 2B														X	X	X	X
440-99401-2	M-12A-20150120-EB	440-99401-9	Water	20150120	EB	Stage 2B														X	X	X	X
440-99576-1	M-155-20150121	440-99576-1	Water	20150121		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99576-1	M-151-20150121	440-99576-2	Water	20150121		Stage 2B	X	X	X	X	X	X		X		X							
440-99576-1	M-165-20150121	440-99576-3	Water	20150121		Stage 2B	X	X	X	X	X	X		X		X							
440-99576-1	M-155-20150121-TB	440-99576-4	Water	20150121	TB	Stage 2B																	
440-99576-2	M-155-20150121	440-99576-1	Water	20150121		Stage 2B														X	X	X	X
440-99576-2	M-151-20150121	440-99576-2	Water	20150121		Stage 2B														X	X	X	X
440-99576-2	M-165-20150121	440-99576-3	Water	20150121		Stage 2B														X	X	X	X
440-99577-1	PC-60-20150121	440-99577-1	Water	20150121		Stage 2B	X	X					X	X			X	X					
440-99577-1	PC-56-20150121	440-99577-2	Water	20150121		Stage 2B	X	X					X	X			X	X					
440-99577-1	PC-58-20150121	440-99577-3	Water	20150121		Stage 2B	X	X					X	X			X	X					
440-99577-1	PC-94-20150121	440-99577-4	Water	20150121		Stage 2B	X	X					X	X			X	X					
440-99577-1	PC-59-20150120	440-99577-5	Water	20150120		Stage 2B	X	X					X	X			X	X					
440-99577-1	PC-107-20150121	440-99577-6	Water	20150121		Stage 2B	X	X					X	X			X	X					
440-99685-1	PC-2-20150122	440-99685-1	Water	20150122		Stage 2B	X	X					X	X			X	X					
440-99685-1	PC-4-20150122	440-99685-2	Water	20150122		Stage 2B	X	X					X	X			X	X					
440-99685-1	PC-132-20150122	440-99685-3	Water	20150122		Stage 2B	X	X					X	X			X	X					
440-99685-1	PC-53-20150121	440-99685-4	Water	20150121		Stage 2B	X	X					X	X			X	X					
440-99685-1	PC-127-20150122	440-99685-5	Water	20150122	FD9	Stage 2B	X	X					X	X			X	X					
440-99685-1	PC-127-20150122-FD	440-99685-6	Water	20150122	FD9	Stage 2B	X	X					X	X			X	X					
440-99685-1	PC-127-20150122-EB	440-99685-7	Water	20150122	EB	Stage 2B	X	X					X	X			X	X					
440-99685-1	PC-127-20150122-FB	440-99685-8	Water	20150122	FB	Stage 2B	X	X					X	X			X	X					

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SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-99685-1	PC-126-20150122	440-99685-9	Water	20150122		Stage 2B	X	X					X	X			X	X					
440-99685-1	M-181-20150121	440-99685-10	Water	20150121		Stage 2B	X	X	X	X	X	X		X		X							
440-99685-1	M-6A-20150122	440-99685-11	Water	20150122		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99685-1	M-6A-20150122-FB	440-99685-12	Water	20150122	FB	Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99685-1	MC-53-20150122	440-99685-13	Water	20150122	FD10	Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99685-1	MC-53-20150122-FD	440-99685-14	Water	20150122	FD10	Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99685-1	M-181-20150121-TB	440-99685-15	Water	20150121	TB	Stage 2B																	
440-99685-2	M-181-20150121	440-99685-10	Water	20150121		Stage 2B														X	X	X	X
440-99685-2	M-6A-20150122	440-99685-11	Water	20150122		Stage 2B														X	X	X	X
440-99685-2	M-6A-20150122-FB	440-99685-12	Water	20150122	FB	Stage 2B														X	X	X	X
440-99685-2	MC-53-20150122	440-99685-13	Water	20150122	FD11	Stage 2B														X	X	X	X
440-99685-2	MC-53-20150122-FD	440-99685-14	Water	20150122	FD11	Stage 2B														X	X	X	X
440-99783-1	PC-124-20150122	440-99783-1	Water	20150122		Stage 2B	X	X					X	X			X	X					
440-99783-1	PC-50-20150123	440-99783-2	Water	20150123		Stage 2B	X	X					X	X			X	X					
440-99783-1	PC-129-20150123	440-99783-3	Water	20150123		Stage 2B	X	X					X	X			X	X					
440-99783-1	PC-128-20150123	440-99783-4	Water	20150123		Stage 2B	X	X					X	X			X	X					
440-99783-1	PC-154-20150123	440-99783-5	Water	20150123		Stage 2B	X	X	X	X			X	X			X	X					
440-99783-1	PC-158-20150123	440-99783-6	Water	20150123		Stage 2B	X	X	X	X			X	X			X	X					
440-99783-1	PC-159-20150123	440-99783-7	Water	20150123		Stage 2B	X	X	X	X			X	X			X	X					
440-99783-1	PC-154-20150123-TB	440-99783-8	Water	20150123	TB	Stage 2B																	
440-99862-1	PC-160-20150126-TB	440-99862-1	Water	20150126	TB	Stage 2B																	
440-99862-1	PC-160-20150126	440-99862-2	Water	20150126		Stage 2B	X	X	X	X			X	X			X	X					
440-99862-1	PC-134D-20150126	440-99862-3	Water	20150126		Stage 2B	X	X	X	X			X	X			X	X					
440-99862-1	PC-137D-20150126	440-99862-4	Water	20150126		Stage 2B	X	X	X	X			X	X			X	X					
440-99862-1	PC-151-20150126	440-99862-5	Water	20150126	FD12	Stage 2B	X	X	X	X			X	X			X	X					
440-99862-1	PC-151-20150126-FD	440-99862-6	Water	20150126	FD12	Stage 2B	X	X	X	X			X	X			X	X					
440-99862-1	PC-153-20150126	440-99862-7	Water	20150126		Stage 2B	X	X	X	X			X	X			X	X					
440-99862-1	M-149-20150126	440-99862-8	Water	20150126		Stage 2B	X	X	X	X	X	X		X		X							
440-99862-1	M-153-20150126	440-99862-9	Water	20150126		Stage 2B	X	X	X	X	X	X		X		X							
440-99862-1	M-186-20150126	440-99862-10	Water	20150126	FD13	Stage 2B	X	X	X	X	X	X		X		X							
440-99862-1	M-186-20150126-FD	440-99862-11	Water	20150126	FD13	Stage 2B	X	X	X	X	X	X		X		X							
440-99862-2	M-149-20150126	440-99862-8	Water	20150126		Stage 2B														X	X	X	X
440-99862-2	M-153-20150126	440-99862-9	Water	20150126		Stage 2B														X	X	X	X
440-99862-2	M-186-20150126	440-99862-10	Water	20150126	FD14	Stage 2B														X	X	X	X
440-99862-2	M-186-20150126-FD	440-99862-11	Water	20150126	FD14	Stage 2B														X	X	X	X
440-99974-1	M-163-20150127	440-99974-1	Water	20150127		Stage 2B	X	X	X	X	X	X		X		X							
440-99974-1	M-125-20150127	440-99974-2	Water	20150127		Stage 4	X	X	X	X	X	X		X		X							
440-99974-1	M-123-20150127	440-99974-3	Water	20150127		Stage 2B	X	X	X	X	X	X		X		X							

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SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-99974-1	TR-8-20150127	440-99974-4	Water	20150127		Stage 2B	X	X	X	X	X	X		X		X							
440-99974-1	MC-45-20150127	440-99974-5	Water	20150127		Stage 4	X	X	X	X	X	X	X	X		X	X	X					
440-99974-1	M-186D-20150126	440-99974-6	Water	20150126		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99974-1	M-186D-20150126	440-99974-6	Water	20150126		Stage 4																	
440-99974-1	M-162D-20150127	440-99974-7	Water	20150127		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99974-1	M-162D-20150127-FB	440-99974-8	Water	20150127	FB	Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-99974-1	M-162D-20150127-FB	440-99974-8	Water	20150127	FB	Stage 4																	
440-99974-1	M-186D-20150126-TB	440-99974-9	Water	20150126	TB	Stage 2B																	
440-99974-1	PC-152-20150126	440-99974-10	Water	20150126		Stage 2B																	
440-99974-2	M-163-20150127	440-99974-1	Water	20150127		Stage 2B														X	X	X	X
440-99974-2	M-125-20150127	440-99974-2	Water	20150127		Stage 4														X	X	X	X
440-99974-2	M-123-20150127	440-99974-3	Water	20150127		Stage 2B														X	X	X	X
440-99974-2	TR-8-20150127	440-99974-4	Water	20150127		Stage 2B														X	X	X	X
440-99974-2	MC-45-20150127	440-99974-5	Water	20150127		Stage 4														X	X	X	X
440-99974-2	M-186D-20150126	440-99974-6	Water	20150126		Stage 2B														X	X	X	X
440-99974-2	M-162D-20150127	440-99974-7	Water	20150127		Stage 2B														X	X	X	X
440-99974-2	M-162D-20150127-FB	440-99974-8	Water	20150127	FB	Stage 2B														X	X	X	X
440-99974-1	PC-152-20150126	440-99974-10	Water	20150126		Stage 4	X	X	X	X			X	X			X	X					
440-100079-1	MC-50-20150127	440-100079-1	Water	20150127		Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-100079-1	MC-50-20150127-EB	440-100079-2	Water	20150127	EB	Stage 2B	X	X	X	X	X	X	X	X		X	X	X					
440-100079-1	M-141-20150128	440-100079-3	Water	20150128	FD15	Stage 2B	X	X	X	X	X	X		X		X							
440-100079-1	M-141-20150128-FD	440-100079-4	Water	20150128	FD15	Stage 2B	X	X	X	X	X	X		X		X							
440-100079-1	M-31A-20150128	440-100079-5	Water	20150128		Stage 2B	X	X	X	X	X	X		X		X							
440-100079-1	M-148A-20150128	440-100079-6	Water	20150128		Stage 2B	X	X	X	X	X	X		X		X							
440-100079-1	M-77-20150128	440-100079-7	Water	20150128		Stage 2B	X	X	X	X	X	X		X		X							
440-100079-1	M-77-20150128-FB	440-100079-8	Water	20150128	FB	Stage 2B	X	X	X	X	X	X		X		X							
440-100079-1	MC-50-20150127-TB	440-100079-9	Water	20150127	TB	Stage 2B																	
440-100079-1	M-182-20150128	440-100079-10	Water	20150128		Stage 2B	X	X	X	X	X	X		X		X							
440-100079-1	M-164-20150128	440-100079-11	Water	20150128		Stage 2B	X	X	X	X	X	X		X		X							
440-100079-2	MC-50-20150127	440-100079-1	Water	20150127		Stage 2B														X	X	X	X
440-100079-2	MC-50-20150127-EB	440-100079-2	Water	20150127	EB	Stage 2B														X	X	X	X
440-100079-2	M-141-20150128	440-100079-3	Water	20150128	FD16	Stage 2B														X	X	X	X
440-100079-2	M-141-20150128-FD	440-100079-4	Water	20150128	FD16	Stage 2B														X	X	X	X
440-100079-2	M-31A-20150128	440-100079-5	Water	20150128		Stage 2B														X	X	X	X
440-100079-2	M-148A-20150128	440-100079-6	Water	20150128		Stage 2B														X	X	X	X
440-100079-2	M-77-20150128	440-100079-7	Water	20150128		Stage 2B														X	X	X	X
440-100079-2	M-77-20150128-FB	440-100079-8	Water	20150128	FB	Stage 2B														X	X	X	X
440-100079-2	M-182-20150128	440-100079-10	Water	20150128		Stage 2B														X	X	X	X

Table I. Sample Cross-Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-100079-2	M-164-20150128	440-100079-11	Water	20150128		Stage 2B														X	X	X	X
440-100230-1	M-92-20150129	440-100230-1	Water	20150129		Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-97-20150129	440-100230-2	Water	20150129	FD17	Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-97-20150129-FD	440-100230-3	Water	20150129	FD17	Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-124-20150129	440-100230-4	Water	20150129		Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-14A-20150129	440-100230-5	Water	20150129		Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-92-20150129-TB	440-100230-6	Water	20150129	TB	Stage 2B																	
440-100230-1	M-74-20150129	440-100230-7	Water	20150129		Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-133-20150129	440-100230-8	Water	20150129		Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-73-20150129	440-100230-9	Water	20150129		Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-67-20150129	440-100230-10	Water	20150129		Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-73-20150129-EB	440-100230-11	Water	20150129	EB	Stage 2B	X	X	X	X	X	X		X		X							
440-100230-1	M-73-20150129-EB	440-100230-11	Water	20150129	EB	Stage 4																	
440-100230-2	M-92-20150129	440-100230-1	Water	20150129		Stage 2B														X	X	X	X
440-100230-2	M-97-20150129	440-100230-2	Water	20150129	FD18	Stage 2B														X	X	X	X
440-100230-2	M-97-20150129-FD	440-100230-3	Water	20150129	FD18	Stage 2B														X	X	X	X
440-100230-2	M-124-20150129	440-100230-4	Water	20150129		Stage 2B														X	X	X	X
440-100230-2	M-14A-20150129	440-100230-5	Water	20150129		Stage 2B														X	X	X	X
440-100230-2	M-74-20150129	440-100230-7	Water	20150129		Stage 2B														X	X	X	X
440-100230-2	M-133-20150129	440-100230-8	Water	20150129		Stage 2B														X	X	X	X
440-100230-2	M-73-20150129	440-100230-9	Water	20150129		Stage 2B														X	X	X	X
440-100230-2	M-67-20150129	440-100230-10	Water	20150129		Stage 2B														X	X	X	X
440-100230-2	M-73-20150129-EB	440-100230-11	Water	20150129	EB	Stage 2B														X	X	X	X
440-100386-1	M-37-20150129	440-100386-1	Water	20150129		Stage 2B	X	X	X	X	X	X		X		X							
440-100386-1	M-128-20150130	440-100386-2	Water	20150130		Stage 2B	X	X	X	X	X	X		X		X							
440-100386-1	M-37-20150129-TB	440-100386-3	Water	20150129	TB	Stage 2B																	
440-100386-1	M-35-20150129	440-100386-4	Water	20150129	FD19	Stage 2B	X	X	X	X	X	X		X		X							
440-100386-1	M-35-20150129-FD	440-100386-5	Water	20150129	FD19	Stage 2B	X	X	X	X	X	X		X		X							
440-100386-1	M-146-20150130	440-100386-6	Water	20150130		Stage 2B	X	X	X	X	X	X		X		X							
440-100386-1	M-11-20150130	440-100386-7	Water	20150130		Stage 2B	X	X	X	X	X	X		X		X							
440-100386-1	M-52-20150130	440-100386-8	Water	20150130		Stage 2B	X	X	X	X	X	X		X		X							
440-100386-2	M-37-20150129	440-100386-1	Water	20150129		Stage 2B														X	X	X	X
440-100386-2	M-128-20150130	440-100386-2	Water	20150130		Stage 2B														X	X	X	X
440-100386-2	M-35-20150129	440-100386-4	Water	20150129	FD20	Stage 2B														X	X	X	X
440-100386-2	M-35-20150129-FD	440-100386-5	Water	20150129	FD20	Stage 2B														X	X	X	X
440-100386-2	M-146-20150130	440-100386-6	Water	20150130		Stage 2B														X	X	X	X
440-100386-2	M-11-20150130	440-100386-7	Water	20150130		Stage 2B														X	X	X	X
440-100386-2	M-52-20150130	440-100386-8	Water	20150130		Stage 2B														X	X	X	X

Table I. Sample Cross-Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-100558-1	M-64-20150202	440-100558-1	Water	20150202		Stage 4	X	X	X	X	X	X		X		X							
440-100558-1	M-22A-20150202	440-100558-2	Water	20150202		Stage 4	X	X	X	X	X	X		X		X							
440-100558-1	MC-3-20150202	440-100558-3	Water	20150202		Stage 4																	
440-100558-1	M-191-20150202	440-100558-4	Water	20150202		Stage 4	X	X	X	X	X	X	X	X		X	X	X					
440-100558-1	M-191-20150202-EB	440-100558-5	Water	20150202	EB	Stage 4	X	X	X	X	X	X	X	X		X	X	X					
440-100558-1	M-192-20150202	440-100558-6	Water	20150202		Stage 4	X	X	X	X	X	X	X	X		X	X	X					
440-100558-1	M-144-20150202	440-100558-7	Water	20150202		Stage 4	X	X	X	X	X	X		X		X							
440-100558-1	M-144-20150202-TB	440-100558-8	Water	20150202	TB	Stage 4																	
440-100558-2	M-64-20150202	440-100558-1	Water	20150202		Stage 4														X	X	X	X
440-100558-2	M-22A-20150202	440-100558-2	Water	20150202		Stage 4														X	X	X	X
440-100558-2	M-191-20150202	440-100558-4	Water	20150202		Stage 4														X	X	X	X
440-100558-2	M-191-20150202-EB	440-100558-5	Water	20150202	EB	Stage 4														X	X	X	X
440-100558-2	M-192-20150202	440-100558-6	Water	20150202		Stage 4														X	X	X	X
440-100558-2	M-144-20150202	440-100558-7	Water	20150202		Stage 4														X	X	X	X
440-100759-1	M-13-20150202	440-100759-1	Water	20150202		Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-138-20150203	440-100759-2	Water	20150203	FD21	Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-138-20150203-FD	440-100759-3	Water	20150203	FD21	Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-137-20150203	440-100759-4	Water	20150203		Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-142-20150203	440-100759-5	Water	20150203		Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-115-20150203	440-100759-6	Water	20150203		Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-76-20150203	440-100759-7	Water	20150203		Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-13-20150203-TB	440-100759-8	Water	20150203	TB	Stage 2B																	
440-100759-1	M-65-20150203	440-100759-9	Water	20150203		Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-66-20150203	440-100759-10	Water	20150203	FD22	Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-66-20150203-FD	440-100759-11	Water	20150203	FD22	Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-25-20150203	440-100759-12	Water	20150203	FD23	Stage 2B	X	X	X	X	X	X		X		X							
440-100759-1	M-25-20150203-FD	440-100759-13	Water	20150203	FD23	Stage 2B	X	X	X	X	X	X		X		X							
440-100759-2	M-13-20150202	440-100759-1	Water	20150202		Stage 2B														X	X	X	X
440-100759-2	M-138-20150203	440-100759-2	Water	20150203	FD24	Stage 2B														X	X	X	X
440-100759-2	M-138-20150203-FD	440-100759-3	Water	20150203	FD24	Stage 2B														X	X	X	X
440-100759-2	M-137-20150203	440-100759-4	Water	20150203		Stage 2B														X	X	X	X
440-100759-2	M-142-20150203	440-100759-5	Water	20150203		Stage 2B														X	X	X	X
440-100759-2	M-115-20150203	440-100759-6	Water	20150203		Stage 2B														X	X	X	X
440-100759-2	M-76-20150203	440-100759-7	Water	20150203		Stage 2B														X	X	X	X
440-100759-2	M-65-20150203	440-100759-9	Water	20150203		Stage 2B														X	X	X	X
440-100759-2	M-66-20150203	440-100759-10	Water	20150203	FD25	Stage 2B														X	X	X	X
440-100759-2	M-66-20150203-FD	440-100759-11	Water	20150203	FD25	Stage 2B														X	X	X	X
440-100759-2	M-25-20150203	440-100759-12	Water	20150203	FD26	Stage 2B														X	X	X	X

Table I. Sample Cross-Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-100759-2	M-25-20150203-FD	440-100759-13	Water	20150203	FD26	Stage 2B														X	X	X	X
440-100881-1	M-72-20150204	440-100881-1	Water	20150204		Stage 4	X	X	X	X	X	X		X		X							
440-100881-1	M-71-20150204	440-100881-2	Water	20150204		Stage 4	X	X	X	X	X	X		X		X							
440-100881-1	M-70-20150204	440-100881-3	Water	20150204		Stage 4	X		X	X	X	X		X		X							
440-100881-1	M-58-20150204	440-100881-4	Water	20150204		Stage 4	X	X	X	X	X	X		X		X							
440-100881-1	HM-2-20150203	440-100881-5	Water	20150203		Stage 4	X	X				X	X	X			X	X					
440-100881-1	M-75-20150203	440-100881-6	Water	20150203		Stage 4	X	X	X	X	X	X		X		X							
440-100881-1	M-132-20150204	440-100881-7	Water	20150204		Stage 4	X	X	X	X	X	X		X		X							
440-100881-1	M-68-20150204	440-100881-8	Water	20150204		Stage 4	X	X	X	X	X	X		X		X							
440-100881-1	M-147-20150204	440-100881-9	Water	20150204		Stage 4	X	X	X	X	X	X		X		X							
440-100881-1	M-139-20150204	440-100881-10	Water	20150204		Stage 4	X	X	X	X	X	X		X		X							
440-100881-1	M-139-20150204-EB	440-100881-11	Water	20150204	EB	Stage 4	X	X	X	X	X	X		X		X							
440-100881-1	M-75-20150203-TB	440-100881-12	Water	20150203	TB	Stage 4																	
440-100881-2	M-72-20150204	440-100881-1	Water	20150204		Stage 4														X	X	X	X
440-100881-2	M-71-20150204	440-100881-2	Water	20150204		Stage 4														X	X	X	X
440-100881-2	M-70-20150204	440-100881-3	Water	20150204		Stage 4														X	X	X	X
440-100881-2	M-58-20150204	440-100881-4	Water	20150204		Stage 4														X	X	X	X
440-100881-2	M-75-20150203	440-100881-6	Water	20150203		Stage 4														X	X	X	X
440-100881-2	M-132-20150204	440-100881-7	Water	20150204		Stage 4														X	X	X	X
440-100881-2	M-68-20150204	440-100881-8	Water	20150204		Stage 4														X	X	X	X
440-100881-2	M-147-20150204	440-100881-9	Water	20150204		Stage 4														X	X	X	X
440-100881-2	M-139-20150204	440-100881-10	Water	20150204		Stage 4														X	X	X	X
440-100881-2	M-139-20150204-EB	440-100881-11	Water	20150204	EB	Stage 4														X	X	X	X
440-101036-1	M-2A-20150204	440-101036-1	Water	20150204		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	MC-29-20150205	440-101036-2	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	MC-51-20150205	440-101036-3	Water	20150205	FD27	Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	MC-51-20150205-FD	440-101036-4	Water	20150205	FD27	Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	MC-93-20150205	440-101036-5	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	MC-97-20150205	440-101036-6	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	M-23-20150205	440-101036-7	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	M-7B-20150205	440-101036-8	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	M-7B-20150205-FB	440-101036-9	Water	20150205	FB	Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	M-2A-20150204-TB	440-101036-10	Water	20150204	TB	Stage 2B																	
440-101036-1	M-69-20150204	440-101036-11	Water	20150204		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	M-55-20150205	440-101036-12	Water	20150205	FD28	Stage 4									X								
440-101036-1	M-55-20150205-FD	440-101036-13	Water	20150205	FD28	Stage 2B									X								
440-101036-1	M-55-20150205-FB	440-101036-14	Water	20150205	FB	Stage 2B									X								
440-101036-1	M-55-20150205-EB	440-101036-15	Water	20150205	EB	Stage 2B									X								

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SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-101036-1	M-134-20150205	440-101036-16	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	M-134-20150205-FB	440-101036-17	Water	20150205	FB	Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	M-134-20150205-EB	440-101036-18	Water	20150205	EB	Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	M-79-20150205	440-101036-19	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-1	M-135-20150205	440-101036-20	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101036-2	M-2A-20150204	440-101036-1	Water	20150204		Stage 2B														X	X	X	X
440-101036-2	MC-29-20150205	440-101036-2	Water	20150205		Stage 2B														X	X	X	X
440-101036-2	MC-51-20150205	440-101036-3	Water	20150205	FD29	Stage 2B														X	X	X	X
440-101036-2	MC-51-20150205-FD	440-101036-4	Water	20150205	FD29	Stage 2B														X	X	X	X
440-101036-2	MC-93-20150205	440-101036-5	Water	20150205		Stage 2B														X	X	X	X
440-101036-2	MC-97-20150205	440-101036-6	Water	20150205		Stage 2B														X	X	X	X
440-101036-2	M-23-20150205	440-101036-7	Water	20150205		Stage 2B														X	X	X	X
440-101036-2	M-7B-20150205	440-101036-8	Water	20150205		Stage 2B														X	X	X	X
440-101036-2	M-7B-20150205-FB	440-101036-9	Water	20150205	FB	Stage 2B														X	X	X	X
440-101036-2	M-69-20150204	440-101036-11	Water	20150204		Stage 2B														X	X	X	X
440-101036-2	M-134-20150205	440-101036-16	Water	20150205		Stage 2B														X	X	X	X
440-101036-2	M-134-20150205-FB	440-101036-17	Water	20150205	FB	Stage 2B														X	X	X	X
440-101036-2	M-134-20150205-EB	440-101036-18	Water	20150205	EB	Stage 2B														X	X	X	X
440-101036-2	M-79-20150205	440-101036-19	Water	20150205		Stage 2B														X	X	X	X
440-101036-2	M-135-20150205	440-101036-20	Water	20150205		Stage 2B														X	X	X	X
440-101116-1	MW-16-20150205	440-101116-1	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-81A-20150206	440-101116-2	Water	20150206		Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-81A-20150206-FB	440-101116-3	Water	20150206	FB	Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-80-20150206	440-101116-4	Water	20150206		Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-83-20150206	440-101116-5	Water	20150206	FD30	Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-83-20150206-FD	440-101116-6	Water	20150206	FD30	Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-136-20150205-TB	440-101116-7	Water	20150205	TB	Stage 2B																	
440-101116-1	M-136-20150205	440-101116-8	Water	20150205		Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-126-20150206	440-101116-9	Water	20150206	FD31	Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-126-20150206-FD	440-101116-10	Water	20150206	FD31	Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-5A-20150206	440-101116-11	Water	20150206		Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-5A-20150206-FB	440-101116-12	Water	20150206	FB	Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-57A-20150206	440-101116-13	Water	20150206	FD32	Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-57A-20150206-FD	440-101116-14	Water	20150206	FD32	Stage 2B	X	X	X	X	X	X		X		X							
440-101116-1	M-140-20150206	440-101116-15	Water	20150206		Stage 2B	X	X	X	X	X	X		X		X							
440-101116-2	MW-16-20150205	440-101116-1	Water	20150205		Stage 2B														X	X	X	X
440-101116-2	M-81A-20150206	440-101116-2	Water	20150206		Stage 2B														X	X	X	X
440-101116-2	M-81A-20150206-FB	440-101116-3	Water	20150206	FB	Stage 2B														X	X	X	X

Table I. Sample Cross-Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-101116-2	M-80-20150206	440-101116-4	Water	20150206		Stage 2B														X	X	X	X
440-101116-2	M-83-20150206	440-101116-5	Water	20150206	FD33	Stage 2B														X	X	X	X
440-101116-2	M-83-20150206-FD	440-101116-6	Water	20150206	FD33	Stage 2B														X	X	X	X
440-101116-2	M-136-20150205	440-101116-8	Water	20150205		Stage 2B														X	X	X	X
440-101116-2	M-126-20150206	440-101116-9	Water	20150206	FD34	Stage 2B														X	X	X	X
440-101116-2	M-126-20150206-FD	440-101116-10	Water	20150206	FD34	Stage 2B														X	X	X	X
440-101116-2	M-5A-20150206	440-101116-11	Water	20150206		Stage 2B														X	X	X	X
440-101116-2	M-5A-20150206-FB	440-101116-12	Water	20150206	FB	Stage 2B														X	X	X	X
440-101116-2	M-57A-20150206	440-101116-13	Water	20150206	FD35	Stage 2B														X	X	X	X
440-101116-2	M-57A-20150206-FD	440-101116-14	Water	20150206	FD35	Stage 2B														X	X	X	X
440-101116-2	M-140-20150206	440-101116-15	Water	20150206		Stage 2B														X	X	X	X
440-104147-1	M-190-20150310-TB	440-104147-1	Water	20150310	TB	Stage 2B																	
440-104147-1	M-190-20150310	440-104147-2	Water	20150310		Stage 2B	X	X	X	X	X	X		X		X							
440-104147-1	M-189-20150310	440-104147-3	Water	20150310		Stage 2B	X	X	X	X	X	X		X		X							
440-104147-1	M-189-20150310-EB	440-104147-4	Water	20150310	EB	Stage 2B	X	X	X	X	X	X		X		X							
440-104147-1	M-191-20150310	440-104147-5	Water	20150310		Stage 2B	X	X	X	X	X	X		X		X							
440-104147-2	M-190-20150310	440-104147-2	Water	20150310		Stage 2B														X	X	X	X
440-104147-2	M-189-20150310	440-104147-3	Water	20150310		Stage 2B														X	X	X	X
440-104147-2	M-189-20150310-EB	440-104147-4	Water	20150310	EB	Stage 2B														X	X	X	X
440-104147-2	M-191-20150310	440-104147-5	Water	20150310		Stage 2B														X	X	X	X
440-104245-1	M-186D-20150311-TB	440-104245-1	Water	20150311	TB	Stage 2B																	
440-104245-1	M-186D-20150311	440-104245-2	Water	20150311		Stage 2B	X	X	X	X	X	X		X		X							
440-104245-1	M-186D-20150311-FB	440-104245-3	Water	20150311	FB	Stage 2B	X	X	X	X	X	X		X		X							
440-104245-1	M-192-20150311	440-104245-4	Water	20150311		Stage 2B	X	X	X	X	X	X		X		X							
440-104245-1	M-193-20150311	440-104245-5	Water	20150311	FD36	Stage 2B	X	X	X	X	X	X		X		X							
440-104245-1	M-193-20150311-FD	440-104245-6	Water	20150311	FD36	Stage 2B	X	X	X	X	X	X		X		X							
440-104245-2	M-186D-20150311	440-104245-2	Water	20150311		Stage 2B														X	X	X	X
440-104245-2	M-186D-20150311-FB	440-104245-3	Water	20150311	FB	Stage 2B														X	X	X	X
440-104245-2	M-192-20150311	440-104245-4	Water	20150311		Stage 2B														X	X	X	X
440-104245-2	M-193-20150311	440-104245-5	Water	20150311	FD37	Stage 2B														X	X	X	X
440-104245-2	M-193-20150311-FD	440-104245-6	Water	20150311	FD37	Stage 2B														X	X	X	X
440-104383-1	PC-159-20150311	440-104383-1	Water	20150311		Stage 2B			X	X				X					X				
440-104383-1	M-161D-20150312-TB	440-104383-2	Water	20150312	TB	Stage 2B																	
440-104383-1	M-161D-20150312	440-104383-3	Water	20150312		Stage 2B	X	X	X	X	X	X		X		X							
440-104383-1	M-162D-20150312	440-104383-4	Water	20150312		Stage 2B	X	X	X	X	X	X		X		X							
440-104383-1	H-28-20150312	440-104383-5	Water	20150312		Stage 2B	X	X	X	X	X	X		X		X							
440-104383-1	PC-154-20150312	440-104383-6	Water	20150312		Stage 2B			X	X				X					X				
440-104383-2	M-161D-20150312	440-104383-3	Water	20150312		Stage 2B														X	X	X	X

Table I. Sample Cross-Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-104383-2	M-162D-20150312	440-104383-4	Water	20150312		Stage 2B														X	X	X	X
440-104383-2	H-28-20150312	440-104383-5	Water	20150312		Stage 2B														X	X	X	X
440-104519-1	PC-160-20150312	440-104519-1	Water	20150312		Stage 2B																	
440-104519-1	PC-160-20150312	440-104519-1	Water	20150312		Stage 4				X				X					X				
440-104519-1	PC-158-20150312	440-104519-2	Water	20150312	FD38	Stage 2B				X				X					X				
440-104519-1	PC-158-20150312-FD	440-104519-3	Water	20150312	FD38	Stage 2B				X				X					X				
440-108824-1	M-10-20150505-TB	440-108824-1	Water	20150505	TB	Stage 2B																	
440-108824-1	M-10-20150505	440-108824-2	Water	20150505		Stage 2B	X	X	X	X	X	X		X		X							
440-108824-1	M-32-20150505	440-108824-3	Water	20150505		Stage 2B	X	X	X	X	X	X		X		X							
440-108824-1	M-33-20150505	440-108824-4	Water	20150505		Stage 2B	X	X	X	X	X	X		X		X							
440-108824-2	M-10-20150505-TB	440-108824-1	Water	20150505	TB	Stage 2B																	
440-108824-2	M-10-20150505	440-108824-2	Water	20150505		Stage 2B																	
440-108824-2	M-32-20150505	440-108824-3	Water	20150505		Stage 2B																	
440-108824-2	M-33-20150505	440-108824-4	Water	20150505		Stage 2B																	
440-108824-3	M-10-20150505	440-108824-2	Water	20150505		Stage 2B														X	X	X	X
440-108824-3	M-32-20150505	440-108824-3	Water	20150505		Stage 2B														X	X	X	X
440-108824-3	M-33-20150505	440-108824-4	Water	20150505		Stage 2B														X	X	X	X
440-108990-1	PC-157B-20150506	440-108990-1	Water	20150506		Stage 2B	X	X	X	X			X	X			X	X					
440-108990-1	PC-157A-20150506	440-108990-2	Water	20150506		Stage 2B	X	X	X	X			X	X			X	X					
440-108990-1	PC-155B-20150506	440-108990-3	Water	20150506		Stage 2B	X	X	X	X			X	X			X	X					
440-108990-1	PC-155A-20150506	440-108990-4	Water	20150506		Stage 4	X	X	X	X			X	X			X	X					
440-108990-1	PC-156B-20150506	440-108990-5	Water	20150506		Stage 2B	X	X	X	X			X	X			X	X					
440-108990-1	PC-156B-20150506-EB	440-108990-6	Water	20150506	EB	Stage 2B	X	X	X	X			X	X			X	X					
440-108990-1	PC-156A-20150506	440-108990-7	Water	20150506		Stage 2B	X	X	X	X			X	X			X	X					
440-109157-1	M-38-20150507-TB	440-109157-1	Water	20150507	TB	Stage 2B																	
440-109157-1	M-38-20150507	440-109157-2	Water	20150507	FD40	Stage 4	X	X	X	X	X	X		X		X							
440-109157-1	M-38-20150507-FD	440-109157-3	Water	20150507	FD40	Stage 2B	X	X	X	X	X	X		X		X							
440-109157-1	M-38-20150507-FB	440-109157-4	Water	20150507	FB	Stage 2B	X	X	X	X	X	X		X		X							
440-109157-1	M-38-20150507-EB	440-109157-5	Water	20150507	EB	Stage 2B																	
440-109157-1	M-186-20150507	440-109157-6	Water	20150507		Stage 2B																	
440-109157-2	M-38-20150507	440-109157-2	Water	20150507	FD41	Stage 4														X	X	X	X
440-109157-2	M-38-20150507-FD	440-109157-3	Water	20150507	FD41	Stage 2B														X	X	X	X
440-109157-2	M-38-20150507-FB	440-109157-4	Water	20150507	FB	Stage 2B														X	X	X	X
440-109157-3	M-38-20150507-TB	440-109157-1	Water	20150507	TB	Stage 2B																	
440-109157-3	M-38-20150507	440-109157-2	Water	20150507	FD42	Stage 4																	
440-109157-3	M-38-20150507-FD	440-109157-3	Water	20150507	FD42	Stage 2B																	
440-109157-3	M-38-20150507-FB	440-109157-4	Water	20150507	FB	Stage 2B																	
440-109157-3	M-38-20150507-EB	440-109157-5	Water	20150507	EB	Stage 2B																	

Table I. Sample Cross-Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Anions (300.0)	NO_3/NO_2-N (Calc)	ClO_3 (300.1B)	ClO_4 (314.0)	P (365.3)	Cr^{6+} (218.6)	Alk. (2320B)	TDS (2540C)	CN (4500-CN-E)	NH_3-N (4500-NH3 D)	TOC (5310B)	S= (9034)	Ph (9040C)	Ra-226 (903.0)	Ra-228 (904.0)	Iso. U (A-01-R)	Iso. Th (A-01-R)
440-109157-3	M-186-20150507	440-109157-6	Water	20150507		Stage 2B																	

Table II. Stage 2B & Stage 4 Validation Elements

Quality Control Elements	Stage 2B					
	GC/MS[1]	GC[2]	LC/MS[3]	Metals	Wet Chemistry	Rad[4]
Sample Receipt & Technical Holding Time	√	√	√	√	√	√
Instrument Performance Check	√	√	**N/A**	√	√	√
Initial Calibration (ICAL)	√	√	√	√	√	√
Initial Calibration Verification (ICV)	√	√	√	√	√	√
Continuing Calibration Verification (CCV)	√	√	√	√	√	√
Laboratory Blanks	√	√	√	√	√	√
Initial Calibration Blank and Continuing Calibration Blank (ICB/CCB)	**N/A**	**N/A**	**N/A**	√	√	**N/A**
Field Blanks	√	√	√	√	√	√
Inductively Coupled Plasma (ICP) Interference Check Sample	**N/A**	**N/A**	**N/A**	√	**N/A**	**N/A**
Surrogate Spikes/ Carrier Recovery	√	√	√	**N/A**	√	√
Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)	√	√	√	√	√	√
Laboratory Duplicate (DUP)	**N/A**	**N/A**	**N/A**	**N/A**	√	√
Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD)	√	√	√	√	√	√
Serial Dilution	**N/A**	**N/A**	**N/A**	√	**N/A**	**N/A**
Internal Standards	√	**N/A**	**N/A**	√	**N/A**	**N/A**
Field Duplicate	√	√	√	√	√	√
RPD Between Two Columns	**N/A**	√	**N/A**	**N/A**	**N/A**	**N/A**
Project Quantitation Limits (QL)[5]	√	√	√	√	√	√
Multiple Results for One Sample	√	√	√	√	√	√
Target Compound Identification	-	-	-	-	-	-
Compound Quantitation/ Sample Result Verification	-	-	-	-	-	-
System Performance[6]	-	-	-	-	-	-
Overall Data Usability Assessment	√	√	√	√	√	√

√ = Reviewed for Stage 2B review
N/A = Not applicable to method or not performed during this sampling event
- = Not applicable for Stage 2B review
[1]GC/MS = VOCs, 1,2,3-trichloropropane & 1,4-Dioxane, and SVOCs
[2]GC = Chlorinated Pesticides
[3]LC/MS = p-CBSA
[4]Rad = Radium-226, Radium-228, Isotopic Uranium, and Isotopic Thorium
[5]PQLs verified for GC/MS, GC, LC/MS, Metals, and Wet Chemistry methods. For Rad, Minimum Detectable Activity (MDA).
[6]System performance is a thorough review of the data acquisition that can yield indicators of degrading instrument performance affecting quality of data.

Table II. Stage 2B & Stage 4 Validation Elements

Quality Control Elements	Stage 4					
	GC/MS[1]	GC[2]	LC/MS[3]	Metals	Wet Chemistry	Rad[4]
Sample Receipt & Technical Holding Time	√	√	√	√	√	√
Instrument Performance Check	√	√	**N/A**	√	√	√
Initial Calibration (ICAL)	√	√	√	√	√	√
Initial Calibration Verification (ICV)	√	√	√	√	√	√
Continuing Calibration Verification (CCV)	√	√	√	√	√	√
Laboratory Blanks	√	√	√	√	√	√
Initial Calibration Blank and Continuing Calibration Blank (ICB/CCB)	**N/A**	**N/A**	**N/A**	√	√	**N/A**
Field Blanks	√	√	√	√	√	√
Inductively Coupled Plasma (ICP) Interference Check Sample	**N/A**	**N/A**	**N/A**	√	**N/A**	**N/A**
Surrogate Spikes/ Carrier Recovery	√	√	√	**N/A**	√	√
Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)	√	√	√	√	√	√
Laboratory Duplicate (DUP)	**N/A**	**N/A**	**N/A**	**N/A**	√	√
Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD)	√	√	√	√	√	√
Serial Dilution	**N/A**	**N/A**	**N/A**	√	**N/A**	**N/A**
Internal Standards	√	**N/A**	**N/A**	√	**N/A**	**N/A**
Field Duplicate	√	√	√	√	√	√
RPD Between Two Columns	**N/A**	√	**N/A**	**N/A**	**N/A**	**N/A**
Project Quantitation Limits (QL)[5]	√	√	√	√	√	√
Multiple Results for One Sample	√	√	√	√	√	√
Target Compound Identification	√	√	√	**N/A**	**N/A**	**N/A**
Compound Quantitation/ Sample Result Verification	√	√	√	√	√	√
System Performance[6]	√	**N/A**	√	**N/A**	**N/A**	**N/A**
Overall Data Usability Assessment	√	√	√	√	√	√

√ = Reviewed for Stage 2B review
N/A = Not applicable to method or not performed during this sampling event
- = Not applicable for Stage 2B review
[1]GC/MS = VOCs, 1,2,3-trichloropropane & 1,4-Dioxane, and SVOCs
[2]GC = Chlorinated Pesticides
[3]LC/MS =p-CBSA
[4]Rad = Radium-226, Radium-228, Isotopic Uranium, and Isotopic Thorium
[5]PQLs verified for GC/MS, GC, LC/MS, Metals, and Wet Chemistry methods. For Rad, Minimum Detectable Activity (MDA).
[6]System performance is a thorough review of the data acquisition that can yield indicators of degrading instrument performance affecting quality of data.

Table III. Stage 2B & Stage 4 Validation Percentage

Parameter	Stage 2B	Stage 4	Total	Stage 2B (%)	Stage 4 (%)
VOCs	173	27	200	87	13
1,2,3-TCP & 1,4-Dioxane	161	24	185	87	13
SVOCs	13	5	18	72	28
p-CBSA	12	4	16	75	25
Chlorinated Pesticides	12	4	16	75	25
Dissolved Metals (200.7/200.8)	170	24	194	88	12
Metals (200.7/200.8)	26	3	29	90	10
Metals (200.8)	21	3	24	87	13
Uranium (6020A)	130	19	149	87	13
Dissolved Mercury	73	8	81	90	10
Mercury	9	2	11	82	18
Anions	191	27	218	88	12
Nitrate/Nitrite as Nitrogen	191	26	217	88	12
Chlorate	166	26	192	86	14
Perchlorate	168	27	195	86	14
Phosphorous	127	22	149	85	15
Hexavalent Chromium	127	23	150	85	15
Alkalinity	83	9	92	90	10
TDS	195	28	223	87	13
Cyanide	3	1	4	75	25
Ammonia as Nitrogen	127	22	149	85	15
DOC	83	9	92	90	10
Sulfide	83	9	92	90	10
pH	4	1	5	80	20
Radium-226	130	19	149	87	13
Radium-228	130	19	149	87	13
Isotopic Uranium	130	19	149	87	13
Isotopic Thorium	130	19	149	87	13

Table IV. Reason Codes and Definitions

Reason Code	Explanation
a	qualified due to low abundance (radiochemical activity)
be	qualified due to equipment blank contamination
bf	qualified due to field blank contamination
bl	qualified due to lab blank contamination
bt	qualified due to trip blank contamination
bp	qualified due to pump blank contamination (wells w/o dedicated pumps, when contamination is detected in the Pump Blk)
br	qualified due to filter blank contamination (aqueous Hexavalent Chromium and Dissolved sample fractions)
c	qualified due to calibration problems
cp	qualified due to insufficient ingrowth (radiochemical only)
dc	dual column confirmation %D exceeded
e	concentration exceeded the calibration range
fd	qualified due to field duplicate imprecision
h	qualified due to holding time exceedance
i	qualified due to internal standard areas
k	qualified as Estimated Maximum Possible Concentrations (dioxins and PCB congeners)
l	qualified due to LCS recoveries
ld	qualified due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
m	qualified due to matrix spike recoveries
nb	qualified due to negative lab blank contamination (nondetect results only)
nd	qualified due to non-detected target analyte
o	other
p	qualified as a false positive due to contamination during shipping
pH	sample preservation not within acceptance range
q	qualified due to quantitation problem
s	qualified due to surrogate recoveries
sd	serial dilution did not meet control criteria
sp	detected value reported >SQL <PQL
st	sample receipt temperature exceeded
t	qualified due to elevated helium tracer concentrations
vh	volatile headspace detected in aqueous sample containers submitted for VOC analysis
x	qualified due to low % solids
z	qualified due to ICS results

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-98805-1	M-154-20150112-TB	1/12/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-98805-2	M-154-20150112	1/12/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-98805-2	M-150-20150112	1/12/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-98909-1	PC-40-20150113-TB	1/13/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-98909-1	PC-40-20150113	1/13/2015	8260B	67-66-3	Chloroform	0.96		0.25	0.50	ug/l	J-	vh
440-98909-1	PC-64-20150113-EB	1/13/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-98909-2	M-161-20150113	1/13/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-98909-2	M-162-20150113	1/13/2015	8260B	75-25-2	Bromoform	0.40	J	0.40	1.0	ug/l	J	sp
440-98909-2	M-162-20150113	1/13/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99061-1	TR-1-20150114-TB	1/14/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99061-2	TR-1-20150114	1/14/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99061-2	TR-2-20150114	1/14/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99061-2	TR-4-20150114	1/14/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99061-2	TR-4-20150114	1/14/2015	8260B	67-66-3	Chloroform	0.36	J	0.25	0.50	ug/l	J	sp
440-99061-2	TR-5-20150114	1/14/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99142-1	TR-3-20150115-TB	1/15/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99142-2	TR-3-20150115	1/15/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99142-2	TR-6-20150115	1/15/2015	8260B	75-71-8	Dichlorodifluoromethane		U	5.0	10	ug/l	UJ	c
440-99142-2	TR-7-20150115-FD	1/15/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99142-2	TR-7-20150115	1/15/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99142-2	TR-11-20150115	1/15/2015	8260B	87-68-3	Hexachlorobutadiene	0.30	J	0.25	0.50	ug/l	J	sp
440-99142-2	TR-11-20150115	1/15/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99238-1	M-117-20150116-TB	1/16/2015	8260B	107-06-2	1,2-Dichloroethane		U	0.25	0.50	ug/l	UJ	c
440-99238-1	M-117-20150116-TB	1/16/2015	8260B	74-97-5	Bromochloromethane		U	0.25	0.50	ug/l	UJ	c
440-99238-2	M-117-20150116	1/16/2015	8260B	74-97-5	Bromochloromethane		U	0.25	0.50	ug/l	UJ	c
440-99238-2	M-117-20150116	1/16/2015	8260B	107-06-2	1,2-Dichloroethane		U	0.25	0.50	ug/l	UJ	c
440-99238-2	M-121-20150116	1/16/2015	8260B	74-97-5	Bromochloromethane		U	0.25	0.50	ug/l	UJ	c
440-99238-2	M-121-20150116	1/16/2015	8260B	107-06-2	1,2-Dichloroethane		U	0.25	0.50	ug/l	UJ	c
440-99312-1	M-190-20150119-TB	1/19/2015	8260B	108-90-7	Chlorobenzene		U	0.25	0.50	ug/l	UJ	c
440-99312-1	M-190-20150119-TB	1/19/2015	8260B	79-34-5	1,1,2,2-Tetrachloroethane		U	0.25	0.50	ug/l	UJ	c
440-99312-1	M-190-20150119-TB	1/19/2015	8260B	87-61-6	1,2,3-Trichlorobenzene		U	0.40	1.0	ug/l	UJ	c
440-99312-1	M-190-20150119-TB	1/19/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-99312-1	M-190-20150119	1/19/2015	8260B	87-61-6	1,2,3-Trichlorobenzene		U	0.40	1.0	ug/l	UJ	c
440-99312-1	M-190-20150119	1/19/2015	8260B	79-34-5	1,1,2,2-Tetrachloroethane		U	0.25	0.50	ug/l	UJ	c
440-99312-1	M-190-20150119	1/19/2015	8260B	56-23-5	Carbon Tetrachloride	0.25	J	0.25	0.50	ug/l	J	sp
440-99312-1	M-190-20150119	1/19/2015	8260B	108-90-7	Chlorobenzene		U	0.25	0.50	ug/l	UJ	c

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99312-1	M-190-20150119	1/19/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-99312-1	M-190-20150119-FD	1/19/2015	8260B	56-23-5	Carbon Tetrachloride	0.29	J	0.25	0.50	ug/l	J	sp
440-99312-1	M-190-20150119-FD	1/19/2015	8260B	87-61-6	1,2,3-Trichlorobenzene		U	0.40	1.0	ug/l	UJ	c
440-99312-1	M-190-20150119-FD	1/19/2015	8260B	79-34-5	1,1,2,2-Tetrachloroethane		U	0.25	0.50	ug/l	UJ	c
440-99312-1	M-190-20150119-FD	1/19/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-99312-1	M-190-20150119-FD	1/19/2015	8260B	108-90-7	Chlorobenzene		U	0.25	0.50	ug/l	UJ	c
440-99312-1	M-189-20150119	1/19/2015	8260B	79-34-5	1,1,2,2-Tetrachloroethane		U	0.25	0.50	ug/l	UJ	c
440-99312-1	M-189-20150119	1/19/2015	8260B	87-61-6	1,2,3-Trichlorobenzene		U	0.40	1.0	ug/l	UJ	c
440-99312-1	M-189-20150119	1/19/2015	8260B	108-90-7	Chlorobenzene		U	0.25	0.50	ug/l	UJ	c
440-99312-1	M-189-20150119	1/19/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-99312-1	M-193-20150119	1/19/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-99312-1	M-193-20150119	1/19/2015	8260B	108-90-7	Chlorobenzene		U	0.25	0.50	ug/l	UJ	c
440-99312-1	M-193-20150119	1/19/2015	8260B	87-61-6	1,2,3-Trichlorobenzene		U	0.40	1.0	ug/l	UJ	c
440-99312-1	M-193-20150119	1/19/2015	8260B	79-34-5	1,1,2,2-Tetrachloroethane		U	0.25	0.50	ug/l	UJ	c
440-99401-1	M-161D-20150119-TB	1/19/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99401-1	M-161D-20150119	1/19/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99401-1	TR-9-20150120	1/20/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99401-1	TR-9-20150120-FB	1/20/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99401-1	TR-10-20150120	1/20/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99401-1	M-118-20150120	1/20/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99401-1	M-120-20150120	1/20/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99401-1	M-120-20150120	1/20/2015	8260B	75-27-4	Bromodichloromethane	0.32	J	0.25	0.50	ug/l	J	sp
440-99401-1	M-12A-20150120	1/20/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.50	1.0	ug/l	UJ	c
440-99401-1	M-12A-20150120-EB	1/20/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99576-1	M-155-20150121-TB	1/21/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99576-2	M-155-20150121	1/21/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99576-2	M-155-20150121	1/21/2015	8260B	108-88-3	Toluene	0.38	J	0.25	0.50	ug/l	J	sp
440-99576-2	M-151-20150121	1/21/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99576-2	M-165-20150121	1/21/2015	8260B	67-66-3	Chloroform	0.47	J	0.25	0.50	ug/l	J	sp
440-99576-2	M-165-20150121	1/21/2015	8260B	75-25-2	Bromoform	0.54	J	0.40	1.0	ug/l	J	sp
440-99576-2	M-165-20150121	1/21/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99685-1	M-181-20150121-TB	1/21/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99685-1	M-181-20150121	1/21/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99685-1	M-6A-20150122-FB	1/22/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99685-1	M-6A-20150122	1/22/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99685-1	MC-53-20150122	1/22/2015	8260B	106-46-7	1,4-Dichlorobenzene	0.28	J	0.25	0.50	ug/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99685-1	MC-53-20150122	1/22/2015	8260B	79-01-6	Trichloroethene	0.34	J	0.25	0.50	ug/l	J	sp
440-99685-1	MC-53-20150122	1/22/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99685-1	MC-53-20150122	1/22/2015	8260B	100-42-5	Styrene		U	0.25	0.50	ug/l	R	m
440-99685-1	MC-53-20150122	1/22/2015	8260B	75-00-3	Chloroethane	0.42	J	0.40	1.0	ug/l	J	sp
440-99685-1	MC-53-20150122	1/22/2015	8260B	107-06-2	1,2-Dichloroethane	0.48	J	0.25	0.50	ug/l	J	sp
440-99685-1	MC-53-20150122-FD	1/22/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99685-1	MC-53-20150122-FD	1/22/2015	8260B	79-01-6	Trichloroethene	0.26	J	0.25	0.50	ug/l	J	sp
440-99685-1	MC-53-20150122-FD	1/22/2015	8260B	107-06-2	1,2-Dichloroethane	0.40	J	0.25	0.50	ug/l	J	sp
440-99783-1	PC-154-20150123-TB	1/23/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99783-1	PC-154-20150123	1/23/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99783-1	PC-154-20150123	1/23/2015	8260B	106-46-7	1,4-Dichlorobenzene	0.25	J	0.25	0.50	ug/l	J	sp
440-99783-1	PC-158-20150123	1/23/2015	8260B	127-18-4	Tetrachloroethene	0.35	J	0.25	0.50	ug/l	J	sp
440-99783-1	PC-158-20150123	1/23/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99783-1	PC-159-20150123	1/23/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99783-1	PC-159-20150123	1/23/2015	8260B	541-73-1	1,3-Dichlorobenzene	0.40	J	0.25	0.50	ug/l	J	sp
440-99783-1	PC-159-20150123	1/23/2015	8260B	79-01-6	Trichloroethene	0.31	J	0.25	0.50	ug/l	J	sp
440-99783-1	PC-159-20150123	1/23/2015	8260B	107-06-2	1,2-Dichloroethane	0.30	J	0.25	0.50	ug/l	J	sp
440-99783-1	PC-159-20150123	1/23/2015	8260B	87-61-6	1,2,3-Trichlorobenzene	0.68	J	0.40	1.0	ug/l	J	sp
440-99862-1	PC-160-20150126	1/26/2015	8260B	79-01-6	Trichloroethene	0.33	J	0.25	0.50	ug/l	J	sp
440-99862-1	PC-160-20150126	1/26/2015	8260B	87-61-6	1,2,3-Trichlorobenzene	0.72	J	0.40	1.0	ug/l	J	sp
440-99862-1	PC-160-20150126	1/26/2015	8260B	127-18-4	Tetrachloroethene	0.33	J	0.25	0.50	ug/l	J	sp
440-99862-1	PC-160-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99862-1	PC-134D-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99862-1	PC-137D-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99862-1	PC-151-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99862-1	PC-151-20150126-FD	1/26/2015	8260B	87-61-6	1,2,3-Trichlorobenzene	0.68	J	0.40	1.0	ug/l	J	sp
440-99862-1	PC-151-20150126-FD	1/26/2015	8260B	107-06-2	1,2-Dichloroethane	0.35	J	0.25	0.50	ug/l	J	sp
440-99862-1	PC-151-20150126-FD	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99862-1	PC-151-20150126	1/26/2015	8260B	541-73-1	1,3-Dichlorobenzene	0.30	J	0.25	0.50	ug/l	J	sp
440-99862-1	PC-151-20150126	1/26/2015	8260B	87-61-6	1,2,3-Trichlorobenzene	0.70	J	0.40	1.0	ug/l	J	sp
440-99862-1	PC-151-20150126	1/26/2015	8260B	107-06-2	1,2-Dichloroethane	0.29	J	0.25	0.50	ug/l	J	sp
440-99862-1	PC-151-20150126-FD	1/26/2015	8260B	541-73-1	1,3-Dichlorobenzene	0.31	J	0.25	0.50	ug/l	J	sp
440-99862-1	PC-153-20150126	1/26/2015	8260B	67-66-3	Chloroform	0.28	J	0.25	0.50	ug/l	J	sp
440-99862-1	PC-153-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99862-2	M-149-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99862-2	M-153-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99862-2	M-186-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	1.0	2.0	ug/l	UJ	c
440-99862-2	M-186-20150126-FD	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	1.0	2.0	ug/l	UJ	c
440-99974-1	M-186D-20150126-TB	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99974-1	M-186D-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99974-1	PC-152-20150126	1/26/2015	8260B	107-06-2	1,2-Dichloroethane	0.29	J	0.25	0.50	ug/l	J	sp
440-99974-1	PC-152-20150126	1/26/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99974-1	PC-152-20150126	1/26/2015	8260B	127-18-4	Tetrachloroethene	0.36	J	0.25	0.50	ug/l	J	sp
440-99974-1	PC-152-20150126	1/26/2015	8260B	108-90-7	Chlorobenzene	0.29	J	0.25	0.50	ug/l	J	sp
440-99974-1	PC-152-20150126	1/26/2015	8260B	87-61-6	1,2,3-Trichlorobenzene	0.73	J	0.40	1.0	ug/l	J	sp
440-99974-1	M-162D-20150127	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99974-1	M-163-20150127	1/27/2015	8260B	87-61-6	1,2,3-Trichlorobenzene	0.90	J	0.40	1.0	ug/l	J	sp
440-99974-1	M-163-20150127	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99974-1	M-163-20150127	1/27/2015	8260B	91-20-3	Naphthalene	0.70	J	0.40	1.0	ug/l	J	sp
440-99974-1	M-163-20150127	1/27/2015	8260B	120-82-1	1,2,4-Trichlorobenzene	0.44	J	0.40	1.0	ug/l	J	sp
440-99974-1	M-162D-20150127-FB	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99974-1	M-125-20150127	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	10	20	ug/l	UJ	c
440-99974-1	MC-45-20150127	1/27/2015	8260B	541-73-1	1,3-Dichlorobenzene	0.36	J	0.25	0.50	ug/l	J	sp
440-99974-1	MC-45-20150127	1/27/2015	8260B	79-01-6	Trichloroethene	0.30	J	0.25	0.50	ug/l	J	sp
440-99974-1	MC-45-20150127	1/27/2015	8260B	87-61-6	1,2,3-Trichlorobenzene	0.91	J	0.40	1.0	ug/l	J	sp
440-99974-1	MC-45-20150127	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99974-1	M-123-20150127	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	25	50	ug/l	UJ	c
440-99974-1	M-123-20150127	1/27/2015	8260B	541-73-1	1,3-Dichlorobenzene	44	J	25	50	ug/l	J	sp
440-99974-1	TR-8-20150127	1/27/2015	8260B	75-35-4	1,1-Dichloroethene	0.31	J	0.25	0.50	ug/l	J	sp
440-99974-1	TR-8-20150127	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-99974-1	TR-8-20150127	1/27/2015	8260B	56-23-5	Carbon Tetrachloride	0.28	J	0.25	0.50	ug/l	J	sp
440-100079-1	MC-50-20150127-TB	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	MC-50-20150127	1/27/2015	8260B	108-90-7	Chlorobenzene	65		0.25	0.50	ug/l	J-	m
440-100079-1	MC-50-20150127	1/27/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	MC-50-20150127	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	MC-50-20150127	1/27/2015	8260B	75-34-3	1,1-Dichloroethane	0.49	J	0.25	0.50	ug/l	J	sp
440-100079-1	MC-50-20150127-EB	1/27/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	M-141-20150128	1/28/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.50	1.0	ug/l	UJ	c
440-100079-1	M-141-20150128-FD	1/28/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.50	1.0	ug/l	UJ	c
440-100079-1	M-31A-20150128	1/28/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	M-31A-20150128	1/28/2015	8260B	56-23-5	Carbon Tetrachloride	0.25	J	0.25	0.50	ug/l	J	sp
440-100079-1	M-148A-20150128	1/28/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100079-1	M-148A-20150128	1/28/2015	8260B	127-18-4	Tetrachloroethene	0.27	J	0.25	0.50	ug/l	J	sp
440-100079-1	M-148A-20150128	1/28/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	M-164-20150128	1/28/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	M-164-20150128	1/28/2015	8260B	75-25-2	Bromoform	0.40	J	0.40	1.0	ug/l	J	sp
440-100079-1	M-164-20150128	1/28/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	M-77-20150128	1/28/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	M-77-20150128	1/28/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	M-77-20150128-FB	1/28/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	M-77-20150128-FB	1/28/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100079-1	M-182-20150128	1/28/2015	8260B	75-71-8	Dichlorodifluoromethane		U	1.0	2.0	ug/l	UJ	c
440-100079-1	M-182-20150128	1/28/2015	8260B	75-69-4	Trichlorofluoromethane		U	1.0	2.0	ug/l	UJ	c
440-100230-1	M-92-20150129-TB	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100230-2	M-92-20150129	1/29/2015	8260B	75-34-3	1,1-Dichloroethane	0.30	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-92-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100230-2	M-74-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100230-2	M-74-20150129	1/29/2015	8260B	56-23-5	Carbon Tetrachloride	0.40	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-97-20150129	1/29/2015	8260B	75-34-3	1,1-Dichloroethane	0.30	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-97-20150129-FD	1/29/2015	8260B	75-27-4	Bromodichloromethane	0.32	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-97-20150129-FD	1/29/2015	8260B	107-06-2	1,2-Dichloroethane	0.29	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-97-20150129-FD	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100230-2	M-97-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100230-2	M-97-20150129	1/29/2015	8260B	107-06-2	1,2-Dichloroethane	0.27	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-97-20150129-FD	1/29/2015	8260B	75-34-3	1,1-Dichloroethane	0.28	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-97-20150129	1/29/2015	8260B	75-27-4	Bromodichloromethane	0.28	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-97-20150129	1/29/2015	8260B	56-23-5	Carbon Tetrachloride	0.29	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-97-20150129-FD	1/29/2015	8260B	56-23-5	Carbon Tetrachloride	0.32	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-133-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100230-2	M-73-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.63	1.3	ug/l	UJ	c
440-100230-2	M-73-20150129-EB	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100230-2	M-124-20150129	1/29/2015	8260B	127-18-4	Tetrachloroethene	0.26	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-124-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100230-2	M-124-20150129	1/29/2015	8260B	75-35-4	1,1-Dichloroethene	0.25	J	0.25	0.50	ug/l	J	sp
440-100230-2	M-67-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.50	1.0	ug/l	UJ	c
440-100230-2	M-14A-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100386-1	M-37-20150129-TB	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100386-2	M-37-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100386-2	M-37-20150129	1/29/2015	8260B	100-42-5	Styrene		U	0.25	0.50	ug/l	UJ	m
440-100386-2	M-35-20150129	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100386-2	M-35-20150129	1/29/2015	8260B	127-18-4	Tetrachloroethene	0.41	J	0.25	0.50	ug/l	J	sp
440-100386-2	M-35-20150129-FD	1/29/2015	8260B	127-18-4	Tetrachloroethene	0.39	J	0.25	0.50	ug/l	J	sp
440-100386-2	M-35-20150129-FD	1/29/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100386-2	M-52-20150130	1/30/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100386-2	M-128-20150130	1/30/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100386-2	M-11-20150130	1/30/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100386-2	M-146-20150130	1/30/2015	8260B	75-69-4	Trichlorofluoromethane	0.32	J	0.25	0.50	ug/l	J	sp
440-100386-2	M-146-20150130	1/30/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-144-20150202-TB	2/2/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-144-20150202	2/2/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-64-20150202	2/2/2015	8260B	75-27-4	Bromodichloromethane	0.42	J	0.25	0.50	ug/l	J	sp
440-100558-1	M-64-20150202	2/2/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-64-20150202	2/2/2015	8260B	79-01-6	Trichloroethene	0.39	J	0.25	0.50	ug/l	J	sp
440-100558-1	M-64-20150202	2/2/2015	8260B	127-18-4	Tetrachloroethene	0.33	J	0.25	0.50	ug/l	J	sp
440-100558-1	M-191-20150202	2/2/2015	8260B	56-23-5	Carbon Tetrachloride		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-191-20150202	2/2/2015	8260B	71-55-6	1,1,1-Trichloroethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-191-20150202	2/2/2015	8260B	75-27-4	Bromodichloromethane	0.32	J	0.25	0.50	ug/l	J	sp
440-100558-1	M-191-20150202	2/2/2015	8260B	127-18-4	Tetrachloroethene	0.31	J	0.25	0.50	ug/l	J	sp
440-100558-1	M-191-20150202	2/2/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-191-20150202	2/2/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-22A-20150202	2/2/2015	8260B	75-25-2	Bromoform	0.74	J	0.40	1.0	ug/l	J	sp
440-100558-1	M-22A-20150202	2/2/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-22A-20150202	2/2/2015	8260B	71-55-6	1,1,1-Trichloroethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-22A-20150202	2/2/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-22A-20150202	2/2/2015	8260B	56-23-5	Carbon Tetrachloride	0.32	J	0.25	0.50	ug/l	J-	c,sp
440-100558-1	M-22A-20150202	2/2/2015	8260B	100-42-5	Styrene		U	0.25	0.50	ug/l	UJ	m
440-100558-1	M-22A-20150202	2/2/2015	8260B	106-46-7	1,4-Dichlorobenzene	0.46	J	0.25	0.50	ug/l	J	sp
440-100558-1	M-22A-20150202	2/2/2015	8260B	87-61-6	1,2,3-Trichlorobenzene	0.82	J	0.40	1.0	ug/l	J	sp
440-100558-1	M-22A-20150202	2/2/2015	8260B	79-01-6	Trichloroethene	0.32	J	0.25	0.50	ug/l	J	sp
440-100558-1	M-22A-20150202	2/2/2015	8260B	87-68-3	Hexachlorobutadiene	0.44	J	0.25	0.50	ug/l	J	sp
440-100558-1	M-191-20150202-EB	2/2/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100558-1	M-192-20150202	2/2/2015	8260B	75-27-4	Bromodichloromethane	0.31	J	0.25	0.50	ug/l	J	sp
440-100558-1	M-192-20150202	2/2/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-13-20150202	2/2/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100759-1	M-13-20150202	2/2/2015	8260B	107-06-2	1,2-Dichloroethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-13-20150202	2/2/2015	8260B	100-42-5	Styrene		U	0.25	0.50	ug/l	UJ	m
440-100759-1	M-65-20150203	2/3/2015	8260B	95-50-1	1,2-Dichlorobenzene	1.1	J	1.0	2.0	ug/l	J	sp
440-100759-1	M-138-20150203	2/3/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-138-20150203	2/3/2015	8260B	107-06-2	1,2-Dichloroethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-138-20150203	2/3/2015	8260B	75-34-3	1,1-Dichloroethane	0.31	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-138-20150203-FD	2/3/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-66-20150203	2/3/2015	8260B	75-25-2	Bromoform	2.7	J	1.6	4.0	ug/l	J	sp
440-100759-1	M-66-20150203	2/3/2015	8260B	127-18-4	Tetrachloroethene	1.0	J	1.0	2.0	ug/l	J	sp
440-100759-1	M-66-20150203-FD	2/3/2015	8260B	75-25-2	Bromoform	2.7	J	1.6	4.0	ug/l	J	sp
440-100759-1	M-66-20150203	2/3/2015	8260B	79-01-6	Trichloroethene	1.5	J	1.0	2.0	ug/l	J	sp
440-100759-1	M-66-20150203-FD	2/3/2015	8260B	87-68-3	Hexachlorobutadiene	1.0	J	1.0	2.0	ug/l	J	sp
440-100759-1	M-66-20150203	2/3/2015	8260B	87-68-3	Hexachlorobutadiene	1.1	J	1.0	2.0	ug/l	J	sp
440-100759-1	M-66-20150203-FD	2/3/2015	8260B	79-01-6	Trichloroethene	1.3	J	1.0	2.0	ug/l	J	sp
440-100759-1	M-137-20150203	2/3/2015	8260B	127-18-4	Tetrachloroethene	0.28	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-137-20150203	2/3/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-137-20150203	2/3/2015	8260B	107-06-2	1,2-Dichloroethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-115-20150203	2/3/2015	8260B	107-06-2	1,2-Dichloroethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-115-20150203	2/3/2015	8260B	96-18-4	1,2,3-Trichloropropane	0.31	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-115-20150203	2/3/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-25-20150203	2/3/2015	8260B	95-50-1	1,2-Dichlorobenzene	0.48	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-25-20150203-FD	2/3/2015	8260B	75-25-2	Bromoform	0.79	J	0.40	1.0	ug/l	J	sp
440-100759-1	M-25-20150203	2/3/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100759-1	M-25-20150203	2/3/2015	8260B	75-35-4	1,1-Dichloroethene	0.44	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-25-20150203	2/3/2015	8260B	56-23-5	Carbon Tetrachloride	0.32	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-25-20150203-FD	2/3/2015	8260B	106-46-7	1,4-Dichlorobenzene	0.49	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-25-20150203-FD	2/3/2015	8260B	56-23-5	Carbon Tetrachloride	0.35	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-25-20150203-FD	2/3/2015	8260B	75-27-4	Bromodichloromethane	0.28	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-25-20150203	2/3/2015	8260B	75-25-2	Bromoform	0.75	J	0.40	1.0	ug/l	J	sp
440-100759-1	M-25-20150203-FD	2/3/2015	8260B	95-50-1	1,2-Dichlorobenzene	0.49	J	0.25	0.50	ug/l	J	sp
440-100759-1	M-25-20150203	2/3/2015	8260B	106-46-7	1,4-Dichlorobenzene	0.47	J	0.25	0.50	ug/l	J	sp
440-100881-1	M-75-20150203-TB	2/3/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-100881-1	M-75-20150203	2/3/2015	8260B	79-01-6	Trichloroethene	0.30	J	0.25	0.50	ug/l	J	sp
440-100881-1	M-75-20150203	2/3/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-75-20150203	2/3/2015	8260B	75-35-4	1,1-Dichloroethene	0.25	J	0.25	0.50	ug/l	J	sp
440-100881-1	M-75-20150203	2/3/2015	8260B	56-23-5	Carbon Tetrachloride		U	0.25	0.50	ug/l	UJ	c

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100881-1	M-75-20150203	2/3/2015	8260B	71-55-6	1,1,1-Trichloroethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-75-20150203	2/3/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-72-20150204	2/4/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.50	1.0	ug/l	UJ	c
440-100881-1	M-72-20150204	2/4/2015	8260B	75-27-4	Bromodichloromethane	0.53	J	0.50	1.0	ug/l	J	sp
440-100881-1	M-72-20150204	2/4/2015	8260B	56-23-5	Carbon Tetrachloride	2.4		0.50	1.0	ug/l	J-	c
440-100881-1	M-72-20150204	2/4/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.50	1.0	ug/l	UJ	c
440-100881-1	M-72-20150204	2/4/2015	8260B	87-61-6	1,2,3-Trichlorobenzene	0.82	J	0.80	2.0	ug/l	J	sp
440-100881-1	M-72-20150204	2/4/2015	8260B	95-50-1	1,2-Dichlorobenzene	0.92	J	0.50	1.0	ug/l	J	sp
440-100881-1	M-72-20150204	2/4/2015	8260B	79-01-6	Trichloroethene	0.56	J	0.50	1.0	ug/l	J	sp
440-100881-1	M-72-20150204	2/4/2015	8260B	71-55-6	1,1,1-Trichloroethane		U	0.50	1.0	ug/l	UJ	c
440-100881-1	M-132-20150204	2/4/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-100881-1	M-71-20150204	2/4/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-71-20150204	2/4/2015	8260B	127-18-4	Tetrachloroethene	0.44	J	0.25	0.50	ug/l	J	sp
440-100881-1	M-71-20150204	2/4/2015	8260B	71-55-6	1,1,1-Trichloroethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-71-20150204	2/4/2015	8260B	56-23-5	Carbon Tetrachloride	1.4		0.25	0.50	ug/l	J-	c
440-100881-1	M-71-20150204	2/4/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-68-20150204	2/4/2015	8260B	56-23-5	Carbon Tetrachloride	0.52		0.25	0.50	ug/l	J+	c
440-100881-1	M-68-20150204	2/4/2015	8260B	75-27-4	Bromodichloromethane	0.29	J	0.25	0.50	ug/l	J	sp
440-100881-1	M-68-20150204	2/4/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-100881-1	M-68-20150204	2/4/2015	8260B	78-93-3	2-Butanone		U	2.5	5.0	ug/l	UJ	c
440-100881-1	M-68-20150204	2/4/2015	8260B	120-82-1	1,2,4-Trichlorobenzene	0.41	J	0.40	1.0	ug/l	J	sp
440-100881-1	M-68-20150204	2/4/2015	8260B	96-18-4	1,2,3-Trichloropropane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-68-20150204	2/4/2015	8260B	79-34-5	1,1,2,2-Tetrachloroethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-68-20150204	2/4/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-147-20150204	2/4/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-147-20150204	2/4/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-100881-1	M-147-20150204	2/4/2015	8260B	56-23-5	Carbon Tetrachloride	0.32	J	0.25	0.50	ug/l	J+	c,sp
440-100881-1	M-147-20150204	2/4/2015	8260B	96-18-4	1,2,3-Trichloropropane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-147-20150204	2/4/2015	8260B	79-34-5	1,1,2,2-Tetrachloroethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-147-20150204	2/4/2015	8260B	78-93-3	2-Butanone		U	2.5	5.0	ug/l	UJ	c
440-100881-1	M-70-20150204	2/4/2015	8260B	56-23-5	Carbon Tetrachloride	4.4		0.25	0.50	ug/l	J-	c
440-100881-1	M-70-20150204	2/4/2015	8260B	71-55-6	1,1,1-Trichloroethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-70-20150204	2/4/2015	8260B	127-18-4	Tetrachloroethene	0.29	J	0.25	0.50	ug/l	J	sp
440-100881-1	M-70-20150204	2/4/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.25	0.50	ug/l	UJ	c
440-100881-1	M-70-20150204	2/4/2015	8260B	124-48-1	Dibromochloromethane	0.25	J	0.25	0.50	ug/l	J	sp
440-100881-1	M-70-20150204	2/4/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100881-1	M-139-20150204	2/4/2015	8260B	67-66-3	Chloroform	0.48	J	0.25	0.50	ug/l	J	be,sp
440-100881-1	M-139-20150204	2/4/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-100881-1	M-58-20150204	2/4/2015	8260B	71-55-6	1,1,1-Trichloroethane		U	0.63	1.3	ug/l	UJ	c
440-100881-1	M-58-20150204	2/4/2015	8260B	75-25-2	Bromoform	2.1	J	1.0	2.5	ug/l	J	sp
440-100881-1	M-58-20150204	2/4/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.63	1.3	ug/l	UJ	c
440-100881-1	M-58-20150204	2/4/2015	8260B	56-23-5	Carbon Tetrachloride	0.65	J	0.63	1.3	ug/l	J-	c,sp
440-100881-1	M-58-20150204	2/4/2015	8260B	75-69-4	Trichlorofluoromethane		U	0.63	1.3	ug/l	UJ	c
440-100881-1	M-139-20150204-EB	2/4/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-101036-1	M-2A-20150204-TB	2/4/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101036-1	M-2A-20150204	2/4/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.50	1.0	ug/l	UJ	c
440-101036-1	M-2A-20150204	2/4/2015	8260B	56-23-5	Carbon Tetrachloride	0.86	J	0.50	1.0	ug/l	J+	c,sp
440-101036-1	M-69-20150204	2/4/2015	8260B	127-18-4	Tetrachloroethene	0.32	J	0.25	0.50	ug/l	J	sp
440-101036-1	M-69-20150204	2/4/2015	8260B	541-73-1	1,3-Dichlorobenzene	0.29	J	0.25	0.50	ug/l	J	sp
440-101036-1	M-69-20150204	2/4/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101036-1	MC-29-20150205	2/5/2015	8260B	120-82-1	1,2,4-Trichlorobenzene	120	J	80	200	ug/l	J	sp
440-101036-1	MC-29-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	50	100	ug/l	UJ	c
440-101036-1	MC-29-20150205	2/5/2015	8260B	541-73-1	1,3-Dichlorobenzene	54	J	50	100	ug/l	J	sp
440-101036-1	MC-29-20150205	2/5/2015	8260B	127-18-4	Tetrachloroethene	64	J	50	100	ug/l	J	sp
440-101036-1	MC-51-20150205	2/5/2015	8260B	108-88-3	Toluene	1.5	J	1.3	2.5	ug/l	J	sp
440-101036-1	MC-51-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	1.3	2.5	ug/l	UJ	c
440-101036-1	MC-51-20150205-FD	2/5/2015	8260B	108-88-3	Toluene	1.5	J	1.3	2.5	ug/l	J	sp
440-101036-1	MC-51-20150205-FD	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	1.3	2.5	ug/l	UJ	c
440-101036-1	M-134-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101036-1	M-134-20150205-FB	2/5/2015	8260B	67-66-3	Chloroform	0.40	J	0.25	0.50	ug/l	J	sp
440-101036-1	M-134-20150205-FB	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101036-1	MC-93-20150205	2/5/2015	8260B	108-90-7	Chlorobenzene	0.27	J	0.25	0.50	ug/l	J	sp
440-101036-1	MC-93-20150205	2/5/2015	8260B	79-01-6	Trichloroethene	0.45	J	0.25	0.50	ug/l	J	sp
440-101036-1	MC-93-20150205	2/5/2015	8260B	106-46-7	1,4-Dichlorobenzene	0.31	J	0.25	0.50	ug/l	J	sp
440-101036-1	MC-93-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101036-1	MC-97-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101036-1	MC-97-20150205	2/5/2015	8260B	108-90-7	Chlorobenzene	0.31	J	0.25	0.50	ug/l	J	sp
440-101036-1	MC-97-20150205	2/5/2015	8260B	79-01-6	Trichloroethene	0.29	J	0.25	0.50	ug/l	J	sp
440-101036-1	M-79-20150205	2/5/2015	8260B	100-42-5	Styrene		U	0.25	0.50	ug/l	R	m
440-101036-1	M-79-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101036-1	M-79-20150205	2/5/2015	8260B	127-18-4	Tetrachloroethene	0.38	J	0.25	0.50	ug/l	J	sp
440-101036-1	M-79-20150205	2/5/2015	8260B	541-73-1	1,3-Dichlorobenzene	0.25	J	0.25	0.50	ug/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-101036-1	M-23-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.50	1.0	ug/l	UJ	c
440-101036-1	M-23-20150205	2/5/2015	8260B	127-18-4	Tetrachloroethene	0.73	J	0.50	1.0	ug/l	J	sp
440-101036-1	M-135-20150205	2/5/2015	8260B	75-09-2	Methylene Chloride	1.1	J	0.88	2.0	ug/l	J	sp
440-101036-1	M-7B-20150205	2/5/2015	8260B	107-06-2	1,2-Dichloroethane	1.7		0.25	0.50	ug/l	J+	c
440-101036-1	M-7B-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101036-1	M-7B-20150205-FB	2/5/2015	8260B	67-66-3	Chloroform	0.25	J	0.25	0.50	ug/l	J	sp
440-101036-1	M-7B-20150205-FB	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-136-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-136-20150205	2/5/2015	8260B	74-87-3	Chloromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	MW-16-20150205	2/5/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	MW-16-20150205	2/5/2015	8260B	74-87-3	Chloromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-126-20150206-FD	2/6/2015	8260B	74-87-3	Chloromethane		U	13	25	ug/l	UJ	c
440-101116-2	M-126-20150206-FD	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	13	25	ug/l	UJ	c
440-101116-2	M-126-20150206	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	13	25	ug/l	UJ	c
440-101116-2	M-126-20150206	2/6/2015	8260B	74-87-3	Chloromethane		U	13	25	ug/l	UJ	c
440-101116-2	M-81A-20150206	2/6/2015	8260B	87-68-3	Hexachlorobutadiene	0.34	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-81A-20150206	2/6/2015	8260B	75-25-2	Bromoform	0.91	J	0.40	1.0	ug/l	J	sp
440-101116-2	M-81A-20150206	2/6/2015	8260B	74-87-3	Chloromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-81A-20150206	2/6/2015	8260B	67-66-3	Chloroform	360		1.3	2.5	ug/l	J-	m
440-101116-2	M-81A-20150206	2/6/2015	8260B	124-48-1	Dibromochloromethane	0.30	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-81A-20150206	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-81A-20150206-FB	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-81A-20150206-FB	2/6/2015	8260B	74-87-3	Chloromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-5A-20150206	2/6/2015	8260B	74-87-3	Chloromethane		U	1.0	2.0	ug/l	UJ	c
440-101116-2	M-5A-20150206	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	1.0	2.0	ug/l	UJ	c
440-101116-2	M-80-20150206	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-80-20150206	2/6/2015	8260B	74-87-3	Chloromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-80-20150206	2/6/2015	8260B	75-27-4	Bromodichloromethane	0.41	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-80-20150206	2/6/2015	8260B	95-50-1	1,2-Dichlorobenzene	0.31	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-5A-20150206-FB	2/6/2015	8260B	67-66-3	Chloroform	0.26	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-57A-20150206	2/6/2015	8260B	79-01-6	Trichloroethene	0.93	J	0.50	1.0	ug/l	J	sp
440-101116-2	M-57A-20150206	2/6/2015	8260B	74-87-3	Chloromethane		U	0.50	1.0	ug/l	UJ	c
440-101116-2	M-57A-20150206-FD	2/6/2015	8260B	74-87-3	Chloromethane		U	0.50	1.0	ug/l	UJ	c
440-101116-2	M-57A-20150206-FD	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.50	1.0	ug/l	UJ	c
440-101116-2	M-57A-20150206	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.50	1.0	ug/l	UJ	c
440-101116-2	M-57A-20150206	2/6/2015	8260B	127-18-4	Tetrachloroethene	0.54	J	0.50	1.0	ug/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-101116-2	M-83-20150206	2/6/2015	8260B	74-87-3	Chloromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-83-20150206	2/6/2015	8260B	541-73-1	1,3-Dichlorobenzene	0.43	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-83-20150206	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-83-20150206	2/6/2015	8260B	75-27-4	Bromodichloromethane	0.46	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-83-20150206-FD	2/6/2015	8260B	74-87-3	Chloromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-83-20150206-FD	2/6/2015	8260B	75-27-4	Bromodichloromethane	0.48	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-83-20150206-FD	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-83-20150206-FD	2/6/2015	8260B	541-73-1	1,3-Dichlorobenzene	0.43	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-83-20150206-FD	2/6/2015	8260B	106-46-7	1,4-Dichlorobenzene	0.46	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-140-20150206	2/6/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-140-20150206	2/6/2015	8260B	75-27-4	Bromodichloromethane	0.27	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-140-20150206	2/6/2015	8260B	56-23-5	Carbon Tetrachloride	0.40	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-140-20150206	2/6/2015	8260B	74-87-3	Chloromethane		U	0.25	0.50	ug/l	UJ	c
440-101116-2	M-140-20150206	2/6/2015	8260B	79-01-6	Trichloroethene	0.26	J	0.25	0.50	ug/l	J	sp
440-101116-2	M-140-20150206	2/6/2015	8260B	127-18-4	Tetrachloroethene	0.36	J	0.25	0.50	ug/l	J	sp
440-104147-1	M-190-20150310-TB	3/10/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104147-2	M-190-20150310	3/10/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104147-2	M-190-20150310	3/10/2015	8260B	56-23-5	Carbon Tetrachloride	0.25	J	0.25	0.50	ug/l	J	sp
440-104147-2	M-189-20150310	3/10/2015	8260B	75-27-4	Bromodichloromethane	0.28	J	0.25	0.50	ug/l	J	sp
440-104147-2	M-189-20150310	3/10/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104147-2	M-189-20150310-EB	3/10/2015	8260B	67-66-3	Chloroform	0.25	J	0.25	0.50	ug/l	J	sp
440-104147-2	M-189-20150310-EB	3/10/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104147-2	M-191-20150310	3/10/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104147-2	M-191-20150310	3/10/2015	8260B	127-18-4	Tetrachloroethene	0.27	J	0.25	0.50	ug/l	J	sp
440-104147-2	M-191-20150310	3/10/2015	8260B	75-27-4	Bromodichloromethane	0.34	J	0.25	0.50	ug/l	J	sp
440-104245-1	M-186D-20150311-TB	3/11/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104245-1	M-186D-20150311-TB	3/11/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-104245-1	M-186D-20150311-TB	3/11/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-104245-2	M-186D-20150311	3/11/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-104245-2	M-186D-20150311	3/11/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104245-2	M-186D-20150311	3/11/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-104245-2	M-186D-20150311-FB	3/11/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104245-2	M-186D-20150311-FB	3/11/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-104245-2	M-186D-20150311-FB	3/11/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-104245-2	M-192-20150311	3/11/2015	8260B	75-27-4	Bromodichloromethane	0.30	J	0.25	0.50	ug/l	J	sp
440-104245-2	M-192-20150311	3/11/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-104245-2	M-192-20150311	3/11/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-104245-2	M-192-20150311	3/11/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-104245-2	M-193-20150311	3/11/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-104245-2	M-193-20150311	3/11/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104245-2	M-193-20150311	3/11/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-104245-2	M-193-20150311-FD	3/11/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-104245-2	M-193-20150311-FD	3/11/2015	8260B	91-20-3	Naphthalene		U	0.40	1.0	ug/l	UJ	c
440-104245-2	M-193-20150311-FD	3/11/2015	8260B	96-12-8	1,2-Dibromo-3-chloropropane		U	0.50	1.0	ug/l	UJ	c
440-104383-1	M-161D-20150312-TB	3/12/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-104383-2	M-161D-20150312	3/12/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-104383-2	M-162D-20150312	3/12/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-104383-2	H-28-20150312	3/12/2015	8260B	541-73-1	1,3-Dichlorobenzene	0.43	J	0.25	0.50	ug/l	J	sp
440-104383-2	H-28-20150312	3/12/2015	8260B	75-71-8	Dichlorodifluoromethane		U	0.25	0.50	ug/l	UJ	c
440-108824-3	M-10-20150505	5/5/2015	8260B	100-42-5	Styrene		UF2F1	0.25	0.50	ug/l	UJ	m
440-109157-1	M-38-20150507-EB	5/7/2015	8260B	67-66-3	Chloroform	0.29	J	0.25	0.50	ug/l	J	sp
440-99685-1	MC-53-20150122	1/22/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0032	J	0.0025	0.0050	ug/l	J	sp
440-99685-1	MC-53-20150122-FD	1/22/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0027	J	0.0025	0.0050	ug/l	J	sp
440-99862-1	PC-160-20150126	1/26/2015	8260BSIM	123-91-1	1,4-Dioxane	0.50	J	0.50	2.0	ug/l	J	sp
440-99862-1	PC-153-20150126	1/26/2015	8260BSIM	123-91-1	1,4-Dioxane	0.56	J	0.50	2.0	ug/l	J	sp
440-99862-2	M-149-20150126	1/26/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0027	J	0.0025	0.0050	ug/l	J	sp
440-109157-1	M-38-20150507	5/7/2015	8260BSIM	123-91-1	1,4-Dioxane	0.66	J	0.50	2.0	ug/l	J	sp
440-109157-1	M-38-20150507-FD	5/7/2015	8260BSIM	123-91-1	1,4-Dioxane	0.78	J	0.50	2.0	ug/l	J	sp
440-100079-1	MC-50-20150127	1/27/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0031	J	0.0025	0.0050	ug/l	J	sp
440-100079-1	M-141-20150128	1/28/2015	8260BSIM	123-91-1	1,4-Dioxane	0.74	J	0.50	2.0	ug/l	J	sp
440-100079-1	M-141-20150128-FD	1/28/2015	8260BSIM	123-91-1	1,4-Dioxane	0.85	J	0.50	2.0	ug/l	J	sp
440-100079-1	M-31A-20150128	1/28/2015	8260BSIM	123-91-1	1,4-Dioxane	0.58	J	0.50	2.0	ug/l	J	sp
440-100079-1	M-148A-20150128	1/28/2015	8260BSIM	123-91-1	1,4-Dioxane	0.68	J	0.50	2.0	ug/l	J	sp
440-100386-2	M-37-20150129	1/29/2015	8260BSIM	123-91-1	1,4-Dioxane	1.7	J	0.50	2.0	ug/l	J	sp
440-100386-2	M-35-20150129-FD	1/29/2015	8260BSIM	123-91-1	1,4-Dioxane	0.80	J	0.50	2.0	ug/l	J	sp
440-100386-2	M-52-20150130	1/30/2015	8260BSIM	123-91-1	1,4-Dioxane	0.65	J	0.50	2.0	ug/l	J	sp
440-100386-2	M-128-20150130	1/30/2015	8260BSIM	123-91-1	1,4-Dioxane	0.51	J	0.50	2.0	ug/l	J	sp
440-100558-1	M-192-20150202	2/2/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0026	J	0.0025	0.0050	ug/l	J	sp
440-100759-1	M-65-20150203	2/3/2015	8260BSIM	123-91-1	1,4-Dioxane	0.53	J	0.50	2.0	ug/l	J	sp
440-100759-1	M-66-20150203	2/3/2015	8260BSIM	123-91-1	1,4-Dioxane	0.51	J	0.50	2.0	ug/l	J	sp
440-100759-1	M-66-20150203-FD	2/3/2015	8260BSIM	123-91-1	1,4-Dioxane	0.50	J	0.50	2.0	ug/l	J	sp
440-100759-1	M-115-20150203	2/3/2015	8260BSIM	123-91-1	1,4-Dioxane	1.4	J	0.50	2.0	ug/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100759-1	M-76-20150203	2/3/2015	8260BSIM	123-91-1	1,4-Dioxane	0.53	J	0.50	2.0	ug/l	J	sp
440-100881-1	M-75-20150203	2/3/2015	8260BSIM	123-91-1	1,4-Dioxane	1.5	J	0.50	2.0	ug/l	J	sp
440-100881-1	M-72-20150204	2/4/2015	8260BSIM	123-91-1	1,4-Dioxane	0.55	J	0.50	2.0	ug/l	J	sp
440-100881-1	M-68-20150204	2/4/2015	8260BSIM	123-91-1	1,4-Dioxane	0.69	J	0.50	2.0	ug/l	J	sp
440-100881-1	M-147-20150204	2/4/2015	8260BSIM	123-91-1	1,4-Dioxane	0.51	J	0.50	2.0	ug/l	J	sp
440-100881-1	M-58-20150204	2/4/2015	8260BSIM	123-91-1	1,4-Dioxane	0.52	J	0.50	2.0	ug/l	J	sp
440-101036-1	M-2A-20150204	2/4/2015	8260BSIM	123-91-1	1,4-Dioxane	1.9	J	0.50	2.0	ug/l	J	sp
440-101036-1	M-69-20150204	2/4/2015	8260BSIM	123-91-1	1,4-Dioxane	0.73	J	0.50	2.0	ug/l	J	sp
440-101036-1	MC-51-20150205	2/5/2015	8260BSIM	123-91-1	1,4-Dioxane	4.1	J	2.5	10	ug/l	J	sp
440-101036-1	MC-51-20150205-FD	2/5/2015	8260BSIM	123-91-1	1,4-Dioxane	3.9	J	2.5	10	ug/l	J	sp
440-101116-2	M-136-20150205	2/5/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0045	J	0.0025	0.0050	ug/l	J	bt,sp
440-101116-2	M-126-20150206	2/6/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.011		0.0025	0.0050	ug/l	J	bt
440-101116-2	M-126-20150206-FD	2/6/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.011		0.0025	0.0050	ug/l	J	bt
440-101116-2	M-81A-20150206	2/6/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.19		0.0025	0.0050	ug/l	J+	m
440-104147-2	M-191-20150310	3/10/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0025	J	0.0025	0.0050	ug/l	J	sp
440-104245-2	M-192-20150311	3/11/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0043	J	0.0025	0.0050	ug/l	J	sp
440-104383-2	H-28-20150312	3/12/2015	8260BSIM	96-18-4	1,2,3-Trichloropropane	0.025		0.0025	0.0050	ug/l	J-	s
440-104383-2	H-28-20150312	3/12/2015	8260BSIM	123-91-1	1,4-Dioxane	0.89	J	0.50	2.0	ug/l	J-	s,sp
440-99312-1	M-190-20150119	1/19/2015	8270C	92-87-5	Benzidine		U	5.0	10	ug/l	UJ	l
440-99312-1	M-190-20150119-FD	1/19/2015	8270C	92-87-5	Benzidine		U	4.9	9.8	ug/l	UJ	l
440-99312-1	M-189-20150119	1/19/2015	8270C	92-87-5	Benzidine		U	5.0	9.9	ug/l	UJ	l
440-99312-1	M-189-20150119	1/19/2015	8270C	84-66-2	Diethylphthalate	0.84	J	0.50	0.99	ug/l	J	sp
440-99312-1	M-193-20150119	1/19/2015	8270C	92-87-5	Benzidine		U	4.9	9.7	ug/l	UJ	l
440-99401-1	M-161D-20150119	1/19/2015	8270C	92-87-5	Benzidine		U	4.9	9.8	ug/l	UJ	l
440-99974-1	M-186D-20150126	1/26/2015	8270C	84-66-2	Diethylphthalate	0.68	J	0.49	0.99	ug/l	J	sp
440-99974-1	M-186D-20150126	1/26/2015	8270C	92-87-5	Benzidine		U	4.9	9.9	ug/l	UJ	l
440-99974-1	M-162D-20150127	1/27/2015	8270C	106-47-8	4-Chloroaniline		U	1.1	2.2	ug/l	UJ	m
440-99974-1	M-162D-20150127	1/27/2015	8270C	50-32-8	Benzo(a)pyrene		U	0.55	2.2	ug/l	UJ	m
440-99974-1	M-162D-20150127	1/27/2015	8270C	92-87-5	Benzidine		U	5.5	11	ug/l	R	m
440-99974-1	M-162D-20150127	1/27/2015	8270C	117-81-7	bis(2-Ethylhexyl)phthalate		U	2.2	5.5	ug/l	UJ	m
440-99974-1	M-162D-20150127	1/27/2015	8270C	91-94-1	3,3'-Dichlorobenzidine		U	2.2	5.5	ug/l	R	m
440-99974-1	M-162D-20150127-FB	1/27/2015	8270C	92-87-5	Benzidine		U	4.8	9.6	ug/l	UJ	l
440-100558-1	M-191-20150202	2/2/2015	8270C	84-66-2	Diethylphthalate	0.72	J	0.51	1.0	ug/l	J	sp
440-100558-1	M-191-20150202	2/2/2015	8270C	87-86-5	Pentachlorophenol		U	1.0	2.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	534-52-1	4,6-Dinitro-2-methylphenol		U	2.0	5.1	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	92-87-5	Benzidine		U	5.1	10	ug/l	R	l

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SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100558-1	M-191-20150202	2/2/2015	8270C	95-48-7	2-Methylphenol		U	1.0	2.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	88-75-5	2-Nitrophenol		U	1.0	2.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	95-57-8	2-Chlorophenol		U	0.51	1.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	120-83-2	2,4-Dichlorophenol		U	1.0	2.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	106-44-5	4-Methylphenol		U	2.0	5.1	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	105-67-9	2,4-Dimethylphenol		U	1.0	2.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	100-02-7	4-Nitrophenol		U	2.0	5.1	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	88-06-2	2,4,6-Trichlorophenol		U	0.51	1.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	65-85-0	Benzoic Acid		U	2.0	5.1	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	95-95-4	2,4,5-Trichlorophenol		U	1.0	2.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	59-50-7	4-Chloro-3-methylphenol		U	0.20	2.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	108-95-2	Phenol		U	0.51	1.0	ug/l	R	s
440-100558-1	M-191-20150202	2/2/2015	8270C	51-28-5	2,4-Dinitrophenol		U	2.0	5.1	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	50-32-8	Benzo(a)pyrene		U	0.47	1.9	ug/l	UJ	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	99-09-2	3-Nitroaniline		U	1.9	4.7	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	95-48-7	2-Methylphenol		U	0.95	1.9	ug/l	R	s,m
440-100558-1	M-22A-20150202	2/2/2015	8270C	541-73-1	1,3-Dichlorobenzene	0.26	J	0.19	0.47	ug/l	J	sp
440-100558-1	M-22A-20150202	2/2/2015	8270C	51-28-5	2,4-Dinitrophenol		U	1.9	4.7	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	59-50-7	4-Chloro-3-methylphenol		U	0.19	1.9	ug/l	R	s,m
440-100558-1	M-22A-20150202	2/2/2015	8270C	106-47-8	4-Chloroaniline		U	0.95	1.9	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	218-01-9	Chrysene		U	0.19	0.47	ug/l	UJ	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	88-06-2	2,4,6-Trichlorophenol		U	0.47	0.95	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	534-52-1	4,6-Dinitro-2-methylphenol		U	1.9	4.7	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	129-00-0	Pyrene		U	0.19	0.47	ug/l	UJ	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	206-44-0	Fluoranthene		U	0.19	0.47	ug/l	UJ	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	56-55-3	Benzo(a)anthracene		U	1.9	4.7	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	95-95-4	2,4,5-Trichlorophenol		U	0.95	1.9	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	62-53-3	Aniline		U	1.9	9.5	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	117-81-7	bis(2-Ethylhexyl)phthalate		U	1.9	4.7	ug/l	UJ	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	100-01-6	4-Nitroaniline		U	1.9	4.7	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	85-01-8	Phenanthrene		U	0.19	0.47	ug/l	UJ	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	91-20-3	Naphthalene		U	0.47	0.95	ug/l	UJ	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	108-95-2	Phenol		U	0.47	0.95	ug/l	R	s,m
440-100558-1	M-22A-20150202	2/2/2015	8270C	87-86-5	Pentachlorophenol		U	0.95	1.9	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	87-68-3	Hexachlorobutadiene	0.71	J	0.47	1.9	ug/l	J	sp
440-100558-1	M-22A-20150202	2/2/2015	8270C	91-57-6	2-Methylnaphthalene		U	0.47	0.95	ug/l	R	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100558-1	M-22A-20150202	2/2/2015	8270C	120-12-7	Anthracene		U	0.19	0.47	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	208-96-8	Acenaphthylene		U	0.19	0.47	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	207-08-9	Benzo(k)fluoranthene		U	0.24	0.47	ug/l	UJ	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	100-02-7	4-Nitrophenol		U	1.9	4.7	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	86-30-6	N-Nitrosodiphenylamine		U	0.47	0.95	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	83-32-9	Acenaphthene		U	0.19	0.47	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	91-94-1	3,3'-Dichlorobenzidine		U	1.9	4.7	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	88-75-5	2-Nitrophenol		U	0.95	1.9	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	105-67-9	2,4-Dimethylphenol		U	0.95	1.9	ug/l	R	s,m
440-100558-1	M-22A-20150202	2/2/2015	8270C	106-46-7	1,4-Dichlorobenzene	0.39	J	0.19	0.47	ug/l	J	sp
440-100558-1	M-22A-20150202	2/2/2015	8270C	106-44-5	4-Methylphenol		U	1.9	4.7	ug/l	R	s,m
440-100558-1	M-22A-20150202	2/2/2015	8270C	120-83-2	2,4-Dichlorophenol		U	0.95	1.9	ug/l	R	s,m
440-100558-1	M-22A-20150202	2/2/2015	8270C	88-74-4	2-Nitroaniline		U	1.9	4.7	ug/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	8270C	95-57-8	2-Chlorophenol		U	0.47	0.95	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	65-85-0	Benzoic Acid		U	1.9	4.7	ug/l	R	s
440-100558-1	M-22A-20150202	2/2/2015	8270C	92-87-5	Benzidine		U	4.7	9.5	ug/l	R	m,l
440-100558-1	M-191-20150202-EB	2/2/2015	8270C	92-87-5	Benzidine		U	5.1	10	ug/l	R	l
440-100558-1	M-191-20150202-EB	2/2/2015	8270C	100-02-7	4-Nitrophenol		U	2.0	5.1	ug/l	UJ	c
440-100558-1	M-191-20150202-EB	2/2/2015	8270C	65-85-0	Benzoic Acid		U	2.0	5.1	ug/l	UJ	c
440-100558-1	M-191-20150202-EB	2/2/2015	8270C	208-96-8	Acenaphthylene	0.27	J	0.20	0.51	ug/l	J	sp
440-100558-1	M-192-20150202	2/2/2015	8270C	65-85-0	Benzoic Acid		U	2.0	5.1	ug/l	UJ	c
440-100558-1	M-192-20150202	2/2/2015	8270C	100-02-7	4-Nitrophenol		U	2.0	5.1	ug/l	UJ	c
440-100558-1	M-192-20150202	2/2/2015	8270C	92-87-5	Benzidine		U	5.1	10	ug/l	R	l
440-100759-1	M-65-20150203	2/3/2015	8270C	105-67-9	2,4-Dimethylphenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	95-48-7	2-Methylphenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	95-57-8	2-Chlorophenol		U	0.51	1.0	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	92-87-5	Benzidine		U*	5.1	10	ug/l	UJ	l
440-100759-1	M-65-20150203	2/3/2015	8270C	534-52-1	4,6-Dinitro-2-methylphenol		U	2.0	5.1	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	541-73-1	1,3-Dichlorobenzene	0.25	J	0.20	0.51	ug/l	J	sp
440-100759-1	M-65-20150203	2/3/2015	8270C	87-86-5	Pentachlorophenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	51-28-5	2,4-Dinitrophenol		U	2.0	5.1	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	106-44-5	4-Methylphenol		U	2.0	5.1	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	65-85-0	Benzoic Acid		U	2.0	5.1	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	120-83-2	2,4-Dichlorophenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	91-94-1	3,3'-Dichlorobenzidine		U*	2.0	5.1	ug/l	UJ	l
440-100759-1	M-65-20150203	2/3/2015	8270C	100-02-7	4-Nitrophenol		U	2.0	5.1	ug/l	R	s

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100759-1	M-65-20150203	2/3/2015	8270C	88-75-5	2-Nitrophenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	108-95-2	Phenol		U	0.51	1.0	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	88-06-2	2,4,6-Trichlorophenol		U	0.51	1.0	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	59-50-7	4-Chloro-3-methylphenol		U	0.20	2.0	ug/l	R	s
440-100759-1	M-65-20150203	2/3/2015	8270C	106-46-7	1,4-Dichlorobenzene	0.28	J	0.20	0.51	ug/l	J	sp
440-100759-1	M-65-20150203	2/3/2015	8270C	95-95-4	2,4,5-Trichlorophenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	131-11-3	Dimethylphthalate		U	0.27	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	129-00-0	Pyrene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	121-14-2	2,4-Dinitrotoluene		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	118-74-1	Hexachlorobenzene		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	83-32-9	Acenaphthene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	88-74-4	2-Nitroaniline		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	85-68-7	Butylbenzylphthalate		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	106-46-7	1,4-Dichlorobenzene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	106-44-5	4-Methylphenol		U	2.2	5.5	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	95-48-7	2-Methylphenol		U	1.1	2.2	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	122-66-7	1,2-Diphenylhydrazine		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	87-86-5	Pentachlorophenol		U	1.1	2.2	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	120-83-2	2,4-Dichlorophenol		U	1.1	2.2	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	208-96-8	Acenaphthylene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	193-39-5	Indeno(1,2,3-cd)pyrene		U	1.1	2.2	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	205-99-2	Benzo(b)fluoranthene		U	1.1	2.2	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	606-20-2	2,6-Dinitrotoluene		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	77-47-4	Hexachlorocyclopentadiene		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	84-74-2	Di-n-butylphthalate		U	1.1	2.2	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	85-01-8	Phenanthrene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	105-67-9	2,4-Dimethylphenol		U	1.1	2.2	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	95-57-8	2-Chlorophenol		U	0.55	1.1	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	99-09-2	3-Nitroaniline		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	621-64-7	N-Nitroso-di-n-propylamine		U	1.1	2.2	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	108-60-1	2,2'-oxybis(1-Chloropropane)		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	100-51-6	Benzyl Alcohol		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	78-59-1	Isophorone		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	120-12-7	Anthracene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	50-32-8	Benzo(a)pyrene		U	0.55	2.2	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	7005-72-3	4-Chlorophenyl-phenyl ether		U	0.22	0.55	ug/l	UJ	s

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100759-1	M-66-20150203	2/3/2015	8270C	67-72-1	Hexachloroethane		U	0.55	3.3	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	98-95-3	Nitrobenzene		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	91-20-3	Naphthalene		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	92-87-5	Benzidine		U*	5.5	11	ug/l	UJ	s,l
440-100759-1	M-66-20150203	2/3/2015	8270C	91-58-7	2-Chloronaphthalene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	86-30-6	N-Nitrosodiphenylamine		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	132-64-9	Dibenzofuran		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	106-47-8	4-Chloroaniline		U	1.1	2.2	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	62-53-3	Aniline		U	2.2	11	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	84-66-2	Diethylphthalate		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	111-44-4	bis(2-Chloroethyl) ether		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	541-73-1	1,3-Dichlorobenzene	0.24	J	0.22	0.55	ug/l	J-	s,sp
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	95-48-7	2-Methylphenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	91-57-6	2-Methylnaphthalene		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	51-28-5	2,4-Dinitrophenol		U	2.0	5.1	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	65-85-0	Benzoic Acid		U	2.0	5.1	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	88-06-2	2,4,6-Trichlorophenol		U	0.51	1.0	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	87-68-3	Hexachlorobutadiene	0.81	J	0.51	2.0	ug/l	J	sp
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	108-95-2	Phenol		U	0.51	1.0	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	59-50-7	4-Chloro-3-methylphenol		U	0.20	2.0	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	95-95-4	2,4,5-Trichlorophenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	87-68-3	Hexachlorobutadiene		U	0.55	2.2	ug/l	UJ	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	88-75-5	2-Nitrophenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	117-81-7	bis(2-Ethylhexyl)phthalate		U*	2.2	5.5	ug/l	UJ	s,l
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	100-02-7	4-Nitrophenol		U	2.0	5.1	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	91-94-1	3,3'-Dichlorobenzidine		U*	2.0	5.1	ug/l	UJ	l
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	120-83-2	2,4-Dichlorophenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	105-67-9	2,4-Dimethylphenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	106-44-5	4-Methylphenol		U	2.0	5.1	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	106-46-7	1,4-Dichlorobenzene	0.41	J	0.20	0.51	ug/l	J	sp
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	95-57-8	2-Chlorophenol		U	0.51	1.0	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	92-87-5	Benzidine		U*	5.1	10	ug/l	UJ	l
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	87-86-5	Pentachlorophenol		U	1.0	2.0	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	95-50-1	1,2-Dichlorobenzene	0.39	J	0.20	0.51	ug/l	J	sp
440-100759-1	M-66-20150203	2/3/2015	8270C	101-55-3	4-Bromophenyl-phenyl ether		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	534-52-1	4,6-Dinitro-2-methylphenol		U	2.2	5.5	ug/l	R	s

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100759-1	M-66-20150203	2/3/2015	8270C	100-02-7	4-Nitrophenol		U	2.2	5.5	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	120-82-1	1,2,4-Trichlorobenzene		U	0.55	1.1	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	207-08-9	Benzo(k)fluoranthene		U	0.27	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	86-73-7	Fluorene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	91-94-1	3,3'-Dichlorobenzidine		U*	2.2	5.5	ug/l	UJ	s,l
440-100759-1	M-66-20150203	2/3/2015	8270C	88-75-5	2-Nitrophenol		U	1.1	2.2	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	95-50-1	1,2-Dichlorobenzene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	88-06-2	2,4,6-Trichlorophenol		U	0.55	1.1	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	59-50-7	4-Chloro-3-methylphenol		U	0.22	2.2	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	117-84-0	Di-n-octylphthalate		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	108-95-2	Phenol		U	0.55	1.1	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	111-91-1	bis(2-Chloroethoxy)methane		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	53-70-3	Dibenz(a,h)anthracene		U	0.27	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	218-01-9	Chrysene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	206-44-0	Fluoranthene		U	0.22	0.55	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	65-85-0	Benzoic Acid		U	2.2	5.5	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	56-55-3	Benzo(a)anthracene		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	51-28-5	2,4-Dinitrophenol		U	2.2	5.5	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	100-01-6	4-Nitroaniline		U	2.2	5.5	ug/l	UJ	s
440-100759-1	M-66-20150203	2/3/2015	8270C	95-95-4	2,4,5-Trichlorophenol		U	1.1	2.2	ug/l	R	s
440-100759-1	M-66-20150203-FD	2/3/2015	8270C	534-52-1	4,6-Dinitro-2-methylphenol		U	2.0	5.1	ug/l	R	s
440-100759-1	M-66-20150203	2/3/2015	8270C	191-24-2	Benzo(g,h,i)perylene		U	2.2	5.5	ug/l	UJ	s
440-109157-1	M-38-20150507	5/7/2015	8270C	65-85-0	Benzoic Acid		U	2.1	5.3	ug/l	R	s
440-109157-1	M-38-20150507	5/7/2015	8270C	111-91-1	bis(2-Chloroethoxy)methane		U	0.21	0.53	ug/l	UJ	l
440-109157-1	M-38-20150507	5/7/2015	8270C	86-30-6	N-Nitrosodiphenylamine		UF1	0.53	1.1	ug/l	R	m
440-109157-1	M-38-20150507	5/7/2015	8270C	108-95-2	Phenol		UF1	0.53	1.1	ug/l	R	m,s
440-109157-1	M-38-20150507	5/7/2015	8270C	100-01-6	4-Nitroaniline		UF1*	2.1	5.3	ug/l	R	m
440-109157-1	M-38-20150507	5/7/2015	8270C	92-87-5	Benzidine		UF1*	5.3	11	ug/l	R	l,m
440-109157-1	M-38-20150507	5/7/2015	8270C	88-74-4	2-Nitroaniline		UF1F2	2.1	5.3	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	83-32-9	Acenaphthene		UF1F2	0.21	0.53	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	62-53-3	Aniline		UF1*	2.1	11	ug/l	R	m
440-109157-1	M-38-20150507	5/7/2015	8270C	59-50-7	4-Chloro-3-methylphenol		UF1F2	0.21	2.1	ug/l	R	s
440-109157-1	M-38-20150507	5/7/2015	8270C	51-28-5	2,4-Dinitrophenol		U	2.1	5.3	ug/l	R	s
440-109157-1	M-38-20150507	5/7/2015	8270C	129-00-0	Pyrene		UF1F2	0.21	0.53	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	95-57-8	2-Chlorophenol		UF1F2	0.53	1.1	ug/l	R	s
440-109157-1	M-38-20150507	5/7/2015	8270C	87-86-5	Pentachlorophenol		UF2	1.1	2.1	ug/l	R	s

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-109157-1	M-38-20150507	5/7/2015	8270C	84-66-2	Diethylphthalate	2.3		0.53	1.1	ug/l	J	fd
440-109157-1	M-38-20150507	5/7/2015	8270C	56-55-3	Benzo(a)anthracene		UF1	2.1	5.3	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	88-06-2	2,4,6-Trichlorophenol		UF1F2	0.53	1.1	ug/l	R	s
440-109157-1	M-38-20150507	5/7/2015	8270C	120-12-7	Anthracene		UF1F2	0.21	0.53	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	91-20-3	Naphthalene		UF1	0.53	1.1	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	534-52-1	4,6-Dinitro-2-methylphenol		U	2.1	5.3	ug/l	R	s
440-109157-1	M-38-20150507	5/7/2015	8270C	50-32-8	Benzo(a)pyrene		UF1F2	0.53	2.1	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	95-48-7	2-Methylphenol		UF1	1.1	2.1	ug/l	R	m,s
440-109157-1	M-38-20150507	5/7/2015	8270C	99-09-2	3-Nitroaniline		UF1*	2.1	5.3	ug/l	R	m
440-109157-1	M-38-20150507	5/7/2015	8270C	106-47-8	4-Chloroaniline		UF1*	1.1	2.1	ug/l	R	m
440-109157-1	M-38-20150507	5/7/2015	8270C	105-67-9	2,4-Dimethylphenol		UF1	1.1	2.1	ug/l	R	m,s
440-109157-1	M-38-20150507	5/7/2015	8270C	91-57-6	2-Methylnaphthalene		UF1F2	0.53	1.1	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	88-75-5	2-Nitrophenol		U	1.1	2.1	ug/l	R	s
440-109157-1	M-38-20150507	5/7/2015	8270C	106-44-5	4-Methylphenol		UF1	2.1	5.3	ug/l	R	m,s
440-109157-1	M-38-20150507	5/7/2015	8270C	95-95-4	2,4,5-Trichlorophenol		UF1F2	1.1	2.1	ug/l	R	s
440-109157-1	M-38-20150507	5/7/2015	8270C	120-83-2	2,4-Dichlorophenol		UF1F2	1.1	2.1	ug/l	R	s
440-109157-1	M-38-20150507	5/7/2015	8270C	208-96-8	Acenaphthylene		UF1F2	0.21	0.53	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	91-94-1	3,3'-Dichlorobenzidine		UF1*	2.1	5.3	ug/l	R	l,m
440-109157-1	M-38-20150507	5/7/2015	8270C	85-01-8	Phenanthrene		UF1F2	0.21	0.53	ug/l	UJ	m
440-109157-1	M-38-20150507	5/7/2015	8270C	100-02-7	4-Nitrophenol		U	2.1	5.3	ug/l	R	s
440-109157-1	M-38-20150507-FB	5/7/2015	8270C	106-47-8	4-Chloroaniline		U*	1.0	2.0	ug/l	UJ	l
440-109157-1	M-38-20150507-FB	5/7/2015	8270C	92-87-5	Benzidine		U*	5.1	10	ug/l	R	l
440-109157-1	M-38-20150507-FB	5/7/2015	8270C	62-53-3	Aniline		U*	2.0	10	ug/l	UJ	l
440-109157-1	M-38-20150507-FB	5/7/2015	8270C	100-01-6	4-Nitroaniline		U*	2.0	5.1	ug/l	UJ	l
440-109157-1	M-38-20150507-FB	5/7/2015	8270C	99-09-2	3-Nitroaniline		U*	2.0	5.1	ug/l	UJ	l
440-109157-1	M-38-20150507-FB	5/7/2015	8270C	111-91-1	bis(2-Chloroethoxy)methane		U	0.20	0.51	ug/l	UJ	l
440-109157-1	M-38-20150507-FB	5/7/2015	8270C	91-94-1	3,3'-Dichlorobenzidine		U*	2.0	5.1	ug/l	R	l
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	106-47-8	4-Chloroaniline		U*	1.0	2.0	ug/l	UJ	l
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	95-48-7	2-Methylphenol		U	1.0	2.0	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	92-87-5	Benzidine		U*	5.1	10	ug/l	R	l
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	51-28-5	2,4-Dinitrophenol		U	2.0	5.1	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	100-02-7	4-Nitrophenol		U	2.0	5.1	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	95-57-8	2-Chlorophenol		U	0.51	1.0	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	65-85-0	Benzoic Acid		U	2.0	5.1	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	62-53-3	Aniline		U*	2.0	10	ug/l	UJ	l
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	91-94-1	3,3'-Dichlorobenzidine		U*	2.0	5.1	ug/l	R	l

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	100-01-6	4-Nitroaniline		U*	2.0	5.1	ug/l	UJ	l
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	111-91-1	bis(2-Chloroethoxy)methane		U	0.20	0.51	ug/l	UJ	l
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	120-83-2	2,4-Dichlorophenol		U	1.0	2.0	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	59-50-7	4-Chloro-3-methylphenol		U	0.20	2.0	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	87-86-5	Pentachlorophenol		U	1.0	2.0	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	84-66-2	Diethylphthalate	1.4		0.51	1.0	ug/l	J	fd
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	99-09-2	3-Nitroaniline		U*	2.0	5.1	ug/l	UJ	l
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	108-95-2	Phenol		U	0.51	1.0	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	88-06-2	2,4,6-Trichlorophenol		U	0.51	1.0	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	106-44-5	4-Methylphenol		U	2.0	5.1	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	105-67-9	2,4-Dimethylphenol		U	1.0	2.0	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	534-52-1	4,6-Dinitro-2-methylphenol		U	2.0	5.1	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	88-75-5	2-Nitrophenol		U	1.0	2.0	ug/l	R	s
440-109157-1	M-38-20150507-FD	5/7/2015	8270C	95-95-4	2,4,5-Trichlorophenol		U	1.0	2.0	ug/l	R	s
440-99974-1	M-186D-20150126	1/26/2015	8321A	98-66-8	4-Chlorobenzenesulfonic acid		U	0.097	1.0	ug/l	UJ	c
440-99974-1	M-162D-20150127-FB	1/27/2015	8321A	98-66-8	4-Chlorobenzenesulfonic acid		U	0.097	1.0	ug/l	UJ	c
440-100558-1	M-191-20150202-EB	2/2/2015	8321A	98-66-8	4-Chlorobenzenesulfonic acid	0.12	JI	0.097	1.0	ug/l	J	o,sp
440-101116-2	M-126-20150206-FD	2/6/2015	8321A	98-66-8	4-Chlorobenzenesulfonic acid	2300	B	3.9	40	ug/l	J+	c
440-101116-2	M-126-20150206	2/6/2015	8321A	98-66-8	4-Chlorobenzenesulfonic acid	2400	B	3.9	40	ug/l	J+	c
440-101116-2	M-5A-20150206	2/6/2015	8321A	98-66-8	4-Chlorobenzenesulfonic acid	23000	B	39	400	ug/l	J+	c
440-99401-1	M-161D-20150119	1/19/2015	8081A	33213-65-9	Endosulfan II		U	0.0021	0.0052	ug/l	UJ	l
440-99401-1	M-161D-20150119	1/19/2015	8081A	8001-35-2	Toxaphene		U	0.26	0.52	ug/l	UJ	c
440-99974-1	M-162D-20150127	1/27/2015	8081A	309-00-2	Aldrin		U	0.0016	0.0055	ug/l	UJ	l
440-100230-2	M-14A-20150129	1/29/2015	8081A	309-00-2	Aldrin		U	0.0016	0.0053	ug/l	UJ	l
440-100386-2	M-128-20150130	1/30/2015	8081A	309-00-2	Aldrin		U	0.0016	0.0052	ug/l	UJ	l
440-100558-1	MC-3-20150202	2/2/2015	8081A	319-86-8	delta-BHC	1.8		0.068	0.097	ug/l	J	dc
440-101116-2	M-126-20150206	2/6/2015	8081A	58-89-9	gamma-BHC	0.11		0.0031	0.010	ug/l	J	ld
440-101116-2	M-126-20150206-FD	2/6/2015	8081A	319-86-8	delta-BHC	0.057		0.0037	0.0053	ug/l	J	ld
440-101116-2	M-126-20150206-FD	2/6/2015	8081A	5103-74-2	gamma-Chlordane		U	0.032	0.11	ug/l	UJ	l
440-101116-2	M-126-20150206-FD	2/6/2015	8081A	58-89-9	gamma-BHC	0.13		0.0032	0.011	ug/l	J	ld
440-101116-2	M-126-20150206	2/6/2015	8081A	319-84-6	alpha-BHC	0.0059		0.0026	0.0052	ug/l	J	ld
440-101116-2	M-126-20150206	2/6/2015	8081A	5103-74-2	gamma-Chlordane		U	0.031	0.10	ug/l	UJ	l
440-101116-2	M-126-20150206	2/6/2015	8081A	319-86-8	delta-BHC	0.048		0.0037	0.0052	ug/l	J	ld
440-98805-1	PC-21A-20150112	1/12/2015	200.7	7440-39-3	Barium	0.016	J	0.010	0.020	mg/l	J	sp
440-98805-1	PC-21A-20150112-FD	1/12/2015	200.7	7440-39-3	Barium	0.016	J	0.010	0.020	mg/l	J	sp
440-98805-2	M-154-20150112	1/12/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-98805-2	M-154-20150112	1/12/2015	200.7	7439-89-6	Iron	0.038	J	0.010	0.040	mg/l	J	sp
440-98805-2	M-154-20150112	1/12/2015	200.7	7440-48-4	Cobalt	0.0039	J	0.0025	0.010	mg/l	J	sp
440-98805-2	M-150-20150112	1/12/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-98805-2	M-150-20150112	1/12/2015	200.7	7440-48-4	Cobalt	0.0043	J	0.0025	0.010	mg/l	J	sp
440-98909-1	PC-40-20150113	1/13/2015	200.7	7440-66-6	Zinc	0.015	J	0.010	0.020	mg/l	J	sp
440-98909-1	PC-40-20150113	1/13/2015	200.7	7440-48-4	Cobalt	0.0037	J	0.0025	0.010	mg/l	J	sp
440-98909-1	PC-40-20150113	1/13/2015	200.7	7429-90-5	Aluminum	0.033	J	0.025	0.050	mg/l	J	sp
440-98909-1	PC-40-20150113	1/13/2015	200.7	7440-02-0	Nickel	0.0056	J	0.0050	0.010	mg/l	J	sp
440-98909-1	PC-54-20150113	1/13/2015	200.7	7440-02-0	Nickel	0.0057	J	0.0050	0.010	mg/l	J	sp
440-98909-1	PC-64-20150113	1/13/2015	200.7	7439-89-6	Iron	0.028	J	0.010	0.040	mg/l	J	sp
440-98909-1	PC-64-20150113	1/13/2015	200.7	7440-66-6	Zinc	0.019	J	0.010	0.020	mg/l	J	sp
440-98909-1	PC-64-20150113	1/13/2015	200.7	7440-39-3	Barium	0.0097	J	0.0050	0.010	mg/l	J	sp
440-98909-1	PC-65-20150113	1/13/2015	200.7	7440-02-0	Nickel	0.0057	J	0.0050	0.010	mg/l	J	sp
440-98909-1	PC-65-20150113	1/13/2015	200.7	7439-89-6	Iron	0.021	J	0.010	0.040	mg/l	J	sp
440-98909-1	PC-65-20150113	1/13/2015	200.7	7439-96-5	Manganese	0.017	J	0.010	0.020	mg/l	J	sp
440-99061-1	PC-66-20150114	1/14/2015	200.7	7439-92-1	Lead	0.0032	J	0.0025	0.0050	mg/l	J	sp
440-99061-1	PC-66-20150114	1/14/2015	200.7	7440-02-0	Nickel	0.0054	J	0.0050	0.010	mg/l	J	sp
440-99061-1	PC-67-20150114	1/14/2015	200.7	7439-89-6	Iron	0.081	J	0.050	0.20	mg/l	J	sp
440-99061-1	PC-67-20150114	1/14/2015	200.7	7440-39-3	Barium	0.033	J	0.025	0.050	mg/l	J	sp
440-99061-1	PC-67-20150114	1/14/2015	200.7	7439-92-1	Lead	0.015	J	0.013	0.025	mg/l	J	sp
440-99061-1	PC-67-20150114	1/14/2015	200.7	7429-90-5	Aluminum	0.13	J	0.13	0.25	mg/l	J	sp
440-99061-1	PC-28-20150114-FD	1/14/2015	200.7	7439-92-1	Lead	0.0047	J	0.0025	0.0050	mg/l	J	sp
440-99061-1	BHEI-10-20150114	1/14/2015	200.7	7439-92-1	Lead	0.0039	J	0.0025	0.0050	mg/l	J	sp
440-99061-1	PC-24-20150114	1/14/2015	200.7	7439-92-1	Lead	0.0049	J	0.0025	0.0050	mg/l	J	sp
440-99061-1	PC-28-20150114-FD	1/14/2015	200.8	7440-36-0	Antimony	0.51	J	0.50	2.0	ug/l	J	bf,sp
440-99061-2	TR-1-20150114	1/14/2015	200.7	7439-92-1	Lead	0.0039	J	0.0025	0.0050	mg/l	J	sp
440-99061-2	TR-1-20150114	1/14/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99061-2	TR-2-20150114	1/14/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99061-2	TR-2-20150114	1/14/2015	200.7	7439-92-1	Lead	0.0036	J	0.0025	0.0050	mg/l	J	sp
440-99061-2	TR-4-20150114	1/14/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99061-2	TR-5-20150114	1/14/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99142-1	WMW5.58S-20150115	1/15/2015	200.7	7440-48-4	Cobalt	0.0039	J	0.0025	0.010	mg/l	J	sp
440-99142-1	WMW5.58S-20150115	1/15/2015	200.7	7440-50-8	Copper	0.0053	J	0.0050	0.010	mg/l	J	sp
440-99142-1	WMW5.58S-20150115	1/15/2015	200.7	7429-90-5	Aluminum	0.027	J	0.025	0.050	mg/l	J	sp
440-99142-1	WMW5.58S-20150115	1/15/2015	200.7	7439-92-1	Lead	0.0035	J	0.0025	0.0050	mg/l	J	sp
440-99142-1	WMW6.15S-20150115	1/15/2015	200.7	7440-48-4	Cobalt	0.0030	J	0.0025	0.010	mg/l	J	sp

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440-99142-1	WMW6.15S-20150115	1/15/2015	200.7	7429-90-5	Aluminum	0.033	J	0.025	0.050	mg/l	J	sp
440-99142-1	WMW6.15S-20150115-FD	1/15/2015	200.7	7440-48-4	Cobalt	0.0030	J	0.0025	0.010	mg/l	J	sp
440-99142-1	WMW6.15S-20150115-EB	1/15/2015	200.7	7440-70-2	Calcium	0.056	J	0.050	0.10	mg/l	J	sp
440-99142-1	WMW6.55S-20150115	1/15/2015	200.7	7440-02-0	Nickel	0.0099	J	0.0050	0.010	mg/l	J	sp
440-99142-1	WMW6.55S-20150115	1/15/2015	200.7	7439-92-1	Lead	0.0026	J	0.0025	0.0050	mg/l	J	sp
440-99142-1	WMW6.55S-20150115	1/15/2015	200.7	7440-66-6	Zinc	0.015	J	0.010	0.020	mg/l	J	sp
440-99142-1	WMW6.55S-20150115	1/15/2015	200.7	7440-48-4	Cobalt	0.0026	J	0.0025	0.010	mg/l	J	sp
440-99142-2	TR-3-20150115	1/15/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99142-2	TR-3-20150115	1/15/2015	200.7	7439-92-1	Lead	0.0035	J	0.0025	0.0050	mg/l	J	sp
440-99142-2	TR-6-20150115	1/15/2015	200.7	7439-89-6	Iron	0.054	J	0.050	0.20	mg/l	J	bl,sp
440-99142-2	TR-6-20150115	1/15/2015	200.7	7440-33-7	Tungsten		U	2.5	5.0	mg/l	R	m
440-99142-2	TR-6-20150115	1/15/2015	200.7	7439-92-1	Lead	0.023	J	0.013	0.025	mg/l	J	sp
440-99142-2	TR-7-20150115	1/15/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99142-2	TR-7-20150115-FD	1/15/2015	200.7	7439-92-1	Lead	0.0026	J	0.0025	0.0050	mg/l	J	sp
440-99142-2	TR-7-20150115-FD	1/15/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99142-2	TR-11-20150115	1/15/2015	200.7	7439-92-1	Lead	0.0037	J	0.0025	0.0050	mg/l	J	sp
440-99142-2	TR-11-20150115	1/15/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99238-1	MCF-29B-20150116	1/16/2015	200.7	7429-90-5	Aluminum	1.4	J	1.3	2.5	mg/l	J-	m,sp
440-99238-1	MCF-29B-20150116	1/16/2015	200.7	7440-39-3	Barium		U	0.25	0.50	mg/l	UJ	m
440-99238-1	MCF-29B-20150116	1/16/2015	200.7	7439-89-6	Iron	1.7	J	0.50	2.0	mg/l	J	sp
440-99238-1	MCF-29A-20150116	1/16/2015	200.7	7440-39-3	Barium		U	0.25	0.50	mg/l	UJ	m
440-99238-1	MCF-29A-20150116	1/16/2015	200.7	7429-90-5	Aluminum		U	1.3	2.5	mg/l	UJ	m
440-99238-1	MCF-30B-20150116	1/16/2015	200.7	7439-96-5	Manganese	0.50	J	0.50	1.0	mg/l	J	sp
440-99238-1	MCF-30B-20150116	1/16/2015	200.7	7429-90-5	Aluminum	1.5	J	1.3	2.5	mg/l	J-	m,sp
440-99238-1	MCF-30B-20150116	1/16/2015	200.7	7440-39-3	Barium		U	0.25	0.50	mg/l	UJ	m
440-99238-1	MCF-30B-20150116	1/16/2015	200.7	7439-89-6	Iron	1.4	J	0.50	2.0	mg/l	J	sp
440-99238-1	MCF-30A-20150116	1/16/2015	200.7	7429-90-5	Aluminum	1.7	J	1.3	2.5	mg/l	J-	m,sp
440-99238-1	MCF-30A-20150116	1/16/2015	200.7	7439-89-6	Iron	1.6	J	0.50	2.0	mg/l	J	sp
440-99238-1	MCF-30A-20150116	1/16/2015	200.7	7440-39-3	Barium		U	0.25	0.50	mg/l	UJ	m
440-99238-1	MCF-30A-20150116	1/16/2015	200.7	7439-92-1	Lead	0.17	J	0.13	0.25	mg/l	J	sp
440-99238-1	MCF-29B-20150116	1/16/2015	200.8	7440-38-2	Arsenic	17	J	10	20	ug/l	J	sp
440-99238-1	MCF-29A-20150116	1/16/2015	200.8	7440-38-2	Arsenic	14	J	10	20	ug/l	J	sp
440-99238-2	M-117-20150116	1/16/2015	200.7	7440-66-6	Zinc	0.015	J	0.010	0.020	mg/l	J	sp
440-99238-2	M-117-20150116	1/16/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99238-2	M-117-20150116	1/16/2015	200.7	7429-90-5	Aluminum	0.031	J	0.025	0.050	mg/l	J-	m,sp
440-99238-2	M-117-20150116	1/16/2015	200.7	7440-24-6	Strontium	1.0		0.010	0.020	mg/l	J-	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99238-2	M-117-20150116	1/16/2015	200.7	7440-39-3	Barium	0.021		0.0050	0.010	mg/l	J-	m
440-99238-2	M-121-20150116	1/16/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99238-2	M-121-20150116	1/16/2015	200.7	7429-90-5	Aluminum		U	0.025	0.050	mg/l	UJ	m
440-99238-2	M-121-20150116	1/16/2015	200.7	7440-24-6	Strontium	4.9		0.010	0.020	mg/l	J-	m
440-99238-2	M-121-20150116	1/16/2015	200.7	7440-39-3	Barium	0.022		0.0050	0.010	mg/l	J-	m
440-99312-1	M-190-20150119	1/19/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99312-1	M-190-20150119	1/19/2015	200.7	7429-90-5	Aluminum	0.034	J	0.025	0.050	mg/l	J	sp
440-99312-1	M-190-20150119-FD	1/19/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99312-1	M-189-20150119	1/19/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99312-1	M-193-20150119	1/19/2015	200.7	7439-92-1	Lead	0.0032	J	0.0025	0.0050	mg/l	J	sp
440-99312-1	M-193-20150119	1/19/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99312-1	M-193-20150119	1/19/2015	200.7	7439-96-5	Manganese	0.012	J	0.010	0.020	mg/l	J	sp
440-99312-1	PC-110-20150119	1/19/2015	200.7	7439-89-6	Iron	0.012	J	0.010	0.040	mg/l	J	sp
440-99312-1	PC-110-20150119	1/19/2015	200.7	7440-66-6	Zinc	0.018	J	0.010	0.020	mg/l	J	sp
440-99401-1	M-161D-20150119	1/19/2015	200.7	7439-89-6	Iron	0.010	JB	0.010	0.040	mg/l	J	bl,sp
440-99401-1	M-161D-20150119	1/19/2015	200.7	7439-92-1	Lead	0.0034	J	0.0025	0.0050	mg/l	J	sp
440-99401-1	M-161D-20150119	1/19/2015	200.7	7440-66-6	Zinc	0.018	JB	0.010	0.020	mg/l	J	bl,sp
440-99401-1	PC-108-20150120-FD	1/20/2015	200.7	7440-48-4	Cobalt	0.0035	J	0.0025	0.010	mg/l	J	sp
440-99401-1	PC-108-20150120-FD	1/20/2015	200.7	7440-62-2	Vanadium	0.0059	J	0.0050	0.010	mg/l	J	sp
440-99401-1	PC-108-20150120-FD	1/20/2015	200.7	7439-92-1	Lead	0.0043	J	0.0025	0.0050	mg/l	J	sp
440-99401-1	PC-108-20150120	1/20/2015	200.7	7439-92-1	Lead	0.0034	J	0.0025	0.0050	mg/l	J	sp
440-99401-1	PC-108-20150120	1/20/2015	200.7	7440-62-2	Vanadium	0.0059	J	0.0050	0.010	mg/l	J	sp
440-99401-1	PC-108-20150120	1/20/2015	200.7	7440-48-4	Cobalt	0.0033	J	0.0025	0.010	mg/l	J	sp
440-99401-1	TR-9-20150120	1/20/2015	200.7	7439-92-1	Lead	0.0034	J	0.0025	0.0050	mg/l	J	sp
440-99401-1	TR-9-20150120	1/20/2015	200.7	7439-89-6	Iron	0.010	JB	0.010	0.040	mg/l	J	bl,sp
440-99401-1	TR-10-20150120	1/20/2015	200.7	7439-92-1	Lead	0.0037	J	0.0025	0.0050	mg/l	J	sp
440-99401-1	HMW-15-20150120	1/20/2015	200.7	7440-66-6	Zinc	0.017	JB	0.010	0.020	mg/l	J	sp
440-99401-1	HMW-15-20150120	1/20/2015	200.7	7440-48-4	Cobalt	0.0063	J	0.0025	0.010	mg/l	J	sp
440-99401-1	HMW-13-20150120	1/20/2015	200.7	7440-50-8	Copper	0.0052	J	0.0050	0.010	mg/l	J	sp
440-99401-1	HMW-13-20150120	1/20/2015	200.7	7440-48-4	Cobalt	0.0027	J	0.0025	0.010	mg/l	J	sp
440-99401-1	HMW-13-20150120	1/20/2015	200.7	7440-47-3	Chromium (total)	0.0025	J	0.0025	0.0050	mg/l	J	sp
440-99401-1	HMW-13-20150120	1/20/2015	200.7	7439-89-6	Iron	0.024	JB	0.010	0.040	mg/l	J	bl,sp
440-99401-1	M-120-20150120	1/20/2015	200.7	7440-47-3	Chromium (total)	0.0044	J	0.0025	0.0050	mg/l	J	sp
440-99401-1	PC-98R-20150120	1/20/2015	200.7	7439-89-6	Iron	0.029	JB	0.010	0.040	mg/l	J	bl,sp
440-99401-1	PC-103-20150120	1/20/2015	200.7	7439-89-6	Iron	0.015	JB	0.010	0.040	mg/l	J	bl,sp
440-99401-1	PC-68-20150120	1/20/2015	200.7	7440-48-4	Cobalt	0.0089	J	0.0025	0.010	mg/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99401-1	PC-68-20150120	1/20/2015	200.7	7439-92-1	Lead	0.0041	J	0.0025	0.0050	mg/l	J	sp
440-99401-1	PC-68-20150120	1/20/2015	200.7	7439-89-6	Iron	0.018	JB	0.010	0.040	mg/l	J	bl,sp
440-99576-2	M-155-20150121	1/21/2015	200.7	7440-66-6	Zinc	0.011	J	0.010	0.020	mg/l	J	sp
440-99576-2	M-151-20150121	1/21/2015	200.7	7439-89-6	Iron	0.015	J	0.010	0.040	mg/l	J	sp
440-99576-2	M-165-20150121	1/21/2015	200.7	7439-89-6	Iron	0.014	J	0.010	0.040	mg/l	J	sp
440-99577-1	PC-59-20150120	1/20/2015	200.7	7440-48-4	Cobalt	0.0034	J	0.0025	0.010	mg/l	J	sp
440-99577-1	PC-59-20150120	1/20/2015	200.7	7440-50-8	Copper	0.0065	J	0.0050	0.010	mg/l	J	sp
440-99577-1	PC-60-20150121	1/21/2015	200.7	7429-90-5	Aluminum	0.030	J	0.025	0.050	mg/l	J	sp
440-99577-1	PC-60-20150121	1/21/2015	200.7	7440-48-4	Cobalt	0.0026	J	0.0025	0.010	mg/l	J	sp
440-99577-1	PC-60-20150121	1/21/2015	200.7	7439-89-6	Iron	0.014	J	0.010	0.040	mg/l	J	sp
440-99577-1	PC-60-20150121	1/21/2015	200.7	7440-50-8	Copper	0.0068	J	0.0050	0.010	mg/l	J	sp
440-99577-1	PC-56-20150121	1/21/2015	200.7	7440-50-8	Copper	0.0069	J	0.0050	0.010	mg/l	J	sp
440-99577-1	PC-56-20150121	1/21/2015	200.7	7440-66-6	Zinc	0.010	J	0.010	0.020	mg/l	J	sp
440-99577-1	PC-56-20150121	1/21/2015	200.7	7439-89-6	Iron	0.021	J	0.010	0.040	mg/l	J	sp
440-99577-1	PC-56-20150121	1/21/2015	200.7	7429-90-5	Aluminum	0.034	J	0.025	0.050	mg/l	J	sp
440-99577-1	PC-58-20150121	1/21/2015	200.7	7440-50-8	Copper	0.0068	J	0.0050	0.010	mg/l	J	sp
440-99577-1	PC-94-20150121	1/21/2015	200.7	7439-89-6	Iron	0.013	J	0.010	0.040	mg/l	J	sp
440-99577-1	PC-94-20150121	1/21/2015	200.7	7440-50-8	Copper	0.0060	J	0.0050	0.010	mg/l	J	sp
440-99577-1	PC-107-20150121	1/21/2015	200.7	7439-89-6	Iron	0.015	J	0.010	0.040	mg/l	J	sp
440-99577-1	PC-107-20150121	1/21/2015	200.7	7440-66-6	Zinc	0.013	J	0.010	0.020	mg/l	J	sp
440-99577-1	PC-107-20150121	1/21/2015	200.7	7440-47-3	Chromium (total)	0.0047	J	0.0025	0.0050	mg/l	J	sp
440-99577-1	PC-107-20150121	1/21/2015	200.7	7440-50-8	Copper	0.0056	J	0.0050	0.010	mg/l	J	sp
440-99685-1	PC-53-20150121	1/21/2015	200.7	7440-66-6	Zinc	0.016	J	0.010	0.020	mg/l	J	sp
440-99685-1	M-181-20150121	1/21/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-99685-1	M-181-20150121	1/21/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99685-1	PC-2-20150122	1/22/2015	200.7	7429-90-5	Aluminum	0.040	J	0.025	0.050	mg/l	J	sp
440-99685-1	PC-2-20150122	1/22/2015	200.7	7440-66-6	Zinc	0.012	J	0.010	0.020	mg/l	J	sp
440-99685-1	M-6A-20150122	1/22/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-99685-1	M-6A-20150122	1/22/2015	200.7	7429-90-5	Aluminum	0.025	J	0.025	0.050	mg/l	J	sp
440-99685-1	M-6A-20150122	1/22/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99685-1	PC-4-20150122	1/22/2015	200.7	7429-90-5	Aluminum	0.039	J	0.025	0.050	mg/l	J	sp
440-99685-1	PC-132-20150122	1/22/2015	200.7	7440-48-4	Cobalt	0.0029	J	0.0025	0.010	mg/l	J	sp
440-99685-1	PC-132-20150122	1/22/2015	200.7	7440-02-0	Nickel	0.0051	J	0.0050	0.010	mg/l	J	sp
440-99685-1	PC-132-20150122	1/22/2015	200.7	7440-66-6	Zinc	0.013	J	0.010	0.020	mg/l	J	sp
440-99685-1	MC-53-20150122	1/22/2015	200.7	7429-90-5	Aluminum	0.067		0.025	0.050	mg/l	J	fd
440-99685-1	MC-53-20150122	1/22/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99685-1	MC-53-20150122-FD	1/22/2015	200.7	7429-90-5	Aluminum	0.16		0.050	0.10	mg/l	J	fd
440-99685-1	MC-53-20150122-FD	1/22/2015	200.7	7439-92-1	Lead		U	0.0050	0.010	mg/l	UJ	c
440-99685-1	MC-53-20150122-FD	1/22/2015	200.7	7440-47-3	Chromium (total)	0.0089	J	0.0050	0.010	mg/l	J	sp
440-99685-1	MC-53-20150122-FD	1/22/2015	200.7	7440-33-7	Tungsten		U	1.0	2.0	mg/l	R	m
440-99685-1	PC-127-20150122-FD	1/22/2015	200.7	7439-92-1	Lead		U	0.0050	0.010	mg/l	UJ	c
440-99685-1	PC-127-20150122	1/22/2015	200.7	7440-50-8	Copper	0.0053	J	0.0050	0.010	mg/l	J	be,sp
440-99685-1	PC-127-20150122-FD	1/22/2015	200.7	7439-89-6	Iron	0.023	J	0.020	0.080	mg/l	J	sp
440-99685-1	PC-127-20150122-FD	1/22/2015	200.7	7440-39-3	Barium	0.011	J	0.010	0.020	mg/l	J	sp
440-99685-1	PC-127-20150122-FB	1/22/2015	200.7	7439-89-6	Iron	0.014	JB	0.010	0.040	mg/l	J	bl,sp
440-99685-1	PC-127-20150122-FB	1/22/2015	200.7	7440-70-2	Calcium	0.071	JB	0.050	0.10	mg/l	J	sp
440-99685-1	PC-127-20150122-EB	1/22/2015	200.7	7440-70-2	Calcium	0.067	JB	0.050	0.10	mg/l	J	sp
440-99685-1	PC-127-20150122-EB	1/22/2015	200.7	7440-50-8	Copper	0.0056	J	0.0050	0.010	mg/l	J	sp
440-99685-1	PC-126-20150122	1/22/2015	200.7	7439-92-1	Lead		U	0.0050	0.010	mg/l	UJ	c
440-99685-1	PC-126-20150122	1/22/2015	200.7	7429-90-5	Aluminum	0.052	J	0.050	0.10	mg/l	J	sp
440-99783-1	PC-124-20150122	1/22/2015	200.7	7429-90-5	Aluminum	0.063	J	0.050	0.10	mg/l	J+	m,sp
440-99783-1	PC-124-20150122	1/22/2015	200.7	7440-66-6	Zinc	0.021	J	0.020	0.040	mg/l	J	sp
440-99783-1	PC-124-20150122	1/22/2015	200.7	7439-89-6	Iron	0.020	J	0.020	0.080	mg/l	J	sp
440-99783-1	PC-124-20150122	1/22/2015	200.7	7439-92-1	Lead		U	0.0050	0.010	mg/l	UJ	c
440-99783-1	PC-50-20150123	1/23/2015	200.7	7440-39-3	Barium	0.032	J	0.025	0.050	mg/l	J	sp
440-99783-1	PC-50-20150123	1/23/2015	200.7	7439-92-1	Lead		U	0.013	0.025	mg/l	UJ	c
440-99783-1	PC-129-20150123	1/23/2015	200.7	7439-92-1	Lead		U	0.0050	0.010	mg/l	UJ	c
440-99783-1	PC-129-20150123	1/23/2015	200.7	7439-89-6	Iron	0.042	J	0.020	0.080	mg/l	J	sp
440-99783-1	PC-129-20150123	1/23/2015	200.7	7429-90-5	Aluminum	0.13		0.050	0.10	mg/l	J+	m
440-99783-1	PC-128-20150123	1/23/2015	200.7	7439-92-1	Lead		U	0.0050	0.010	mg/l	UJ	c
440-99783-1	PC-128-20150123	1/23/2015	200.7	7440-39-3	Barium	0.016	J	0.010	0.020	mg/l	J	sp
440-99783-1	PC-128-20150123	1/23/2015	200.7	7429-90-5	Aluminum	0.15		0.050	0.10	mg/l	J+	m
440-99783-1	PC-154-20150123	1/23/2015	200.7	7440-47-3	Chromium (total)	0.0031	J	0.0025	0.0050	mg/l	J	sp
440-99783-1	PC-154-20150123	1/23/2015	200.7	7429-90-5	Aluminum	0.053		0.025	0.050	mg/l	J+	m
440-99783-1	PC-154-20150123	1/23/2015	200.7	7440-66-6	Zinc	0.010	J	0.010	0.020	mg/l	J	sp
440-99783-1	PC-154-20150123	1/23/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-99783-1	PC-158-20150123	1/23/2015	200.7	7439-89-6	Iron	0.038	J	0.010	0.040	mg/l	J	sp
440-99783-1	PC-158-20150123	1/23/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-99783-1	PC-158-20150123	1/23/2015	200.7	7440-66-6	Zinc	0.011	J	0.010	0.020	mg/l	J	sp
440-99783-1	PC-158-20150123	1/23/2015	200.7	7429-90-5	Aluminum	0.066		0.025	0.050	mg/l	J+	m
440-99783-1	PC-159-20150123	1/23/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-99783-1	PC-159-20150123	1/23/2015	200.7	7440-66-6	Zinc	0.010	J	0.010	0.020	mg/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99783-1	PC-159-20150123	1/23/2015	200.7	7429-90-5	Aluminum	0.078		0.025	0.050	mg/l	J+	m
440-99862-1	PC-160-20150126	1/26/2015	200.7	7439-89-6	Iron	0.010	J	0.010	0.040	mg/l	J	sp
440-99862-1	PC-137D-20150126	1/26/2015	200.7	7440-66-6	Zinc	0.010	J	0.010	0.020	mg/l	J	sp
440-99862-1	PC-153-20150126	1/26/2015	200.7	7429-90-5	Aluminum	0.038	J	0.025	0.050	mg/l	J	sp
440-99862-2	M-149-20150126	1/26/2015	200.7	7439-89-6	Iron	0.034	J	0.010	0.040	mg/l	J	sp
440-99862-2	M-149-20150126	1/26/2015	200.7	7440-42-8	Boron	0.81		0.010	0.050	mg/l	J-	m
440-99862-2	M-149-20150126	1/26/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99862-2	M-153-20150126	1/26/2015	200.7	7439-89-6	Iron	0.019	J	0.010	0.040	mg/l	J	sp
440-99862-2	M-153-20150126	1/26/2015	200.7	7440-42-8	Boron	0.79		0.010	0.050	mg/l	J-	m
440-99862-2	M-153-20150126	1/26/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99862-2	M-186-20150126	1/26/2015	200.7	7440-42-8	Boron	3.8		0.010	0.050	mg/l	J-	m
440-99862-2	M-186-20150126	1/26/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99862-2	M-186-20150126-FD	1/26/2015	200.7	7440-42-8	Boron	4.0		0.010	0.050	mg/l	J-	m
440-99862-2	M-186-20150126-FD	1/26/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99974-1	M-186D-20150126	1/26/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99974-1	PC-152-20150126	1/26/2015	200.7	7439-89-6	Iron	0.017	J	0.010	0.040	mg/l	J	sp
440-99974-1	M-162D-20150127	1/27/2015	200.7	7429-90-5	Aluminum	0.027	J	0.025	0.050	mg/l	J	sp
440-99974-1	M-162D-20150127	1/27/2015	200.7	7439-89-6	Iron	0.010	J	0.010	0.040	mg/l	J	sp
440-99974-1	M-162D-20150127	1/27/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99974-1	M-163-20150127	1/27/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99974-1	M-163-20150127	1/27/2015	200.7	7429-90-5	Aluminum	0.027	J	0.025	0.050	mg/l	J	sp
440-99974-1	M-125-20150127	1/27/2015	200.7	7440-33-7	Tungsten		U	2.5	5.0	mg/l	R	m
440-99974-1	MC-45-20150127	1/27/2015	200.7	7439-89-6	Iron	0.014	J	0.010	0.040	mg/l	J	sp
440-99974-1	MC-45-20150127	1/27/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99974-1	MC-45-20150127	1/27/2015	200.7	7440-48-4	Cobalt	0.0055	J	0.0025	0.010	mg/l	J	sp
440-99974-1	M-123-20150127	1/27/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99974-1	M-123-20150127	1/27/2015	200.7	7440-47-3	Chromium (total)	0.0028	J	0.0025	0.0050	mg/l	J	sp
440-99974-1	TR-8-20150127	1/27/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99974-1	PC-152-20150126	1/26/2015	200.8	7440-36-0	Antimony	0.69	J	0.50	2.0	ug/l	J	sp
440-99974-1	MC-45-20150127	1/27/2015	200.8	7440-36-0	Antimony	0.56	J	0.50	2.0	ug/l	J	sp
440-100079-1	MC-50-20150127	1/27/2015	200.7	7439-96-5	Manganese	0.81		0.10	0.20	mg/l	J+	m
440-100079-1	MC-50-20150127	1/27/2015	200.7	7429-90-5	Aluminum	0.026	J	0.025	0.050	mg/l	J	sp
440-100079-1	MC-50-20150127	1/27/2015	200.7	7440-48-4	Cobalt	0.0063	J	0.0025	0.010	mg/l	J	sp
440-100079-1	MC-50-20150127	1/27/2015	200.7	7439-89-6	Iron	0.13	J	0.10	0.40	mg/l	J	be,c,sp
440-100079-1	MC-50-20150127-EB	1/27/2015	200.7	7440-09-7	Potassium	0.31	J	0.25	0.50	mg/l	J	sp
440-100079-1	MC-50-20150127-EB	1/27/2015	200.7	7440-50-8	Copper	0.0057	J	0.0050	0.010	mg/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100079-1	MC-50-20150127-EB	1/27/2015	200.7	7440-42-8	Boron	0.013	J	0.010	0.050	mg/l	J	sp
440-100079-1	MC-50-20150127-EB	1/27/2015	200.7	7439-89-6	Iron	0.011	J	0.010	0.040	mg/l	J	sp
440-100079-1	M-141-20150128	1/28/2015	200.7	7439-89-6	Iron	0.022	J	0.020	0.080	mg/l	J+	c,sp
440-100079-1	M-141-20150128	1/28/2015	200.7	7439-96-5	Manganese	0.45		0.020	0.040	mg/l	J+	m
440-100079-1	M-141-20150128-FD	1/28/2015	200.7	7439-96-5	Manganese	0.42		0.010	0.020	mg/l	J+	m
440-100079-1	M-141-20150128-FD	1/28/2015	200.7	7439-89-6	Iron	0.010	J	0.010	0.040	mg/l	J+	c,sp
440-100079-1	M-148A-20150128	1/28/2015	200.7	7439-92-1	Lead	0.0033	J	0.0025	0.0050	mg/l	J	sp
440-100079-1	M-164-20150128	1/28/2015	200.7	7439-89-6	Iron	0.017	J	0.010	0.040	mg/l	J	sp
440-100079-1	M-77-20150128	1/28/2015	200.7	7439-96-5	Manganese	1.3		0.010	0.020	mg/l	J+	m
440-100079-1	M-77-20150128-FB	1/28/2015	200.7	7440-42-8	Boron	0.015	J	0.010	0.050	mg/l	J	sp
440-100230-2	M-92-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100230-2	M-92-20150129	1/29/2015	200.7	7440-42-8	Boron	1.5		0.010	0.050	mg/l	J+	m
440-100230-2	M-74-20150129	1/29/2015	200.7	7429-90-5	Aluminum	0.041	J	0.025	0.050	mg/l	J	sp
440-100230-2	M-74-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100230-2	M-74-20150129	1/29/2015	200.7	7440-42-8	Boron	4.6		0.010	0.050	mg/l	J+	m
440-100230-2	M-97-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100230-2	M-97-20150129-FD	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100230-2	M-97-20150129	1/29/2015	200.7	7440-42-8	Boron	5.6		0.010	0.050	mg/l	J+	m
440-100230-2	M-97-20150129-FD	1/29/2015	200.7	7439-92-1	Lead	0.0037	J	0.0025	0.0050	mg/l	J	bl,sp
440-100230-2	M-97-20150129-FD	1/29/2015	200.7	7440-42-8	Boron	5.9		0.010	0.050	mg/l	J+	m
440-100230-2	M-97-20150129	1/29/2015	200.7	7439-92-1	Lead	0.0044	J	0.0025	0.0050	mg/l	J	bl,sp
440-100230-2	M-133-20150129	1/29/2015	200.7	7440-42-8	Boron	2.1		0.010	0.050	mg/l	J+	m
440-100230-2	M-133-20150129	1/29/2015	200.7	7429-90-5	Aluminum	0.026	J	0.025	0.050	mg/l	J	sp
440-100230-2	M-133-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100230-2	M-73-20150129	1/29/2015	200.7	7440-42-8	Boron	14		0.010	0.050	mg/l	J+	m
440-100230-2	M-73-20150129	1/29/2015	200.7	7429-90-5	Aluminum	0.040	J	0.025	0.050	mg/l	J	sp
440-100230-2	M-73-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100230-2	M-73-20150129-EB	1/29/2015	200.7	7440-42-8	Boron	0.011	J	0.010	0.050	mg/l	J	sp
440-100230-2	M-124-20150129	1/29/2015	200.7	7440-42-8	Boron	2.0		0.010	0.050	mg/l	J+	m
440-100230-2	M-124-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100230-2	M-67-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100230-2	M-67-20150129	1/29/2015	200.7	7440-42-8	Boron	9.7		0.010	0.050	mg/l	J+	m
440-100230-2	M-14A-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100230-2	M-14A-20150129	1/29/2015	200.7	7440-42-8	Boron	2.6		0.010	0.050	mg/l	J+	m
440-100386-2	M-37-20150129	1/29/2015	200.7	7429-90-5	Aluminum		U	0.025	0.050	mg/l	UJ	c
440-100386-2	M-37-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100386-2	M-35-20150129	1/29/2015	200.7	7429-90-5	Aluminum		U	0.025	0.050	mg/l	UJ	c
440-100386-2	M-35-20150129	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100386-2	M-35-20150129	1/29/2015	200.7	7439-89-6	Iron	0.012	J	0.010	0.040	mg/l	J	sp
440-100386-2	M-35-20150129-FD	1/29/2015	200.7	7429-90-5	Aluminum		U	0.025	0.050	mg/l	UJ	c
440-100386-2	M-35-20150129-FD	1/29/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100386-2	M-35-20150129-FD	1/29/2015	200.7	7439-89-6	Iron	0.011	J	0.010	0.040	mg/l	J	sp
440-100386-2	M-52-20150130	1/30/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100386-2	M-52-20150130	1/30/2015	200.7	7439-89-6	Iron	0.010	J	0.010	0.040	mg/l	J	sp
440-100386-2	M-52-20150130	1/30/2015	200.7	7429-90-5	Aluminum		U	0.025	0.050	mg/l	UJ	c
440-100386-2	M-128-20150130	1/30/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100386-2	M-128-20150130	1/30/2015	200.7	7429-90-5	Aluminum		U	0.025	0.050	mg/l	UJ	c
440-100386-2	M-11-20150130	1/30/2015	200.7	7429-90-5	Aluminum		U	0.025	0.050	mg/l	UJ	c
440-100386-2	M-11-20150130	1/30/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100386-2	M-146-20150130	1/30/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100386-2	M-146-20150130	1/30/2015	200.7	7429-90-5	Aluminum		U	0.025	0.050	mg/l	UJ	c
440-100558-1	M-144-20150202	2/2/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100558-1	M-64-20150202	2/2/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100558-1	M-191-20150202	2/2/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100558-1	M-22A-20150202	2/2/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100558-1	M-191-20150202-EB	2/2/2015	200.7	7440-42-8	Boron	0.012	J	0.010	0.050	mg/l	J	sp
440-100558-1	M-191-20150202-EB	2/2/2015	200.7	7429-90-5	Aluminum		U	0.025	0.050	mg/l	UJ	c
440-100558-1	M-192-20150202	2/2/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100558-1	M-192-20150202	2/2/2015	200.7	7439-96-5	Manganese	0.017	J	0.010	0.020	mg/l	J	sp
440-100759-1	M-13-20150202	2/2/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100759-1	M-65-20150203	2/3/2015	200.7	7440-33-7	Tungsten		U	1.0	2.0	mg/l	R	m
440-100759-1	M-138-20150203	2/3/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100759-1	M-138-20150203-FD	2/3/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100759-1	M-66-20150203	2/3/2015	200.7	7440-33-7	Tungsten		U	1.0	2.0	mg/l	R	m
440-100759-1	M-66-20150203-FD	2/3/2015	200.7	7440-33-7	Tungsten		U	1.0	2.0	mg/l	R	m
440-100759-1	M-137-20150203	2/3/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100759-1	M-142-20150203	2/3/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100759-1	M-115-20150203	2/3/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100759-1	M-76-20150203	2/3/2015	200.7	7439-89-6	Iron	0.011	JB	0.010	0.040	mg/l	J	bl,sp
440-100759-1	M-76-20150203	2/3/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-100759-1	M-76-20150203	2/3/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100759-1	M-76-20150203	2/3/2015	200.7	7429-90-5	Aluminum	0.025	J	0.025	0.050	mg/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100759-1	M-25-20150203-FD	2/3/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100759-1	M-25-20150203	2/3/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100881-1	M-75-20150203	2/3/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100881-1	HM-2-20150203	2/3/2015	200.7	7440-39-3	Barium	0.0094	J	0.0050	0.010	mg/l	J	sp
440-100881-1	HM-2-20150203	2/3/2015	200.7	7440-02-0	Nickel	0.0059	J	0.0050	0.010	mg/l	J	sp
440-100881-1	HM-2-20150203	2/3/2015	200.7	7439-89-6	Iron	0.014	J	0.010	0.040	mg/l	J	sp
440-100881-1	M-72-20150204	2/4/2015	200.7	7429-90-5	Aluminum	0.052	J	0.050	0.10	mg/l	J	sp
440-100881-1	M-72-20150204	2/4/2015	200.7	7439-96-5	Manganese	0.028	J	0.020	0.040	mg/l	J	sp
440-100881-1	M-132-20150204	2/4/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100881-1	M-71-20150204	2/4/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100881-1	M-71-20150204	2/4/2015	200.7	7429-90-5	Aluminum	0.025	J	0.025	0.050	mg/l	J	sp
440-100881-1	M-68-20150204	2/4/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100881-1	M-147-20150204	2/4/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100881-1	M-70-20150204	2/4/2015	200.7	7439-96-5	Manganese	0.013	J	0.010	0.020	mg/l	J	sp
440-100881-1	M-70-20150204	2/4/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100881-1	M-70-20150204	2/4/2015	200.7	7429-90-5	Aluminum	0.045	J	0.025	0.050	mg/l	J	sp
440-100881-1	M-139-20150204	2/4/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-100881-1	M-58-20150204	2/4/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101036-1	M-2A-20150204	2/4/2015	200.7	7439-89-6	Iron	0.034	JB	0.010	0.040	mg/l	J	bl,sp
440-101036-1	M-69-20150204	2/4/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	MC-29-20150205	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	MC-51-20150205	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	MC-51-20150205	2/5/2015	200.7	7439-89-6	Iron	0.014	JB	0.010	0.040	mg/l	J	bl,sp
440-101036-1	MC-51-20150205-FD	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	M-134-20150205	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	MC-93-20150205	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	MC-97-20150205	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	MC-97-20150205	2/5/2015	200.7	7439-89-6	Iron	0.011	JB	0.010	0.040	mg/l	J	bl,sp
440-101036-1	MC-97-20150205	2/5/2015	200.7	7429-90-5	Aluminum	0.048	J	0.025	0.050	mg/l	J	sp
440-101036-1	M-79-20150205	2/5/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101036-1	M-79-20150205	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	M-79-20150205	2/5/2015	200.7	7439-89-6	Iron	0.035	JB	0.010	0.040	mg/l	J	bl,sp
440-101036-1	M-23-20150205	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	M-135-20150205	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101036-1	M-7B-20150205	2/5/2015	200.7	7439-92-1	Lead		U	0.0025	0.0050	mg/l	UJ	c
440-101116-2	M-136-20150205	2/5/2015	200.7	7439-92-1	Lead	0.0049	J	0.0025	0.0050	mg/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-101116-2	M-136-20150205	2/5/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101116-2	MW-16-20150205	2/5/2015	200.7	7440-47-3	Chromium (total)	0.0068	J	0.0050	0.010	mg/l	J	sp
440-101116-2	M-126-20150206	2/6/2015	200.7	7440-47-3	Chromium (total)	0.0058	J	0.0050	0.010	mg/l	J	sp
440-101116-2	M-126-20150206-FD	2/6/2015	200.7	7440-47-3	Chromium (total)	0.0063	J	0.0050	0.010	mg/l	J	sp
440-101116-2	M-81A-20150206	2/6/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101116-2	M-5A-20150206	2/6/2015	200.7	7440-47-3	Chromium (total)	0.0069	J	0.0050	0.010	mg/l	J	sp
440-101116-2	M-80-20150206	2/6/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101116-2	M-57A-20150206	2/6/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101116-2	M-57A-20150206-FD	2/6/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101116-2	M-83-20150206	2/6/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101116-2	M-83-20150206	2/6/2015	200.7	7439-92-1	Lead	0.0057		0.0025	0.0050	mg/l	J	fd
440-101116-2	M-83-20150206-FD	2/6/2015	200.7	7439-92-1	Lead	0.0078		0.0025	0.0050	mg/l	J	fd
440-101116-2	M-83-20150206-FD	2/6/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101116-2	M-140-20150206	2/6/2015	200.7	7439-89-6	Iron	0.010	J	0.010	0.040	mg/l	J	sp
440-101116-2	M-140-20150206	2/6/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-101116-2	M-140-20150206	2/6/2015	200.7	7439-96-5	Manganese	0.017	J	0.010	0.020	mg/l	J	sp
440-104147-2	M-189-20150310-EB	3/10/2015	200.7	7439-95-4	Magnesium	0.013	J	0.010	0.020	mg/l	J	sp
440-104147-2	M-191-20150310	3/10/2015	200.7	7439-92-1	Lead	0.0042	J	0.0025	0.0050	mg/l	J	sp
440-104245-2	M-186D-20150311	3/11/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-104245-2	M-186D-20150311-FB	3/11/2015	200.7	7440-42-8	Boron	0.011	J	0.010	0.050	mg/l	J	sp
440-104245-2	M-192-20150311	3/11/2015	200.7	7440-33-7	Tungsten		UF1	0.50	1.0	mg/l	R	m
440-104245-2	M-192-20150311	3/11/2015	200.7	7439-89-6	Iron	0.012	J	0.010	0.040	mg/l	J	sp
440-104245-2	M-192-20150311	3/11/2015	200.7	7429-90-5	Aluminum	0.027	J	0.025	0.050	mg/l	J	sp
440-104245-2	M-192-20150311	3/11/2015	200.7	7439-96-5	Manganese	0.010	J	0.010	0.020	mg/l	J	sp
440-104245-2	M-193-20150311	3/11/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-104245-2	M-193-20150311-FD	3/11/2015	200.7	7439-89-6	Iron	0.011	J	0.010	0.040	mg/l	J	sp
440-104245-2	M-193-20150311-FD	3/11/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-104383-2	M-161D-20150312	3/12/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-104383-2	M-162D-20150312	3/12/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-104383-2	H-28-20150312	3/12/2015	200.7	7440-33-7	Tungsten		U	1.0	2.0	mg/l	R	m
440-104383-2	H-28-20150312	3/12/2015	200.7	7440-48-4	Cobalt	0.0069	J	0.0050	0.020	mg/l	J	sp
440-104383-2	H-28-20150312	3/12/2015	200.7	7440-47-3	Chromium (total)	0.0071	J	0.0050	0.010	mg/l	J	sp
440-108824-3	M-10-20150505	5/5/2015	200.7	7429-90-5	Aluminum	0.044	J	0.025	0.050	mg/l	J	sp
440-108824-3	M-10-20150505	5/5/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-108824-3	M-10-20150505	5/5/2015	200.7	7439-92-1	Lead	0.0030	J	0.0025	0.0050	mg/l	J	sp
440-108824-3	M-32-20150505	5/5/2015	200.7	7429-90-5	Aluminum	0.029	J	0.025	0.050	mg/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-108824-3	M-32-20150505	5/5/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-108824-3	M-33-20150505	5/5/2015	200.7	7429-90-5	Aluminum	0.027	J	0.025	0.050	mg/l	J	sp
440-108824-3	M-33-20150505	5/5/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-108990-1	PC-157B-20150506	5/6/2015	200.7	7440-48-4	Cobalt	0.0052	J	0.0025	0.010	mg/l	J	sp
440-108990-1	PC-155B-20150506	5/6/2015	200.7	7439-92-1	Lead	0.0034	J	0.0025	0.0050	mg/l	J	sp
440-108990-1	PC-155B-20150506	5/6/2015	200.7	7440-48-4	Cobalt	0.0036	J	0.0025	0.010	mg/l	J	sp
440-108990-1	PC-155A-20150506	5/6/2015	200.7	7439-92-1	Lead	0.0038	J	0.0025	0.0050	mg/l	J	sp
440-108990-1	PC-155A-20150506	5/6/2015	200.7	7440-66-6	Zinc	0.011	J	0.010	0.020	mg/l	J	sp
440-108990-1	PC-155A-20150506	5/6/2015	200.7	7440-48-4	Cobalt	0.0051	J	0.0025	0.010	mg/l	J	sp
440-108990-1	PC-155A-20150506	5/6/2015	200.7	7439-89-6	Iron	0.016	JB	0.010	0.040	mg/l	J	bl,sp
440-108990-1	PC-156B-20150506	5/6/2015	200.7	7440-66-6	Zinc	0.010	J	0.010	0.020	mg/l	J	sp
440-108990-1	PC-156B-20150506	5/6/2015	200.7	7439-89-6	Iron	0.018	JB	0.010	0.040	mg/l	J	be,bl,sp
440-108990-1	PC-156B-20150506	5/6/2015	200.7	7440-48-4	Cobalt	0.0045	J	0.0025	0.010	mg/l	J	sp
440-108990-1	PC-156B-20150506-EB	5/6/2015	200.7	7439-89-6	Iron	0.017	J	0.010	0.040	mg/l	J	sp
440-108990-1	PC-156A-20150506	5/6/2015	200.7	7440-48-4	Cobalt	0.0033	J	0.0025	0.010	mg/l	J	sp
440-109157-1	M-38-20150507	5/7/2015	200.7	7439-92-1	Lead	0.0061	J	0.0050	0.010	mg/l	J	bl,sp
440-109157-1	M-38-20150507	5/7/2015	200.7	7439-89-6	Iron	0.035	J	0.020	0.080	mg/l	J	sp
440-109157-1	M-38-20150507	5/7/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-109157-1	M-38-20150507-FB	5/7/2015	200.7	7440-42-8	Boron	0.012	J	0.010	0.050	mg/l	J	sp
440-109157-1	M-38-20150507-FD	5/7/2015	200.7	7439-89-6	Iron	0.028	J	0.020	0.080	mg/l	J	sp
440-109157-1	M-38-20150507-FD	5/7/2015	200.7	7440-33-7	Tungsten		U	0.50	1.0	mg/l	R	m
440-99401-1	M-161D-20150119	1/19/2015	6020	7440-61-1	Uranium-238	4.3	J	1.2	5.0	ug/l	J	sp
440-99401-1	TR-9-20150120	1/20/2015	6020	7440-61-1	Uranium-238	2.4		0.23	1.0	ug/l	J+	m
440-99401-1	TR-10-20150120	1/20/2015	6020	7440-61-1	Uranium-238	4.3	J	1.2	5.0	ug/l	J	sp
440-99401-1	M-118-20150120	1/20/2015	6020	7440-61-1	Uranium-238	2.0	J	1.2	5.0	ug/l	J	sp
440-99862-2	M-149-20150126	1/26/2015	6020	7440-61-1	Uranium-238	6.1		0.23	1.0	ug/l	J+	m
440-99862-2	M-153-20150126	1/26/2015	6020	7440-61-1	Uranium-238	4.3		0.23	1.0	ug/l	J+	m
440-99862-2	M-186-20150126	1/26/2015	6020	7440-61-1	Uranium-238	7.7		0.23	1.0	ug/l	J+	m
440-99862-2	M-186-20150126-FD	1/26/2015	6020	7440-61-1	Uranium-238	8.0		0.23	1.0	ug/l	J+	m
440-100558-1	M-144-20150202	2/2/2015	6020	7440-61-1	Uranium-238	23		0.23	1.0	ug/l	J+	m
440-100558-1	M-64-20150202	2/2/2015	6020	7440-61-1	Uranium-238	16		0.23	1.0	ug/l	J+	m
440-100558-1	M-191-20150202	2/2/2015	6020	7440-61-1	Uranium-238	12		0.23	1.0	ug/l	J+	m
440-100558-1	M-22A-20150202	2/2/2015	6020	7440-61-1	Uranium-238	47		0.23	1.0	ug/l	J+	m
440-100558-1	M-192-20150202	2/2/2015	6020	7440-61-1	Uranium-238	10		0.23	1.0	ug/l	J+	m
440-100759-1	M-13-20150202	2/2/2015	6020	7440-61-1	Uranium-238	23		0.23	1.0	ug/l	J+	m
440-100759-1	M-65-20150203	2/3/2015	6020	7440-61-1	Uranium-238	52		1.2	5.0	ug/l	J+	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100759-1	M-138-20150203	2/3/2015	6020	7440-61-1	Uranium-238	31		0.23	1.0	ug/l	J+	m
440-100759-1	M-138-20150203-FD	2/3/2015	6020	7440-61-1	Uranium-238	29		0.23	1.0	ug/l	J+	m
440-100759-1	M-66-20150203-FD	2/3/2015	6020	7440-61-1	Uranium-238	47		0.23	1.0	ug/l	J+	m
440-100759-1	M-66-20150203	2/3/2015	6020	7440-61-1	Uranium-238	48		0.23	1.0	ug/l	J+	m
440-100759-1	M-137-20150203	2/3/2015	6020	7440-61-1	Uranium-238	36		0.23	1.0	ug/l	J+	m
440-100759-1	M-142-20150203	2/3/2015	6020	7440-61-1	Uranium-238	8.5		0.23	1.0	ug/l	J+	m
440-100759-1	M-115-20150203	2/3/2015	6020	7440-61-1	Uranium-238	11		0.23	1.0	ug/l	J+	m
440-100759-1	M-76-20150203	2/3/2015	6020	7440-61-1	Uranium-238	12		0.23	1.0	ug/l	J+	m
440-100759-1	M-25-20150203	2/3/2015	6020	7440-61-1	Uranium-238	57		0.23	1.0	ug/l	J+	m
440-100759-1	M-25-20150203-FD	2/3/2015	6020	7440-61-1	Uranium-238	61		0.23	1.0	ug/l	J+	m
440-104147-2	M-190-20150310	3/10/2015	6020	7440-61-1	Uranium-238	5.9	J	2.3	10	ug/l	J	sp
440-104147-2	M-189-20150310	3/10/2015	6020	7440-61-1	Uranium-238	7.7	J	2.3	10	ug/l	J	sp
440-104147-2	M-191-20150310	3/10/2015	6020	7440-61-1	Uranium-238	9.7	J	2.3	10	ug/l	J	sp
440-104245-2	M-186D-20150311	3/11/2015	6020	7440-61-1	Uranium-238	3.6	J	2.3	10	ug/l	J	sp
440-104245-2	M-192-20150311	3/11/2015	6020	7440-61-1	Uranium-238	8.9	J	2.3	10	ug/l	J	sp
440-104383-2	M-161D-20150312	3/12/2015	6020	7440-61-1	Uranium-238	3.9	J	2.3	10	ug/l	J	sp
440-104383-2	M-162D-20150312	3/12/2015	6020	7440-61-1	Uranium-238	4.5	J	2.3	10	ug/l	J	sp
440-108824-3	M-10-20150505	5/5/2015	6020	7440-61-1	Uranium-238	2.5	J	2.3	10	ug/l	J	sp
440-98805-1	PC-21A-20150112	1/12/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	UJ	c
440-98805-1	PC-21A-20150112-FD	1/12/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	UJ	c
440-98909-1	PC-40-20150113	1/13/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	UJ	c
440-98909-1	PC-54-20150113	1/13/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	UJ	c
440-98909-1	PC-64-20150113	1/13/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	UJ	c
440-98909-1	PC-65-20150113	1/13/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	UJ	c
440-99238-2	M-121-20150116	1/16/2015	7470A	7439-97-6	Mercury	0.14	J	0.10	0.20	ug/l	J	sp
440-99685-1	PC-53-20150121	1/21/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	R	m
440-99685-1	PC-2-20150122	1/22/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	R	m
440-99685-1	M-6A-20150122-FB	1/22/2015	7470A	7439-97-6	Mercury	0.11	J	0.10	0.20	ug/l	J-	m,sp
440-99685-1	M-6A-20150122	1/22/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	R	m
440-99685-1	PC-4-20150122	1/22/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	R	m
440-99685-1	PC-132-20150122	1/22/2015	7470A	7439-97-6	Mercury		UL	0.10	0.20	ug/l	R	m
440-99685-1	MC-53-20150122	1/22/2015	7470A	7439-97-6	Mercury		UL	0.10	0.20	ug/l	R	m
440-99685-1	MC-53-20150122-FD	1/22/2015	7470A	7439-97-6	Mercury		UL	0.10	0.20	ug/l	R	m
440-99685-1	PC-127-20150122-FD	1/22/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	R	m
440-99685-1	PC-127-20150122	1/22/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	R	m
440-99685-1	PC-127-20150122-FB	1/22/2015	7470A	7439-97-6	Mercury	0.15	J	0.10	0.20	ug/l	J-	m,sp

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SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99685-1	PC-126-20150122	1/22/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	R	m
440-99783-1	PC-124-20150122	1/22/2015	7470A	7439-97-6	Mercury		U	0.10	0.20	ug/l	R	m
440-99783-1	PC-50-20150123	1/23/2015	7470A	7439-97-6	Mercury		UL	0.10	0.20	ug/l	R	m
440-99783-1	PC-129-20150123	1/23/2015	7470A	7439-97-6	Mercury		UL	0.10	0.20	ug/l	R	m
440-99783-1	PC-128-20150123	1/23/2015	7470A	7439-97-6	Mercury		UL	0.10	0.20	ug/l	R	m
440-99783-1	PC-154-20150123	1/23/2015	7470A	7439-97-6	Mercury		UL	0.10	0.20	ug/l	R	m
440-99783-1	PC-158-20150123	1/23/2015	7470A	7439-97-6	Mercury		UL	0.10	0.20	ug/l	R	m
440-99783-1	PC-159-20150123	1/23/2015	7470A	7439-97-6	Mercury		UL	0.10	0.20	ug/l	R	m
440-99862-1	PC-160-20150126	1/26/2015	7470A	7439-97-6	Mercury		U	0.50	1.0	ug/l	R	m
440-99862-1	PC-134D-20150126	1/26/2015	7470A	7439-97-6	Mercury		U	0.50	1.0	ug/l	R	m
440-99862-1	PC-137D-20150126	1/26/2015	7470A	7439-97-6	Mercury		U	0.50	1.0	ug/l	R	m
440-99862-1	PC-151-20150126	1/26/2015	7470A	7439-97-6	Mercury		U	0.50	1.0	ug/l	R	m
440-99862-1	PC-151-20150126-FD	1/26/2015	7470A	7439-97-6	Mercury		U	0.50	1.0	ug/l	R	m
440-99862-1	PC-153-20150126	1/26/2015	7470A	7439-97-6	Mercury		U	0.50	1.0	ug/l	R	m
440-100079-1	MC-50-20150127	1/27/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h
440-99142-2	TR-6-20150115	1/15/2015	218.6	18540-29-9	Chromium VI	28		1.3	5.0	ug/l	J-	h
440-99238-2	M-117-20150116	1/16/2015	218.6	18540-29-9	Chromium VI	16		0.25	1.0	ug/l	J-	h
440-99238-2	M-121-20150116	1/16/2015	218.6	18540-29-9	Chromium VI	140		2.5	10	ug/l	J-	h
440-99312-1	M-190-20150119	1/19/2015	218.6	18540-29-9	Chromium VI	390		5.0	20	ug/l	J-	h
440-99312-1	M-190-20150119-FD	1/19/2015	218.6	18540-29-9	Chromium VI	390		5.0	20	ug/l	J-	h
440-99401-1	M-161D-20150119	1/19/2015	218.6	18540-29-9	Chromium VI	18	H	0.25	1.0	ug/l	J-	h
440-99401-1	TR-10-20150120	1/20/2015	218.6	18540-29-9	Chromium VI	130		2.5	10	ug/l	J-	h
440-99685-1	M-181-20150121	1/21/2015	218.6	18540-29-9	Chromium VI	37		0.25	1.0	ug/l	J-	h
440-99685-1	M-6A-20150122	1/22/2015	218.6	18540-29-9	Chromium VI	0.41	J	0.25	1.0	ug/l	J	sp
440-99974-1	M-186D-20150126	1/26/2015	218.6	18540-29-9	Chromium VI	31		0.25	1.0	ug/l	J-	h
440-99974-1	M-162D-20150127	1/27/2015	218.6	18540-29-9	Chromium VI	29		0.25	1.0	ug/l	J-	h
440-99974-1	M-163-20150127	1/27/2015	218.6	18540-29-9	Chromium VI	26		0.25	1.0	ug/l	J-	h
440-100079-1	MC-50-20150127-EB	1/27/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h
440-100079-1	M-141-20150128	1/28/2015	218.6	18540-29-9	Chromium VI	5800		250	1000	ug/l	J-	h
440-100079-1	M-141-20150128-FD	1/28/2015	218.6	18540-29-9	Chromium VI	5800		250	1000	ug/l	J-	h
440-100079-1	M-31A-20150128	1/28/2015	218.6	18540-29-9	Chromium VI	5000		25	100	ug/l	J-	h
440-100079-1	M-148A-20150128	1/28/2015	218.6	18540-29-9	Chromium VI	110		2.5	10	ug/l	J-	h
440-100230-2	M-74-20150129	1/29/2015	218.6	18540-29-9	Chromium VI	1500		25	100	ug/l	J-	h
440-100230-2	M-133-20150129	1/29/2015	218.6	18540-29-9	Chromium VI	980		25	100	ug/l	J-	h
440-100386-2	M-37-20150129	1/29/2015	218.6	18540-29-9	Chromium VI	8.9		0.25	1.0	ug/l	J-	h
440-100386-2	M-35-20150129	1/29/2015	218.6	18540-29-9	Chromium VI	4800		50	200	ug/l	J-	h

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100386-2	M-35-20150129-FD	1/29/2015	218.6	18540-29-9	Chromium VI	4800		50	200	ug/l	J-	h
440-100386-2	M-52-20150130	1/30/2015	218.6	18540-29-9	Chromium VI	1900		25	100	ug/l	J-	h
440-100386-2	M-128-20150130	1/30/2015	218.6	18540-29-9	Chromium VI	35		0.25	1.0	ug/l	J-	h
440-100386-2	M-11-20150130	1/30/2015	218.6	18540-29-9	Chromium VI	1200		25	100	ug/l	J-	h
440-100759-1	M-13-20150202	2/2/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h
440-100759-1	M-65-20150203	2/3/2015	218.6	18540-29-9	Chromium VI	20000		130	500	ug/l	J-	h
440-100759-1	M-66-20150203	2/3/2015	218.6	18540-29-9	Chromium VI	20000		130	500	ug/l	J-	h
440-100759-1	M-66-20150203-FD	2/3/2015	218.6	18540-29-9	Chromium VI	20000		130	500	ug/l	J-	h
440-100759-1	M-142-20150203	2/3/2015	218.6	18540-29-9	Chromium VI	37		0.25	1.0	ug/l	J-	h
440-100759-1	M-25-20150203-FD	2/3/2015	218.6	18540-29-9	Chromium VI	37		0.25	1.0	ug/l	J	fd
440-100759-1	M-25-20150203	2/3/2015	218.6	18540-29-9	Chromium VI	7500		50	200	ug/l	J	fd
440-100881-1	M-75-20150203	2/3/2015	218.6	18540-29-9	Chromium VI	1700		25	100	ug/l	J-	h,m
440-100881-1	M-132-20150204	2/4/2015	218.6	18540-29-9	Chromium VI	280		5.0	20	ug/l	J-	h
440-100881-1	M-71-20150204	2/4/2015	218.6	18540-29-9	Chromium VI	5700		50	200	ug/l	J-	h,m
440-100881-1	M-68-20150204	2/4/2015	218.6	18540-29-9	Chromium VI	1800		50	200	ug/l	J-	h
440-100881-1	M-147-20150204	2/4/2015	218.6	18540-29-9	Chromium VI	190		5.0	20	ug/l	J-	h
440-100881-1	M-139-20150204	2/4/2015	218.6	18540-29-9	Chromium VI	16		0.25	1.0	ug/l	J-	m
440-101036-1	M-2A-20150204	2/4/2015	218.6	18540-29-9	Chromium VI	14000		50	200	ug/l	J-	h
440-101036-1	M-69-20150204	2/4/2015	218.6	18540-29-9	Chromium VI	53		0.25	1.0	ug/l	J-	h
440-101036-1	MC-29-20150205	2/5/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h,m
440-101036-1	MC-51-20150205	2/5/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h,m
440-101036-1	MC-51-20150205-FD	2/5/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h,m
440-101036-1	M-134-20150205	2/5/2015	218.6	18540-29-9	Chromium VI	160		2.5	10	ug/l	J-	h
440-101036-1	M-134-20150205-FB	2/5/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h
440-101036-1	MC-93-20150205	2/5/2015	218.6	18540-29-9	Chromium VI	63		5.0	20	ug/l	J-	h,m
440-101036-1	M-134-20150205-EB	2/5/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h
440-101036-1	MC-97-20150205	2/5/2015	218.6	18540-29-9	Chromium VI	5.3		0.50	2.0	ug/l	J-	h,m
440-101036-1	M-79-20150205	2/5/2015	218.6	18540-29-9	Chromium VI	170		2.5	10	ug/l	J-	h,m
440-101036-1	M-23-20150205	2/5/2015	218.6	18540-29-9	Chromium VI	320		5.0	20	ug/l	J-	h,m
440-101036-1	M-7B-20150205-FB	2/5/2015	218.6	18540-29-9	Chromium VI	0.29	J	0.25	1.0	ug/l	J	sp
440-101116-2	M-136-20150205	2/5/2015	218.6	18540-29-9	Chromium VI	71		0.25	1.0	ug/l	J-	h
440-101116-2	MW-16-20150205	2/5/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h
440-101116-2	M-126-20150206-FD	2/6/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h
440-101116-2	M-126-20150206	2/6/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h
440-101116-2	M-81A-20150206	2/6/2015	218.6	18540-29-9	Chromium VI	2400		50	200	ug/l	J-	h,m
440-101116-2	M-81A-20150206-FB	2/6/2015	218.6	18540-29-9	Chromium VI	1.0		0.25	1.0	ug/l	J-	h

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-101116-2	M-5A-20150206	2/6/2015	218.6	18540-29-9	Chromium VI		U	0.25	1.0	ug/l	UJ	h
440-101116-2	M-80-20150206	2/6/2015	218.6	18540-29-9	Chromium VI	1400		25	100	ug/l	J-	h
440-101116-2	M-5A-20150206-FB	2/6/2015	218.6	18540-29-9	Chromium VI	0.29	J	0.25	1.0	ug/l	J-	h,sp
440-101116-2	M-57A-20150206	2/6/2015	218.6	18540-29-9	Chromium VI	53		0.25	1.0	ug/l	J-	h
440-101116-2	M-57A-20150206-FD	2/6/2015	218.6	18540-29-9	Chromium VI	53		0.25	1.0	ug/l	J-	h
440-101116-2	M-83-20150206	2/6/2015	218.6	18540-29-9	Chromium VI	1100		25	100	ug/l	J-	h
440-101116-2	M-83-20150206-FD	2/6/2015	218.6	18540-29-9	Chromium VI	1100		25	100	ug/l	J-	h
440-101116-2	M-140-20150206	2/6/2015	218.6	18540-29-9	Chromium VI	1000		25	100	ug/l	J-	h
440-104147-2	M-189-20150310-EB	3/10/2015	218.6	18540-29-9	Chromium VI	0.29	J	0.25	1.0	ug/l	J	sp
440-104245-2	M-186D-20150311	3/11/2015	218.6	18540-29-9	Chromium VI	28		0.25	1.0	ug/l	J-	h
440-104245-2	M-186D-20150311-FB	3/11/2015	218.6	18540-29-9	Chromium VI	0.35	J	0.25	1.0	ug/l	J-	h,sp
440-104383-2	M-161D-20150312	3/12/2015	218.6	18540-29-9	Chromium VI	17		0.25	1.0	ug/l	J-	h
440-109157-1	M-38-20150507-FB	5/7/2015	218.6	18540-29-9	Chromium VI	0.30	J	0.25	1.0	ug/l	J	sp
440-98909-1	PC-40-20150113	1/13/2015	300.0	16887-00-6	Chloride	6500000		130000	250000	ug/l	J-	m
440-98909-1	PC-54-20150113	1/13/2015	300.0	16887-00-6	Chloride	720000		25000	50000	ug/l	J-	m
440-98909-1	PC-64-20150113	1/13/2015	300.0	16887-00-6	Chloride	610000		50000	100000	ug/l	J-	m
440-98909-1	PC-65-20150113	1/13/2015	300.0	16887-00-6	Chloride	590000		50000	100000	ug/l	J-	m
440-98909-1	PC-65-20150113	1/13/2015	300.0	14797-55-8|3	Nitrate-NO3	85	J	50	100	mg/l	J	sp
440-98909-2	M-161-20150113	1/13/2015	300.0	16887-00-6	Chloride	110000		5000	10000	ug/l	J-	m
440-98909-2	M-161-20150113	1/13/2015	300.0	24959-67-9	Bromide	260	J	250	500	ug/l	J	sp
440-98909-2	M-162-20150113	1/13/2015	300.0	16887-00-6	Chloride	170000		13000	25000	ug/l	J-	m
440-98909-2	M-162-20150113	1/13/2015	300.0	24959-67-9	Bromide	360	J	250	500	ug/l	J	sp
440-99061-1	PC-66-20150114	1/14/2015	300.0	14808-79-8	Sulfate	2200000		50000	100000	ug/l	J-	m
440-99061-1	PC-66-20150114	1/14/2015	300.0	16887-00-6	Chloride	700000		50000	100000	ug/l	J-	m
440-99061-1	PC-67-20150114	1/14/2015	300.0	14808-79-8	Sulfate	2300000		130000	250000	ug/l	J-	m
440-99061-1	PC-67-20150114	1/14/2015	300.0	16887-00-6	Chloride	3900000		130000	250000	ug/l	J-	m
440-99061-1	PC-28-20150114	1/14/2015	300.0	NO3/NO2	Nitrate Nitrite as N	18000		5500	11000	ug/l	J-	m
440-99061-1	PC-28-20150114	1/14/2015	300.0	14797-55-8|3	Nitrate-NO3	80		25	50	mg/l	J-	m
440-99061-1	PC-28-20150114-FD	1/14/2015	300.0	14797-55-8|3	Nitrate-NO3	75		25	50	mg/l	J-	m
440-99061-1	PC-28-20150114-FD	1/14/2015	300.0	NO3/NO2	Nitrate Nitrite as N	17000		5500	11000	ug/l	J-	m
440-99061-1	BHEI-10-20150114	1/14/2015	300.0	14797-55-8|3	Nitrate-NO3	160		50	100	mg/l	J-	m
440-99061-1	BHEI-10-20150114	1/14/2015	300.0	NO3/NO2	Nitrate Nitrite as N	37000		11000	22000	ug/l	J-	m
440-99061-1	PC-24-20150114	1/14/2015	300.0	14797-55-8|3	Nitrate-NO3	82		1.3	2.5	mg/l	J-	m
440-99061-1	PC-24-20150114	1/14/2015	300.0	NO3/NO2	Nitrate Nitrite as N	18000		350	750	ug/l	J-	m
440-99061-2	TR-1-20150114	1/14/2015	300.0	14797-55-8|3	Nitrate-NO3	6.4	J	5.0	10	mg/l	J	sp
440-99061-2	TR-1-20150114	1/14/2015	300.0	14808-79-8	Sulfate	190000		5000	10000	ug/l	J-	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99061-2	TR-1-20150114	1/14/2015	300.0	16887-00-6	Chloride	180000		5000	10000	ug/l	J-	m
440-99061-2	TR-2-20150114	1/14/2015	300.0	16887-00-6	Chloride	130000		5000	10000	ug/l	J-	m
440-99061-2	TR-2-20150114	1/14/2015	300.0	14808-79-8	Sulfate	150000		5000	10000	ug/l	J-	m
440-99061-2	TR-4-20150114	1/14/2015	300.0	16887-00-6	Chloride	150000		5000	10000	ug/l	J-	m
440-99061-2	TR-4-20150114	1/14/2015	300.0	14808-79-8	Sulfate	150000		5000	10000	ug/l	J-	m
440-99061-2	TR-5-20150114	1/14/2015	300.0	14808-79-8	Sulfate	200000		13000	25000	ug/l	J-	m
440-99061-2	TR-5-20150114	1/14/2015	300.0	16887-00-6	Chloride	170000		13000	25000	ug/l	J-	m
440-99142-1	WMW5.58S-20150115	1/15/2015	300.0	NO3/NO2	Nitrate Nitrite as N	8200		2800	5500	ug/l	J-	m
440-99142-1	WMW5.58S-20150115	1/15/2015	300.0	14797-55-8|3	Nitrate-NO3	36		13	25	mg/l	J-	m
440-99142-1	WMW6.15S-20150115	1/15/2015	300.0	14797-55-8|3	Nitrate-NO3	0.84	J	0.50	1.0	mg/l	J-	m,sp
440-99142-1	WMW6.15S-20150115	1/15/2015	300.0	NO3/NO2	Nitrate Nitrite as N	190	J	140	300	ug/l	J-	m,sp
440-99142-1	WMW6.15S-20150115-FD	1/15/2015	300.0	14797-55-8|3	Nitrate-NO3	0.83	J	0.50	1.0	mg/l	J-	m,sp
440-99142-1	WMW6.15S-20150115-FD	1/15/2015	300.0	NO3/NO2	Nitrate Nitrite as N	190	J	140	300	ug/l	J-	m,sp
440-99142-1	WMW6.55S-20150115	1/15/2015	300.0	14797-55-8|3	Nitrate-NO3	23		0.50	1.0	mg/l	J-	m
440-99142-1	WMW6.55S-20150115	1/15/2015	300.0	NO3/NO2	Nitrate Nitrite as N	5200		140	300	ug/l	J-	m
440-99142-2	TR-3-20150115	1/15/2015	300.0	NO3/NO2	Nitrate Nitrite as N	1200		70	150	ug/l	J-	m
440-99142-2	TR-3-20150115	1/15/2015	300.0	14797-55-8|3	Nitrate-NO3	5.4		0.25	0.50	mg/l	J-	m
440-99142-2	TR-3-20150115	1/15/2015	300.0	24959-67-9	Bromide	420	J	250	500	ug/l	J	sp
440-99142-2	TR-6-20150115	1/15/2015	300.0	14797-55-8|3	Nitrate-NO3	20		5.0	10	mg/l	J-	m
440-99142-2	TR-6-20150115	1/15/2015	300.0	NO3/NO2	Nitrate Nitrite as N	4400		1400	3000	ug/l	J-	m
440-99142-2	TR-7-20150115-FD	1/15/2015	300.0	14797-55-8|3	Nitrate-NO3	4.9		0.25	0.50	mg/l	J-	m
440-99142-2	TR-7-20150115	1/15/2015	300.0	24959-67-9	Bromide	320	J	250	500	ug/l	J	sp
440-99142-2	TR-7-20150115-FD	1/15/2015	300.0	24959-67-9	Bromide	390	J	250	500	ug/l	J	sp
440-99142-2	TR-7-20150115-FD	1/15/2015	300.0	NO3/NO2	Nitrate Nitrite as N	1100		70	150	ug/l	J-	m
440-99142-2	TR-7-20150115	1/15/2015	300.0	NO3/NO2	Nitrate Nitrite as N	1100		70	150	ug/l	J-	m
440-99142-2	TR-7-20150115	1/15/2015	300.0	14797-55-8|3	Nitrate-NO3	5.0		0.25	0.50	mg/l	J-	m
440-99142-2	TR-11-20150115	1/15/2015	300.0	14797-55-8|3	Nitrate-NO3	4.9		0.25	0.50	mg/l	J-	m
440-99142-2	TR-11-20150115	1/15/2015	300.0	24959-67-9	Bromide	380	J	250	500	ug/l	J	sp
440-99142-2	TR-11-20150115	1/15/2015	300.0	NO3/NO2	Nitrate Nitrite as N	1100		70	150	ug/l	J-	m
440-99238-2	M-121-20150116	1/16/2015	300.0	24959-67-9	Bromide	1600	J	1300	2500	ug/l	J	sp
440-99312-1	M-190-20150119	1/19/2015	300.0	16887-00-6	Chloride	240000		25000	50000	ug/l	J-	m
440-99312-1	M-190-20150119	1/19/2015	300.0	24959-67-9	Bromide	630	J	500	1000	ug/l	J	sp
440-99312-1	M-190-20150119-FD	1/19/2015	300.0	24959-67-9	Bromide	620	J	500	1000	ug/l	J	sp
440-99312-1	M-190-20150119-FD	1/19/2015	300.0	16887-00-6	Chloride	240000		25000	50000	ug/l	J-	m
440-99312-1	M-189-20150119	1/19/2015	300.0	16887-00-6	Chloride	220000		25000	50000	ug/l	J-	m
440-99312-1	M-193-20150119	1/19/2015	300.0	16887-00-6	Chloride	280000		25000	50000	ug/l	J-	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99312-1	PC-110-20150119	1/19/2015	300.0	16887-00-6	Chloride	840000		50000	100000	ug/l	J-	m
440-99401-1	M-161D-20150119	1/19/2015	300.0	16887-00-6	Chloride	110000		13000	25000	ug/l	J-	m
440-99401-1	M-161D-20150119	1/19/2015	300.0	24959-67-9	Bromide	280	J	250	500	ug/l	J	sp
440-99401-1	PC-108-20150120-FD	1/20/2015	300.0	16887-00-6	Chloride	560000		25000	50000	ug/l	J-	m
440-99401-1	PC-108-20150120	1/20/2015	300.0	16887-00-6	Chloride	520000		25000	50000	ug/l	J-	m
440-99401-1	TR-9-20150120	1/20/2015	300.0	16887-00-6	Chloride	190000		5000	10000	ug/l	J-	m
440-99401-1	TR-9-20150120	1/20/2015	300.0	24959-67-9	Bromide	320	J	250	500	ug/l	J	sp
440-99401-1	TR-9-20150120	1/20/2015	300.0	14797-55-8|3	Nitrate-NO3	8.0	J	5.0	10	mg/l	J	sp
440-99401-1	TR-10-20150120	1/20/2015	300.0	16887-00-6	Chloride	170000		25000	50000	ug/l	J-	m
440-99401-1	TR-10-20150120	1/20/2015	300.0	24959-67-9	Bromide	590	J	500	1000	ug/l	J	sp
440-99401-1	HMW-15-20150120	1/20/2015	300.0	16887-00-6	Chloride	340000		25000	50000	ug/l	J-	m
440-99401-1	HMW-13-20150120	1/20/2015	300.0	16887-00-6	Chloride	440000		25000	50000	ug/l	J-	m
440-99401-1	M-118-20150120	1/20/2015	300.0	24959-67-9	Bromide	390	J	250	500	ug/l	J	sp
440-99401-1	M-118-20150120	1/20/2015	300.0	16887-00-6	Chloride	140000		13000	25000	ug/l	J-	m
440-99401-1	M-120-20150120	1/20/2015	300.0	16887-00-6	Chloride	160000		25000	50000	ug/l	J-	m
440-99401-1	PC-98R-20150120	1/20/2015	300.0	16887-00-6	Chloride	1900000		130000	250000	ug/l	J-	m
440-99401-1	PC-103-20150120	1/20/2015	300.0	16887-00-6	Chloride	1800000		130000	250000	ug/l	J-	m
440-99401-1	M-12A-20150120	1/20/2015	300.0	16887-00-6	Chloride	820000		130000	250000	ug/l	J-	m
440-99401-1	PC-68-20150120	1/20/2015	300.0	16887-00-6	Chloride	410000		25000	50000	ug/l	J-	m
440-99576-2	M-155-20150121	1/21/2015	300.0	24959-67-9	Bromide	280	J	250	500	ug/l	J	sp
440-99576-2	M-155-20150121	1/21/2015	300.0	14797-55-8|3	Nitrate-NO3	6.9	J	5.0	10	mg/l	J	sp
440-99576-2	M-155-20150121	1/21/2015	300.0	16887-00-6	Chloride	120000		5000	10000	ug/l	J-	m
440-99576-2	M-155-20150121	1/21/2015	300.0	14808-79-8	Sulfate	160000		5000	10000	ug/l	J-	m
440-99576-2	M-151-20150121	1/21/2015	300.0	24959-67-9	Bromide	270	J	250	500	ug/l	J	sp
440-99576-2	M-151-20150121	1/21/2015	300.0	14808-79-8	Sulfate	170000		5000	10000	ug/l	J-	m
440-99576-2	M-151-20150121	1/21/2015	300.0	16887-00-6	Chloride	73000		5000	10000	ug/l	J-	m
440-99576-2	M-165-20150121	1/21/2015	300.0	16887-00-6	Chloride	56000		5000	10000	ug/l	J-	m
440-99576-2	M-165-20150121	1/21/2015	300.0	24959-67-9	Bromide	260	J	250	500	ug/l	J	sp
440-99576-2	M-165-20150121	1/21/2015	300.0	14808-79-8	Sulfate	190000		5000	10000	ug/l	J-	m
440-99685-1	PC-53-20150121	1/21/2015	300.0	14797-55-8|3	Nitrate-NO3	54		2.5	5.0	mg/l	J+	m
440-99685-1	PC-53-20150121	1/21/2015	300.0	NO3/NO2	Nitrate Nitrite as N	12000		700	1500	ug/l	J+	m
440-99685-1	M-181-20150121	1/21/2015	300.0	14797-55-8|3	Nitrate-NO3	15		5.0	10	mg/l	J+	m
440-99685-1	M-181-20150121	1/21/2015	300.0	NO3/NO2	Nitrate Nitrite as N	3400		1100	2200	ug/l	J+	m
440-99685-1	M-181-20150121	1/21/2015	300.0	24959-67-9	Bromide	710		250	500	ug/l	J+	m
440-99685-1	PC-2-20150122	1/22/2015	300.0	NO3/NO2	Nitrate Nitrite as N	13000		700	1500	ug/l	J+	m
440-99685-1	PC-2-20150122	1/22/2015	300.0	14797-55-8|3	Nitrate-NO3	57		2.5	5.0	mg/l	J+	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99685-1	PC-4-20150122	1/22/2015	300.0	7723-14-0P	Orthophosphate (total) (As P)		U	800	1600	ug/l	UJ	m
440-99685-1	PC-132-20150122	1/22/2015	300.0	7723-14-0P	Orthophosphate (total) (As P)		U	1600	3200	ug/l	UJ	m
440-99685-1	PC-127-20150122-FD	1/22/2015	300.0	7723-14-0P	Orthophosphate (total) (As P)		U	800	1600	ug/l	UJ	m
440-99685-1	PC-127-20150122	1/22/2015	300.0	7723-14-0P	Orthophosphate (total) (As P)		U	800	1600	ug/l	UJ	m
440-99685-1	PC-126-20150122	1/22/2015	300.0	14797-55-8|3	Nitrate-NO3	160		5.0	10	mg/l	J+	m
440-99685-1	PC-126-20150122	1/22/2015	300.0	NO3/NO2	Nitrate Nitrite as N	35000		1400	3000	ug/l	J+	m
440-99783-1	PC-124-20150122	1/22/2015	300.0	14797-55-8|3	Nitrate-NO3	180	J	130	250	mg/l	J	sp
440-99783-1	PC-124-20150122	1/22/2015	300.0	7723-14-0P	Orthophosphate (total) (As P)		U	1600	3200	ug/l	UJ	m
440-99783-1	PC-50-20150123	1/23/2015	300.0	7723-14-0P	Orthophosphate (total) (As P)		U	4000	8000	ug/l	UJ	m
440-99783-1	PC-129-20150123	1/23/2015	300.0	7723-14-0P	Orthophosphate (total) (As P)		U	800	1600	ug/l	UJ	m
440-99783-1	PC-128-20150123	1/23/2015	300.0	7723-14-0P	Orthophosphate (total) (As P)		U	800	1600	ug/l	UJ	m
440-99862-1	PC-160-20150126	1/26/2015	300.0	16887-00-6	Chloride	1500000		50000	100000	ug/l	J-	m
440-99862-1	PC-134D-20150126	1/26/2015	300.0	16887-00-6	Chloride	280000		50000	100000	ug/l	J-	m
440-99862-1	PC-137D-20150126	1/26/2015	300.0	16887-00-6	Chloride	240000		50000	100000	ug/l	J-	m
440-99862-1	PC-151-20150126-FD	1/26/2015	300.0	16887-00-6	Chloride	1200000		50000	100000	ug/l	J-	m
440-99862-1	PC-151-20150126	1/26/2015	300.0	16887-00-6	Chloride	1200000		50000	100000	ug/l	J-	m
440-99862-1	PC-153-20150126	1/26/2015	300.0	14797-55-8|3	Nitrate-NO3	5.3	J	5.0	10	mg/l	J	sp
440-99862-1	PC-153-20150126	1/26/2015	300.0	16887-00-6	Chloride	1900000		130000	250000	ug/l	J-	m
440-99974-1	M-162D-20150127	1/27/2015	300.0	14808-79-8	Sulfate	170000		5000	10000	ug/l	J-	m
440-99974-1	MC-45-20150127	1/27/2015	300.0	14808-79-8	Sulfate	1700000		250000	500000	ug/l	J-	m
440-99974-1	M-123-20150127	1/27/2015	300.0	14808-79-8	Sulfate	2000000		250000	500000	ug/l	J-	m
440-99974-1	TR-8-20150127	1/27/2015	300.0	14808-79-8	Sulfate	480000		13000	25000	ug/l	J-	m
440-100079-1	MC-50-20150127	1/27/2015	300.0	16887-00-6	Chloride	7000000		250000	500000	ug/l	J-	m
440-100079-1	M-141-20150128	1/28/2015	300.0	24959-67-9	Bromide	2700	J	2500	5000	ug/l	J	sp
440-100079-1	M-141-20150128-FD	1/28/2015	300.0	24959-67-9	Bromide	2900	J	2500	5000	ug/l	J	sp
440-100079-1	M-31A-20150128	1/28/2015	300.0	24959-67-9	Bromide	3400	J	2500	5000	ug/l	J	sp
440-100079-1	M-148A-20150128	1/28/2015	300.0	16887-00-6	Chloride	310000		50000	100000	ug/l	J-	m
440-100079-1	M-164-20150128	1/28/2015	300.0	16887-00-6	Chloride	860000		50000	100000	ug/l	J-	m
440-100079-1	M-77-20150128	1/28/2015	300.0	24959-67-9	Bromide	1800	J	1300	2500	ug/l	J	sp
440-100079-1	M-77-20150128	1/28/2015	300.0	16887-00-6	Chloride	250000		50000	100000	ug/l	J-	m
440-100079-1	M-182-20150128	1/28/2015	300.0	16887-00-6	Chloride	5200000		130000	250000	ug/l	J-	m
440-100230-2	M-92-20150129	1/29/2015	300.0	14797-55-8|3	Nitrate-NO3	24	J	13	25	mg/l	J	sp
440-100230-2	M-92-20150129	1/29/2015	300.0	NO3/NO2	Nitrate Nitrite as N	5300	J	2800	5500	ug/l	J	sp
440-100230-2	M-74-20150129	1/29/2015	300.0	24959-67-9	Bromide	4700	J	2500	5000	ug/l	J	sp
440-100230-2	M-74-20150129	1/29/2015	300.0	NO3/NO2	Nitrate Nitrite as N	13000		700	1500	ug/l	J-	m
440-100230-2	M-74-20150129	1/29/2015	300.0	14797-55-8|3	Nitrate-NO3	57		2.5	5.0	mg/l	J-	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100230-2	M-97-20150129	1/29/2015	300.0	24959-67-9	Bromide	2000	J	1300	2500	ug/l	J	fd,sp
440-100230-2	M-97-20150129-FD	1/29/2015	300.0	24959-67-9	Bromide	8400		1300	2500	ug/l	J	fd
440-100230-2	M-133-20150129	1/29/2015	300.0	14797-55-8|3	Nitrate-NO3	38		2.5	5.0	mg/l	J-	m
440-100230-2	M-133-20150129	1/29/2015	300.0	NO3/NO2	Nitrate Nitrite as N	8600		700	1500	ug/l	J-	m
440-100230-2	M-73-20150129	1/29/2015	300.0	NO3/NO2	Nitrate Nitrite as N	15000		700	1500	ug/l	J-	m
440-100230-2	M-73-20150129	1/29/2015	300.0	14797-55-8|3	Nitrate-NO3	67		2.5	5.0	mg/l	J-	m
440-100230-2	M-73-20150129	1/29/2015	300.0	24959-67-9	Bromide	4100	J	2500	5000	ug/l	J	sp
440-100230-2	M-124-20150129	1/29/2015	300.0	14797-55-8|3	Nitrate-NO3	36		0.50	1.0	mg/l	J-	m
440-100230-2	M-124-20150129	1/29/2015	300.0	NO3/NO2	Nitrate Nitrite as N	8100		140	300	ug/l	J-	m
440-100230-2	M-67-20150129	1/29/2015	300.0	14797-55-8|3	Nitrate-NO3	34		2.5	5.0	mg/l	J-	m
440-100230-2	M-67-20150129	1/29/2015	300.0	NO3/NO2	Nitrate Nitrite as N	7700		700	1500	ug/l	J-	m
440-100386-2	M-146-20150130	1/30/2015	300.0	24959-67-9	Bromide	2500	J	2500	5000	ug/l	J	sp
440-100558-1	M-144-20150202	2/2/2015	300.0	24959-67-9	Bromide	1300	J	1300	2500	ug/l	J+	m,sp
440-100558-1	M-191-20150202	2/2/2015	300.0	24959-67-9	Bromide	4600	J	2500	5000	ug/l	J+	m,sp
440-100558-1	M-22A-20150202	2/2/2015	300.0	NO3/NO2	Nitrate Nitrite as N	46000	J	35000	75000	ug/l	J	sp
440-100558-1	M-22A-20150202	2/2/2015	300.0	14797-55-8|3	Nitrate-NO3	200	J	130	250	mg/l	J	sp
440-100558-1	M-22A-20150202	2/2/2015	300.0	24959-67-9	Bromide	5000	J	5000	10000	ug/l	J+	m,sp
440-100759-1	M-13-20150202	2/2/2015	300.0	16887-00-6	Chloride	300000		25000	50000	ug/l	J-	m
440-100759-1	M-65-20150203	2/3/2015	300.0	16887-00-6	Chloride	1400000		130000	250000	ug/l	J-	m
440-100759-1	M-65-20150203	2/3/2015	300.0	24959-67-9	Bromide	6900	J	5000	10000	ug/l	J	sp
440-100759-1	M-138-20150203	2/3/2015	300.0	24959-67-9	Bromide	530	J	500	1000	ug/l	J	sp
440-100759-1	M-138-20150203	2/3/2015	300.0	16887-00-6	Chloride	130000		25000	50000	ug/l	J-	m
440-100759-1	M-138-20150203-FD	2/3/2015	300.0	16887-00-6	Chloride	130000		25000	50000	ug/l	J-	m
440-100759-1	M-138-20150203-FD	2/3/2015	300.0	24959-67-9	Bromide	820	J	500	1000	ug/l	J	sp
440-100759-1	M-66-20150203	2/3/2015	300.0	16887-00-6	Chloride	1600000		130000	250000	ug/l	J-	m
440-100759-1	M-66-20150203-FD	2/3/2015	300.0	16887-00-6	Chloride	1800000		130000	250000	ug/l	J-	m
440-100759-1	M-137-20150203	2/3/2015	300.0	16887-00-6	Chloride	140000		25000	50000	ug/l	J-	m
440-100759-1	M-137-20150203	2/3/2015	300.0	24959-67-9	Bromide	860	J	500	1000	ug/l	J	sp
440-100759-1	M-142-20150203	2/3/2015	300.0	NO3/NO2	Nitrate Nitrite as N	9100		280	550	ug/l	J-	h,m
440-100759-1	M-142-20150203	2/3/2015	300.0	14797-55-8|3	Nitrate-NO3	40	H	1.3	2.5	mg/l	J-	h,m
440-100759-1	M-142-20150203	2/3/2015	300.0	16887-00-6	Chloride	390000		25000	50000	ug/l	J-	m
440-100759-1	M-142-20150203	2/3/2015	300.0	14797-55-8|3	Nitrate-NO3	42	J	25	50	mg/l	J	sp
440-100759-1	M-115-20150203	2/3/2015	300.0	14797-55-8|3	Nitrate-NO3	46	J	25	50	mg/l	J	sp
440-100759-1	M-115-20150203	2/3/2015	300.0	16887-00-6	Chloride	320000		25000	50000	ug/l	J-	m
440-100759-1	M-115-20150203	2/3/2015	300.0	NO3/NO2	Nitrate Nitrite as N	10000	J	5500	11000	ug/l	J	sp
440-100759-1	M-76-20150203	2/3/2015	300.0	16887-00-6	Chloride	970000		50000	100000	ug/l	J-	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100759-1	M-25-20150203	2/3/2015	300.0	16887-00-6	Chloride	1100000		130000	250000	ug/l	J-	m
440-100759-1	M-25-20150203-FD	2/3/2015	300.0	16887-00-6	Chloride	1200000		130000	250000	ug/l	J-	m
440-100881-1	M-68-20150204	2/4/2015	300.0	24959-67-9	Bromide	4800	J	2500	5000	ug/l	J	sp
440-100881-1	M-139-20150204	2/4/2015	300.0	24959-67-9	Bromide	850	J	500	1000	ug/l	J	sp
440-100881-1	M-139-20150204	2/4/2015	300.0	14797-55-8|3	Nitrate-NO3	5.9		0.50	1.0	mg/l	J-	m
440-100881-1	M-139-20150204	2/4/2015	300.0	NO3/NO2	Nitrate Nitrite as N	1300		140	300	ug/l	J-	m
440-100881-1	M-58-20150204	2/4/2015	300.0	24959-67-9	Bromide	5800	J	5000	10000	ug/l	J	sp
440-100881-1	M-139-20150204-EB	2/4/2015	300.0	NO3/NO2	Nitrate Nitrite as N	100	J	70	150	ug/l	J	sp
440-100881-1	M-139-20150204-EB	2/4/2015	300.0	14797-55-8|3	Nitrate-NO3	0.44	J	0.25	0.50	mg/l	J	sp
440-101036-1	M-2A-20150204	2/4/2015	300.0	NO3/NO2	Nitrate Nitrite as N	13000		700	1500	ug/l	J-	m
440-101036-1	M-2A-20150204	2/4/2015	300.0	14797-55-8|3	Nitrate-NO3	58		2.5	5.0	mg/l	J-	m
440-101036-1	M-2A-20150204	2/4/2015	300.0	24959-67-9	Bromide	2700	J	2500	5000	ug/l	J	sp
440-101036-1	M-69-20150204	2/4/2015	300.0	24959-67-9	Bromide	2200	J	1300	2500	ug/l	J	sp
440-101036-1	M-69-20150204	2/4/2015	300.0	NO3/NO2	Nitrate Nitrite as N	52000		11000	22000	ug/l	J-	h,m
440-101036-1	M-69-20150204	2/4/2015	300.0	14797-55-8|3	Nitrate-NO3	230	H	50	100	mg/l	J-	h,m
440-101036-1	MC-29-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3		U	13	25	mg/l	UJ	m
440-101036-1	MC-29-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N		U	3500	7500	ug/l	UJ	m
440-101036-1	MC-51-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N		U	3500	7500	ug/l	UJ	m
440-101036-1	MC-51-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3		U	13	25	mg/l	UJ	m
440-101036-1	MC-51-20150205-FD	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3		U	13	25	mg/l	UJ	m
440-101036-1	MC-51-20150205-FD	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N		U	3500	7500	ug/l	UJ	m
440-101036-1	M-134-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3	19		0.50	1.0	mg/l	J-	m
440-101036-1	M-134-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N	4300		140	300	ug/l	J-	m
440-101036-1	MC-93-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N		U	700	1500	ug/l	UJ	m
440-101036-1	MC-93-20150205	2/5/2015	300.0	24959-67-9	Bromide	2600	J	2500	5000	ug/l	J	sp
440-101036-1	MC-93-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3	2.9	J	2.5	5.0	mg/l	J-	m,sp
440-101036-1	MC-97-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3		U	5.0	10	mg/l	UJ	m
440-101036-1	MC-97-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N		U	1400	3000	ug/l	UJ	m
440-101036-1	M-79-20150205	2/5/2015	300.0	24959-67-9	Bromide	2000	J	1300	2500	ug/l	J	sp
440-101036-1	M-79-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3	340		50	100	mg/l	J-	m
440-101036-1	M-79-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N	76000		11000	22000	ug/l	J-	m
440-101036-1	M-23-20150205	2/5/2015	300.0	24959-67-9	Bromide	1800	J	1300	2500	ug/l	J	sp
440-101036-1	M-23-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N	41000		11000	22000	ug/l	J-	m
440-101036-1	M-23-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3	180		50	100	mg/l	J-	m
440-101036-1	M-135-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3	36		1.3	2.5	mg/l	J-	m
440-101036-1	M-135-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N	8100		350	750	ug/l	J-	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-101036-1	M-7B-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3	8.8		2.5	5.0	mg/l	J-	m
440-101036-1	M-7B-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N	2000		700	1500	ug/l	J-	m
440-101036-1	M-7B-20150205	2/5/2015	300.0	24959-67-9	Bromide	2800	J	2500	5000	ug/l	J	sp
440-101116-2	M-136-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3	16	J	13	25	mg/l	J	sp
440-101116-2	MW-16-20150205	2/5/2015	300.0	24959-67-9	Bromide	2600	J	2500	5000	ug/l	J	sp
440-101116-2	MW-16-20150205	2/5/2015	300.0	14808-79-8	Sulfate	1200000		130000	250000	ug/l	J-	m
440-101116-2	MW-16-20150205	2/5/2015	300.0	NO3/NO2	Nitrate Nitrite as N	1500		700	1500	ug/l	J	ld,m
440-101116-2	MW-16-20150205	2/5/2015	300.0	14797-55-8|3	Nitrate-NO3	6.7		2.5	5.0	mg/l	J-	m
440-101116-2	MW-16-20150205	2/5/2015	300.0	14797-65-0	Nitrite as N		U*	700	1500	ug/l	UJ	ld
440-101116-2	M-126-20150206	2/6/2015	300.0	14797-55-8|3	Nitrate-NO3	15		5.0	10	mg/l	J-	m
440-101116-2	M-126-20150206	2/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	3300		1400	3000	ug/l	J	m,fd
440-101116-2	M-126-20150206-FD	2/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	4600		1400	3000	ug/l	J	m,fd
440-101116-2	M-126-20150206-FD	2/6/2015	300.0	14797-55-8|3	Nitrate-NO3	20		5.0	10	mg/l	J-	m
440-101116-2	M-81A-20150206	2/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	42000		11000	22000	ug/l	J	ld,m
440-101116-2	M-81A-20150206	2/6/2015	300.0	14808-79-8	Sulfate	590000		50000	100000	ug/l	J-	m
440-101116-2	M-81A-20150206	2/6/2015	300.0	14797-55-8|3	Nitrate-NO3	190		50	100	mg/l	J-	m
440-101116-2	M-81A-20150206	2/6/2015	300.0	14797-65-0	Nitrite as N		U*	350	750	ug/l	UJ	ld
440-101116-2	M-81A-20150206	2/6/2015	300.0	24959-67-9	Bromide	2400	J	1300	2500	ug/l	J	sp
440-101116-2	M-5A-20150206	2/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N		U	1400	3000	ug/l	UJ	ld,m
440-101116-2	M-5A-20150206	2/6/2015	300.0	14797-55-8|3	Nitrate-NO3		U	5.0	10	mg/l	UJ	m
440-101116-2	M-5A-20150206	2/6/2015	300.0	14808-79-8	Sulfate	1600000		130000	250000	ug/l	J-	m
440-101116-2	M-5A-20150206	2/6/2015	300.0	14797-65-0	Nitrite as N		U*	1400	3000	ug/l	UJ	ld
440-101116-2	M-57A-20150206	2/6/2015	300.0	14797-55-8|3	Nitrate-NO3	41		1.3	2.5	mg/l	J-	m
440-101116-2	M-57A-20150206	2/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	9200		350	750	ug/l	J-	m
440-101116-2	M-57A-20150206-FD	2/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	9700		350	750	ug/l	J-	m
440-101116-2	M-57A-20150206-FD	2/6/2015	300.0	14797-55-8|3	Nitrate-NO3	43		1.3	2.5	mg/l	J-	m
440-101116-2	M-57A-20150206	2/6/2015	300.0	14797-55-8|3	Nitrate-NO3	65	J	50	100	mg/l	J	sp
440-101116-2	M-83-20150206	2/6/2015	300.0	14797-65-0	Nitrite as N	3800		350	750	ug/l	J	fd
440-101116-2	M-83-20150206	2/6/2015	300.0	24959-67-9	Bromide	1500	J	1300	2500	ug/l	J	sp
440-101116-2	M-83-20150206-FD	2/6/2015	300.0	14797-65-0	Nitrite as N	6400		350	750	ug/l	J	fd
440-101116-2	M-140-20150206	2/6/2015	300.0	14797-65-0	Nitrite as N	16000		700	1500	ug/l	J	ld,m
440-101116-2	M-140-20150206	2/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	170000		11000	22000	ug/l	J	ld,m
440-101116-2	M-140-20150206	2/6/2015	300.0	14808-79-8	Sulfate	1300000		50000	100000	ug/l	J-	m
440-101116-2	M-140-20150206	2/6/2015	300.0	14797-55-8|3	Nitrate-NO3	650		50	100	mg/l	J-	m
440-101116-2	M-140-20150206	2/6/2015	300.0	24959-67-9	Bromide	3300	J	2500	5000	ug/l	J	sp
440-104147-2	M-190-20150310	3/10/2015	300.0	24959-67-9	Bromide	1900		250	500	ug/l	J-	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-104147-2	M-190-20150310	3/10/2015	300.0	14797-55-8|3	Nitrate-NO3	12		0.25	0.50	mg/l	J-	m
440-104147-2	M-190-20150310	3/10/2015	300.0	NO3/NO2	Nitrate Nitrite as N	2800		70	150	ug/l	J-	m
440-104147-2	M-190-20150310	3/10/2015	300.0	14797-55-8|3	Nitrate-NO3	18	JF1	13	25	mg/l	J	sp
440-104147-2	M-189-20150310	3/10/2015	300.0	24959-67-9	Bromide	1500		250	500	ug/l	J-	m
440-104147-2	M-189-20150310	3/10/2015	300.0	NO3/NO2	Nitrate Nitrite as N	2100		70	150	ug/l	J-	m
440-104147-2	M-189-20150310	3/10/2015	300.0	14797-55-8|3	Nitrate-NO3	9.3		0.25	0.50	mg/l	J-	m
440-104147-2	M-191-20150310	3/10/2015	300.0	NO3/NO2	Nitrate Nitrite as N	6200		350	750	ug/l	J-	m
440-104147-2	M-191-20150310	3/10/2015	300.0	14797-55-8|3	Nitrate-NO3	27		1.3	2.5	mg/l	J-	m
440-104147-2	M-191-20150310	3/10/2015	300.0	24959-67-9	Bromide		U	1300	2500	ug/l	UJ	m
440-104245-2	M-186D-20150311	3/11/2015	300.0	NO3/NO2	Nitrate Nitrite as N	2300		70	150	ug/l	J-	m
440-104245-2	M-186D-20150311	3/11/2015	300.0	14797-55-8|3	Nitrate-NO3	10		0.25	0.50	mg/l	J-	m
440-104245-2	M-192-20150311	3/11/2015	300.0	14797-55-8|3	Nitrate-NO3	14	JF1	13	25	mg/l	J	sp
440-104245-2	M-192-20150311	3/11/2015	300.0	14797-55-8|3	Nitrate-NO3	6.9		0.25	0.50	mg/l	J-	m
440-104245-2	M-192-20150311	3/11/2015	300.0	NO3/NO2	Nitrate Nitrite as N	1600		70	150	ug/l	J-	m
440-104245-2	M-193-20150311	3/11/2015	300.0	14797-55-8|3	Nitrate-NO3	16		0.25	0.50	mg/l	J-	m
440-104245-2	M-193-20150311	3/11/2015	300.0	NO3/NO2	Nitrate Nitrite as N	3600		70	150	ug/l	J-	m
440-104245-2	M-193-20150311-FD	3/11/2015	300.0	14797-55-8|3	Nitrate-NO3	16		0.25	0.50	mg/l	J-	m
440-104245-2	M-193-20150311-FD	3/11/2015	300.0	NO3/NO2	Nitrate Nitrite as N	3600		70	150	ug/l	J-	m
440-104383-2	M-161D-20150312	3/12/2015	300.0	16887-00-6	Chloride	110000		5000	10000	ug/l	J-	m
440-104383-2	M-161D-20150312	3/12/2015	300.0	14808-79-8	Sulfate	150000		5000	10000	ug/l	J-	m
440-104383-2	M-161D-20150312	3/12/2015	300.0	24959-67-9	Bromide	370	J	250	500	ug/l	J	sp
440-104383-2	M-162D-20150312	3/12/2015	300.0	14808-79-8	Sulfate	170000	F1	5000	10000	ug/l	J-	m
440-104383-2	M-162D-20150312	3/12/2015	300.0	16887-00-6	Chloride	69000	F1	5000	10000	ug/l	J-	m
440-104383-2	M-162D-20150312	3/12/2015	300.0	24959-67-9	Bromide	290	J	250	500	ug/l	J	sp
440-104383-2	H-28-20150312	3/12/2015	300.0	14808-79-8	Sulfate	1300000		50000	100000	ug/l	J-	m
440-104383-2	H-28-20150312	3/12/2015	300.0	16887-00-6	Chloride	4800000		130000	250000	ug/l	J-	m
440-108824-3	M-32-20150505	5/5/2015	300.0	24959-67-9	Bromide	2300	J	1300	2500	ug/l	J	sp
440-108990-1	PC-157B-20150506	5/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	3400		700	1500	ug/l	J+	m
440-108990-1	PC-157B-20150506	5/6/2015	300.0	14797-55-8|3	Nitrate-NO3	15		2.5	5.0	mg/l	J+	m
440-108990-1	PC-155B-20150506	5/6/2015	300.0	14797-55-8|3	Nitrate-NO3	18		2.5	5.0	mg/l	J+	m
440-108990-1	PC-155B-20150506	5/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	4000		700	1500	ug/l	J+	m
440-108990-1	PC-155A-20150506	5/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	3700		700	1500	ug/l	J+	m
440-108990-1	PC-155A-20150506	5/6/2015	300.0	14797-55-8|3	Nitrate-NO3	16		2.5	5.0	mg/l	J+	m
440-108990-1	PC-156B-20150506	5/6/2015	300.0	14797-55-8|3	Nitrate-NO3	2.2	J	1.3	2.5	mg/l	J+	m,sp
440-108990-1	PC-156B-20150506	5/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	490	J	350	750	ug/l	J+	m,sp
440-108990-1	PC-156A-20150506	5/6/2015	300.0	14797-55-8|3	Nitrate-NO3	1.0		0.50	1.0	mg/l	J+	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-108990-1	PC-156A-20150506	5/6/2015	300.0	NO3/NO2	Nitrate Nitrite as N	220	J	140	300	ug/l	J+	m,sp
440-109157-1	M-38-20150507	5/7/2015	300.0	NO3/NO2-N	Nitrate Nitrite as N	23000		1400	3000	ug/l	J-	m
440-109157-1	M-38-20150507	5/7/2015	300.0	24959-67-9	Bromide	7500	JF1	5000	10000	ug/l	J-	m,sp
440-109157-1	M-38-20150507	5/7/2015	300.0	14797-55-8|3	Nitrate-NO3	100	F1	5.0	10	mg/l	J-	m
440-109157-1	M-38-20150507-FD	5/7/2015	300.0	NO3/NO2-N	Nitrate Nitrite as N	23000		1400	3000	ug/l	J-	m
440-109157-1	M-38-20150507-FD	5/7/2015	300.0	14797-55-8|3	Nitrate-NO3	100		5.0	10	mg/l	J-	m
440-109157-1	M-38-20150507-FD	5/7/2015	300.0	24959-67-9	Bromide		U	5000	10000	ug/l	UJ	m
440-100759-1	M-13-20150202	2/2/2015	300.1	14866-68-3	Chlorate	100000		10000	20000	ug/l	J-	m
440-100759-1	M-138-20150203	2/3/2015	300.1	14866-68-3	Chlorate	12000		500	1000	ug/l	J-	m
440-100759-1	M-138-20150203-FD	2/3/2015	300.1	14866-68-3	Chlorate	11000		500	1000	ug/l	J-	m
440-100759-1	M-137-20150203	2/3/2015	300.1	14866-68-3	Chlorate	8300		500	1000	ug/l	J-	m
440-100759-1	M-142-20150203	2/3/2015	300.1	14866-68-3	Chlorate	15000		500	1000	ug/l	J-	m
440-100759-1	M-115-20150203	2/3/2015	300.1	14866-68-3	Chlorate	14000		500	1000	ug/l	J-	m
440-100759-1	M-76-20150203	2/3/2015	300.1	14866-68-3	Chlorate	530000		100000	200000	ug/l	J-	m
440-108990-1	PC-156A-20150506	5/6/2015	300.1	14866-68-3	Chlorate	19	J	10	20	ug/l	J	sp
440-99061-2	TR-2-20150114	1/14/2015	314.0	14797-73-0	Perchlorate	3.5	J	0.95	4.0	ug/l	J	sp
440-99061-2	TR-4-20150114	1/14/2015	314.0	14797-73-0	Perchlorate	2.6	J	0.95	4.0	ug/l	J	sp
440-99061-2	TR-5-20150114	1/14/2015	314.0	14797-73-0	Perchlorate	2.2	J	0.95	4.0	ug/l	J	sp
440-99238-1	MCF-29B-20150116	1/16/2015	314.0	14797-73-0	Perchlorate		U	7.5	15	ug/l	UJ	m,ld
440-99238-1	MCF-29A-20150116	1/16/2015	314.0	14797-73-0	Perchlorate		U	7.5	15	ug/l	UJ	m,ld
440-99238-1	MCF-30B-20150116	1/16/2015	314.0	14797-73-0	Perchlorate		U	7.5	15	ug/l	UJ	m,ld
440-99238-1	MCF-30A-20150116	1/16/2015	314.0	14797-73-0	Perchlorate		U	7.5	15	ug/l	UJ	m,ld
440-99401-1	TR-9-20150120	1/20/2015	314.0	14797-73-0	Perchlorate	18		0.95	4.0	ug/l	J-	m
440-99576-2	M-151-20150121	1/21/2015	314.0	14797-73-0	Perchlorate	1.1	J	0.95	4.0	ug/l	J	sp
440-99685-1	MC-53-20150122	1/22/2015	314.0	14797-73-0	Perchlorate	4900		950	4000	ug/l	J-	m
440-99862-1	PC-134D-20150126	1/26/2015	314.0	14797-73-0	Perchlorate	1.1	J	0.95	4.0	ug/l	J	sp
440-99974-1	M-162D-20150127	1/27/2015	314.0	14797-73-0	Perchlorate	3.9	J	0.95	4.0	ug/l	J	sp
440-101036-1	MC-29-20150205	2/5/2015	314.0	14797-73-0	Perchlorate	6.4	J	5.0	10	ug/l	J	sp
440-104147-2	M-189-20150310-EB	3/10/2015	314.0	14797-73-0	Perchlorate	3.5	J	0.95	4.0	ug/l	J	sp
440-99142-2	TR-6-20150115	1/15/2015	365.3	7723-14-0	Phosphorus (total)	29	J	25	50	ug/l	J	sp
440-99142-2	TR-7-20150115-FD	1/15/2015	365.3	7723-14-0	Phosphorus (total)	31	J	25	50	ug/l	J	sp
440-99312-1	M-190-20150119	1/19/2015	365.3	7723-14-0	Phosphorus (total)	48	J	25	50	ug/l	J-	m,sp
440-99312-1	M-190-20150119-FD	1/19/2015	365.3	7723-14-0	Phosphorus (total)	33	J	25	50	ug/l	J-	m,sp
440-99312-1	M-189-20150119	1/19/2015	365.3	7723-14-0	Phosphorus (total)	94		25	50	ug/l	J-	m
440-99401-1	TR-9-20150120	1/20/2015	365.3	7723-14-0	Phosphorus (total)	26	J	25	50	ug/l	J	sp
440-99401-1	M-12A-20150120	1/20/2015	365.3	7723-14-0	Phosphorus (total)	47	J	25	50	ug/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99685-1	M-181-20150121	1/21/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m
440-99685-1	M-6A-20150122	1/22/2015	365.3	7723-14-0	Phosphorus (total)	140		25	50	ug/l	J-	m
440-99685-1	MC-53-20150122	1/22/2015	365.3	7723-14-0	Phosphorus (total)	110		25	50	ug/l	J-	m
440-99685-1	MC-53-20150122-FD	1/22/2015	365.3	7723-14-0	Phosphorus (total)	96		25	50	ug/l	J-	m
440-99974-1	M-186D-20150126	1/26/2015	365.3	7723-14-0	Phosphorus (total)	95		25	50	ug/l	J-	m
440-99974-1	M-162D-20150127	1/27/2015	365.3	7723-14-0	Phosphorus (total)	100		25	50	ug/l	J-	m
440-99974-1	M-163-20150127	1/27/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m
440-99974-1	M-125-20150127	1/27/2015	365.3	7723-14-0	Phosphorus (total)	62		25	50	ug/l	J-	m
440-99974-1	MC-45-20150127	1/27/2015	365.3	7723-14-0	Phosphorus (total)	2700		250	500	ug/l	J-	m
440-99974-1	M-123-20150127	1/27/2015	365.3	7723-14-0	Phosphorus (total)	58		25	50	ug/l	J-	m
440-99974-1	TR-8-20150127	1/27/2015	365.3	7723-14-0	Phosphorus (total)	45	J	25	50	ug/l	J-	m,sp
440-100079-1	MC-50-20150127	1/27/2015	365.3	7723-14-0	Phosphorus (total)	220		25	50	ug/l	J-	m
440-100079-1	M-141-20150128	1/28/2015	365.3	7723-14-0	Phosphorus (total)	29	J	25	50	ug/l	J-	m,sp
440-100079-1	M-141-20150128-FD	1/28/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m
440-100079-1	M-31A-20150128	1/28/2015	365.3	7723-14-0	Phosphorus (total)	28	J	25	50	ug/l	J-	m,sp
440-100079-1	M-148A-20150128	1/28/2015	365.3	7723-14-0	Phosphorus (total)	33	J	25	50	ug/l	J-	m,sp
440-100079-1	M-77-20150128	1/28/2015	365.3	7723-14-0	Phosphorus (total)	40	J	25	50	ug/l	J-	m,sp
440-100079-1	M-182-20150128	1/28/2015	365.3	7723-14-0	Phosphorus (total)	25	J	25	50	ug/l	J-	m,sp
440-100386-2	M-128-20150130	1/30/2015	365.3	7723-14-0	Phosphorus (total)	25	J	25	50	ug/l	J	sp
440-100558-1	M-64-20150202	2/2/2015	365.3	7723-14-0	Phosphorus (total)	48	J	25	50	ug/l	J	sp
440-100759-1	M-138-20150203	2/3/2015	365.3	7723-14-0	Phosphorus (total)	30	J	25	50	ug/l	J	sp
440-100759-1	M-138-20150203-FD	2/3/2015	365.3	7723-14-0	Phosphorus (total)	35	J	25	50	ug/l	J	sp
440-100759-1	M-76-20150203	2/3/2015	365.3	7723-14-0	Phosphorus (total)	41	J	25	50	ug/l	J	sp
440-100881-1	M-68-20150204	2/4/2015	365.3	7723-14-0	Phosphorus (total)	28	J	25	50	ug/l	J	sp
440-100881-1	M-147-20150204	2/4/2015	365.3	7723-14-0	Phosphorus (total)	26	J	25	50	ug/l	J	sp
440-100881-1	M-58-20150204	2/4/2015	365.3	7723-14-0	Phosphorus (total)	30	J	25	50	ug/l	J	sp
440-101036-1	M-69-20150204	2/4/2015	365.3	7723-14-0	Phosphorus (total)	25	J	25	50	ug/l	J	sp
440-101036-1	M-134-20150205	2/5/2015	365.3	7723-14-0	Phosphorus (total)	25	J	25	50	ug/l	J	sp
440-101036-1	M-7B-20150205	2/5/2015	365.3	7723-14-0	Phosphorus (total)	28	J	25	50	ug/l	J	sp
440-101116-2	M-136-20150205	2/5/2015	365.3	7723-14-0	Phosphorus (total)	37	J	25	50	ug/l	J-	m,sp
440-101116-2	MW-16-20150205	2/5/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m
440-101116-2	M-126-20150206-FD	2/6/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m
440-101116-2	M-126-20150206	2/6/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m
440-101116-2	M-81A-20150206	2/6/2015	365.3	7723-14-0	Phosphorus (total)	460		25	50	ug/l	J-	m
440-101116-2	M-5A-20150206	2/6/2015	365.3	7723-14-0	Phosphorus (total)	110		25	50	ug/l	J-	m
440-101116-2	M-80-20150206	2/6/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-101116-2	M-5A-20150206-FB	2/6/2015	365.3	7723-14-0	Phosphorus (total)	43	J	25	50	ug/l	J	sp
440-101116-2	M-57A-20150206-FD	2/6/2015	365.3	7723-14-0	Phosphorus (total)	28	J	25	50	ug/l	J-	m,sp
440-101116-2	M-57A-20150206	2/6/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m
440-101116-2	M-83-20150206	2/6/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m
440-101116-2	M-83-20150206-FD	2/6/2015	365.3	7723-14-0	Phosphorus (total)		U	25	50	ug/l	UJ	m
440-101116-2	M-140-20150206	2/6/2015	365.3	7723-14-0	Phosphorus (total)	69		25	50	ug/l	J-	m
440-104245-2	M-186D-20150311	3/11/2015	365.3	7723-14-0	Phosphorus (total)	47	J	25	50	ug/l	J	sp
440-104245-2	M-193-20150311-FD	3/11/2015	365.3	7723-14-0	Phosphorus (total)	46	J	25	50	ug/l	J	sp
440-108824-3	M-32-20150505	5/5/2015	365.3	7723-14-0	Phosphorus (total)	32	J	25	50	ug/l	J	sp
440-108824-3	M-33-20150505	5/5/2015	365.3	7723-14-0	Phosphorus (total)	49	J	25	50	ug/l	J	sp
440-109157-1	M-38-20150507	5/7/2015	365.3	7723-14-0	Phosphorus (total)		UF1	25	50	ug/l	UJ	m
440-109157-1	M-38-20150507-FD	5/7/2015	365.3	7723-14-0	Phosphorus (total)	30	J	25	50	ug/l	J-	m,sp
440-99142-1	WMW6.15S-20150115	1/15/2015	SM2540C	C-010	Dissolved solids (total)	1300000		25000	50000	ug/l	J	fd
440-99142-1	WMW6.15S-20150115-FD	1/15/2015	SM2540C	C-010	Dissolved solids (total)	2600000		25000	50000	ug/l	J	fd
440-101036-1	M-2A-20150204	2/4/2015	SM2540C	C-010	Dissolved solids (total)	8800000	H	50000	100000	ug/l	J-	h
440-101036-1	M-69-20150204	2/4/2015	SM2540C	C-010	Dissolved solids (total)	3900000	H	50000	100000	ug/l	J-	h
440-101036-1	MC-29-20150205	2/5/2015	SM2540C	C-010	Dissolved solids (total)	21000000	H	100000	200000	ug/l	J-	h
440-101036-1	MC-51-20150205	2/5/2015	SM2540C	C-010	Dissolved solids (total)	16000000	H	100000	200000	ug/l	J-	h
440-101036-1	MC-51-20150205-FD	2/5/2015	SM2540C	C-010	Dissolved solids (total)	16000000	H	100000	200000	ug/l	J-	h
440-101036-1	M-134-20150205	2/5/2015	SM2540C	C-010	Dissolved solids (total)	2600000	H	25000	50000	ug/l	J-	h
440-101036-1	M-134-20150205-FB	2/5/2015	SM2540C	C-010	Dissolved solids (total)		UH	5000	10000	ug/l	UJ	h
440-101036-1	MC-93-20150205	2/5/2015	SM2540C	C-010	Dissolved solids (total)	7600000	H	50000	100000	ug/l	J-	h
440-101036-1	M-134-20150205-EB	2/5/2015	SM2540C	C-010	Dissolved solids (total)		UH	5000	10000	ug/l	UJ	h
440-101036-1	MC-97-20150205	2/5/2015	SM2540C	C-010	Dissolved solids (total)	13000000	H	100000	200000	ug/l	J-	h
440-101036-1	M-79-20150205	2/5/2015	SM2540C	C-010	Dissolved solids (total)	4600000	H	50000	100000	ug/l	J-	h
440-101036-1	M-23-20150205	2/5/2015	SM2540C	C-010	Dissolved solids (total)	3900000	H	50000	100000	ug/l	J-	h
440-101036-1	M-135-20150205	2/5/2015	SM2540C	C-010	Dissolved solids (total)	3400000	H	25000	50000	ug/l	J-	h
440-101036-1	M-7B-20150205	2/5/2015	SM2540C	C-010	Dissolved solids (total)	8800000	H	50000	100000	ug/l	J-	h
440-101036-1	M-7B-20150205-FB	2/5/2015	SM2540C	C-010	Dissolved solids (total)		UH	5000	10000	ug/l	UJ	h
440-101036-1	M-55-20150205	2/5/2015	SM4500-CN-E	57-12-5	Cyanide (total)		U	0.013	0.025	mg/l	R	m
440-101036-1	M-55-20150205-FD	2/5/2015	SM4500-CN-E	57-12-5	Cyanide (total)		U	0.013	0.025	mg/l	R	m
440-99974-1	MC-45-20150127	1/27/2015	SM4500-NH3 D	7664-41-7|0	Ammonia (as N)	140	J	100	500	ug/l	J	sp
440-100230-2	M-74-20150129	1/29/2015	SM4500-NH3 D	7664-41-7|0	Ammonia (as N)	120	J	100	500	ug/l	J	sp
440-100386-2	M-35-20150129	1/29/2015	SM4500-NH3 D	7664-41-7|0	Ammonia (as N)	120	J	100	500	ug/l	J	sp
440-100386-2	M-35-20150129-FD	1/29/2015	SM4500-NH3 D	7664-41-7|0	Ammonia (as N)	110	J	100	500	ug/l	J	sp
440-100558-1	M-191-20150202	2/2/2015	SM4500-NH3 D	7664-41-7|0	Ammonia (as N)	280	J	100	500	ug/l	J	sp

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-101036-1	MC-29-20150205	2/5/2015	SM4500-NH3 D	7664-41-7|0	Ammonia (as N)	260	J	100	500	ug/l	J	sp
440-108824-3	M-33-20150505	5/5/2015	SM4500-NH3 D	7664-41-7|0	Ammonia (as N)	150	J	100	500	ug/l	J	sp
440-99238-2	M-121-20150116	1/16/2015	SM5310_DOC_B	7440-44-0	CARBON	780	J	650	1000	ug/l	J	sp
440-99312-1	M-190-20150119	1/19/2015	SM5310_DOC_B	7440-44-0	CARBON	690	J	650	1000	ug/l	J	sp
440-99312-1	M-190-20150119-FD	1/19/2015	SM5310_DOC_B	7440-44-0	CARBON	730	J	650	1000	ug/l	J	sp
440-99312-1	M-189-20150119	1/19/2015	SM5310_DOC_B	7440-44-0	CARBON	970	J	650	1000	ug/l	J	sp
440-99401-1	M-120-20150120	1/20/2015	SM5310_DOC_B	7440-44-0	CARBON	720	J	650	1000	ug/l	J	sp
440-99685-1	PC-53-20150121	1/21/2015	SM5310_DOC_B	7440-44-0	CARBON	910	J	650	1000	ug/l	J	sp
440-99685-1	PC-2-20150122	1/22/2015	SM5310_DOC_B	7440-44-0	CARBON	840	J	650	1000	ug/l	J	sp
440-99685-1	PC-4-20150122	1/22/2015	SM5310_DOC_B	7440-44-0	CARBON	850	J	650	1000	ug/l	J	sp
440-99783-1	PC-124-20150122	1/22/2015	SM5310_DOC_B	7440-44-0	CARBON	930	J	650	1000	ug/l	J	sp
440-100558-1	M-191-20150202	2/2/2015	SM5310_DOC_B	7440-44-0	CARBON	850	J	650	1000	ug/l	J	sp
440-100558-1	M-192-20150202	2/2/2015	SM5310_DOC_B	7440-44-0	CARBON	880	J	650	1000	ug/l	J	sp
440-98909-1	PC-64-20150113	1/13/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-98909-1	PC-65-20150113	1/13/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99061-1	PC-66-20150114	1/14/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99061-1	PC-67-20150114	1/14/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99238-1	MCF-29A-20150116	1/16/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99238-1	MCF-30B-20150116	1/16/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99238-1	MCF-30A-20150116	1/16/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99238-2	M-117-20150116	1/16/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99238-2	M-121-20150116	1/16/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99401-1	M-161D-20150119	1/19/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99401-1	PC-103-20150120	1/20/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99401-1	PC-68-20150120	1/20/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99576-2	M-155-20150121	1/21/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99577-1	PC-59-20150120	1/20/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99577-1	PC-60-20150121	1/21/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99577-1	PC-56-20150121	1/21/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99577-1	PC-58-20150121	1/21/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99577-1	PC-94-20150121	1/21/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99577-1	PC-107-20150121	1/21/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99862-1	PC-134D-20150126	1/26/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99862-1	PC-137D-20150126	1/26/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99862-1	PC-151-20150126	1/26/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99862-1	PC-151-20150126-FD	1/26/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-99862-1	PC-153-20150126	1/26/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99974-1	M-162D-20150127	1/27/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-99974-1	MC-45-20150127	1/27/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-100079-1	MC-50-20150127	1/27/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-100558-1	M-191-20150202	2/2/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-100558-1	M-192-20150202	2/2/2015	9034	18496-25-8	Sulfide (total)		U	1.0	1.0	mg/l	UJ	m
440-104383-1	PC-159-20150311	3/11/2015	9040C	C-006	pH	7.5	H	0.10	0.10	s.u.	J	h
440-104383-1	PC-154-20150312	3/12/2015	9040C	C-006	pH	7.4	H	0.10	0.10	s.u.	J	h
440-104519-1	PC-160-20150312	3/12/2015	9040C	C-006	pH	7.6	H	0.10	0.10	s.u.	J	h
440-104519-1	PC-158-20150312	3/12/2015	9040C	C-006	pH	7.6	H	0.10	0.10	s.u.	J	h
440-104519-1	PC-158-20150312-FD	3/12/2015	9040C	C-006	pH	7.5	H	0.10	0.10	s.u.	J	h
440-99312-1	M-190-20150119	1/19/2015	903.0	13982-63-3	Radium-226	0.188		0.0764	0.0764	pci/l	J	bl
440-99312-1	M-190-20150119-FD	1/19/2015	903.0	13982-63-3	Radium-226	0.198		0.0872	0.0872	pci/l	J	bl
440-99312-1	M-189-20150119	1/19/2015	903.0	13982-63-3	Radium-226	0.260		0.0923	0.0923	pci/l	J	bl
440-99401-1	M-161D-20150119	1/19/2015	903.0	13982-63-3	Radium-226	0.109		0.0890	0.0890	pci/l	J	bl
440-99401-1	TR-10-20150120	1/20/2015	903.0	13982-63-3	Radium-226	0.187		0.0868	0.0868	pci/l	J	bl
440-99401-1	M-118-20150120	1/20/2015	903.0	13982-63-3	Radium-226	0.106		0.0939	0.0939	pci/l	J	bl
440-99401-1	M-120-20150120	1/20/2015	903.0	13982-63-3	Radium-226	0.174		0.108	0.108	pci/l	J	bl
440-99401-1	M-12A-20150120	1/20/2015	903.0	13982-63-3	Radium-226	0.567		0.237	0.237	pci/l	J	bl
440-100079-1	M-77-20150128	1/28/2015	903.0	13982-63-3	Radium-226	0.295		0.112	0.112	pci/l	J	bf
440-100079-1	M-182-20150128	1/28/2015	903.0	13982-63-3	Radium-226	0.568		0.123	0.123	pci/l	J	o
440-100230-2	M-124-20150129	1/29/2015	903.0	13982-63-3	Radium-226	0.406		0.111	0.111	pci/l	J	o
440-100759-1	M-65-20150203	2/3/2015	903.0	13982-63-3	Radium-226	0.764		0.161	0.161	pci/l	J	o
440-100759-1	M-138-20150203	2/3/2015	903.0	13982-63-3	Radium-226	0.105		0.0968	0.0968	pci/l	J	fd,o
440-100759-1	M-138-20150203-FD	2/3/2015	903.0	13982-63-3	Radium-226	0.149		0.0756	0.0756	pci/l	J	fd
440-100759-1	M-66-20150203	2/3/2015	903.0	13982-63-3	Radium-226	0.613		0.185	0.185	pci/l	J	o
440-100759-1	M-142-20150203	2/3/2015	903.0	13982-63-3	Radium-226	0.0807	U	0.0860	0.0860	pci/l	UJ	ld,o
440-100881-1	M-139-20150204-EB	2/4/2015	903.0	13982-63-3	Radium-226	0.0646	U	0.0840	0.0840	pci/l	UJ	o
440-101036-1	MC-51-20150205-FD	2/5/2015	903.0	13982-63-3	Radium-226	0.169		0.0857	0.0857	pci/l	J	o
440-101036-1	M-134-20150205-FB	2/5/2015	903.0	13982-63-3	Radium-226	0.0430	U	0.108	0.108	pci/l	UJ	o
440-101036-1	M-134-20150205-EB	2/5/2015	903.0	13982-63-3	Radium-226	0.0238	U	0.119	0.119	pci/l	UJ	o
440-101036-1	MC-97-20150205	2/5/2015	903.0	13982-63-3	Radium-226	0.409		0.103	0.103	pci/l	J	o
440-101036-1	M-7B-20150205	2/5/2015	903.0	13982-63-3	Radium-226	0.700		0.0932	0.0932	pci/l	J	bf
440-101116-2	MW-16-20150205	2/5/2015	903.0	13982-63-3	Radium-226	1.85		0.0996	0.0996	pci/l	J	o
440-101116-2	M-126-20150206-FD	2/6/2015	903.0	13982-63-3	Radium-226	2.75		0.237	0.237	pci/l	J	o
440-101116-2	M-126-20150206	2/6/2015	903.0	13982-63-3	Radium-226	2.82		0.199	0.199	pci/l	J	o

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-101116-2	M-5A-20150206	2/6/2015	903.0	13982-63-3	Radium-226	0.864		0.215	0.215	pci/l	J	o
440-101116-2	M-57A-20150206	2/6/2015	903.0	13982-63-3	Radium-226	0.490		0.205	0.205	pci/l	J	o,fd
440-101116-2	M-57A-20150206-FD	2/6/2015	903.0	13982-63-3	Radium-226	0.813		0.172	0.172	pci/l	J	fd
440-99685-1	MC-53-20150122	1/22/2015	904.0	15262-20-1	Radium-228	0.544		0.312	0.312	pci/l	J	fd
440-99685-1	MC-53-20150122-FD	1/22/2015	904.0	15262-20-1	Radium-228	0.825		0.316	0.316	pci/l	J	fd
440-100079-1	M-182-20150128	1/28/2015	904.0	15262-20-1	Radium-228	0.241	U	0.400	0.400	pci/l	UJ	o
440-100230-2	M-124-20150129	1/29/2015	904.0	15262-20-1	Radium-228	0.392		0.374	0.374	pci/l	J	o
440-100386-2	M-37-20150129	1/29/2015	904.0	15262-20-1	Radium-228	0.576		0.453	0.453	pci/l	J	bl
440-100386-2	M-128-20150130	1/30/2015	904.0	15262-20-1	Radium-228	0.625		0.402	0.402	pci/l	J	bl
440-100386-2	M-11-20150130	1/30/2015	904.0	15262-20-1	Radium-228	0.389		0.333	0.333	pci/l	J	bl
440-100386-2	M-146-20150130	1/30/2015	904.0	15262-20-1	Radium-228	0.494		0.404	0.404	pci/l	J	bl
440-100558-1	M-191-20150202	2/2/2015	904.0	15262-20-1	Radium-228	0.436		0.340	0.340	pci/l	J	bl
440-100759-1	M-65-20150203	2/3/2015	904.0	15262-20-1	Radium-228	0.255	U	0.640	0.640	pci/l	UJ	o
440-100759-1	M-138-20150203	2/3/2015	904.0	15262-20-1	Radium-228	0.133	U	0.350	0.350	pci/l	UJ	o
440-100759-1	M-66-20150203	2/3/2015	904.0	15262-20-1	Radium-228	0.323	U	0.687	0.687	pci/l	UJ	o
440-100759-1	M-142-20150203	2/3/2015	904.0	15262-20-1	Radium-228	0.195	U	0.380	0.380	pci/l	UJ	o
440-100759-1	M-25-20150203	2/3/2015	904.0	15262-20-1	Radium-228	0.526		0.352	0.352	pci/l	J	fd
440-100759-1	M-25-20150203-FD	2/3/2015	904.0	15262-20-1	Radium-228	1.05		0.320	0.320	pci/l	J	fd
440-101036-1	MC-51-20150205-FD	2/5/2015	904.0	15262-20-1	Radium-228	0.178	U	0.310	0.310	pci/l	UJ	o
440-101036-1	M-134-20150205-FB	2/5/2015	904.0	15262-20-1	Radium-228	-0.159	U	0.331	0.331	pci/l	UJ	o
440-101036-1	M-134-20150205-EB	2/5/2015	904.0	15262-20-1	Radium-228	0.0924	U	0.321	0.321	pci/l	UJ	o
440-101036-1	MC-97-20150205	2/5/2015	904.0	15262-20-1	Radium-228	0.371		0.314	0.314	pci/l	J	o
440-101116-2	MW-16-20150205	2/5/2015	904.0	15262-20-1	Radium-228	2.60		0.384	0.384	pci/l	J	o
440-101116-2	M-126-20150206-FD	2/6/2015	904.0	15262-20-1	Radium-228	2.59		0.327	0.327	pci/l	J	o
440-101116-2	M-126-20150206	2/6/2015	904.0	15262-20-1	Radium-228	2.44		0.337	0.337	pci/l	J	o
440-101116-2	M-5A-20150206	2/6/2015	904.0	15262-20-1	Radium-228	0.909		0.315	0.315	pci/l	J	o
440-101116-2	M-57A-20150206	2/6/2015	904.0	15262-20-1	Radium-228	0.187	U	0.332	0.332	pci/l	UJ	o
440-104147-2	M-189-20150310	3/10/2015	904.0	15262-20-1	Radium-228	0.345		0.323	0.323	pci/l	J	bl
440-99312-1	M-190-20150119	1/19/2015	A-01-R	U-235/236	Uranium-235/236	0.203		0.186	0.186	pci/l	J	fd
440-99312-1	M-190-20150119-FD	1/19/2015	A-01-R	U-235/236	Uranium-235/236	0.118		0.111	0.111	pci/l	J	fd
440-99862-2	M-186-20150126	1/26/2015	A-01-R	7440-61-1	Uranium-238	2.51		0.604	0.604	pci/l	J	fd
440-99862-2	M-186-20150126-FD	1/26/2015	A-01-R	7440-61-1	Uranium-238	1.36		0.667	0.667	pci/l	J	fd
440-100230-2	M-97-20150129-FD	1/29/2015	A-01-R	U-235/236	Uranium-235/236	1.10		0.748	0.748	pci/l	J	fd
440-100230-2	M-97-20150129	1/29/2015	A-01-R	U-235/236	Uranium-235/236	0.796		0.398	0.398	pci/l	J	fd
440-100759-1	M-138-20150203	2/3/2015	A-01-R	7440-61-1	Uranium-238	11.0		0.850	0.850	pci/l	J	fd
440-100759-1	M-138-20150203-FD	2/3/2015	A-01-R	7440-61-1	Uranium-238	7.66		0.328	0.328	pci/l	J	fd

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100881-1	M-139-20150204	2/4/2015	A-01-R	7440-61-1	Uranium-238	1.75		0.316	0.316	pci/l	J	be
440-101036-1	M-2A-20150204	2/4/2015	A-01-R	U-233/234	Uranium-233/234	8.72		0.333	0.333	pci/l	J	ld
440-101036-1	M-69-20150204	2/4/2015	A-01-R	U-233/234	Uranium-233/234	13.7		0.605	0.605	pci/l	J	ld
440-101036-1	MC-29-20150205	2/5/2015	A-01-R	U-233/234	Uranium-233/234	8.70		0.351	0.351	pci/l	J	ld
440-101036-1	MC-51-20150205	2/5/2015	A-01-R	U-233/234	Uranium-233/234	13.6		0.420	0.420	pci/l	J	ld
440-101036-1	MC-51-20150205-FD	2/5/2015	A-01-R	U-233/234	Uranium-233/234	16.5		0.403	0.403	pci/l	J	ld
440-101036-1	M-134-20150205	2/5/2015	A-01-R	U-233/234	Uranium-233/234	3.53		0.540	0.540	pci/l	J	be,ld
440-101036-1	MC-93-20150205	2/5/2015	A-01-R	U-233/234	Uranium-233/234	22.7		0.472	0.472	pci/l	J	ld
440-101036-1	M-134-20150205-EB	2/5/2015	A-01-R	U-233/234	Uranium-233/234	0.498		0.434	0.434	pci/l	J	bl
440-101036-1	MC-97-20150205	2/5/2015	A-01-R	U-233/234	Uranium-233/234	13.5		0.474	0.474	pci/l	J	ld
440-101036-1	M-79-20150205	2/5/2015	A-01-R	U-233/234	Uranium-233/234	14.2		0.314	0.314	pci/l	J	ld
440-101036-1	M-23-20150205	2/5/2015	A-01-R	U-233/234	Uranium-233/234	17.6		0.331	0.331	pci/l	J	ld
440-101036-1	M-135-20150205	2/5/2015	A-01-R	U-233/234	Uranium-233/234	5.61		0.466	0.466	pci/l	J	ld
440-101036-1	M-7B-20150205	2/5/2015	A-01-R	U-233/234	Uranium-233/234	21.7		0.259	0.259	pci/l	J	ld
440-98805-2	M-154-20150112	1/12/2015	A-01-R	14269-63-7	Thorium-230	0.119		0.0703	0.0703	pci/l	J	bl
440-98805-2	M-150-20150112	1/12/2015	A-01-R	14269-63-7	Thorium-230	0.158		0.125	0.125	pci/l	J	bl
440-98909-2	M-161-20150113	1/13/2015	A-01-R	14269-63-7	Thorium-230	0.0771		0.0771	0.0771	pci/l	J	bl
440-99061-2	TR-1-20150114	1/14/2015	A-01-R	14269-63-7	Thorium-230	0.212		0.141	0.141	pci/l	J	bl
440-99142-2	TR-7-20150115	1/15/2015	A-01-R	14269-63-7	Thorium-230	0.169		0.128	0.128	pci/l	J	bl
440-99142-2	TR-11-20150115	1/15/2015	A-01-R	14269-63-7	Thorium-230	0.244		0.159	0.159	pci/l	J	bl
440-99238-2	M-117-20150116	1/16/2015	A-01-R	14269-63-7	Thorium-230	0.151		0.0727	0.0727	pci/l	J	bl
440-99238-2	M-121-20150116	1/16/2015	A-01-R	14269-63-7	Thorium-230	0.202		0.136	0.136	pci/l	J	bl
440-99576-2	M-155-20150121	1/21/2015	A-01-R	14269-63-7	Thorium-230	0.736		0.472	0.472	pci/l	J	bl
440-99576-2	M-151-20150121	1/21/2015	A-01-R	14269-63-7	Thorium-230	0.783		0.277	0.277	pci/l	J	bl
440-99576-2	M-165-20150121	1/21/2015	A-01-R	14269-63-7	Thorium-230	0.640		0.370	0.370	pci/l	J	bl
440-99685-1	M-181-20150121	1/21/2015	A-01-R	14269-63-7	Thorium-230	0.890		0.414	0.414	pci/l	J	bl
440-99685-1	M-6A-20150122-FB	1/22/2015	A-01-R	14269-63-7	Thorium-230	0.529		0.387	0.387	pci/l	J	bl
440-99685-1	M-6A-20150122	1/22/2015	A-01-R	14269-63-7	Thorium-230	0.632		0.471	0.471	pci/l	J	bl,bf
440-99862-2	M-149-20150126	1/26/2015	A-01-R	14269-63-7	Thorium-230	0.749		0.347	0.347	pci/l	J	bl
440-99862-2	M-153-20150126	1/26/2015	A-01-R	14269-63-7	Thorium-230	0.522		0.363	0.363	pci/l	J	bl
440-99862-2	M-186-20150126	1/26/2015	A-01-R	14269-63-7	Thorium-230	0.442		0.317	0.317	pci/l	J	fd,bl
440-99862-2	M-186-20150126-FD	1/26/2015	A-01-R	14269-63-7	Thorium-230	1.06		0.329	0.329	pci/l	J	fd
440-99974-1	M-162D-20150127	1/27/2015	A-01-R	14269-63-7	Thorium-230	0.865		0.747	0.747	pci/l	J	bf
440-100079-1	M-77-20150128	1/28/2015	A-01-R	14269-63-7	Thorium-230	0.879		0.159	0.159	pci/l	J	bf
440-100230-2	M-92-20150129	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.871		0.154	0.154	pci/l	J	bl
440-100230-2	M-74-20150129	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.792		0.322	0.322	pci/l	J	bl

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-100230-2	M-97-20150129	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.706		0.307	0.307	pci/l	J	bl
440-100230-2	M-97-20150129-FD	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.910		0.143	0.143	pci/l	J	bl
440-100230-2	M-133-20150129	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.434		0.282	0.282	pci/l	J	bl
440-100230-2	M-73-20150129-EB	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.612		0.153	0.153	pci/l	J	bl
440-100230-2	M-124-20150129	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.830		0.317	0.317	pci/l	J	bl
440-100230-2	M-67-20150129	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.471		0.246	0.246	pci/l	J	bl
440-100230-2	M-14A-20150129	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.641		0.261	0.261	pci/l	J	bl
440-100386-2	M-37-20150129	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.613		0.329	0.329	pci/l	J	bl
440-100386-2	M-35-20150129	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.545		0.170	0.170	pci/l	J	bl
440-100386-2	M-35-20150129-FD	1/29/2015	A-01-R	14269-63-7	Thorium-230	0.515		0.267	0.267	pci/l	J	bl
440-100386-2	M-52-20150130	1/30/2015	A-01-R	14269-63-7	Thorium-230	0.920		0.260	0.260	pci/l	J	bl
440-100386-2	M-11-20150130	1/30/2015	A-01-R	14269-63-7	Thorium-230	0.911		0.138	0.138	pci/l	J	bl
440-100386-2	M-146-20150130	1/30/2015	A-01-R	14269-63-7	Thorium-230	0.766		0.317	0.317	pci/l	J	bl
440-100558-1	M-191-20150202	2/2/2015	A-01-R	14269-63-7	Thorium-230	0.617		0.325	0.325	pci/l	J	be
440-100759-1	M-65-20150203	2/3/2015	A-01-R	14269-63-7	Thorium-230	0.554		0.430	0.430	pci/l	J	bl
440-100759-1	M-66-20150203-FD	2/3/2015	A-01-R	14269-63-7	Thorium-230	0.821		0.359	0.359	pci/l	J	bl
440-100881-1	M-75-20150203	2/3/2015	A-01-R	14269-63-7	Thorium-230	0.691		0.156	0.156	pci/l	J	bl
440-100881-1	M-72-20150204	2/4/2015	A-01-R	14274-82-9	Thorium-228	0.844		0.679	0.679	pci/l	J	bl
440-100881-1	M-72-20150204	2/4/2015	A-01-R	14269-63-7	Thorium-230	0.698		0.341	0.341	pci/l	J	bl
440-100881-1	M-132-20150204	2/4/2015	A-01-R	14269-63-7	Thorium-230	0.527		0.278	0.278	pci/l	J	bl
440-100881-1	M-71-20150204	2/4/2015	A-01-R	14274-82-9	Thorium-228	0.747		0.551	0.551	pci/l	J	bl
440-100881-1	M-71-20150204	2/4/2015	A-01-R	14269-63-7	Thorium-230	0.705		0.151	0.151	pci/l	J	bl
440-100881-1	M-68-20150204	2/4/2015	A-01-R	14269-63-7	Thorium-230	0.449		0.149	0.149	pci/l	J	bl
440-100881-1	M-147-20150204	2/4/2015	A-01-R	14269-63-7	Thorium-230	0.881		0.338	0.338	pci/l	J	bl
440-100881-1	M-70-20150204	2/4/2015	A-01-R	14269-63-7	Thorium-230	0.826		0.318	0.318	pci/l	J	bl
440-100881-1	M-70-20150204	2/4/2015	A-01-R	14274-82-9	Thorium-228	0.635		0.600	0.600	pci/l	J	bl
440-100881-1	M-139-20150204	2/4/2015	A-01-R	14269-63-7	Thorium-230	0.837		0.268	0.268	pci/l	J	be,bl
440-100881-1	M-139-20150204	2/4/2015	A-01-R	14274-82-9	Thorium-228	0.988		0.551	0.551	pci/l	J	be,bl
440-100881-1	M-58-20150204	2/4/2015	A-01-R	14274-82-9	Thorium-228	0.985		0.510	0.510	pci/l	J	bl
440-100881-1	M-139-20150204-EB	2/4/2015	A-01-R	14269-63-7	Thorium-230	0.989		0.179	0.179	pci/l	J	bl
440-101036-1	M-134-20150205	2/5/2015	A-01-R	14274-82-9	Thorium-228	0.580		0.463	0.463	pci/l	J	bl
440-101036-1	M-134-20150205	2/5/2015	A-01-R	14269-63-7	Thorium-230	0.595		0.350	0.350	pci/l	J	bl,be,bf
440-101036-1	M-134-20150205-FB	2/5/2015	A-01-R	14269-63-7	Thorium-230	0.683		0.421	0.421	pci/l	J	bl
440-101036-1	MC-93-20150205	2/5/2015	A-01-R	14274-82-9	Thorium-228	0.563		0.516	0.516	pci/l	J	bl
440-101036-1	M-134-20150205-EB	2/5/2015	A-01-R	14269-63-7	Thorium-230	0.721		0.400	0.400	pci/l	J	bl
440-101036-1	M-79-20150205	2/5/2015	A-01-R	14269-63-7	Thorium-230	0.515		0.269	0.269	pci/l	J	bl

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code
440-101036-1	M-79-20150205	2/5/2015	A-01-R	14274-82-9	Thorium-228	0.505		0.449	0.449	pci/l	J	bl
440-101036-1	M-135-20150205	2/5/2015	A-01-R	14269-63-7	Thorium-230	0.739		0.352	0.352	pci/l	J	bl
440-101036-1	M-7B-20150205	2/5/2015	A-01-R	14269-63-7	Thorium-230	0.928		0.387	0.387	pci/l	J	bl,bf
440-101116-2	M-136-20150205	2/5/2015	A-01-R	14269-63-7	Thorium-230	0.534		0.280	0.280	pci/l	J	bl
440-101116-2	MW-16-20150205	2/5/2015	A-01-R	14269-63-7	Thorium-230	0.770		0.372	0.372	pci/l	J	bl
440-101116-2	M-126-20150206-FD	2/6/2015	A-01-R	14269-63-7	Thorium-230	0.849		0.150	0.150	pci/l	J	bl
440-101116-2	M-126-20150206	2/6/2015	A-01-R	14269-63-7	Thorium-230	0.944		0.342	0.342	pci/l	J	bl
440-101116-2	M-81A-20150206	2/6/2015	A-01-R	14269-63-7	Thorium-230	0.917		0.162	0.162	pci/l	J	bl,bf
440-101116-2	M-81A-20150206-FB	2/6/2015	A-01-R	14269-63-7	Thorium-230	0.509		0.152	0.152	pci/l	J	bl
440-101116-2	M-5A-20150206	2/6/2015	A-01-R	14269-63-7	Thorium-230	0.857		0.305	0.305	pci/l	J	bl,bf
440-101116-2	M-80-20150206	2/6/2015	A-01-R	14269-63-7	Thorium-230	0.732		0.318	0.318	pci/l	J	bl
440-101116-2	M-5A-20150206-FB	2/6/2015	A-01-R	14269-63-7	Thorium-230	0.894		0.408	0.408	pci/l	J	bl
440-101116-2	M-83-20150206-FD	2/6/2015	A-01-R	14269-63-7	Thorium-230	0.478		0.177	0.177	pci/l	J	bl
440-101116-2	M-140-20150206	2/6/2015	A-01-R	14269-63-7	Thorium-230	0.686		0.341	0.341	pci/l	J	bl
440-104147-2	M-189-20150310	3/10/2015	A-01-R	14269-63-7	Thorium-230	0.474		0.340	0.340	pci/l	J	bl
440-104147-2	M-191-20150310	3/10/2015	A-01-R	14269-63-7	Thorium-230	0.696		0.149	0.149	pci/l	J	bl
440-104245-2	M-186D-20150311	3/11/2015	A-01-R	14269-63-7	Thorium-230	0.310		0.256	0.256	pci/l	J	bl,bf
440-104245-2	M-186D-20150311-FB	3/11/2015	A-01-R	14269-63-7	Thorium-230	0.546		0.388	0.388	pci/l	J	bl
440-104245-2	M-192-20150311	3/11/2015	A-01-R	14269-63-7	Thorium-230	0.967		0.145	0.145	pci/l	J	bl
440-104245-2	M-193-20150311	3/11/2015	A-01-R	14269-63-7	Thorium-230	1.05		0.311	0.311	pci/l	J	fd
440-104245-2	M-193-20150311-FD	3/11/2015	A-01-R	14269-63-7	Thorium-230	0.740		0.343	0.343	pci/l	J	fd,bl
440-104383-2	M-161D-20150312	3/12/2015	A-01-R	14269-63-7	Thorium-230	0.529		0.345	0.345	pci/l	J	bl
440-104383-2	H-28-20150312	3/12/2015	A-01-R	14269-63-7	Thorium-230	0.739		0.281	0.281	pci/l	J	bl
440-108824-3	M-10-20150505	5/5/2015	A-01-R	14269-63-7	Thorium-230	0.711		0.270	0.270	pci/l	J	bl
440-108824-3	M-33-20150505	5/5/2015	A-01-R	14269-63-7	Thorium-230	0.905		0.327	0.327	pci/l	J	bl
440-109157-1	M-38-20150507-FD	5/7/2015	A-01-R	14269-63-7	Thorium-230	0.993		0.414	0.414	pci/l	J	bl,bf
440-109157-2	M-38-20150507-FB	5/7/2015	A-01-R	14269-63-7	Thorium-230	0.754		0.350	0.350	pci/l	J	bl

ATTACHMENTS

VOCs by EPA SW 846 Method 8260B

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria with the following exceptions:

SDG	Sample	Compound	Finding	Criteria	Flag	A or P
440-98909-1	PC-40-20150113	Chloroform	A headspace was apparent in the sample containers.	There should be no headspace in the sample containers.	J- (all detects)	A

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds with the following exceptions:

SDG	Date	Compound	%D	Associated Samples	Flag	A or P
440-98805-1	01/10/15 (GCMS32)	Dichlorodifluoromethane	23.8	M-154-20150112-TB**	UJ (all non-detects)	A
440-98805-1	01/07/15 (GCMS59)	Dichlorodifluoromethane	26.8	M-154-20150112** M-150-20150112**	UJ (all non-detects)	A

SDG	Date	Compound	%D	Associated Samples	Flag	A or P
440-98909-1	01/10/15 (GCMS32)	Dichlorodifluoromethane	23.8	PC-40-20150113-TB M-161-20150113 M-162-20150113 PC-64-20150113-EB	UJ (all non-detects)	A
440-99061-1	12/31/14 (GCMS31)	Dichlorodifluoromethane	27.1	TR-1-20150114** TR-2-20150114 TR-4-20150114 TR-5-20150114 TR-1-20150114-TB	UJ (all non-detects)	A
440-99142-1	01/03/15 (GCMS58)	Dichlorodifluoromethane	21.4	All samples in SDG 440-99142-1	UJ (all non-detects)	A
440-99576-1	01/22/15 (GCMS58)	Dichlorodifluoromethane	32.5	M-155-20150121 M-151-20150121	UJ (all non-detects)	A
440-99576-1	01/08/15 (GCMS92)	Dichlorodifluoromethane	22.6	M-165-20150121	UJ (all non-detects)	A
440-99685-1	01/22/15 (GCMS58)	Dichlorodifluoromethane	32.5	M-181-02150121 M-6A-20150122 M-6A-20150122-FB MC-53-20150122 MC-53-20150122-FD	UJ (all non-detects)	A
440-99783-1	01/28/15 (GCMS09)	Dichlorodifluoromethane	29.1	All samples in SDG 440-99783-1	UJ (all non-detects)	A
440-99401-1	01/22/15 (GCMS58)	Dichlorodifluoromethane	32.5	M-12A-20150120-EB	UJ (all non-detects)	A
440-99401-1	01/08/15 (GCMS92)	Dichlorodifluoromethane	22.6	M-161D-20150119 M-161D-20150119-TB M-118-20150120 M-120-20150120 TR-10-20150120 TR-9-20150120 TR-9-20150120-FB M-12A-20150120	UJ (all non-detects)	A
440-99862-1	01/28/15 (GCMS09)	Dichlorodifluoromethane	29.1	PC-160-20150126 PC-134D-20150126 PC-137D-20150126 PC-151-20150126 PC-151-20150126-FD PC-153-20150126 M-149-20150126 M-153-20150126 M-186-20150126 M-186-20150126-FD	UJ (all non-detects)	A
440-99974-1	01/28/15 (GCMS09)	Dichlorodifluoromethane	29.1	All samples in SDG 440-99974-1	UJ (all non-detects)	A

SDG	Date	Compound	%D	Associated Samples	Flag	A or P
440-100079-1	01/29/15 (GCMS59)	Dichlorodifluoromethane	28.1	MC-50-20150127-EB M-141-20150128 M-141-20150128-FD M-31A-20150128 MC-50-20150127-TB	UJ (all non-detects)	A
440-100079-1	01/08/15 (GCMS92)	Dichlorodifluoromethane	22.6	MC-50-20150127 M-148A-20150128 M-77-20150128 M-77-20150128-FB M-182-20150128 M-164-20150128	UJ (all non-detects)	A
440-100230-1	01/22/15 (GCMS13)	Dichlorodifluoromethane	30.0	All samples in SDG 440-100230-1	UJ (all non-detects)	A
440-100386-1	01/24/15 (GCMS56)	Dichlorodifluoromethane	32.3 26.8 27.8 26.4	All samples in SDG 440-100386-1	UJ (all non-detects)	A
440-100558-1	01/24/15 (GCMS56)	Dichlorodifluoromethane	32.3	M-22A-20150202** M-191-20150202**	UJ (all non-detects)	A
440-100558-1	01/08/15 (GCMS92)	Dichlorodifluoromethane	22.6	M-64-20150202** M-191-20150202-EB** M-192-20150202** M-144-20150202** M-144-20150202-TB**	UJ (all non-detects)	A
440-100759-1	01/22/15 (GCMS32)	Dichlorodifluoromethane	38.3	M-13-20150202 M-138-20150203 M-137-20150203 M-115-20150203	UJ (all non-detects)	A
440-100759-1	01/28/15 (GCMS34)	Dichlorodifluoromethane	23.4	M-138-20150203-FD M-25-20150203	UJ (all non-detects)	A
440-100881-1	01/24/15 (GCMS56)	Dichlorodifluoromethane	32.3	M-72-20150204** M-71-20150204** M-70-20150204** M-58-20150204** M-75-20150203**	UJ (all non-detects)	A
440-100881-1	01/22/15 (GCMS58)	Dichlorodifluoromethane	32.5	M-68-20150204** M-147-20150204**	UJ (all non-detects)	A
440-101116-1	01/28/15 (GCMS34)	Dichlorodifluoromethane	23.4	M-126-20150206 M-126-20150206-FD M-5A-20150206 M-57A-20150206 M-57A-20150206-FD M-140-20150206	UJ (all non-detects)	A

SDG	Date	Compound	%D	Associated Samples	Flag	A or P
440-101116-1	01/22/15 (GCMS58)	Dichlorodifluoromethane	32.5	MW-16-20150205 M-81A-20150206 M-81A-20150206-FB M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205	UJ (all non-detects)	A
440-101036-1	01/08/15 (GCMS92)	Dichlorodifluoromethane	22.6	M-2A-20150204 MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-7B-20150205-FB M-2A-20150204-TB M-69-20150204 M-134-20150205 M-134-20150205-FB M-79-20150205	UJ (all non-detects)	A
440-104383-1	03/12/15 (GCMS34)	Dichlorodifluoromethane	32.3	All samples in SDG 440-104383-1	UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

SDG	Date	Compound	%D	Associated Samples	Flag	A or P
440-99238-1	01/19/15 (TDA19002)	Bromochloromethane 1,2-Dichloroethane	22.4 20.3	All samples in SDG 440-99238-1	UJ (all non-detects) UJ (all non-detects)	A
440-99576-1	01/26/15 (TDA26002)	Dichlorodifluoromethane	20.4	M-155-20150121-TB	UJ (all non-detects)	A
440-99685-1	01/26/15 (TDA26002)	Dichlorodifluoromethane	20.4	M-181-20150121-TB	UJ (all non-detects)	A
440-99312-1	01/21/15 (TDA21002)	Chlorobenzene 1,1,2,2-Tetrachloroethane 1,2-Dibromo-3-chloropropane 1,2,3-Trichlorobenzene	20.2 20.3 21.2 20.8	All samples in SDG 440-99312-1	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A

SDG	Date	Compound	%D	Associated Samples	Flag	A or P
440-100079-1	02/05/15 (ADB05002)	Dichlorodifluoromethane Trichlorofluoromethane	25.8 22.0	MC-50-20150127 M-148A-20150128 M-77-20150128 M-77-20150128-FB M-182-20150128 M-164-20150128	UJ (all non-detects) UJ (all non-detects)	A
440-100558-1	02/06/15 (GDB06007)	Dichlorodifluoromethane Trichlorofluoromethane 1,1,1-Trichloroethane Carbon tetrachloride	31.0 26.3 20.6 22.3	M-22A-20150202** M-191-20150202**	J- (all detects) UJ (all non-detects)	A
440-100558-1	02/09/15 (ADB09021)	2,2-Dichloropropane 1,1,1-Trichloroethane Carbon tetrachloride	29.3 21.8 37.3	M-191-20150202-EB** M-192-20150202** M-144-20150202** M-144-20150202-TB**	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A
440-100759-1	02/10/15 (PDB10002)	Dichlorodifluoromethane 1,2-Dichloroethane	31.8 21.1	M-13-20150202 M-138-20150203 M-137-20150203 M-115-20150203	UJ (all non-detects) UJ (all non-detects)	A
440-100881-1	02/12/15 (TDB12002)	1,2-Dibromo-3-chloropropane	24.8	M-132-20150204** M-139-20150204** M-139-20150204-EB** M-75-20150203-TB**	UJ (all non-detects)	A
440-100881-1	02/12/15 (GDB12002)	Dichlorodifluoromethane Trichlorofluoromethane 1,1,1-Trichloroethane Carbon tetrachloride	34.9 29.0 20.6 24.4	M-72-20150204** M-71-20150204** M-70-20150204** M-58-20150204** M-75-20150203**	J- (all detects) UJ (all non-detects)	A
440-100881-1	02/12/15 (YDB12032)	2-Butanone 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane	29.8 22.2 21.6 20.6	M-68-20150204** M-147-20150204**	UJ (all non-detects)	A
440-100881-1	02/12/15 (YDB12032)	Carbon tetrachloride	27.6	M-68-20150204** M-147-20150204**	J+ (all detects)	A
440-101036-1	02/13/15 (ADB13032)	Carbon tetrachloride	37.8	M-2A-20150204	J+ (all detects)	A
440-101036-1	02/14/15 (ADB14002)	1,2-Dichloroethane	20.9	M-7B-20150205	J+ (all detects)	A
440-101116-1	02/15/15 (RDB15002)	Chloromethane	20.2	M-126-20150206 M-126-20150206-FD M-5A-20150206 M-57A-20150206 M-57A-20150206-FD M-140-20150206	UJ (all non-detects)	A

SDG	Date	Compound	%D	Associated Samples	Flag	A or P
440-101116-1	02/15/15 (YDB15002)	Chloromethane	21.7	MW-16-20150205 M-81A-20150206 M-81A-20150206-FB M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205	UJ (all non-detects)	A
440-104147-1	03/12/15 (TDC12024)	Naphthalene	20.1	All samples in SDG 440-104147-1	UJ (all non-detects)	A
440-104245-1	03/13/15 (TDC13002)	Dichlorodifluoromethane 1,2-Dibromo-3-chloropropane Naphthalene	21.1 22.6 20.2	All samples in SDG 440-104245-1	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

SDG	Laboratory Blank ID	Analysis Date	Compound	Concentration	Associated Samples
440-99783-1	MB 440-233042	01/30/15	1,2,3-Trichlorobenzene	0.490 ug/L	PC-154-20150123-TB
440-99862-1	MB 440-233042	01/30/15	1,2,3-Trichlorobenzene	0.490 ug/L	PC-137D-20150126 PC-153-20150126 M-149-20150126 M-153-20150126 M-186-20150126 M-186-20150126-FD
440-100558-1	MB 440-235176	02/09/15	Methylene chloride	1.68 ug/L	M-191-20150202-EB** M-192-20150202** M-144-20150202** M-144-20150202-TB**

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated laboratory blanks.

VI. Field Blanks

Samples M-154-20150112-TB** (from SDG 440-98805-1), PC-40-20150113-TB (from SDG 440-98909-1), TR-1-20150114-TB (from SDG 440-99061-1), TR-3-20150115-TB (from SDG 440-99142-1), M-117-20150116-TB (from SDG 440-99238-1), M-155-20150121-TB (from SDG 440-99576-1), M-181-20150121-TB (from SDG 440-99685-1),

PC-154-20150123-TB (from SDG 440-99783-1), M-190-20150119-TB (from SDG 440-99312-1), M-161D-20150119-TB (from SDG 440-99401-1), PC-160-20150126-TB (from SDG 440-99862-1), M-186D-20150126-TB (from SDG 440-99974-1), MC-50-20150127-TB (from SDG 440-100079-1), M-92-20150129-TB (from SGD 440-100230-1), M-37-20150129-TB (from SDG 440-100386-1), M-144-20150202-TB** (from SDG 440-100558-1), M-13-20150202-TB (from SDG 440-100759-1), M-75-20150203-TB** (from SDG 440-100881-1), M-136-20150205-TB (from SDG 440-101116-1), M-2A-20150204-TB (from SDG 440-101036-1), M-190-20150310-TB (from SDG 440-104147-1), M-186D-20150311-TB (from SDG 440-104245-1), M-161D-20150312-TB (from SDG 440-104383-1), M-10-20150505-TB (from SDG 440-108824-2) and M-38-20150507-TB (from SDG 440-109157-3) were identified as trip blanks. No contaminants were found.

Samples PC-64-20150113-EB (from SDG 440-98909-1), M-12A-20150120-EB (from SDG 440-99401-1), MC-50-20150127-EB (from SDG 440-100079-1), M-73-20150129-EB (from SDG 440-100230-1), M-191-20150202-EB** (from SDG 440-100558-1), M-139-20150204-EB** (from SDG 440-100881-1), M-139-20150204-EB (from SDG 440-100881-1), M-134-20150205-EB (from SDG 440-101036-1), M-189-20150310-EB (from SDG 440-104147-1) and M-38-20150507-EB (from SDG 440-109157-3) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-101036-1	M-139-20150204-EB**	02/04/15	Bromodichloromethane Bromoform Chloroform Dibromochloromethane	7.3 ug/L 1.0 ug/L 7.5 ug/L 5.5 ug/L	M-139-20150204**
440-104147-1	M-189-20150310-EB	03/10/15	Chloroform	0.25 ug/L	M-189-20150310
440-109157-3	M-38-20150507-EB	05/07/15	Chloroform	0.29 ug/L	M-38-20150507** M-38-20150507-FD

Samples PC-28-20150114-FB (from SDG 440-99061-1), M-6A-20150122-FB (from SDG 440-99685-1), TR-9-20150120-FB (from SDG 440-99401-1), M-162D-20150127-FB (from SDG 440-99974-1), M-77-20150128-FB (from SDG 440-100079-1), M-81A-20150206-FB (from SDG 440-101116-1), M-5A-20150206-FB (from SDG 440-101116-1), M-7B-20150205-FB (from SDG 440-101036-1), M-134-20150205-FB (from SDG 440-101036-1), M-186D-20150311-FB (from SDG 440-104245-1) and M-38-20150507-FB (from SDG 440-109157-3) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-101116-1	M-5A-20150206-FB	02/06/15	Chloroform	0.26 ug/L	M-5A-20150206
440-101036-1	M-7B-20150205-FB	02/05/15	Chloroform	0.25 ug/L	M-7B-20150205

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-101036-1	M-134-20150205-FB	02/05/15	Chloroform	0.40 ug/L	M-134-20150205

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks with the following exceptions:

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
440-101036-1	M-139-20150204**	Chloroform	0.48 ug/L	0.48J ug/L

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-99685-1	MC-53-20150122MS/MSD (MC-53-20150122)	Styrene	0 (29-150)	0 (29-150)	R (all non-detects)	A
440-100079-1	MC-50-20150127MS/MSD (MC-50-20150127)	Chlorobenzene	63 (70-130)	57 (70-130)	J- (all detects)	A
440-100386-1	M-37-20150129MS/MSD (M-37-20150129)	Styrene	2 (29-150)	2 (29-150)	UJ (all non-detects)	A
440-100558-1	M-22A-20150202MS/MSD (M-22A-20150202**)	Styrene	25 (29-150)	15 (29-150)	UJ (all non-detects)	A
440-100759-1	M-13-20150202MS/MSD (M-13-20150202)	Styrene	11 (29-150)	11 (29-150)	UJ (all non-detects)	A
440-101116-1	M-81A-20150206MS/MSD (M-81A-20150206)	Chloroform	68 (70-130)	-	J- (all detects)	A
440-101036-1	M-79-20150205MS/MSD (M-79-20150205)	Styrene	0 (29-150)	0 (29-150)	R (all non-detects)	A

SDG	Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-108824-2	M-10-20150505MS/MSD (M-10-20150505)	Styrene	-	15 (29-150)	UJ (all non-detects)	A

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
440-108824-2	M-10-20150505MS/MSD (M-10-20150505)	Styrene	72 (≤35)	NA	-

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with.

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	LCS ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
440-99312-1	LCS/D 440-230983 (All samples in SDG 440-99312-1)	Chloromethane Dichlorodifluoromethane	29 (≤25) 49 (≤30)	NA	-

X. Field Duplicates

Samples PC-21A-20150112** and PC-21A-20150112-FD** (from SDG 440-98805-1), samples PC-28-20150114 and PC-28-20150114-FD (from SDG 440-99061-1), samples TR-7-20150115 and TR-7-20150115-FD (from SDG 440-99142-1), samples MC-53-20150122 and MC-53-20150122-FD (from SDG 440-99685-1), samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-1), samples PC-151-20150126 and PC-151-20150126-FD (from SDG 440-99862-1), samples M-186-20150126 and M-186-20150126-FD (from SDG 440-99862-1), samples M-141-20150128 and M-141-20150128-FD (from SDG 440-100079-1), samples M-97-20150129 and M-97-20150129-FD (from SDG 440-100230-1), samples M-35-20150129 M-35-20150129-FD (from SDG 440-100386-1), M-138-20150203 and M-138-20150203-FD (from SDG 440-100759-1), samples M-66-20150203 and M-66-20150203-FD (from SDG 440-100759-1), samples M-25-20150203 and M-25-20150203-FD (from SDG 440-100759-1), samples M-83-20150206 and M-83-20150206-FD (from SDG 440-101116-1), samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-1), and samples M-57A-20150206 and M-57A-20150206-FD (from SDG 440-101116-1), MC-51-20150205 and MC-51-20150205-FD (from SDG 440-101036-1), samples M-193-20150311 and M-193-20150311-FD (from SDG 440-104245-1), and samples M-38-

20150507** and M-38-20150507-FD (from SDG 440-109157-3) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PC-21A-20150112**	PC-21A-20150112-FD**			
440-98805-1	Chloroform	180	180	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PC-28-20150114	PC-28-20150114-FD			
440-99061-1	Chloroform	80	79	1 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-1	Chloroethane	0.42	1.0U	200 (≤30)	NQ	-
	Chloroform	2.8	2.6	7 (≤30)	-	-
	1,4-Dichlorobenzene	0.28	0.50U	200 (≤30)	NQ	-
	1,1-Dichloroethane	1.4	1.2	15 (≤30)	-	-
	1,2-Dichloroethane	0.48	0.40	18 (≤30)	-	-
	Tetrachloroethene	1.8	1.7	6 (≤30)	-	-
	Trichloroethene	0.34	0.26	27 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-1	Carbon tetrachloride	0.25	0.29	15 (≤30)	-	-
	Chloroform	9.7	9.5	2 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PC-151-20150126	PC-151-20150126-FD			
440-99862-1	Chloroform	0.97	1.0	3 (≤30)	-	-
	1,2-Dichlorobenzene	3.2	3.0	6 (≤30)	-	-
	1,3-Dichlorobenzene	0.30	0.31	3 (≤30)	-	-
	1,4-Dichlorobenzene	4.2	4.1	2 (≤30)	-	-
	1,1-Dichloroethane	1.1	0.97	13 (≤30)	-	-
	1,2-Dichloroethane	0.29	0.35	19 (≤30)	-	-
	1,2,4-Trichlorobenzene	3.7	3.1	18 (≤30)	-	-
	1,2,3-Trichlorobenzene	0.70	0.68	3 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-186-20150126	M-186-20150126-FD			
440-99862-1	Chloroform	790	810	3 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-141-20150128	M-141-20150128-FD			
440-100079-1	Chloroform	520	500	4 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-97-20150129	M-97-20150129-FD			
440-100230-1	Bromodichloromethane	0.28	0.32	13 (≤30)	-	-
	Carbon tetrachloride	0.29	0.32	10 (≤30)	-	-
	Chloroform	7.2	7.2	0 (≤30)	-	-
	1,1-Dichloroethane	0.30	0.28	7 (≤30)	-	-
	1,2-Dichloroethane	0.27	0.29	7 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-97-20150129	M-97-20150129-FD			
440-100230-1	1,1-Dichloroethene	120	130	8 (≤30)	-	-
	Trichloroethene	14	14	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-35-20150129	M-35-20150129-FD			
440-100386-1	Tetrachloroethene	0.41	0.39	5 (≤30)	-	-
	Chloroform	490	500	2 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-138-20150203	M-138-20150203-FD			
440-100759-1	Chloroform	3.0	3.0	0 (≤30)	-	-
	1,1-Dichloroethane	0.31	0.50U	200 (≤30)	NQ	-
	Tetrachloroethene	0.69	0.67	3 (≤30)	-	-
	Trichloroethene	0.50	0.50	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-1	Bromoform	2.7	2.7	0 (≤30)	-	-
	Hexachlorobutadiene	1.1	1.0	10 (≤30)	-	-
	Tetrachloroethene	1.0	2.0U	200 (≤30)	NQ	-
	Trichloroethene	1.5	1.3	14 (≤30)	-	-
	Chloroform	1400	1400	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-25-20150203	M-25-20150203-FD			
440-100759-1	Bromoform	0.75	0.79	5 (≤30)	-	-
	Carbon tetrachloride	0.32	0.35	9 (≤30)	-	-
	1,2-Dichlorobenzene	0.48	0.49	2 (≤30)	-	-
	1,4-Dichlorobenzene	0.47	0.49	4 (≤30)	-	-
	1,1-Dichloroethene	0.44	0.62	34 (≤30)	NQ	-
	Tetrachloroethene	0.57	0.57	0 (≤30)	-	-
	Trichloroethene	11	11	0 (≤30)	-	-
	Chloroform	400	400	0 (≤30)	-	-
	Bromodichloromethane	0.50U	0.28	200 (≤30)	NQ	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-1	Bromodichloromethane	0.46	0.48	4 (≤30)	-	-
	Bromoform	1.4	1.3	7 (≤30)	-	-
	Carbon tetrachloride	3.6	3.5	3 (≤30)	-	-
	Chloroform	120	120	0 (≤30)	-	-
	1,2-Dichlorobenzene	0.70	0.67	4 (≤30)	-	-
	1,3-Dichlorobenzene	0.43	0.43	0 (≤30)	-	-
	1,4-Dichlorobenzene	0.50U	0.46	200 (≤30)	NQ	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-1	Benzene	1900	1900	0 (≤30)	-	-
	Chlorobenzene	2400	2200	9 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-1	1,2-Dichlorobenzene	510	470	8 (≤30)	-	-
	1,3-Dichlorobenzene	36	29	22 (≤30)	-	-
	1,4-Dichlorobenzene	720	650	10 (≤30)	-	-
	Chloroform	16000	16000	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-57A-20150206	M-57A-20150206-FD			
440-101116-1	Carbon tetrachloride	2.4	2.6	8 (≤30)	-	-
	Tetrachloroethene	0.54	1.0U	200 (≤30)	NQ	-
	Trichloroethene	0.93	1.0U	200 (≤30)	NQ	-
	Chloroform	390	420	7 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		MC-51-20150205	MC-51-20150205-FD			
440-101036-1	Chloroform	3.4	3.3	3 (≤30)	-	-
	1,2-Dichlorobenzene	22	20	10 (≤30)	-	-
	1,4-Dichlorobenzene	32	30	6 (≤30)	-	-
	1,1-Dichloroethane	12	13	8 (≤30)	-	-
	Toluene	1.5	1.5	0 (≤30)	-	-
	Trichloroethene	4.2	4.0	5 (≤30)	-	-
	Benzene	1300	1200	8 (≤30)	-	-
	Chlorobenzene	1500	1400	7 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-193-20150311	M-193-20150311-FD			
440-104245-1	Chloroform	13	13	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-38-20150507**	M-38-20150507-FD			
440-109157-3	Trichloroethene	5.3	5.3	0 (≤30)	-	-
	Chloroform	1200	1200	0 (≤30)	-	-

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

Due to severe problems with MS/MSD %R, data were rejected in two samples.

Due to sample condition, ICV and continuing calibration %D, and MS/MSD %R, data were qualified as estimated in one-hundred and fifty-six samples.

Due to equipment blank contamination, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
VOCs - Data Qualification Summary - SDGs 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99312-1, 440-99401-1, 440-99576-1, 440-99685-1, 440-99783-1, 440-99862-1, 440-99974-1, 440-100079-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-100759-1, 440-100881-1, 440-101036-1, 440-101116-1, 440-104147-1, 440-104245-1, 440-104383-1, 440-108824-2, 440-109157-3

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-98909-1	PC-40-20150113	Chloroform	J- (all detects)	A	Sample condition (headspace) (vh)
440-98805-1	M-154-20150112-TB** M-154-20150112** M-150-20150112**	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-98909-1	PC-40-20150113-TB M-161-20150113 M-162-20150113 PC-64-20150113-EB	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-99061-1	TR-1-20150114** TR-2-20150114 TR-4-20150114 TR-5-20150114 TR-1-20150114-TB	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-99142-1	TR-3-20150115 TR-11-20150115 TR-7-20150115 TR-6-20150115 TR-3-20150115-TB TR-7-20150115-FD	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-99401-1	M-12A-20150120-EB M-161D-20150119 M-161D-20150119-TB M-118-20150120 M-120-20150120 TR-10-20150120 TR-9-20150120 TR-9-20150120-FB M-12A-20150120	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-99576-1	M-155-20150121 M-151-20150121 M-165-20150121	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-99685-1	M-181-02150121 M-6A-20150122 M-6A-20150122-FB MC-53-20150122 MC-53-20150122-FD	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-99783-1	PC-154-20150123 PC-158-20150123 PC-159-20150123 PC-154-20150123-TB	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-99862-1	PC-160-20150126 PC-134D-20150126 PC-137D-20150126 PC-151-20150126 PC-151-20150126-FD PC-153-20150126 M-149-20150126 M-153-20150126 M-186-20150126 M-186-20150126-FD	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-99974-1	M-163-20150127 M-125-20150127** M-123-20150127 TR-8-20150127 MC-45-20150127** M-186D-20150126 M-162D-20150127 M-162D-20150127-FB M-186D-20150126-TB PC-152-20150126**	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-100079-1	MC-50-20150127-EB M-141-20150128 M-141-20150128-FD M-31A-20150128 MC-50-20150127-TB MC-50-20150127 M-148A-20150128 M-77-20150128 M-77-20150128-FB M-182-20150128 M-164-20150128	Dichlorodifluoromethane	UJ (all non-detects) UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-100230-1	M-92-20150129 M-97-20150129 M-97-20150129-FD M-124-20150129 M-14A-20150129 M-92-20150129-TB M-74-20150129 M-133-20150129 M-73-20150129 M-67-20150129 M-73-20150129-EB	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-100386-1	M-37-20150129 M-128-20150130 M-37-20150129-TB M-35-20150129 M-35-20150129-FD M-146-20150130 M-11-20150130 M-52-20150130	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-100558-1	M-22A-20150202** M-191-20150202** M-64-20150202** M-191-20150202-EB** M-192-20150202** M-144-20150202** M-144-20150202-TB**	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-100759-1	M-13-20150202 M-138-20150203 M-137-20150203 M-115-20150203 M-138-20150203-FD M-25-20150203	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-100881-1	M-72-20150204** M-71-20150204** M-70-20150204** M-58-20150204** M-75-20150203** M-68-20150204** M-147-20150204**	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-101036-1	M-2A-20150204 MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-7B-20150205-FB M-2A-20150204-TB M-69-20150204 M-134-20150205 M-134-20150205-FB M-79-20150205	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-101116-1	M-126-20150206 M-126-20150206-FD M-5A-20150206 M-57A-20150206 M-57A-20150206-FD M-140-20150206 MW-16-20150205 M-81A-20150206 M-81A-20150206-FB M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-104383-1	M-161D-20150312-TB M-161D-20150312 M-162D-20150312 H-28-20150312	Dichlorodifluoromethane	UJ (all non-detects)	A	Initial calibration verification (%D) (c)
440-99238-1	M-117-20150116 M-121-20150116 M-117-20150116-TB	Bromochloromethane 1,2-Dichloroethane	UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-99312-1	M-190-20150119 M-190-20150119-FD M-189-20150119 M-190-20150119-TB M-193-20150119	Chlorobenzene 1,1,2,2-Tetrachloroethane 1,2-Dibromo-3-chloropropane 1,2,3-Trichlorobenzene	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-99576-1	M-155-20150121-TB	Dichlorodifluoromethane	UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-99685-1	M-181-20150121-TB	Dichlorodifluoromethane	UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-100079-1	MC-50-20150127 M-148A-20150128 M-77-20150128 M-77-20150128-FB M-182-20150128 M-164-20150128	Dichlorodifluoromethane Trichlorofluoromethane	UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-100558-1	M-22A-20150202** M-191-20150202**	Dichlorodifluoromethane Trichlorofluoromethane 1,1,1-Trichloroethane Carbon tetrachloride	J- (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-100759-1	M-13-20150202 M-138-20150203 M-137-20150203 M-115-20150203	Dichlorodifluoromethane 1,2-Dichloroethane	UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-100881-1	M-72-20150204** M-71-20150204** M-70-20150204** M-58-20150204** M-75-20150203**	Dichlorodifluoromethane Trichlorofluoromethane 1,1,1-Trichloroethane Carbon tetrachloride	J- (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-100881-1	M-132-20150204** M-139-20150204** M-139-20150204-EB** M-75-20150203-TB**	1,2-Dibromo-3-chloropropane	UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-100881-1	M-68-20150204** M-147-20150204**	2-Butanone 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane	UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-100881-1	M-68-20150204** M-147-20150204**	Carbon tetrachloride	J+ (all detects)	A	Continuing calibration (%D) (c)
440-101036-1	M-2A-20150204	Carbon tetrachloride	J+ (all detects)	A	Continuing calibration (%D) (c)
440-101036-1	M-7B-20150205	1,2-Dichloroethane	J+ (all detects)	A	Continuing calibration (%D) (c)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-101116-1	M-126-20150206 M-126-20150206-FD M-5A-20150206 M-57A-20150206 M-57A-20150206-FD M-140-20150206 MW-16-20150205 M-81A-20150206 M-81A-20150206-FB M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205	Chloromethane	UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-104147-1	M-190-20150310-TB M-190-20150310 M-189-20150310 M-189-20150310-EB M-191-20150310	Naphthalene	UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-104245-1	M-186D-20150311-TB M-186D-20150311 M-186D-20150311-FB M-192-20150311 M-193-20150311 M-193-20150311-FD	Dichlorodifluoromethane 1,2-Dibromo-3-chloropropane Naphthalene	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-99685-1	MC-53-20150122	Styrene	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101036-1	M-79-20150205	Styrene	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100079-1	MC-50-20150127	Chlorobenzene	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100386-1	M-37-20150129	Styrene	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100558-1	M-22A-20150202**	Styrene	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100759-1	M-13-20150202	Styrene	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101116-1	M-81A-20150206	Chloroform	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-108824-2	M-10-20150505	Styrene	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
VOCs - Laboratory Blank Data Qualification Summary - SDGs 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99312-1, 440-99401-1, 440-99576-1, 440-99685-1, 440-99783-1, 440-99862-1, 440-99974-1, 440-100079-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-100759-1, 440-100881-1, 440-101036-1, 440-101116-1, 440-104147-1, 440-104245-1, 440-104383-1, 440-108824-2, 440-109157-3

No Sample Data Qualified in these SDGs

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
VOCs - Field Blank Data Qualification Summary - SDGs 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99312-1, 440-99401-1, 440-99576-1, 440-99685-1, 440-99783-1, 440-99862-1, 440-99974-1, 440-100079-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-100759-1, 440-100881-1, 440-101036-1, 440-101116-1, 440-104147-1, 440-104245-1, 440-104383-1, 440-108824-2, 440-109157-3

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
440-100881-1	M-139-20150204**	Chloroform	0.48J ug/L	A	be

1,2,3-Trichloropropane and 1,4-Dioxane by EPA SW 846 Method 8260B-SIM

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance was not required by the method.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0% for all compounds.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) were less than or equal to 20.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Samples PC-40-20150113-TB (from SDG 440-98909-1), TR-1-20150114-TB (from SDG 440-99061-1), TR-3-20150115-TB (from SDG 440-99142-1), M-117-20150116-TB (from SDG 440-99238-1), M-190-20150119-TB (from SDG 440-99312-1), M-161D-20150119-TB (from SDG 440-99401-1), M-155-20150121-TB (from SDG 440-99576-1), M-181-20150121-TB (from SDG 440-99685-1), PC-154-20150123-TB (from SDG 440-99783-1), PC-160-20150126-TB (from SDG 440-99862-1), M-186D-20150126-TB (from SDG 440-99974-1), MC-50-20150127-TB (from SDG 440-100079-1), M-92-20150129-TB (from SDG 440-100230-1), M-37-20150129-TB (from SDG 440-100386-1), M-144-20150202-TB** (from SDG 440-100558-1), M-13-20150202-TB (from SDG 440-100759-1), M-75-20150203-TB** (from SDG 440-100881-1), M-2A-20150204-TB (from SDG 440-101036-1), M-136-20150205-TB (from SDG 440-101116-1), M-190-20150310-TB (from SDG 440-104147-1), M-186D-20150311-TB (from SDG 440-104245-1), M-161D-20150312-TB (from SDG 440-104383-1), M-10-20150505-TB (from SDG 440-108824-1) and M-38-20150507-TB (from SDG 440-109157-1) were identified as trip blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Sampling Date	Compound	Concentration	Associated Samples
440-101116-1	M-136-20150205-TB	02/05/15	1,2,3-Trichloropropane	0.0068 ug/L	MW-16-20150205 M-81A-20150206 M-81A-20150206-FB M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205 M-126-20150206 M-126-20150206-FD M-5A-20150206 M-5A-20150206-FB M-57A-20150206 M-57A-20150206-FD M-140-20150206

Samples M-12A-20150120-EB (from SDG 440-99401-1), MC-50-20150127-EB (from SDG 440-100079-1), M-73-20150129-EB (from SDG 440-100230-1), M-191-20150202-EB** (from SDG 440-100558-1), M-139-20150204-EB** (from SDG 440-100881-1), M-139-20150204-EB (from SDG 440-100881-1), M-134-20150205-EB (from SDG 440-101036-1), M-189-20150310-EB (from SDG 440-104147-1) and M-38-20150507-EB (from SDG 440-109157-1) were identified as equipment blanks. No contaminants were found.

Samples M-6A-20150122-FB (from SDG 440-99685-1), TR-9-20150120-FB (from SDG 440-99401-1), M-162D-20150127-FB (from SDG 440-99974-1), M-77-20150128-FB (from SDG 440-100079-1), M-7B-20150205-FB (from SDG 440-101036-1), M-134-20150205-FB (from SDG 440-101036-1), M-81A-20150206-FB (from SDG 440-101116-1), M-5A-20150206-FB (from SDG 440-101116-1), M-186D-20150311-FB (from SDG 440-104245-1) and M-38-20150507-FB (from SDG 440-109157-1) were identified as field blanks. No contaminants were found.

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks with the following exceptions:

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-101116-1	M-136-20150205	1,2,3-Trichloropropane	0.0045 ug/L	0.0045J ug/L
440-101116-1	M-126-20150206	1,2,3-Trichloropropane	0.011 ug/L	0.011J ug/L
440-101116-1	M-126-20150206-FD	1,2,3-Trichloropropane	0.011 ug/L	0.011J ug/L

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

SDG	Sample	Surrogate	%R (Limits)	Affected Compound	Flag	A or P
440-104383-1	H-28-20150312	Dibromofluoromethane	75 (80-120)	All TCL compounds	J- (all detects)	A

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-101116-1	M-81A-20150206MS/MSD (M-81A-20150206)	1,2,3-Trichloropropane	-	140 (55-135)	J+ (all detects)	A

Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples TR-7-20150115 and TR-7-20150115-FD (from SDG 440-99142-1), samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-1), samples MC-53-20150122 and MC-53-20150122-FD (from SDG 440-99685-1), samples PC-151-20150126 and PC-151-20150126-FD (from SDG 440-99862-1), samples M-186-20150126 and M-186-20150126-FD (from SDG 440-99862-1), samples M-141-20150128 and M-141-20150128-FD (from SDG 440-100079-1), samples M-97-20150129 and M-97-20150129-FD (from SDG 440-100230-1), samples M-35-20150129 and M-35-20150129-FD (from SDG 440-100386-1), M-138-20150203 and M-138-20150203-FD (from SDG 440-100759-1), samples M-66-20150203 and M-66-20150203-FD (from SDG 440-100759-1), samples M-25-20150203 and M-25-20150203-FD (from SDG 440-100759-1), samples MC-51-20150205 and MC-51-20150205-FD (from SDG 440-101036-1), samples M-83-20150206 and M-83-20150206-FD (from SDG 440-101116-1), samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-1), samples M-57A-20150206 and M-57A-20150206-FD (from SDG 440-101116-1), samples M-193-20150311 and M-193-20150311-FD (from SDG 440-104245-1) and samples M-38-20150507** and M-38-20150507-FD (from SDG 440-109157-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-1	1,4-Dioxane	2.8	2.4	15 (≤30)	-	-
	1,2,3-Trichloropropane	0.0032	0.0027	17 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-1	1,2,3-Trichloropropane	0.0086	0.0083	4 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-186-20150126	M-186-20150126-FD			
440-99862-1	1,2,3-Trichloropropane	0.062	0.066	6 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-141-20150128	M-141-20150128-FD			
440-100079-1	1,4-Dioxane	0.74	0.85	14 (≤30)	-	-
	1,2,3-Trichloropropane	0.036	0.034	6 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-97-20150129	M-97-20150129-FD			
440-100230-1	1,4-Dioxane	4.9	4.3	13 (≤30)	-	-
	1,2,3-Trichloropropane	0.21	0.21	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-35-20150129	M-35-20150129-FD			
440-100386-1	1,4-Dioxane	2.0U	0.80	200 (≤30)	NQ	-
	1,2,3-Trichloropropane	0.060	0.063	5 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-1	1,4-Dioxane	0.51	0.50	2 (≤30)	-	-
	1,2,3-Trichloropropane	0.16	0.16	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-25-20150203	M-25-20150203-FD			
440-100759-1	1,4-Dioxane	3.0	3.5	15 (≤30)	-	-
	1,2,3-Trichloropropane	0.16	0.16	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		MC-51-20150205	MC-51-20150205-FD			
440-101036-1	1,4-Dioxane	4.1	3.9	5 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-1	1,2,3-Trichloropropane	0.085	0.083	2 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-1	1,2,3-Trichloropropane	0.011	0.011	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-57A-20150206	M-57A-20150206-FD			
440-101116-1	1,2,3-Trichloropropane	0.0050U	0.26	200 (≤30)	NQ	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-193-20150311	M-193-20150311-FD			
440-104245-1	1,2,3-Trichloropropane	0.010	0.010	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-38-20150507**	M-38-20150507-FD			
440-109157-1	1,4-Dioxane	0.66	0.78	17 (≤30)	-	-
	1,2,3-Trichloropropane	0.093	0.091	2 (≤30)	-	-

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to surrogate %R, and MS/MSD %R, data were qualified as estimated in two samples.

Due to trip blank contamination, data were qualified as estimated in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
1,2,3-Trichloropropane and 1,4-Dioxane - Data Qualification Summary - SDGs 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99312-1, 440-99401-1, 440-99576-1, 440-99685-1, 440-99783-1, 440-99862-1, 440-99974-1, 440-100079-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-100759-1, 440-100881-1, 440-101036-1, 440-101116-1, 440-104147-1, 440-104245-1, 440-104383-1, 440-108824-1, 440-109157-1

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-104383-1	H-28-20150312	All TCL compounds	J- (all detects)	A	Surrogate recovery (%R) (s)
440-101116-1	M-81A-20150206	1,2,3-Trichloropropane	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
1,2,3-Trichloropropane and 1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDGs 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99312-1, 440-99401-1, 440-99576-1, 440-99685-1, 440-99783-1, 440-99862-1, 440-99974-1, 440-100079-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-100759-1, 440-100881-1, 440-101036-1, 440-101116-1, 440-104147-1, 440-104245-1, 440-104383-1, 440-108824-1, 440-109157-1

No Sample Data Qualified in these SDGs

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
1,2,3-Trichloropropane and 1,4-Dioxane - Field Blank Data Qualification Summary - SDGs 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99312-1, 440-99401-1, 440-99576-1, 440-99685-1, 440-99783-1, 440-99862-1, 440-99974-1, 440-100079-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-100759-1, 440-100881-1, 440-101036-1, 440-101116-1, 440-104147-1, 440-104245-1, 440-104383-1, 440-108824-1, 440-109157-1

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
440-101116-1	M-136-20150205	1,2,3-Trichloropropane	0.0045J ug/L	A	bt
440-101116-1	M-126-20150206	1,2,3-Trichloropropane	0.011J ug/L	A	bt
440-101116-1	M-126-20150206-FD	1,2,3-Trichloropropane	0.011J ug/L	A	bt

SVOCs by EPA SW 846 Method 8270C

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds with the following exceptions:

SDG	Date	Compound	%D	Associated Samples	Flag	A or P
440-109157-1	05/12/15 (GCMS49)	Benzidine	33.4	All samples in SDG 440-109157-1	UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

SDG	Date	Compound	%D	Associated Samples	Flag	A or P
440-100558-1	02/07/15 (02:07)	Benzoic acid 4-Nitrophenol	32.0 29.7	All samples in SDG 440-100558-1	UJ (all non-detects) UJ (all non-detects)	A
440-109157-1	05/13/15 (CCV053)	Benzidine	29.9	All samples in SDG 440-109157-1	UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample M-191-20150202-EB** (from SDG 440-100558-1) was identified as an equipment blank. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-100558-1	M-191-20150202-EB**	02/02/15	Acenaphthylene Naphthalene	0.27 ug/L 1.5 ug/L	M-191-20150202**

Samples M-162D-20150127-FB (from SDG 440-99974-1) and M-38-20150507-FB (from SDG 440-109157-1) were identified as field blanks. No contaminants were found.

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

SDG	Sample	Surrogate	%R (Limits)	Affected Compound	Flag	A or P
440-100558-1	M-22A-20150202**	2-Fluorophenol Phenol-d6 2,4,6-Tribromophenol	8 (30-120) 0.01 (35-120) 26 (40-120)	All acid compounds	R (all non-detects)	A
440-100558-1	M-191-20150202**	Phenol-d6 2,4,6-Tribromophenol	5 (35-120) 38 (40-120)	All acid compounds	R (all non-detects)	P

SDG	Sample	Surrogate	%R (Limits)	Affected Compound	Flag	A or P
440-100759-1	M-65-20150203	2-Fluorophenol Phenol-d6 2,4,6-Tribromophenol	13 (30-120) 1 (35-120) 25 (40-120)	All acid compounds	R (all non-detects)	P
440-100759-1	M-66-20150203	2-Fluorobiphenyl Nitrobenzene-d5	36 (50-120) 29 (45-120)	All base compounds	J- (all detects) UJ (all non-detects)	P
440-100759-1	M-66-20150203	2-Fluorophenol Phenol-d6 2,4,6-Tribromophenol	2 (30-120) 0.02 (35-120) 4 (40-120)	All acid compounds	R (all non-detects)	P
440-100759-1	M-66-20150203-FD	2-Fluorophenol Phenol-d6 2,4,6-Tribromophenol	11 (30-120) 0.5 (35-120) 35 (40-120)	All acid compounds	R (all non-detects)	P
440-109157-1	M-38-20150507**	2-Fluorophenol Phenol-d6 2,4,6-Tribromophenol	11 (30-120) 0.9 (35-120) 16 (40-120)	All acid compounds	R (all non-detects)	A
440-109157-1	M-38-20150507-FD	2-Fluorophenol Phenol-d6 2,4,6-Tribromophenol	11 (30-120) 0.9 (35-120) 20 (40-120)	All acid compounds	R (all non-detects)	P

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-99974-1	M-162D-20150127MS/MSD (M-162D-20150127)	Benzidine 3,3'-Dichlorobenzidine	0 (30-160) 0 (45-135)	0 (30-160) 42 (45-135)	R (all non-detects) R (all non-detects)	A
440-99974-1	M-162D-20150127MS/MSD (M-162D-20150127)	Benzo(a)pyrene 4-Chloroaniline Bis(2-ethylhexyl)phthalate	50 (55-130) 47 (55-120) -	38 (55-130) - 62 (65-130)	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A

SDG	Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-100558-1	M-22A-20150202MS/MSD (M-22A-20150202**)	Acenaphthene	2 (60-120)	0 (60-120)	R (all non-detects)	A
		Acenaphthylene	2 (60-120)	0 (60-120)	R (all non-detects)	
		Aniline	0 (35-120)	0 (35-120)	R (all non-detects)	
		Anthracene	3 (65-120)	0 (65-120)	R (all non-detects)	
		Benzidine	0 (30-160)	0 (30-160)	R (all non-detects)	
		Benzo(a)anthracene	0 (65-120)	0 (65-120)	R (all non-detects)	
		4-Chloroaniline	0 (55-120)	0 (55-120)	R (all non-detects)	
		4-Chloro-3-methylphenol	0 (60-120)	0 (60-120)	R (all non-detects)	
		3,3'-Dichlorobenzidine	0 (45-135)	0 (45-135)	R (all non-detects)	
		2,4-Dichlorophenol	0 (55-120)	0 (55-120)	R (all non-detects)	
		2,4-Dimethylphenol	0 (40-120)	0 (40-120)	R (all non-detects)	
		2-Methylnaphthalene	0 (55-120)	0 (55-120)	R (all non-detects)	
		2-Methylphenol	0 (50-120)	0 (50-120)	R (all non-detects)	
		2-Nitroaniline	0 (65-120)	0 (65-120)	R (all non-detects)	
		3-Nitroaniline	0 (60-120)	0 (60-120)	R (all non-detects)	
		4-Nitroaniline	0 (55-120)	0 (55-120)	R (all non-detects)	
		N-Nitrosodiphenylamine	0 (60-120)	0 (60-120)	R (all non-detects)	
		Phenol	0 (40-120)	0 (40-120)	R (all non-detects)	
		3-Methylphenol + 4-Methylphenol	0 (50-120)	0 (50-120)	R (all non-detects)	
440-100558-1	M-22A-20150202MS/MSD (M-22A-20150202**)	Benzo(a)pyrene	13 (55-130)	14 (55-130)	UJ (all non-detects)	A
		Benzo(k)fluoranthene	36 (55-125)	34 (55-125)	UJ (all non-detects)	
		2-Chlorophenol	11 (45-120)	11 (45-120)	UJ (all non-detects)	
		Chrysene	37 (65-120)	37 (65-120)	UJ (all non-detects)	
		Fluoranthene	46 (60-120)	44 (60-120)	UJ (all non-detects)	
		Naphthalene	49 (55-120)	51 (55-120)	UJ (all non-detects)	
		Phenanthrene	34 (65-120)	33 (65-120)	UJ (all non-detects)	
		Pyrene	6 (55-125)	4 (55-125)	UJ (all non-detects)	
		2,4,5-Trichlorophenol	24 (55-120)	21 (55-120)	UJ (all non-detects)	
		2,4,6-Trichlorophenol	16 (55-120)	15 (55-120)	UJ (all non-detects)	
		Bis(2-ethylhexyl)phthalate	-	60 (65-130)	UJ (all non-detects)	
440-109157-1	M-38-20150507MS/MSD (M-38-20150507**)	Acenaphthene	56 (60-120)	29 (60-120)	UJ (all non-detects)	A
		Acenaphthylene	54 (60-120)	27 (60-120)	UJ (all non-detects)	
		Anthracene	57 (65-120)	25 (65-120)	UJ (all non-detects)	
		4-Chloro-3-methylphenol	38 (60-120)	11 (60-120)	UJ (all non-detects)	
		2-Chlorophenol	36 (45-120)	17 (45-120)	UJ (all non-detects)	
		2,4-Dichlorophenol	46 (55-120)	22 (55-120)	UJ (all non-detects)	
		2-Methylnaphthalene	52 (55-120)	33 (55-120)	UJ (all non-detects)	
		2-Nitroaniline	49 (65-120)	22 (65-120)	UJ (all non-detects)	
		2,4,6-Trichlorophenol	54 (55-120)	26 (55-120)	UJ (all non-detects)	
		Benzo(a)anthracene	-	64 (65-120)	UJ (all non-detects)	
		Benzo(a)pyrene	-	8 (55-130)	UJ (all non-detects)	
		Naphthalene	-	51 (55-120)	UJ (all non-detects)	
		Phenanthrene	-	54 (65-120)	UJ (all non-detects)	
		Pyrene	-	51 (55-125)	UJ (all non-detects)	
		2,4,5-Trichlorophenol	-	29 (55-120)	UJ (all non-detects)	
			-			
440-109157-1	M-38-20150507MS/MSD (M-38-20150507**)	Aniline	0 (35-120)	0 (35-120)	R (all non-detects)	A
		Benzidine	0 (30-160)	0 (30-160)	R (all non-detects)	
		4-Chloroaniline	0 (55-120)	0 (55-120)	R (all non-detects)	
		3,3'-Dichlorobenzidine	0 (45-135)	0 (45-135)	R (all non-detects)	
		2,4-Dimethylphenol	0 (40-120)	0 (40-120)	R (all non-detects)	
		2-Methylphenol	17 (50-120)	0 (50-120)	R (all non-detects)	
		3-Nitroaniline	21 (60-120)	0 (60-120)	R (all non-detects)	
		4-Nitroaniline	29 (55-125)	0 (55-125)	R (all non-detects)	
		N-Nitrosodiphenylamine	27 (60-120)	0 (60-120)	R (all non-detects)	
		Phenol	0 (40-120)	0 (40-120)	R (all non-detects)	
		3-Methylphenol + 4-Methylphenol	0 (50-120)	0 (50-120)	R (all non-detects)	

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
440-109157-1	M-38-20150507MS/MSD (M-38-20150507**)	Acenaphthene Acenaphthylene Anthracene 4-Chloro-3-methylphenol 2-Chlorophenol 2,4-Dichlorophenol 2-Methylnaphthalene 2-Methylphenol 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine 2,4,6-Trichlorophenol Benzo(a)pyrene Nitrobenzene Pentachlorophenol Phenanthrene Pyrene 2,4,5-Trichlorophenol	56 (≤25) 61 (≤25) 74 (≤25) 107 (≤25) 64 (≤25) 65 (≤25) 37 (≤20) 200 (≤25) 70 (≤25) 200 (≤25) 200 (≤25) 200 (≤25) 67 (≤30) 155 (≤25) 38 (≤25) 27 (≤25) 26 (≤25) 42 (≤25) 62 (≤30)	NA	-

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	Flag	A or P
440-99312-1	LCS 440-231716 (All samples in SDG 440-99312-1)	Benzidine	19 (20-168)	-	UJ (all non-detects)	P
440-99401-1	LCS/D 440-231103 (All samples in SDG 440-99401-1)	Benzidine	19 (20-168)	-	UJ (all non-detects)	P
440-99974-1	LCS 440-232664 (All samples in SDG 440-99974-1)	Benzidine	13 (20-168)	-	UJ (all non-detects)	P
440-100558-1	LCS 440-234119 (All samples in SDG 440-100558-1)	Benzidine	8 (20-168)	-	R (all non-detects)	P
440-100759-1	LCS/D 440-234468 (All samples in SDG 440-100759-1)	Benzidine 3,3'-Dichlorobenzidine	- -	13 (20-168) 20 (25-135)	UJ (all non-detects) UJ (all non-detects)	P

SDG	LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	Flag	A or P
440-109157-1	LCS 440-254188 (All samples in SDG 440-109157-1)	Aniline Bis(2-chloroethoxy)methane 4-Chloroaniline 3-Nitroaniline 4-Nitroaniline	22 (53-120) 54 (57-120) 10 (52-120) 15 (42-122) 38 (46-126)	- - - - -	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P
440-109157-1	LCS 440-254188 (All samples in SDG 440-109157-1)	Benzidine 3,3'-Dichlorobenzidine	0 (20-168) 2 (25-135)	- -	R (all non-detects) R (all non-detects)	P

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	LCS ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
440-99401-1	LCS/D 440-231103 (All samples in SDG 440-99401-1)	3,3'-Dichlorobenzidine N-Nitroso-di-n-propylamine	45 (≤25) 21 (≤20)	NA	-
440-100759-1	LCS/D 440-234468 (All samples in SDG 440-100759-1)	Benzidine Bis(2-ethylhexyl)phthalate 3,3'-Dichlorobenzidine	38 (≤35) 44 (≤20) 76 (≤25)	NA	-

X. Field Duplicates

Samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-1), samples M-66-20150203 and M-66-20150203-FD (from SDG 440-100759-1) and samples M-38-20150507** and M-38-20150507-FD (from SDG 440-109157-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-1	Diethylphthalate	1.0	1.0	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-1	1,3-Dichlorobenzene	0.24	0.65	92 (≤30)	NQ	-
	1,2-Dichlorobenzene	0.55U	0.39	200 (≤30)	NQ	-
	1,4-Dichlorobenzene	0.55U	0.41	200 (≤30)	NQ	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-38-20150507**	M-38-20150507-FD			
440-109157-1	Diethylphthalate	2.3	1.4	49 (≤30)	J (all detects)	A

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

Due to severe problems with surrogate %R, MS/MSD %R and LCS %R, data were rejected in eleven samples.

Due to continuing calibration %D, surrogate %R, MS/MSD %R, LCS/LCSD %R and field duplicates RPD, data were qualified as estimated in seventeen samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
SVOCs - Data Qualification Summary - SDGs 440-99312-1, 440-99401-1, 440-99974-1, 440-100558-1, 440-100759-1, 440-109157-1

SDG	Sample	Compound	Flag	A or P	Reason
440-100558-1	M-191-20150202-EB M-192-20150202	Benzoic acid 4-Nitrophenol	UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-100558-1	M-22A-20150202**	Phenol 2-Chlorophenol 2-Methylphenol 2-Nitrophenol 2,4-Dimethylphenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-methylphenol Pentachlorophenol Benzoic acid 3-Methylphenol + 4-Methylphenol	R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects)	A	Surrogate spikes (%R) (s)
440-100558-1	M-191-20150202**	Phenol 2-Chlorophenol 2-Methylphenol 2-Nitrophenol 2,4-Dimethylphenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-methylphenol Pentachlorophenol Benzoic acid 3-Methylphenol + 4-Methylphenol	R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects)	P	Surrogate spikes (%R) (s)
440-100759-1	M-65-20150203 M-66-20150203 M-66-20150203-FD	Phenol 2-Chlorophenol 2-Methylphenol 2-Nitrophenol 2,4-Dimethylphenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-methylphenol Pentachlorophenol Benzoic acid 3-Methylphenol + 4-Methylphenol	R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects)	P	Surrogate spikes (%R) (s)

SDG	Sample	Compound	Flag	A or P	Reason
440-100759-1	M-66-20150203	Bis(2-chloroethyl) ether 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone Bis(2-chloroethoxy)methane 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 2-Methylnaphthalene Hexachlorocyclopentadiene 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenyl-phenyl ether Fluorene 4-Nitroaniline N-Nitrosodiphenylamine 4-Bromophenyl-phenyl ether Hexachlorobenzene Phenanthrene Anthracene Di-n-butylphthalate Fluoranthene Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene Bis(2-ethylhexyl)phthalate Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene Bis(2-chloroisopropyl) ether Aniline Benzyl alcohol Benzidine 1,2-Diphenylhydrazine	J- (all detects) UJ (all non-detects)	P	Surrogate spikes (%R) (s)

SDG	Sample	Compound	Flag	A or P	Reason
440-109157-1	M-38-20150507**	Phenol 2-Chlorophenol 2-Methylphenol 2-Nitrophenol 2,4-Dimethylphenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-methylphenol Pentachlorophenol Benzoic acid 3-Methylphenol + 4-Methylphenol	R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects)	A	Surrogate spikes (%R) (s)
440-109157-1	M-38-20150507-FD	Phenol 2-Chlorophenol 2-Methylphenol 2-Nitrophenol 2,4-Dimethylphenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-methylphenol Pentachlorophenol Benzoic acid 3-Methylphenol + 4-Methylphenol	R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects)	P	Surrogate spikes (%R) (s)
440-99974-1	M-162D-20150127	Benzidine 3,3'-Dichlorobenzidine	R (all non-detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99974-1	M-162D-20150127	Benzo(a)pyrene 4-Chloroaniline Bis(2-ethylhexyl)phthalate	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100558-1	M-22A-20150202**	Acenaphthene Acenaphthylene Aniline Anthracene Benzidine Benzo(a)anthracene 4-Chloroaniline 4-Chloro-3-methylphenol 3,3'-Dichlorobenzidine 2,4-Dichlorophenol 2,4-Dimethylphenol 2-Methylnaphthalene 2-Methylphenol 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine Phenol 3-Methylphenol + 4-Methylphenol	R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Compound	Flag	A or P	Reason
440-100558-1	M-22A-20150202**	Benzo(a)pyrene Benzo(k)fluoranthene Chrysene Fluoranthene Naphthalene Phenanthrene Pyrene Bis(2-ethylhexyl)phthalate	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-109157-1	M-38-20150507**	Acenaphthene Acenaphthylene Anthracene 2-Methylnaphthalene 2-Nitroaniline Benzo(a)anthracene Benzo(a)pyrene Naphthalene Phenanthrene Pyrene	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-109157-1	M-38-20150507**	Aniline Benzidine 4-Chloroaniline 3,3'-Dichlorobenzidine 2,4-Dimethylphenol 2-Methylphenol 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine Phenol 3-Methylphenol + 4-Methylphenol	R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99312-1	M-190-20150119 M-190-20150119-FD M-189-20150119 M-193-20150119	Benzidine	UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-99401-1	M-161D-20150119	Benzidine	UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-99974-1	M-186D-20150126 M-162D-20150127-FB	Benzidine	UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-100558-1	M-22A-20150202** M-191-20150202** M-191-20150202-EB** M-192-20150202**	Benzidine	R (all non-detects)	P	Laboratory control samples (%R) (l)
440-100759-1	M-65-20150203 M-66-20150203 M-66-20150203-FD	Benzidine 3,3'-Dichlorobenzidine	UJ (all non-detects) UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-109157-1	M-38-20150507**	Bis(2-chloroethoxy)methane	UJ (all non-detects)	P	Laboratory control samples (%R) (l)

SDG	Sample	Compound	Flag	A or P	Reason
440-109157-1	M-38-20150507-FD M-38-20150507-FB	Aniline Bis(2-chloroethoxy)methane 4-Chloroaniline 3-Nitroaniline 4-Nitroaniline	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-109157-1	M-38-20150507** M-38-20150507-FD M-38-20150507-FB	Benzidine 3,3'-Dichlorobenzidine	R (all non-detects) R (all non-detects)	P	Laboratory control samples (%R) (l)
440-109157-1	M-38-20150507** M-38-20150507-FD	Diethylphthalate	J (all detects)	A	Field duplicates (RPD) (fd)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
SVOCs - Laboratory Blank Data Qualification Summary - SDGs 440-99312-1, 440-99401-1, 440-99974-1, 440-100558-1, 440-100759-1, 440-109157-1

No Sample Data Qualified in these SDGs

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
SVOCs - Field Blank Data Qualification Summary - SDGs 440-99312-1, 440-99401-1, 440-99974-1, 440-100558-1, 440-100759-1, 440-109157-1

No Sample Data Qualified in these SDGs

4-Chlorobenzenesulfonic acid (p-CBSA) by EPA SW 846 Method 8321A

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0%.

Retention time windows were established as required by the method for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0%.

III. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) were less than or equal to 20.0% with the following exceptions:

SDG	Date	Column	Compound	%D	Associated Samples	Flag	A or P
440-99974-1	1/29/15 (4B_25)	Kinetex C18	p-CBSA	29.1	M-186D-20150126 M-162D-20150127-FB	UJ (all non-detects)	A
440-101116-1	02/12/15 (A4B_03)	Kinetex C18	p-CBSA	22.3	M-126-20150206 M-126-20150206-FD M-5A-20150206	J+ (all detects)	A

Retention times of all compounds in the calibration standards were within the established retention time windows for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

SDG	Laboratory Blank ID	Extraction Date	Compound	Concentration	Associated Samples
440-101116-1	MB 320-65469	02/09/15	p-CBSA	0.132 ug/L	All samples in SDG 440-101116-1

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated laboratory blanks.

V. Field Blanks

Sample M-191-20150202-EB** (from SDG 440-100558-1) was identified as an equipment blank. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-100558-1	M-191-20150202-EB**	02/02/15	p-CBSA	0.12 ug/L	M-191-20150202**

Samples M-162D-20150127-FB** (from SDG 440-99974-1) and M-5A-20150206-FB (from SDG 440-101116-1) were identified as field blanks. No contaminants were found.

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks.

VI. Surrogates

Surrogates were added to all samples as required by the method. Surrogate recoveries (%R) were not within QC limits for sample M-5A-20150206 (from SDG 440-101116-1). No data were qualified for samples analyzed at greater than or equal to a 5X dilution.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For M-126-20150206MS/MSD (from SDG 440-101116-1), no data was qualified for p-CBSA percent recoveries outside the QC limits since the parent sample results were greater than 4X the spike concentration.

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
440-99312-1	M-190-20150119MS/MSD (M-190-20150119)	p-CBSA	29 (≤20)	NA	-

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-1) and samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-1	p-CBSA	2400	2300	4 (≤30)	-	-

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Stage 4 validation with the following exceptions:

SDG	Sample	Compound	Finding	Flag	A or P
440-100558-1	M-191-20150202-EB**	p-CBSA	Ion ratio outside of acceptable limits.	J (all detects)	A

Raw data were not reviewed for Stage 2B validation.

XII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

The system performance was acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to continuing calibration %D and ion ratio, data were qualified as estimated in six samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
p-CBSA - Data Qualification Summary - SDGs 440-99312-1, 440-99401-1, 440-99974-1, 440-100558-1, 440-101116-1

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-99974-1	M-186D-20150126 M-162D-20150127-FB	p-CBSA	UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-101116-1	M-126-20150206 M-126-20150206-FD M-5A-20150206	p-CBSA	J+ (all detects)	A	Continuing calibration (%D) (c)
440-100558-1	M-191-20150202-EB**	p-CBSA	J (all detects)	A	Compound quantitation (ion ratio) (o)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
p-CBSA - Laboratory Blank Data Qualification Summary - SDGs 440-99312-1, 440-99401-1, 440-99974-1, 440-100558-1, 440-101116-1

No Sample Data Qualified in these SDGs

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
p-CBSA - Field Blank Data Qualification Summary - SDGs 440-99312-1, 440-99401-1, 440-99974-1, 440-100558-1, 440-101116-1

No Sample Data Qualified in these SDGs

Chlorinated Pesticides by EPA SW 846 Method 8081A

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 15.0%.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

Retention time windows were established as required by the method for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

SDG	Date	Column	Compound	%D	Associated Samples	Flag	A or P
440-99401-1	1/22/15 (CCV-006)	RTX-CLP II B	Toxaphene	30.0	All samples in SDG 440-99401-1	UJ (all non-detects)	A

Retention times in the calibration standards were within the established retention time windows for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample M-191-20150202-EB (from SDG 440-100558-1) was identified as an equipment blank. No contaminants were found.

Samples M-162D-20150127-FB (from SDG 440-99974-1) was identified as a field blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	Flag	A or P
440-99401-1	LCS/D 440-231313 (All samples in SDG 440-99401-1)	Endosulfan II	52 (55-120)	54 (55-120)	UJ (all non-detects)	P
440-99974-1	LCS 440-233625 (M-162D-20150127)	Aldrin	29 (40-115)	-	UJ (all non-detects)	P
440-100230-1	LCS 440-233625 (All samples in SDG 440-100230-1)	Aldrin	29 (40-115)	-	UJ (all non-detects)	P
440-100386-1	LCS 440-233625 (All samples in SDG 440-100386-1)	Aldrin	29 (40-115)	-	UJ (all non-detects)	P
440-101116-1	LCS/D 440-234937 (All samples in SDG 440-101116-1)	gamma-Chlordane	55 (60-140)	-	UJ (all non-detects)	P

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	LCS ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
440-101116-1	LCS/D 440-234937 (All samples in SDG 440-101116-1)	alpha-BHC delta-BHC gamma-BHC	35 (≤30) 32 (≤30) 35 (≤30)	J (all detects)	P

X. Field Duplicates

Samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-1) and samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-1	alpha-BHC	0.0059	0.0053U	200 (≤30)	NQ	-
440-101116-1	delta-BHC	0.048	0.057	17 (≤30)	-	-
440-101116-1	gamma-BHC	0.11	0.13	17 (≤30)	-	-

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

XI. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Stage 4 validation.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

SDG	Sample	Compound	RPD	Flag	A or P
440-100558-1	MC-3-20150202	delta-BHC	41.15	J (all detects)	A

Raw data were not reviewed for Stage 2B validation.

XII. Target Compound Identification

All target compound identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

The system performance was acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to continuing calibration %D, LCS/LCSD %R and RPD, and RPD between two columns, data were qualified as estimated in seven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Chlorinated Pesticides - Data Qualification Summary - SDGs 440-99312-1, 440-99401-1, 440-99974-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-101116-1

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-99401-1	M-161D-20150119	Toxaphene	UJ (all non-detects)	A	Continuing calibration (%D) (c)
440-99401-1	M-161D-20150119	Endosulfan II	UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-99974-1	M-162D-20150127	Aldrin	UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-100230-1	M-14A-20150129	Aldrin	UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-100386-1	M-128-20150130	Aldrin	UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-101116-1	M-126-20150206 M-126-20150206-FD	gamma-Chlordane	UJ (all non-detects)	P	Laboratory control samples (%R) (l)
440-101116-1	M-126-20150206	alpha-BHC	J (all detects)	P	Laboratory control samples (RPD) (ld)
440-101116-1	M-126-20150206 M-126-20150206-FD	delta-BHC gamma-BHC	J (all detects)	P	Laboratory control samples (RPD) (ld)
440-100558-1	MC-3-20150202	delta-BHC	J (all detects)	A	Compound quantitation (RPD between two olumns) (dc)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDGs 440-99312-1, 440-99401-1, 440-99974-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-101116-1

No Sample Data Qualified in these SDGs

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDGs 440-99312-1, 440-99401-1, 440-99974-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-101116-1

No Sample Data Qualified in these SDGs

Metals by EPA Methods 200.7/200.8 and EPA SW 846 Methods 6020/7470A

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method(s).

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits with the following exceptions:

SDG	Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
440-98805-1	01/15/15	CRQL (16:07)	Mercury	68 (70-130)	PC-21A-20150112** PC-21A-20150112-FD**	UJ (all non-detects)	P
440-98909-1	01/15/15	CRQL (16:07)	Mercury	68 (70-130)	PC-40-20150113 PC-54-20150113 PC-64-20150113 PC-65-20150113	UJ (all non-detects)	P
440-99685-1	02/04/15	CRQL (10:03)	Lead	61 (70-130)	PC-127-20150122-FD PC-126-20150122 M-181-02150121 M-6A-20150122 MC-53-20150122-FD	UJ (all non-detects)	P
440-99783-1	02/04/15	CRQL (10:03)	Lead	61 (70-130)	All samples in SDG 440-99783-1	UJ (all non-detects)	P
440-100079-1	02/03/15	CRQL (09:19)	Iron	131 (70-130)	MC-50-20150127 M-141-20150128 M-141-20150128-FD	J+ (all detects)	P
440-100386-1	02/06/15	CRQL (10:17)	Aluminum	69 (70-130)	All samples in SDG 440-100386-1	UJ (all non-detects)	P
440-100558-1	02/09/15	CRQL (12:52)	Aluminum	62 (70-130)	M-191-20150202-EB**	UJ (all non-detects)	P
440-100759-1	02/15/15	CRQL (15:50)	Lead	68 (70-130)	M-76-20150203	UJ (all non-detects)	P

SDG	Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
440-101036-1	02/15/15	CRQL (15:50)	Lead	68 (70-130)	MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-69-20150204 M-134-20150205 M-79-20150205 M-135-20150205	UJ (all non-detects)	P

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of ICS analysis was met. All criteria were within QC limits.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

SDG	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
440-98909-1	ICB/CCB	Lead	0.00265 mg/L	PC-40-20150113 PC-54-20150113 PC-64-20150113 PC-65-20150113 M-161-20150113 M-162-20150113
440-98909-1	ICB/CCB	Lead	0.00262 mg/L	PC-64-20150113-EB
440-99061-1	ICB/CCB	Iron Magnesium	0.0238 mg/L 0.0382 mg/L	PC-28-20150114-FB
440-99142-1	ICB/CCB	Iron Magnesium	0.0238 mg/L 0.0382 mg/L	TR-6-20150115
440-99142-1	ICB/CCB	Antimony Lead	0.652 mg/L 0.00262 mg/L	WMW6.15S-20150115-EB
440-99142-1	ICB/CCB	Calcium Sodium	0.0645 mg/L 0.377 mg/L	WMW6.15S-20150115 WMW6.15S-20150115-FD WMW6.55S-20150115
440-99238-1	ICB/CCB	Aluminum Calcium Iron Magnesium	0.0498 mg/L 0.0537 mg/L 0.0390 mg/L 0.0452 mg/L	MCF-29B-20150116-FB

SDG	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
440-99238-1	ICB/CCB	Magnesium	0.0104 mg/L	MCF-29B-20150116 MCF-29A-20150116
440-99238-1	ICB/CCB	Lead	0.00424 mg/L	M-117-20150116 M-121-20150116
440-99238-1	PB (prep blank)	Calcium	0.0602 mg/L	All samples in SDG 440-99238-1
440-99312-1	ICB/CCB	Lead	0.00266 mg/L	M-190-20150119-FD M-189-20150119
440-99312-1	ICB/CCB	Lead	0.00424 mg/L	PC-110-20150119
440-99312-1	PB (prep blank)	Calcium	0.0602 mg/L	All samples in SDG 440-99312-1
440-99401-1	PB (prep blank)	Iron	0.0265 mg/L	M-161D-20150119 M-118-20150120 M-120-20150120 TR-10-20150120 TR-9-20150120 TR-9-20150120-FB M-12A-20150120 PC-108-20150120 PC-108-20150120-FD HMW-15-20150120 HMW-13-20150120 PC-98R-20150120 PC-103-20150120 PC-68-20150120
440-99401-1	PB (prep blank)	Zinc	0.0116 mg/L	M-161D-20150119 M-118-20150120 M-120-20150120 PC-108-20150120 PC-108-20150120-FD HMW-15-20150120 HMW-13-20150120 PC-98R-20150120 PC-103-20150120 PC-68-20150120
440-99401-1	ICB/CCB	Antimony	0.734 ug/L	M-161D-20150119 M-118-20150120 M-120-20150120 PC-108-20150120 PC-108-20150120-FD HMW-15-20150120 HMW-13-20150120 PC-98R-20150120 PC-103-20150120 PC-68-20150120
440-99401-1	PB (prep blank)	Iron Magnesium	0.0295 mg/L 0.0101 mg/L	M-12A-20150120-EB

SDG	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
440-99401-1	ICB/CCB	Magnesium	0.0452 mg/L	M-12A-20150120-EB
440-99401-1	ICB/CCB	Magnesium	0.0125 mg/L	M-12A-20150120 PC-108-20150120 PC-108-20150120-FD HMW-15-20150120 PC-98R-20150120 PC-103-20150120 PC-68-20150120
440-99685-1	PB (prep blank)	Calcium	0.0652 mg/L	PC-127-20150122-EB
440-99685-1	ICB/CCB	Antimony	0.563 mg/L	PC-2-20150122 PC-4-20150122 PC-132-20150122 PC-127-20150122 PC-127-20150122-FD PC-126-20150122 M-6A-20150122 MC-53-20150122
440-99685-1	PB (prep blank)	Iron	0.0110 mg/L	PC-127-20150122-FB M-6A-20150122-FB
440-99783-1	ICB/CCB	Antimony	0.563 ug/L	All samples in SDG 440-99783-1
440-99974-1	PB (prep blank)	Calcium	0.0702 mg/L	M-162D-20150127-FB
440-99974-1	ICB/CCB	Antimony	0.609 ug/L	M-162D-20150127-FB
440-99974-1	ICB/CCB	Magnesium	0.011 mg/L	M-163-20150127 M-125-20150127** M-123-20150127 TR-8-20150127 MC-45-20150127** M-162D-20150127
440-99974-1	ICB/CCB	Mercury	0.130 ug/L	M-186D-20150126 M-162D-20150127 PC-152-20150126
440-100079-1	PB (prep blank)	Calcium	0.0702 mg/L	MC-50-20150127-EB
440-100079-1	ICB/CCB	Antimony	0.609 ug/L	MC-50-20150127-EB
440-100079-1	ICB/CCB	Boron	0.0100 mg/L	M-182-20150128
440-100230-1	PB (prep blank)	Iron	0.0456 mg/L	M-73-20150129-EB

SDG	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
440-100230-1	ICB/CCB	Lead	0.00308 mg/L	M-92-20150129 M-97-20150129 M-97-20150129-FD
440-100558-1	ICB/CCB	Lead Antimony	0.00308 mg/L 0.691 ug/L	M-191-20150202-EB**
440-100759-1	PB (prep blank)	Iron	0.0113 mg/L	M-76-20150203
440-100759-1	ICB/CCB	Magnesium	0.0205 mg/L	M-76-20150203
440-100759-1	ICB/CCB	Lead	0.00343 mg/L	M-66-20150203 M-66-20150203-FD
440-100881-1	ICB/CCB	Lead Boron Magnesium	0.00351 mg/L 0.0105 mg/L 0.0108 mg/L	M-139-20150204-EB**
440-100881-1	ICB/CCB	Lead	0.00351 mg/L	M-71-20150204** HM-2-20150203** M-75-20150203** M-132-20150204** M-68-20150204** M-147-20150204** M-139-20150204**
440-100881-1	ICB/CCB	Magnesium	0.0369 mg/L	M-71-20150204** M-70-20150204** M-58-20150204** HM-2-20150203** M-75-20150203**
440-100881-1	ICB/CCB	Magnesium	0.0451 mg/L	M-132-20150204** M-68-20150204** M-147-20150204** M-139-20150204**
440-100881-1	ICB/CCB	Magnesium Iron	0.0286 mg/L 0.0146 mg/L	M-72-20150204**
440-100881-1	ICB/CCB	Lead	0.00285 mg/L	M-70-20150204**
440-100881-1	ICB/CCB	Lead	0.00326 mg/L	M-58-20150204**

SDG	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
440-101036-1	PB (prep blank)	Iron	0.0113 mg/L	M-2A-20150204 MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-69-20150204 M-134-20150205 M-79-20150205 M-135-20150205
440-101036-1	ICB/CCB	Boron	0.0332 mg/L	M-7B-20150205-FB M-134-20150205-FB M-134-20150205-EB
440-101036-1	ICB/CCB	Lead	0.00351 mg/L	M-7B-20150205-FB M-134-20150205-EB
440-101036-1	ICB/CCB	Magnesium	0.0205 mg/L	M-2A-20150204 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-69-20150204 M-134-20150205 M-135-20150205
440-101036-1	ICB/CCB	Lead	0.00343 mg/L	M-2A-20150204
440-101116-1	ICB/CCB	Magnesium	0.0148 mg/L	M-81A-20150206 M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205 M-57A-20150206 M-57A-20150206-FD M-140-20150206
440-101116-1	ICB/CCB	Magnesium	0.0103 mg/L	MW-16-20150205 M-126-20150206 M-126-20150206-FD
440-104245-1	PB (prep blank)	Iron	0.0154 mg/L	M-186D-20150311-FB
440-104245-1	ICB/CCB	Magnesium	0.0152 mg/L	M-186D-20150311-FB
440-108824-1	PB (prep blank)	Iron	0.0256 mg/L	All samples in SDG 440-108824-1

SDG	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
440-108990-1	PB (prep blank)	Calcium Iron	0.110 mg/L 0.0256 mg/L	PC-157B-20150506F PC-157A-20150506F PC-155B-20150506F PC-155A-20150506F** PC-156B-20150506F PC-156A-20150506F
440-108990-1	ICB/CCB	Aluminum	0.0331 mg/L	PC-155B-20150506F
440-108990-1	ICB/CCB	Antimony	0.534 mg/L	PC-156B-20150506-EB
440-109157-1	ICB/CCB	Lead	0.00417 mg/L	M-38-20150507F** M-38-20150507-FDF
440-109157-1	ICB/CCB	Aluminum Magnesium	0.0262 mg/L 0.0136 mg/L	M-38-20150507-FB

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated laboratory blanks with the following exceptions:

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
440-99142-1	TR-6-20150115	Iron	0.054 mg/L	0.054J mg/L
440-99401-1	M-161D-20150119	Iron Zinc	0.010 mg/L 0.018 mg/L	0.010J mg/L 0.018J mg/L
440-99401-1	TR-9-20150120	Iron	0.010 mg/L	0.010J mg/L
440-99401-1	HMW-13-20150120	Iron	0.024 mg/L	0.024J mg/L
440-99401-1	PC-98R-20150120	Iron	0.029 mg/L	0.029J mg/L
440-99401-1	PC-103-20150120	Iron	0.015 mg/L	0.015J mg/L
440-99401-1	PC-68-20150120	Iron	0.018 mg/L	0.018J mg/L
440-99685-1	PC-127-20150122-FB	Iron	0.014 mg/L	0.014J mg/L
440-100230-1	M-97-20150129	Lead	0.0044 mg/L	0.0044J mg/L
440-100230-1	M-97-20150129-FD	Lead	0.0037 mg/L	0.0037J mg/L

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
440-100759-1	M-76-20150203	Iron	0.011 mg/L	0.011J mg/L
440-101036-1	M-2A-20150204	Iron	0.034 mg/L	0.034J mg/L
440-101036-1	MC-51-20150205	Iron	0.014 mg/L	0.014J mg/L
440-101036-1	MC-97-20150205	Iron	0.011 mg/L	0.011J mg/L
440-101036-1	M-79-20150205	Iron	0.035 mg/L	0.035J mg/L
440-108990-1	PC-155A-20150506F**	Iron	0.016 mg/L	0.016J mg/L
440-108990-1	PC-156B-20150506F	Iron	0.018 mg/L	0.018J mg/L
440-109157-1	M-38-20150507F**	Lead	0.0061 mg/L	0.0061J mg/L

VI. Field Blanks

Samples PC-64-20150113-EB (from SDG 440-98909-1), WMW6.15S-20150115-EB (from SDG 440-99142-1), M-12A-20150120-EB (from SDG 440-99401-1), M-12A-20150120-EB (from SDG 440-99401-2), PC-127-20150122-EB (from SDG 440-99685-1), MC-50-20150127-EB (from SDG 440-100079-1), MC-50-20150127-EB (from SDG 440-100079-2), M-73-20150129-EB** (from SDG 440-100230-1), M-191-20150202-EB** (from SDG 440-100558-1), M-191-20150202-EB** (from SDG 440-100558-2), M-139-20150204-EB** (from SDG 440-100881-1), M-139-20150204-EB** (from SDG 440-100881-2), M-134-20150205-EB (from SDG 440-101036-2), M-134-20150205-EB (from SDG 440-101036-1), M-189-20150310-EB (from SDG 440-104147-1), M-189-20150310-EB (from SDG 440-104147-2) and PC-156B-20150506-EB (from SDG 440-108990-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-98909-1	PC-64-20150113-EB	01/13/15	Antimony	160 ug/L	PC-64-20150113
440-99142-1	WMW6.15S-20150115-EB	01/15/15	Calcium Antimony	0.056 ug/L 150 ug/L	WMW6.15S-20150115 WMW6.15S-20150115-FD
440-99685-1	PC-127-20150122-EB	01/22/15	Calcium Copper Antimony	0.067 mg/L 0.0056 mg/L 350 ug/L	PC-127-20150122 PC-127-20150122-FD

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-100079-1	MC-50-20150127-EB	01/27/15	Boron Iron Potassium Copper Antimony	0.013 mg/L 0.011 mg/L 0.31 mg/L 0.0057 mg/L 420 ug/L	MC-50-20150127
440-100230-1	M-73-20150129-EB	01/29/15	Boron	0.011 mg/L	M-73-20150129
440-100558-1	M-191-20150202-EB**	02/02/15	Antimony Boron	410 ug/L 0.012 mg/L	M-191-20150202**
440-100881-1	M-139-20150204-EB**	02/04/15	Boron Magnesium	0.088 mg/L 0.085 mg/L	M-139-20150204**
440-104147-1	M-189-20150310-EB	03/10/15	Magnesium	0.013 mg/L	M-189-20150310
440-108990-1	PC-156B-20150506-EB	05/06/15	Iron	0.017 mg/L	PC-156B-20150506F

Samples PC-28-20150114-FB (from SDG 440-99061-1), MCF-29B-20150116-FB (from SDG 440-99238-1), TR-9-20150120-FB (from SDG 440-99401-1), TR-9-20150120-FB (from SDG 440-99401-2), PC-127-20150122-FB (from SDG 440-99685-1), M-6A-20150122-FB (from SDG 440-99685-1), M-6A-20150122-FB (from SDG 440-99685-2), M-162D-20150127-FB (from SDG 440-99974-1), M-162D-20150127-FB (from SDG 440-99974-2), M-77-20150128-FB (from SDG 440-100079-1), M-77-20150128-FB (from SDG 440-100079-2), M-7B-20150205-FB (from SDG 440-101036-1), M-134-20150205-FB (from SDG 440-101036-1), M-7B-20150205-FB (from SDG 440-101036-2), M-134-20150205-FB (from SDG 440-101036-2), M-81A-20150206-FB (from SDG 440-101116-1), and M-5A-20150206-FB (from SDG 440-101116-1), M-81A-20150206-FB (from SDG 440-101116-2), M-5A-20150206-FB (from SDG 440-101116-2), M-186D-20150311-FB (from SDG 440-104245-1), M-186D-20150311-FB (from SDG 440-104245-2), M-38-20150507-FB (from SDG 440-109157-1) and M-38-20150507-FB (from SDG 440-109157-2) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-99061-1	PC-28-20150114-FB	01/14/15	Antimony	150 ug/L	PC-28-20150114 PC-28-20150114-FD
440-99238-1	MCF-29B-20150116-FB	01/16/15	Antimony	150 ug/L	MCF-29B-20150116
440-99685-1	PC-127-20150122-FB	01/22/15	Iron Antimony Mercury	0.014 mg/L 320 ug/L 0.15 ug/L	PC-127-20150122 PC-127-20150122-FD

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-99685-1	M-6A-20150122-FB	01/22/15	Antimony Mercury	290 ug/L 0.11 ug/L	M-6A-20150122
440-99974-1	M-162D-20150127-FB	01/27/15	Antimony	280 ug/L	M-162D-20150127
440-100079-1	M-77-20150128-FB	01/28/15	Boron	0.015 mg/L	M-77-20150128
440-104245-1	M-186D-20150311-FB	03/11/15	Boron	0.011 mg/L	M-186D-20150311
440-109157-1	M-38-20150507-FB	05/07/15	Boron Magnesium	0.012 mg/L 0.12 mg/L	M-38-20150507F** M-38-20150507-FDF

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks with the following exceptions:

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
440-99061-1	PC-28-20150114-FD	Antimony	0.51 ug/L	0.51J ug/L
440-99685-1	PC-127-20150122	Copper	0.0053 mg/L	0.0053J mg/L
440-100079-1	MC-50-20150127	Iron	0.13 mg/L	0.13J mg/L
440-108990-1	PC-156B-20150506F	Iron	0.018 mg/L	0.018J mg/L

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-98805-1	M-154-20150112MS/MSD (M-154-20150112 M-150-20150112)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-99061-1	TR-2-20150114MS/MSD (TR-1-20150114** TR-2-20150114 TR-4-20150114 TR-5-20150114)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-99142-1	WMW5.58S-20150115MS/MSD (TR-3-20150115 TR-11-20150115 TR-7-20150115 TR-6-20150115 TR-7-20150115-FD)	Tungsten	0 (70-130)	-	R (all non-detects)	A
440-99238-1	MCF-29B-20150116MS/MSD (MCF-29B-20150116 MCF-29A-20150116 MCF-30B-20150116 MCF-30A-20150116 M-117-20150116 M-121-20150116)	Aluminum Barium	61 (70-130) 62 (70-130)	- 60 (70-130)	J- (all detects) UJ (all non-detects) J- (all detects) UJ (all non-detects)	A
440-99238-1	MCF-29B-20150116MS/MSD (M-117-20150116 M-121-20150116)	Strontium	0 (70-130)	0 (70-130)	J- (all detects)	A
440-99238-1	MCF-29B-20150116MS/MSD (M-117-20150116 M-121-20150116)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-99312-1	M-193-20150119MS/MSD (M-190-20150119 M-190-20150119-FD M-189-20150119 M-193-20150119)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-99401-2	TR-9-20150120MS/MSD (TR-9-20150120)	Uranium	126 (75-125)	127 (75-125)	J+ (all detects)	A
440-99685-1	MC-53-20150122MS/MSD (M-181-02150121 M-6A-20150122 MC-53-20150122 MC-53-20150122-FD)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-99685-1	MC-53-20150122MS/MSD (PC-2-20150122 PC-4-20150122 PC-132-20150122 PC-53-20150121 PC-127-20150122 PC-127-20150122-FD PC-126-20150122 M-6A-20150122 MC-53-20150122 MC-53-20150122-FD)	Mercury	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-99783-1	PC-50-20150123MS/MSD (PC-124-20150122 PC-129-20150123 PC-128-20150123 PC-154-20150123 PC-158-20150123 PC-159-20150123)	Aluminum	154 (70-130)	157 (70-130)	J+ (all detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-99783-1	PC-50-20150123MS/MSD (All samples in SDG 440-99783-1)	Mercury	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-99862-1	PC-160-20150126MS/MSD (PC-160-20150126 PC-134D-20150126 PC-137D-20150126 PC-151-20150126 PC-151-20150126-FD PC-153-20150126)	Mercury	31 (70-130)	22 (70-130)	R (all non-detects)	A
440-99862-1	PC-134D-20150126MS/MSD (M-149-20150126 M-153-20150126 M-186-20150126 M-186-20150126-FD)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-99862-1	PC-134D-20150126MS/MSD (M-149-20150126 M-153-20150126 M-186-20150126 M-186-20150126-FD)	Boron	-	66 (70-130)	J- (all detects)	A
440-99862-2	TR-9-20150120MS/MSD (All samples in SDG 440-99862-2)	Uranium	126 (75-125)	127 (75-125)	J+ (all detects)	A
440-99974-1	M-162D-20150127MS/MSD (M-163-20150127 M-125-20150127** M-123-20150127 TR-8-20150127 MC-45-20150127** M-186D-20150126 M-162D-20150127)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-100079-1	M-141-20150128MS/MSD (MC-50-20150127 M-141-20150128 M-141-20150128-FD M-77-20150128)	Manganese	-	138 (70-130)	J+ (all detects)	A
440-100230-1	M-97-20150129MS/MSD (M-92-20150129 M-97-20150129 M-97-20150129-FD M-124-20150129 M-14A-20150129 M-74-20150129 M-133-20150129 M-73-20150129 M-67-20150129)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-100230-1	M-97-20150129MS/MSD (M-92-20150129 M-97-20150129 M-97-20150129-FD M-124-20150129 M-14A-20150129 M-74-20150129 M-133-20150129 M-73-20150129 M-67-20150129)	Boron	-	131 (70-130)	J+ (all detects)	A
440-100386-1	M-128-20150130MS/MSD (All samples in SDG 440-100386-1)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-100558-1	M-22A-20150202MS/MSD (M-64-20150202** M-22A-20150202** M-191-20150202** M-192-20150202** M-144-20150202**)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-100558-2	M-142-20150203MS/MSD (M-64-20150202** M-22A-20150202** M-191-20150202** M-192-20150202** M-144-20150202**)	Uranium	127 (75-125)	-	J+ (all detects)	A
440-100759-1	M-142-20150203MS/MSD (All samples in SDG 440-100759-1)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-100759-1	M-25-20150203MS/MSD (All samples in SDG 440-100759-1)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-100759-2	M-142-20150203MS/MSD (All samples in SDG 440-100759-2)	Uranium	127 (75-125)	-	J+ (all detects)	A
440-100759-2	M-65-20150203MS/MSD (All samples in SDG 440-100759-2)	Uranium	-	127 (75-125)	J+ (all detects)	A
440-100881-1	M-71-20150204MS/MSD (M-71-20150204** M-70-20150204** M-58-20150204** M-75-20150203** M-132-20150204** M-68-20150204** M-147-20150204** M-139-20150204**)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-101036-1	M-79-20150205MS/MSD (M-79-20150205)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-101116-1	M-81A-20150206MS/MSD (M-81A-20150206 M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205 M-57A-20150206 M-57A-20150206-FD M-140-20150206)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-101116-1	M-57A-20150206-FDMS/MSD (M-81A-20150206 M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205 M-57A-20150206 M-57A-20150206-FD M-140-20150206)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-104245-1	M-192-20150311MS/MSD (M-186D-20150311 M-192-20150311 M-193-20150311 M-193-20150311-FD)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-104383-1	PC-159-20150311MS/MSD (M-161D-20150312 M-162D-20150312 H-28-20150312)	Tungsten	0 (70-130)	0 (70-130)	R (all non-detects)	A
440-108824-1	M-10-20150505MS/MSD (All samples in SDG 440-108824-1)	Tungsten	0 (75-125)	0 (75-125)	R (all non-detects)	A
440-109157-1	M-38-20150507FMS/MSD (M-38-20150507F** M-38-20150507-FDF)	Tungsten	0 (75-125)	0 (75-125)	R (all non-detects)	A

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	RPD (Limits)	Flag	A or P
440-99142-1	WMW5.58S-20150115MS/MSD (TR-3-20150115 TR-11-20150115 TR-7-20150115 TR-6-20150115 TR-7-20150115-FD)	Tungsten	100 (≤30)	UJ (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	RPD (Limits)	Flag	A or P
440-99862-1	PC-160-20150126MS/MSD (PC-160-20150126 PC-134D-20150126 PC-137D-20150126 PC-151-20150126 PC-151-20150126-FD PC-153-20150126)	Mercury	35 (≤20)	UJ (all non-detects)	A
440-101116-1	M-81A-20150206MS/MSD (M-81A-20150206 M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205 M-57A-20150206 M-57A-20150206-FD M-140-20150206)	Tungsten	200 (≤20)	UJ (all non-detects)	A

VIII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in these SDGs, and therefore duplicate analyses were not performed for these SDGs.

IX. ICP Serial Dilution

ICP serial dilution analysis was performed on an associated project sample. The analysis criteria were met.

X. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

XI. Field Duplicates

Samples PC-21A-20150112** and PC-21A-20150112-FD** (from SDG 440-98805-1), samples PC-28-20150114 and PC-28-20150114-FD (from SDG 440-99061-1), samples WMW6.15S-20150115 and WMW6.15S-20150115-FD (from SDG 440-99142-1), samples TR-7-20150115 and TR-7-20150115-FD (from SDG 440-99142-1), samples TR-7-20150115 and TR-7-20150115-FD (from SDG 440-99142-2), samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-1), samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-2), samples PC-108-20150120 and PC-108-20150120-FD (from SDG 440-99401-1),samples PC-127-20150122 and PC-127-20150122-FD (from SDG 440-99685-1), samples MC-53-20150122 and MC-53-20150122-FD (from SDG 440-99685-1), samples MC-53-20150122 and MC-53-20150122-FD (from SDG 440-99685-2), samples PC-151-

20150126 and PC-151-20150126-FD (from SDG 440-99862-1), samples M-186-20150126 and M-186-20150126-FD (from SDG 440-99862-1), samples M-186-20150126 and M-186-20150126-FD (from SDG 440-99862-2), samples M-141-20150128 and M-141-20150128-FD (from SDG 440-100079-1), samples M-141-20150128 and M-141-20150128-FD (from SDG 440-100079-2), samples M-97-20150129 and M-97-20150129-FD (from SDG 440-100230-1), samples M-97-20150129 and M-97-20150129-FD (from SDG 440-100230-2), samples M-35-20150129 and M-35-20150129-FD (from SDG 440-100386-1), samples M-35-20150129 and M-35-20150129-FD (from SDG 440-100386-2), samples M-138-20150203 and M-138-20150203-FD (from SDG 440-100759-1), samples M-66-20150203 and M-66-20150203-FD (from SDG 440-100759-1), samples M-25-20150203 and M-25-20150203-FD (from SDG 440-100759-1), samples M-138-20150203 and M-138-20150203-FD (from SDG 440-100759-2), samples M-66-20150203 and M-66-20150203-FD (from SDG 440-100759-2), samples M-25-20150203 and M-25-20150203-FD (from SDG 440-100759-2), samples MC-51-20150205 and MC-51-20150205-FD (from SDG 440-101036-2), samples M-83-20150206 and M-83-20150206-FD (from SDG 440-101116-1), samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-1), samples M-57A-20150206 and M-57A-20150206-FD (from SDG 440-101116-1), samples M-83-20150206 and M-83-20150206-FD (from SDG 440-101116-2), samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-2), samples M-57A-20150206 and M-57A-20150206-FD (from SDG 440-101116-2), samples MC-51-20150205 and MC-51-20150205-FD (from SDG 440-101036-1), samples M-193-20150311 and M-193-20150311-FD (from SDG 440-104245-1), samples PC-158-20150312 and PC-158-20150312-FD (from SDG 440-104519-1), samples M-193-20150311 and M-193-20150311-FD (from SDG 440-104245-2), samples M-38-20150507F** and M-38-20150507-FDF (from SDG 440-109157-1) and samples M-38-20150507** and M-38-20150507-FD (from SDG 440-109157-2) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-21A-20150112**	PC-21A-20150112-FD**			
440-98805-1	Arsenic	100 ug/L	110 ug/L	10 (≤30)	-	-
	Barium	0.016 mg/L	0.016 mg/L	0 (≤30)	-	-
	Calcium	940 mg/L	950 mg/L	1 (≤30)	-	-
	Chromium	0.19 mg/L	0.19 mg/L	0 (≤30)	-	-
	Magnesium	420 mg/L	440 mg/L	5 (≤30)	-	-
	Potassium	21 mg/L	21 mg/L	0 (≤30)	-	-
	Sodium	1600 mg/L	1600 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-21A-20150112**	PC-21A-20150112-FD**			
440-98805-1	Vanadium	0.049 mg/L	0.049 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-28-20150114	PC-28-20150114-FD			
440-99061-1	Arsenic	210 ug/L	220 ug/L	5 (≤30)	-	-
	Antimony	0.50U ug/L	0.51 ug/L	200 (≤30)	NQ	-
	Barium	0.012 mg/L	0.011 mg/L	9 (≤30)	-	-
	Calcium	530 mg/L	470 mg/L	12 (≤30)	-	-
	Chromium	0.42 mg/L	0.39 mg/L	7 (≤30)	-	-
	Lead	0.005U mg/L	0.0047 mg/L	200 (≤30)	NQ	-
	Magnesium	130 mg/L	130 mg/L	0 (≤30)	-	-
	Potassium	7.8 mg/L	7.0 mg/L	11 (≤30)	-	-
	Sodium	700 mg/L	630 mg/L	11 (≤30)	-	-
	Vanadium	0.13 mg/L	0.13 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		WMW6.15S-20150115	WMW6.15S-20150115-FD			
440-99142-1	Arsenic	120 ug/L	120 ug/L	0 (≤30)	-	-
	Aluminum	0.033 mg/L	0.050U mg/L	200 (≤30)	NQ	-
	Barium	0.031 mg/L	0.030 mg/L	3 (≤30)	-	-
	Calcium	190 mg/L	180 mg/L	5 (≤30)	-	-
	Cobalt	0.0030 mg/L	0.0030 mg/L	0 (≤30)	-	-
	Manganese	0.44 mg/L	0.44 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		WMW6.15S-20150115	WMW6.15S-20150115-FD			
440-99142-1	Magnesium	76 mg/L	73 mg/L	4 (≤30)	-	-
	Potassium	27 mg/L	27 mg/L	0 (≤30)	-	-
	Nickel	0.018 mg/L	0.019 mg/L	5 (≤30)	-	-
	Sodium	620 mg/L	600 mg/L	3 (≤30)	-	-
	Vanadium	0.087 mg/L	0.085 mg/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		TR-7-20150115	TR-7-20150115-FD			
440-99142-1	Arsenic	40 ug/L	40 ug/L	0 (≤30)	-	-
	Boron	0.56 mg/L	0.57 mg/L	2 (≤30)	-	-
	Chromium	0.013 mg/L	0.013 mg/L	0 (≤30)	-	-
	Magnesium	22 mg/L	22 mg/L	0 (≤30)	-	-
	Lead	0.0050U mg/L	0.0026 mg/L	200 (≤30)	NQ	-
	Strontium	1.1 mg/L	1.1 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		TR-7-20150115	TR-7-20150115-FD			
440-99142-2	Uranium	2.5	2.5	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-127-20150122	PC-127-20150122-FD			
440-99685-1	Arsenic	140 ug/L	130 ug/L	7 (≤30)	-	-
	Barium	0.012 mg/L	0.011 mg/L	9 (≤30)	-	-
	Calcium	570 mg/L	560 mg/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-127-20150122	PC-127-20150122-FD			
440-99685-1	Chromium	0.92 mg/L	0.87 mg/L	6 (≤30)	-	-
	Iron	0.080U mg/L	0.023 mg/L	200 (≤30)	NQ	-
	Copper	0.0053 mg/L	0.010U mg/L	200 (≤30)	NQ	-
	Magnesium	210 mg/L	200 mg/L	5 (≤30)	-	-
	Potassium	13 mg/L	12 mg/L	8 (≤30)	-	-
	Sodium	1000 mg/L	950 mg/L	5 (≤30)	-	-
	Vanadium	0.062 mg/L	0.060 mg/L	3 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-1	Arsenic	120 ug/L	110 ug/L	9 (≤30)	-	-
	Aluminum	0.067 mg/L	0.16 mg/L	82 (≤30)	J (all detects)	A
	Barium	0.047 mg/L	0.046 mg/L	2 (≤30)	-	-
	Boron	2.3 mg/L	2.2 mg/L	4 (≤30)	-	-
	Calcium	480 mg/L	450 mg/L	6 (≤30)	-	-
	Chromium	0.0084 mg/L	0.0089 mg/L	6 (≤30)	-	-
	Iron	0.049 mg/L	0.040 mg/L	20 (≤30)	-	-
	Strontium	18 mg/L	18 mg/L	0 (≤30)	-	-
	Magnesium	450 mg/L	400 mg/L	12 (≤30)	-	-
	Nitrogen	0.14 mg/L	0.14 mg/L	0 (≤30)	-	-
	Potassium	36 mg/L	34 mg/L	6 (≤30)	-	-
	Sodium	3900 mg/L	3900 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-1	Vanadium	0.16 mg/L	0.16 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-2	Uranium	37	46	22 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-1	Arsenic	100 ug/L	110 ug/L	10 (≤30)	-	-
	Aluminum	0.034 mg/L	0.025U mg/L	200 (≤30)	NQ	-
	Barium	0.017 mg/L	0.016 mg/L	6 (≤30)	-	-
	Boron	2.0 mg/L	1.9 mg/L	5 (≤30)	-	-
	Calcium	170 mg/L	160 mg/L	6 (≤30)	-	-
	Chromium	0.41 mg/L	0.40 mg/L	2 (≤30)	-	-
	Zinc	0.022 mg/L	0.010U mg/L	200 (≤30)	NQ	-
	Magnesium	80 mg/L	77 mg/L	4 (≤30)	-	-
	Potassium	14 mg/L	14 mg/L	0 (≤30)	-	-
	Strontium	3.7 mg/L	3.7 mg/L	0 (≤30)	-	-
	Sodium	410 mg/L	400 mg/L	2 (≤30)	-	-
	Vanadium	0.047 mg/L	0.046 mg/L	2 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-2	Uranium	6.1	6.2	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-108-20150120	PC-108-20150120-FD			
440-99401-1	Arsenic	75 ug/L	73 ug/L	3 (≤30)	-	-
	Barium	0.030 mg/L	0.031 mg/L	3 (≤30)	-	-
	Cobalt	0.0033 mg/L	0.0035 mg/L	6 (≤30)	-	-
	Calcium	150 mg/L	150 mg/L	0 (≤30)	-	-
	Chromium	0.0064 mg/L	0.0025U mg/L	200 (≤30)	NQ	-
	Zinc	0.031 mg/L	0.025 mg/L	21 (≤30)	-	-
	Iron	0.082 mg/L	0.071 mg/L	14 (≤30)	-	-
	Lead	0.0034 mg/L	0.0043 mg/L	23 (≤30)	-	-
	Manganese	0.73 mg/L	0.74 mg/L	1 (≤30)	-	-
	Magnesium	55 mg/L	56 mg/L	2 (≤30)	-	-
	Nickel	0.012 mg/L	0.011 mg/L	9 (≤30)	-	-
	Potassium	21 mg/L	21 mg/L	0 (≤30)	-	-
	Sodium	500 mg/L	500 mg/L	0 (≤30)	-	-
	Vanadium	0.0059 mg/L	0.0059 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-151-20150126	PC-151-20150126-FD			
440-99862-1	Aluminum	0.19 mg/L	0.025U mg/L	200 (≤30)	NQ	-
	Barium	0.021 mg/L	0.021 mg/L	0 (≤30)	-	-
	Calcium	260 mg/L	280 mg/L	7 (≤30)	-	-
	Magnesium	150 mg/L	150 mg/L	0 (≤30)	-	-
	Manganese	0.37 mg/L	0.39 mg/L	5 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-151-20150126	PC-151-20150126-FD			
440-99862-1	Potassium	28 mg/L	29 mg/L	4 (≤30)	-	-
	Sodium	860 mg/L	940 mg/L	9 (≤30)	-	-
	Vanadium	0.098 mg/L	0.099 mg/L	1 (≤30)	-	-
	Arsenic	57 ug/L	56 ug/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-186-20150126	M-186-20150126-FD			
440-99862-1	Boron	3.8 mg/L	4.0 mg/L	5 (≤30)	-	-
	Chromium	4.7 mg/L	4.9 mg/L	4 (≤30)	-	-
	Magnesium	280 mg/L	300 mg/L	7 (≤30)	-	-
	Strontium	13 mg/L	13 mg/L	0 (≤30)	-	-
	Arsenic	25 ug/L	25 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-186-20150126	M-186-20150126-FD			
440-99862-2	Uranium	7.7	8.0	4 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-141-20150128	M-141-20150128-FD			
440-100079-1	Boron	10 mg/L	9.8 mg/L	2 (≤30)	-	-
	Chromium	5.3 mg/L	5.4 mg/L	2 (≤30)	-	-
	Iron	0.022 mg/L	0.010 mg/L	75 (≤30)	NQ	-
	Magnesium	88 mg/L	81 mg/L	8 (≤30)	-	-
	Manganese	0.45 mg/L	0.42 mg/L	7 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-141-20150128	M-141-20150128-FD			
440-100079-1	Strontium	5.4 mg/L	5.4 mg/L	0 (≤30)	-	-
	Arsenic	140 ug/L	140 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		M-141-20150128	M-141-20150128-FD			
440-100079-2	Uranium	50	49	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-97-20150129	M-97-20150129-FD			
440-100230-1	Arsenic	190 ug/L	200 ug/L	5 (≤30)	-	-
	Boron	5.6 mg/L	5.9 mg/L	5 (≤30)	-	-
	Chromium	0.074 mg/L	0.077 mg/L	4 (≤30)	-	-
	Lead	0.0044 mg/L	0.0037 mg/L	17 (≤30)	-	-
	Magnesium	210 mg/L	210 mg/L	0 (≤30)	-	-
	Strontium	10 mg/L	10 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-97-20150129	M-97-20150129-FD			
440-100230-2	Uranium	36	36	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-35-20150129	M-35-20150129-FD			
440-100386-1	Boron	12 mg/L	12 mg/L	0 (≤30)	-	-
	Chromium	4.3 mg/L	4.3 mg/L	0 (≤30)	-	-
	Iron	0.012 mg/L	0.011 mg/L	9 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-35-20150129	M-35-20150129-FD			
440-100386-1	Magnesium	170 mg/L	170 mg/L	0 (≤30)	-	-
	Strontium	7.8 mg/L	8.0 mg/L	3 (≤30)	-	-
	Arsenic	87 ug/L	86 ug/L	1 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-35-20150129	M-35-20150129-FD			
440-100386-2	Uranium	67	70	4 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-138-20150203	M-138-20150203-FD			
440-100759-1	Arsenic	240 ug/L	250 ug/L	4 (≤30)	-	-
	Boron	2.8 mg/L	2.8 mg/L	0 (≤30)	-	-
	Chromium	0.064 mg/L	0.065 mg/L	2 (≤30)	-	-
	Magnesium	76 mg/L	75 mg/L	1 (≤30)	-	-
	Strontium	2.2 mg/L	2.2 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-1	Arsenic	100 ug/L	100 ug/L	0 (≤30)	-	-
	Boron	4.7 mg/L	4.5 mg/L	4 (≤30)	-	-
	Chromium	22 mg/L	20 mg/L	10 (≤30)	-	-
	Magnesium	350 mg/L	340 mg/L	3 (≤30)	-	-
	Strontium	21 mg/L	20 mg/L	5 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-25-20150203	M-25-20150203-FD			
440-100759-1	Arsenic	100 ug/L	110 ug/L	10 (≤30)	-	-
	Boron	9.7 mg/L	9.3 mg/L	4 (≤30)	-	-
	Chromium	7.2 mg/L	6.9 mg/L	4 (≤30)	-	-
	Magnesium	190 mg/L	190 mg/L	0 (≤30)	-	-
	Strontium	9.9 mg/L	9.7 mg/L	2 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-138-20150203	M-138-20150203-FD			
440-100759-2	Uranium	31	29	7 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-2	Uranium	48	47	2 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-25-20150203	M-25-20150203-FD			
440-100759-2	Uranium	57	61	7 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MC-51-20150205	MC-51-20150205-FD			
440-101036-1	Boron	2.1	2.0	5 (≤30)	-	-
	Iron	0.014	0.010U	200 (≤30)	NQ	-
	Magnesium	520	520	0 (≤30)	-	-
	Manganese	0.29	0.28	4 (≤30)	-	-
	Strontium	20	19	5 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MC-51-20150205	MC-51-20150205-FD			
440-101036-1	Arsenic	110	120	9 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		MC-51-20150205	MC-51-20150205-FD			
440-101036-2	Uranium	38	38	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-1	Arsenic	43 ug/L	42 ug/L	2 (≤30)	-	-
	Boron	3.3 mg/L	3.3 mg/L	0 (≤30)	-	-
	Chromium	1.1 mg/L	1.1 mg/L	0 (≤30)	-	-
	Lead	0.0057 mg/L	0.0078 mg/L	31 (≤30)	J (all detects)	A
	Magnesium	140 mg/L	140 mg/L	0 (≤30)	-	-
	Strontium	11 mg/L	11 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-1	Arsenic	33 ug/L	34 ug/L	3 (≤30)	-	-
	Boron	1.9 mg/L	1.9 mg/L	0 (≤30)	-	-
	Chromium	0.0058 mg/L	0.0063 mg/L	8 (≤30)	-	-
	Lead	0.015 mg/L	0.012 mg/L	22 (≤30)	-	-
	Magnesium	830 mg/L	810 mg/L	2 (≤30)	-	-
	Manganese	1.3 mg/L	1.3 mg/L	0 (≤30)	-	-
	Strontium	35 mg/L	36 mg/L	3 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-57A-20150206	M-57A-20150206-FD			
440-101116-1	Arsenic	150 ug/L	150 ug/L	0 (≤30)	-	-
	Boron	2.3 mg/L	2.2 mg/L	4 (≤30)	-	-
	Chromium	0.059 mg/L	0.056 mg/L	5 (≤30)	-	-
	Lead	0.0076 mg/L	0.0086 mg/L	12 (≤30)	-	-
	Magnesium	150 mg/L	140 mg/L	7 (≤30)	-	-
	Strontium	6.4 mg/L	5.9 mg/L	8 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-2	Uranium	31	31	0 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206			
440-101116-2	Uranium	51	52	2 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-57A-20150206	M-57A-20150206-FD			
440-101116-2	Uranium	9.4	9.5	1 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MC-193-20150311	MC-193-20150311-FD			
440-104245-1	Boron	2.8	2.8	0 (≤30)	-	-
	Chromium	0.42	0.42	0 (≤30)	-	-
	Iron	0.010U	0.011	200 (≤30)	NQ	-
	Magnesium	77	77	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		MC-193-20150311	MC-193-20150311-FD			
440-104245-1	Strontium	5.3	5.4	2 (≤30)	-	-
	Arsenic	180	190	5 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-193-20150311	M-193-20150311-FD			
440-104245-2	Uranium	12	12	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-38-20150507F**	M-38-20150507-FDF			
440-109157-1	Arsenic	100 ug/L	110 ug/L	10 (≤30)	-	-
	Boron	4.3 mg/L	4.4 mg/L	2 (≤30)	-	-
	Chromium	18 mg/L	19 mg/L	5 (≤30)	-	-
	Iron	0.035 mg/L	0.028 mg/L	22 (≤30)	-	-
	Lead	0.0061 mg/L	0.011 mg/L	57 (≤30)	NQ	-
	Magnesium	240 mg/L	250 mg/L	4 (≤30)	-	-
	Strontium	14 mg/L	14 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-38-20150507**	M-38-20150507-FD			
440-109157-2	Uranium	31	34	9 (≤30)	-	-

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits.

XIII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Stage 4 validation. Raw data were reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

Due to severe problems with MS/MSD %R, data were rejected in one hundred fifteen samples.

Due to calibration %R, MS/MSD %R, and field duplicates RPD, data were qualified as estimated in eighty-three samples.

Due to laboratory blank contamination, data were qualified as estimated in eighteen samples.

Due to equipment blank contamination, data were qualified as estimated in three samples.

Due to field blank contamination, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Metals - Data Qualification Summary - SDGs 440-99061-2, 440-98805-2, 440-98909-2, 440-99142-2, 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99238-2, 440-99312-1, 440-99312-2, 440-99401-1, 440-99401-2, 440-99576-1, 440-99576-2, 440-99577-1, 440-99685-1, 440-99685-2, 440-99783-1, 440-99862-1, 440-99862-2, 440-99974-1, 440-99974-2, 440-100079-1, 440-100079-2, 440-100230-1, 440-100230-2, 440-100386-1, 440-100386-2, 440-100558-1, 440-100558-2, 440-100759-1, 440-100759-2, 440-100881-1, 440-100881-2, 440-101036-2, 440-101116-1, 440-101036-1, 440-101116-2, 440-104147-1, 440-104245-1, 440-104383-1, 440-104519-1, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-1, 440-108824-3, 440-108990-1, 440-109157-1, 440-109157-2

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-98805-1	PC-21A-20150112** PC-21A-20150112-FD**	Mercury	UJ (all non-detects)	P	Calibration (%R) (c)
440-98909-1	PC-40-20150113 PC-54-20150113 PC-64-20150113 PC-65-20150113	Mercury	UJ (all non-detects)	P	Calibration (%R) (c)
440-99685-1	PC-127-20150122-FD PC-126-20150122 M-181-02150121 M-6A-20150122 MC-53-20150122-FD	Lead	UJ (all non-detects)	P	Calibration (%R) (c)
440-99783-1	PC-124-20150122 PC-50-20150123 PC-129-20150123 PC-128-20150123 PC-154-20150123 PC-158-20150123 PC-159-20150123	Lead	UJ (all non-detects)	P	Calibration (%R) (c)
440-100079-1	MC-50-20150127 M-141-20150128 M-141-20150128-FD	Iron	J+ (all detects)	P	Calibration (%R) (c)
440-100386-1	M-37-20150129 M-128-20150130 M-35-20150129 M-35-20150129-FD M-146-20150130 M-11-20150130 M-52-20150130	Aluminum	UJ (all non-detects)	P	Calibration (%R) (c)
440-100558-1	M-191-20150202-EB**	Aluminum	UJ (all non-detects)	P	Calibration (%R) (c)
440-100759-1	M-76-20150203	Lead	UJ (all non-detects)	P	Calibration (%R) (c)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-101036-1	MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-69-20150204 M-134-20150205 M-79-20150205 M-135-20150205	Lead	UJ (all non-detects)	P	Calibration (%R) (c)
440-98805-1	M-154-20150112** M-150-20150112**	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99061-1	TR-1-20150114** TR-2-20150114 TR-4-20150114 TR-5-20150114	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99142-1	TR-3-20150115 TR-11-20150115 TR-7-20150115 TR-6-20150115 TR-7-20150115-FD	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99238-1	MCF-29B-20150116 MCF-29A-20150116 MCF-30B-20150116 MCF-30A-20150116 M-117-20150116 M-121-20150116	Aluminum Barium	J- (all detects) UJ (all non-detects) J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99238-1	M-117-20150116 M-121-20150116	Strontium	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99238-1	M-117-20150116 M-121-20150116	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99312-1	M-190-20150119 M-190-20150119-FD M-189-20150119 M-193-20150119	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99401-2	TR-9-20150120	Uranium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99685-1	M-181-02150121 M-6A-20150122 MC-53-20150122 MC-53-20150122-FD	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-99685-1	PC-2-20150122 PC-4-20150122 PC-132-20150122 PC-53-20150121 PC-127-20150122 PC-127-20150122-FD PC-126-20150122 M-6A-20150122 MC-53-20150122 MC-53-20150122-FD	Mercury	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99783-1	PC-124-20150122 PC-129-20150123 PC-128-20150123 PC-154-20150123 PC-158-20150123 PC-159-20150123	Aluminum	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99783-1	PC-124-20150122 PC-50-20150123 PC-129-20150123 PC-128-20150123 PC-154-20150123 PC-158-20150123 PC-159-20150123	Mercury	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99862-1	PC-160-20150126 PC-134D-20150126 PC-137D-20150126 PC-151-20150126 PC-151-20150126-FD PC-153-20150126	Mercury	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99862-1	M-149-20150126 M-153-20150126 M-186-20150126 M-186-20150126-FD	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99862-1	M-149-20150126 M-153-20150126 M-186-20150126 M-186-20150126-FD	Boron	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99862-2	M-149-20150126 M-153-20150126 M-186-20150126 M-186-20150126-FD	Uranium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99974-1	M-163-20150127 M-125-20150127** M-123-20150127 TR-8-20150127 MC-45-20150127** M-186D-20150126 M-162D-20150127	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-100079-1	MC-50-20150127 M-141-20150128 M-141-20150128-FD M-77-20150128	Manganese	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100230-1	M-92-20150129 M-97-20150129 M-97-20150129-FD M-124-20150129 M-14A-20150129 M-74-20150129 M-133-20150129 M-73-20150129 M-67-20150129	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100230-1	M-92-20150129 M-97-20150129 M-97-20150129-FD M-124-20150129 M-14A-20150129 M-74-20150129 M-133-20150129 M-73-20150129 M-67-20150129	Boron	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100386-1	M-37-20150129 M-128-20150130 M-35-20150129 M-35-20150129-FD M-146-20150130 M-11-20150130 M-52-20150130	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100558-1	M-64-20150202** M-22A-20150202** M-191-20150202** M-192-20150202** M-144-20150202**	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100558-2	M-64-20150202** M-22A-20150202** M-191-20150202** M-192-20150202** M-144-20150202**	Uranium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100759-1	M-13-20150202 M-138-20150203 M-138-20150203-FD M-137-20150203 M-142-20150203 M-115-20150203 M-76-20150203 M-65-20150203 M-66-20150203 M-66-20150203-FD M-25-20150203 M-25-20150203-FD	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-100759-2	M-13-20150202 M-138-20150203 M-138-20150203-FD M-137-20150203 M-142-20150203 M-115-20150203 M-76-20150203 M-65-20150203 M-66-20150203 M-66-20150203-FD M-25-20150203 M-25-20150203-FD	Uranium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100881-1	M-71-20150204** M-70-20150204** M-58-20150204** M-75-20150203** M-132-20150204** M-68-20150204** M-147-20150204** M-139-20150204**	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101036-1	M-79-20150205	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101116-1	M-81A-20150206 M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205 M-57A-20150206 M-57A-20150206-FD M-140-20150206	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-104245-1	M-186D-20150311 M-192-20150311 M-193-20150311 M-193-20150311-FD	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-104383-1	M-161D-20150312 M-162D-20150312 H-28-20150312	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-108824-1	M-10-20150505F M-32-20150505F M-33-20150505F	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-109157-1	M-38-20150507F** M-38-20150507-FDF	Tungsten	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99685-1	MC-53-20150122 MC-53-20150122-FD	Aluminum	J (all detects)	A	Field duplicates (RPD) (fd)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-101116-1	M-83-20150206 M-83-20150206-FD	Lead	J (all detects)	A	Field duplicates (RPD) (fd)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Metals - Laboratory Blank Data Qualification Summary - SDGs 440-99061-2, 440-98805-2, 440-98909-2, 440-99142-2, 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99238-2, 440-99312-1, 440-99312-2, 440-99401-1, 440-99401-2, 440-99576-1, 440-99576-2, 440-99577-1, 440-99685-1, 440-99685-2, 440-99783-1, 440-99862-1, 440-99862-2, 440-99974-1, 440-99974-2, 440-100079-1, 440-100079-2, 440-100230-1, 440-100230-2, 440-100386-1, 440-100386-2, 440-100558-1, 440-100558-2, 440-100759-1, 440-100759-2, 440-100881-1, 440-100881-2, 440-101036-2, 440-101116-1, 440-101036-1, 440-101116-2, 440-104147-1, 440-104245-1, 440-104383-1, 440-104519-1, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-1, 440-108824-3, 440-108990-1, 440-109157-1, 440-109157-2

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
440-99142-1	TR-6-20150115	Iron	0.054J mg/L	A	bl
440-99401-1	M-161D-20150119	Iron Zinc	0.010J mg/L 0.018J mg/L	A	bl
440-99401-1	TR-9-20150120	Iron	0.010J mg/L	A	bl
440-99401-1	HMW-13-20150120	Iron	0.024J mg/L	A	bl
440-99401-1	PC-98R-20150120	Iron	0.029J mg/L	A	bl
440-99401-1	PC-103-20150120	Iron	0.015J mg/L	A	bl
440-99401-1	PC-68-20150120	Iron	0.018J mg/L	A	bl
440-99685-1	PC-127-20150122-FB	Iron	0.014J mg/L	A	bl
440-100230-1	M-97-20150129	Lead	0.0044J mg/L	A	bl
440-100230-1	M-97-20150129-FD	Lead	0.0037J mg/L	A	bl
440-100759-1	M-76-20150203	Iron	0.011J mg/L	A	bl
440-101036-1	M-2A-20150204	Iron	0.034J mg/L	A	bl

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
440-101036-1	MC-51-20150205	Iron	0.014J mg/L	A	bl
440-101036-1	MC-97-20150205	Iron	0.011J mg/L	A	bl
440-101036-1	M-79-20150205	Iron	0.035J mg/L	A	bl
440-108990-1	PC-155A-20150506F**	Iron	0.016J mg/L	A	bl
440-108990-1	PC-156B-20150506F	Iron	0.018J mg/L	A	bl
440-109157-1	M-38-20150507F**	Lead	0.0061J mg/L	A	bl

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling

Metals - Field Blank Data Qualification Summary - SDGs 440-99061-2, 440-98805-2, 440-98909-2, 440-99142-2, 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99238-2, 440-99312-1, 440-99312-2, 440-99401-1, 440-99401-2, 440-99576-1, 440-99576-2, 440-99577-1, 440-99685-1, 440-99685-2, 440-99783-1, 440-99862-1, 440-99862-2, 440-99974-1, 440-99974-2, 440-100079-1, 440-100079-2, 440-100230-1, 440-100230-2, 440-100386-1, 440-100386-2, 440-100558-1, 440-100558-2, 440-100759-1, 440-100759-2, 440-100881-1, 440-100881-2, 440-101036-2, 440-101116-1, 440-101036-1, 440-101116-2, 440-104147-1, 440-104245-1, 440-104383-1, 440-104519-1, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-1, 440-108824-3, 440-108990-1, 440-109157-1, 440-109157-2

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
440-99061-1	PC-28-20150114-FD	Antimony	0.51J ug/L	A	bf
440-99685-1	PC-127-20150122	Copper	0.0053J mg/L	A	be
440-100079-1	MC-50-20150127	Iron	0.13J mg/L	A	be
440-108990-1	PC-156B-20150506F	Iron	0.018J mg/L	A	be

Bromide, Chloride, Nitrate as NO3, Nitrite as Nitrogen, Orthophosphate as Phosphorus, and Sulfate by EPA Method 300.0
Nitrate/Nitrite as Nitrogen by Calculation Method
Chlorate by EPA Method 300.1B
Perchlorate by EPA Method 314.0
Phosphorus by EPA Method 365.3
Hexavalent Chromium by EPA Method 218.6
Alkalinity by Standard Method 2320B
Total Dissolved Solids by Standard Method 2540C
Cyanide by Standard Method 4500-CN-E
Ammonia as Nitrogen by Standard Method 4500NH3 D
Dissolved Organic Carbon by Standard Method 5310B
Sulfide by EPA SW 846 Method 9034
pH by EPA SW 846 Method 9040C

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Affected Analyte	Flag	A or P
440-99142-1	TR-6-20150115	Hexavalent chromium	24.73 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99238-1	M-117-20150116	Hexavalent chromium	29.15 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99238-1	M-121-20150116	Hexavalent chromium	27.25 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99312-1	M-190-20150119	Hexavalent chromium	26.5 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99312-1	M-190-20150119-FD	Hexavalent chromium	26.53 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99401-1	M-161D-20150119	Hexavalent chromium	40.72 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99401-1	TR-10-20150120	Hexavalent chromium	24.28 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99685-1	M-181-20150121	Hexavalent chromium	40.60 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99974-1	M-163-20150127	Hexavalent chromium	24.23 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99974-1	M-186D-20150126	Hexavalent chromium	41.43 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-99974-1	M-162D-20150127	Hexavalent chromium	24.08 hours	24 hours	Hexavalent chromium	J- (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Affected Analyte	Flag	A or P
440-100079-1	MC-50-20150127	Hexavalent chromium	44.08 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-100079-1	MC-50-20150127-EB	Hexavalent chromium	42.48 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-100079-1	M-141-20150128	Hexavalent chromium	24.15 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100079-1	M-141-20150128-FD	Hexavalent chromium	24.20 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100079-1	M-31A-20150128	Hexavalent chromium	24.83 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100079-1	M-148A-20150128	Hexavalent chromium	48.10 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100230-1	M-74-20150129	Hexavalent chromium	28.12 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100230-1	M-133-20150129	Hexavalent chromium	26.80 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100386-1	M-37-20150129	Hexavalent chromium	41.05 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100386-1	M-128-20150130	Hexavalent chromium	24.85 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100386-1	M-35-20150129	Hexavalent chromium	41.12 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100386-1	M-35-20150129-FD	Hexavalent chromium	41.15 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100386-1	M-11-20150130	Hexavalent chromium	24.92 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100386-1	M-52-20150130	Hexavalent chromium	27.23 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100759-1	M-13-20150202	Hexavalent chromium	41.40 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-100759-1	M-142-20150203	Hexavalent chromium	47.70 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100759-1	M-142-20150203	Nitrate as NO3	10 days	48 hours	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	P
440-100759-1	M-65-20150203	Hexavalent chromium	27.40 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100759-1	M-66-20150203	Hexavalent chromium	25.77 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100759-1	M-66-20150203-FD	Hexavalent chromium	26.02 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100881-1	M-71-20150204**	Hexavalent chromium	44.83 hours	24 hours	Hexavalent chromium	J- (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Affected Analyte	Flag	A or P
440-100881-1	M-75-20150203**	Hexavalent chromium	64.33 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100881-1	M-132-20150204**	Hexavalent chromium	52.53 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100881-1	M-68-20150204**	Hexavalent chromium	24.80 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-100881-1	M-147-20150204**	Hexavalent chromium	25.57 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101036-1	M-2A-20150204	Hexavalent chromium	42.88 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101036-1	MC-29-20150205	Hexavalent chromium	25.92 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-101036-1	MC-51-20150205	Hexavalent chromium	25.02 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-101036-1	MC-51-20150205-FD	Hexavalent chromium	25.10 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-101036-1	MC-93-20150205	Hexavalent chromium	28.15 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101036-1	MC-97-20150205	Hexavalent chromium	27.27 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101036-1	M-23-20150205	Hexavalent chromium	26.10 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101036-1	M-69-20150204	Hexavalent chromium	41.13 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101036-1	M-134-20150205	Hexavalent chromium	28.37 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101036-1	M-134-20150205-FB	Hexavalent chromium	25.45 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-101036-1	M-134-20150205-EB	Hexavalent chromium	24.70 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-101036-1	M-79-20150205	Hexavalent chromium	36.63 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101036-1	M-69-20150204	Nitrate as NO3	48.48 hours	48 hours	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	P
440-101036-1	M-2A-20150204 M-69-20150204	Total dissolved solids	22 days	7 days	Total dissolved solids	J- (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Affected Analyte	Flag	A or P
440-101036-1	MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-7B-20150205-FB M-134-20150205 M-134-20150205-FB M-134-20150205-EB M-79-20150205 M-135-20150205	Total dissolved solids	21 days	7 days	Total dissolved solids	J- (all detects) UJ (all non-detects)	P
440-101116-1	MW-16-20150205	Hexavalent chromium	42.98 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-101116-1	M-81A-20150206	Hexavalent chromium	27.13 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101116-1	M-81A-20150206-FB	Hexavalent chromium	27.98 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101116-1	M-80-20150206	Hexavalent chromium	27.18 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101116-1	M-83-20150206	Hexavalent chromium	26.23 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101116-1	M-83-20150206-FD	Hexavalent chromium	24.32 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101116-1	M-136-20150205	Hexavalent chromium	43.37 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101116-1	M-126-20150206	Hexavalent chromium	29.43 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-101116-1	M-126-20150206-FD	Hexavalent chromium	30.32 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-101116-1	M-5A-20150206	Hexavalent chromium	28.95 hours	24 hours	Hexavalent chromium	UJ (all non-detects)	P
440-101116-1	M-5A-20150206-FB	Hexavalent chromium	29.03 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101116-1	M-57A-20150206	Hexavalent chromium	28.67 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101116-1	M-57A-20150206-FD	Hexavalent chromium	28.92 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-101116-1	M-140-20150206	Hexavalent chromium	28.20 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-104245-1	M-186D-20150311	Hexavalent chromium	25.37 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-104245-1	M-186D-20150311-FB	Hexavalent chromium	25.53 hours	24 hours	Hexavalent chromium	J- (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Affected Analyte	Flag	A or P
440-104383-1	PC-159-20150311	pH	6 days	2 days	pH	J (all detects)	P
440-104383-1	PC-154-20150312	pH	7 days	2 days	pH	J (all detects)	P
440-104383-1	M-161D-20150312	Hexavalent chromium	24.23 hours	24 hours	Hexavalent chromium	J- (all detects)	P
440-104519-1	PC-160-20150312** PC-158-20150312 PC-158-20150312-FD	pH	4 days	2 days	pH	J (all detects)	P

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method(s). No contaminants were found in the laboratory blanks with the following exceptions:

SDG	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
440-104245-1	ICB/CCB	Hexavalent chromium	0.650 ug/L	M-193-20150311 M-193-20150311-FD
440-104383-1	ICB/CCB	Perchlorate	0.815 ug/L	PC-159-20150311 M-161D-20150312 M-162D-20150312 PC-154-20150312
440-104519-1	ICB/CCB	Perchlorate	0.815 ug/L	PC-160-20150312** PC-158-20150312 PC-158-20150312-FD

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated laboratory blanks.

V. Field Blanks

Samples PC-64-20150113-EB (from SDG 440-98909-1), WMW6.15S-20150115-EB (from SDG 440-99142-1), M-12A-20150120-EB (from SDG 440-99401-1), PC-127-20150122-EB (from SDG 440-99685-1), MC-50-20150127-EB (from SDG 440-100079-1), M-73-20150129-EB (from SDG 440-100230-1), M-191-20150202-EB** (from SDG 440-100558-1), M-139-20150204-EB** (from SDG 440-100881-1), M-139-20150204-EB (from SDG 440-100881-1), M-55-20150205-EB (from SDG 440-101036-1), M-134-20150205-EB (from SDG 440-101036-1), M-189-20150310-EB (from SDG 440-104147-1) and PC-156B-20150506-EB (from SDG 440-108990-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-99685-1	PC-127-20150122-EB	01/22/15	Total dissolved solids	20000 ug/L	PC-127-20150122 PC-127-20150122-FD
440-100558-1	M-191-20150202-EB**	02/02/15	Total dissolved solids	110000 ug/L	M-191-20150202**
440-100881-1	M-139-20150204-EB**	02/04/15	Chloride Nitrate as NO3 Sulfate Nitrate/Nitrite as N Total dissolved solids	5200 ug/L 0.44 mg/L 830 ug/L 100 ug/L 10000 ug/L	M-139-20150204**
440-104147-1	M-189-20150310-EB	03/10/15	Hexavalent chromium Perchlorate	0.29 ug/L 3.5 ug/L	M-189-20150310

Samples PC-28-20150114-FB (from SDG 440-99061-1) and MCF-29B-20150116-FB (from SDG 440-99238-1), TR-9-20150120-FB (from SDG 440-99401-1), PC-127-20150122-FB (from SDG 440-99685-1), M-6A-20150122-FB (from SDG 440-99685-1), M-162D-20150127-FB (from SDG 440-99974-1), M-77-20150128-FB (from SDG 440-100079-1), M-7B-20150205-FB (from SDG 440-101036-1), M-55-20150205-FB (from SDG 440-101036-1), M-134-20150205-FB (from SDG 440-101036-1), M-81A-20150206-FB (from SDG 440-101116-1), M-5A-20150206-FB (from SDG 440-101116-1), M-186D-20150311-FB (from SDG 440-104245-1) and M-38-20150507-FB (from SDG 440-109157-1) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-101036-1	M-7B-20150205-FB	02/05/15	Hexavalent chromium	0.29 ug/L	M-7B-20150205
440-101116-1	M-81A-20150206-FB	02/06/15	Hexavalent chromium	1.0 ug/L	M-81A-20150206
440-101116-1	M-5A-20150206-FB	02/06/15	Hexavalent chromium Total phosphorus	0.29 ug/L 43 ug/L	M-5A-20150206

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-104245-1	M-186D-20150311-FB	03/11/15	Hexavalent chromium	0.35 ug/L	M-186D-20150311
440-109157-1	M-38-20150507-FB	05/07/15	Hexavalent chromium	0.30 ug/L	M-38-20150507** M-38-20150507-FD

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks.

VI. Surrogate Recovery

Surrogates were added to all samples as required by the method. Surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Affected Analyte	Flag	A or P
440-98909-1	PC-65-20150113MS/MSD (PC-40-20150113 PC-54-20150113 PC-64-20150113 PC-65-20150113 M-161-20150113 M-162-20150113)	Chloride	5 (80-120)	8 (80-120)	Chloride	J- (all detects)	A
440-98909-1	PC-65-20150113MS/MSD (PC-64-20150113 PC-65-20150113)	Sulfide	67 (70-130)	-	Sulfide	UJ (all non-detects)	A
440-99061-1	TR-1-20150114MS/MSD (TR-1-20150114** TR-2-20150114 TR-4-20150114 TR-5-20150114 PC-66-20150114 PC-67-20150114)	Chloride Sulfate	79 (80-120) 76 (80-120)	77 (80-120) 72 (80-120)	Chloride Sulfate	J- (all detects) J- (all detects)	A
440-99061-1	PC-28-20150114MS/MSD (PC-28-20150114 PC-28-20150114-FD BHEI-10-20150114 PC-24-20150114)	Nitrate as NO3	69 (80-120)	74 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Affected Analyte	Flag	A or P
440-99061-1	PC-65-20150113MS/MSD (PC-66-20150114 PC-67-20150114)	Sulfide	67 (70-130)	-	Sulfide	UJ (all non-detects)	A
440-99142-1	WMW5.58S-20150115MS/MSD (All samples in SDG 440-99142-1)	Nitrate as NO3	68 (80-120)	71 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A
440-99238-1	MCF-29B-20150116MS/MSD (MCF-29B-20150116 MCF-29A-20150116 MCF-30B-20150116 MCF-30A-20150116)	Perchlorate	67 (80-120)	-	Perchlorate	UJ (all non-detects)	A
440-99238-1	MCF-29A-20150116MS/MSD (MCF-29A-20150116 MCF-30B-20150116 MCF-30A-20150116 M-117-20150116 M-121-20150116)	Sulfide	-	67 (70-130)	Sulfide	UJ (all non-detects)	A
440-99312-1	M-190-20150119MS/MSD (M-190-20150119 M-190-20150119-FD M-189-20150119 PC-110-20150119)	Chloride	60 (80-120)	57 (80-120)	Chloride	J- (all detects)	A
440-99312-1	M-193-20150119MS/MSD (M-193-20150119)	Chloride	63 (80-120)	36 (80-120)	Chloride	J- (all detects)	A
440-99312-1	MC-53-20150122MS/MSD (M-190-20150119 M-190-20150119-FD M-189-20150119)	Phosphorus	50 (75-125)	51 (75-125)	Phosphorus	J- (all detects)	A
440-99401-1	HMW-15-20150120MS/MSD (M-161D-20150119 M-118-20150120 M-120-20150120 TR-10-20150120 TR-9-20150120 M-12A-20150120 PC-108-20150120 PC-108-20150120-FD HMW-15-20150120)	Chloride	57 (80-120)	53 (80-120)	Chloride	J- (all detects) UJ (all non-detects)	A
440-99401-1	M-193-20150119MS/MSD (HMW-13-20150120 PC-98R-20150120 PC-103-20150120 PC-68-20150120)	Chloride	63 (80-120)	36 (80-120)	Chloride	J- (all detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Affected Analyte	Flag	A or P
440-99401-1	TR-9-20150120MS/MSD (M-161D-20150119 M-118-20150120 M-120-20150120 TR-10-20150120 TR-9-20150120 M-12A-20150120 PC-108-20150120 PC-108-20150120-FD HMW-15-20150120)	Chloride	50 (80-120)	49 (80-120)	Chloride	J- (all detects)	A
440-99401-1	TR-9-20150120MS/MSD (TR-9-20150120)	Perchlorate	60 (80-120)	57 (80-120)	Perchlorate	J- (all detects)	A
440-99401-1	MCF-29A-20150116MS/D (M-161D-20150119)	Sulfide	-	67 (70-130)	Sulfide	UJ (all non-detects)	A
440-99401-1	PC-98R-20150120MS/MSD (PC-103-20150120 PC-68-20150120)	Sulfide	67 (70-130)	-	Sulfide	UJ (all non-detects)	A
440-99576-1	M-155-20150121MS/MSD (All samples in SDG 440-99576-1)	Chloride Sulfate	79 (80-120) 72 (80-120)	- 77 (80-120)	Chloride Sulfate	J- (all detects) J- (all detects)	A
440-99576-1	PC-98R-20150120MS/MSD (M-155-20150121)	Sulfide	67 (70-130)	-	Sulfide	UJ (all non-detects)	A
440-99577-1	PC-98R-20150120MS/MSD (All samples in SDG 440-99577-1)	Sulfide	67 (70-130)	-	Sulfide	UJ (all non-detects)	A
440-99685-1	PC-4-20150122MS/MSD (PC-4-20150122 PC-132-20150122 PC-127-20150122 PC-127-20150122-FD)	Orthophosphate as P	68 (80-120)	62 (80-120)	Orthophosphate as P	UJ (all non-detects)	A
440-99685-1	MC-53-20150122MS/MSD (PC-2-20150122 PC-53-20150121 PC-126-20150122 M-181-20150121)	Nitrate as NO3	175 (80-120)	163 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J+ (all detects) J+ (all detects)	A
440-99685-1	MC-53-20150122MS/MSD (M-181-20150121)	Bromide	214 (80-120)	206 (80-120)	Bromide	J+ (all detects)	A
440-99685-1	MC-53-20150122MS/MSD (MC-53-20150122)	Perchlorate	45 (80-120)	49 (80-120)	Perchlorate	J- (all detects)	A
440-99685-1	MC-53-20150122MS/MSD (M-181-20150121 M-6A-20150122 MC-53-20150122 MC-53-20150122-FD)	Phosphorus	50 (75-125)	51 (75-125)	Phosphorus	J- (all detects) UJ (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Affected Analyte	Flag	A or P
440-99783-1	. PC-124-20150122MS/MSD (PC-124-20150122 PC-50-20150123 PC-129-20150123 PC-128-20150123)	Orthophosphate as P	77 (80-120)	-	Orthophosphate as P	UJ (all non-detects)	A
440-99862-1	PC-134D-20150126MS/MSD (PC-160-20150126 PC-134D-20150126 PC-137D-20150126 PC-151-20150126 PC-151-20150126-FD PC-153-20150126)	Chloride	55 (80-120)	54 (80-120)	Chloride	J- (all detects)	A
440-99862-1	PC-134D-20150126MS/MSD (PC-134D-20150126 PC-137D-20150126 PC-151-20150126 PC-151-20150126-FD PC-153-20150126)	Sulfide	-	67 (70-130)	Sulfide	UJ (all non-detects)	A
440-99974-1	M-162D-20150127MS/MSD (M-123-20150127 TR-8-20150127 MC-45-20150127** M-162D-20150127)	Sulfate	79 (80-120)	77 (80-120)	Sulfate	J- (all detects)	A
440-99974-1	M-162D-20150127MS/MSD (M-163-20150127 M-125-20150127** M-123-20150127 TR-8-20150127 MC-45-20150127** M-186D-20150126 M-162D-20150127)	Phosphorus	74 (75-125)	69 (75-125)	Phosphorus	J- (all detects) UJ (all non-detects)	A
440-99974-1	M-162D-20150127MS/MSD (MC-45-20150127** M-162D-20150127)	Sulfide	67 (70-130)	-	Sulfide	UJ (all non-detects)	A
440-100079-1	M-77-20150128MS/MSD (MC-50-20150127 M-148A-20150128 M-77-20150128 M-182-20150128 M-164-20150128)	Chloride	71 (80-120)	70 (80-120)	Chloride	J- (all detects)	A
440-100079-1	M-162D-20150127MS/MSD (MC-50-20150127 M-141-20150128 M-141-20150128-FD M-31A-20150128 M-148A-20150128 M-77-20150128 M-182-20150128)	Phosphorus	74 (75-125)	69 (75-125)	Phosphorus	J- (all detects) UJ (all non-detects)	A
440-100079-1	M-162D-20150127MS/MSD (MC-50-20150127)	Sulfide	67 (70-130)	-	Sulfide	UJ (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Affected Analyte	Flag	A or P
440-100230-1	M-124-20150129MS/MSD (M-124-20150129 M-74-20150129 M-133-20150129 M-73-20150129 M-67-20150129)	Nitrate as NO3	73 (80-120)	65 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A
440-100558-1	M-22A-20150202MS/MSD** (M-22A-20150202** M-191-20150202** M-144-20150202**)	Bromide	125 (80-120)	125 (80-120)	Bromide	J+ (all detects)	A
440-100558-1	M-162D-20150127MS/MSD (M-191-20150202** M-192-20150202**)	Sulfide	67 (70-130)	-	Sulfide	UJ (all non-detects)	A
440-100759-1	M-142-20150203MS/MSD (M-142-20150203)	Nitrate as NO3	-	78 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A
440-100759-1	M-142-20150203MS/MSD (All samples in SDG 440-100759-1)	Chloride	-	66 (80-120)	Chloride	J- (all detects)	A
440-100759-1	M-142-20150203MS/MSD (M-13-20150202 M-138-20150203 M-138-20150203-FD M-137-20150203 M-142-20150203 M-115-20150203 M-76-20150203)	Chlorate	-6 (75-125)	-5 (75-125)	Chlorate	J- (all detects)	A
440-100759-1	M-115-20150203MS/MSD (All samples in SDG 440-100759-1)	Chloride	73 (80-120)	74 (80-120)	Chloride	J- (all detects)	A
440-100881-1	M-71-20150204MS/MSD (M-71-20150204** M-75-20150203** M-139-20150204**)	Hexavalent chromium	70 (90-110)	70 (90-110)	Hexavalent chromium	J- (all detects)	A
440-100881-1	M-71-20150204MS/MSD (M-139-20150204**)	Nitrate as NO3	65 (80-120)	59 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A
440-101036-1	M-71-20150204MS/MSD (MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-79-20150205)	Hexavalent chromium	70 (90-110)	70 (90-110)	Hexavalent chromium	J- (all detects) UJ (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Affected Analyte	Flag	A or P
440-101036-1	M-79-20150205MS/MSD (M-2A-20150204 MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-69-20150204 M-134-20150205 M-79-20150205 M-135-20150205)	Nitrate as NO3	45 (80-120)	55 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) UJ (all non-detects) J- (all detects) UJ (all non-detects)	A
440-101036-1	M-55-20150205MS/MSD (M-55-20150205** M-55-20150205-FD)	Cyanide	0 (70-115)	0 (70-115)	Cyanide	R (all non-detects)	A
440-101116-1	M-81A-20150206MS/MSD (M-81A-20150206)	Hexavalent chromium	47 (90-110)	47 (90-110)	Hexavalent chromium	J- (all detects)	A
440-101116-1	M-81A-20150206MS/MSD (M-140-20150206)	Nitrite as N	137 (80-120)	-	Nitrite as N Nitrate/Nitrite as N	J+ (all detects) J+ (all detects)	A
440-101116-1	M-81A-20150206MS/MSD (MW-16-20150205 M-81A-20150206 M-5A-20150206 M-140-20150206)	Nitrate as NO3 Sulfate	- -	62 (80-120) 38 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N Sulfate	J- (all detects) UJ (all non-detects)	A
440-101116-1	M-81A-20150206MS/MSD (MW-16-20150205 M-81A-20150206 M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205 M-126-20150206 M-126-20150206-FD M-5A-20150206 M-57A-20150206 M-57A-20150206-FD M-140-20150206)	Phosphorus	48 (75-125)	46 (75-125)	Phosphorus	J- (all detects) UJ (all non-detects)	A
440-101116-1	M-57A-20150206MS/MSD (M-126-20150206 M-126-20150206-FD M-57A-20150206 M-57A-20150206-FD)	Nitrate as NO3	-	69 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A
440-104147-1	M-190-20150310MS/MSD (M-190-20150310 M-189-20150310 M-191-20150310)	Nitrate as NO3 Bromide	77 (80-120) 78 (80-120)	- -	Nitrate as NO3 Nitrate/Nitrite as N Bromide	J- (all detects) UJ (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Affected Analyte	Flag	A or P
440-104245-1	M-192-20150311MS/MSD (M-186D-20150311 M-192-20150311 M-193-20150311 M-193-20150311-FD)	Nitrate as NO3	-	70 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A
440-104383-1	M-162D-20150312MS/MSD (M-161D-20150312 M-162D-20150312 H-28-20150312)	Sulfate Chloride	72 (80-120) -	65 (80-120) 76 (80-120)	Sulfate Chloride	J- (all detects) J- (all detects)	A
440-108990-1	PC-157B-20150506MS/MSD (PC-157B-20150506 PC-155B-20150506 PC-155A-20150506** PC-156B-20150506 PC-156A-20150506)	Nitrate as NO3	128 (80-120)	124 (80-120)	Nitrate as NO3 Nitrate/Nitrite as N	J+ (all detects) J+ (all detects)	A
440-109157-1	M-38-20150507MS/MSD (M-38-20150507** M-38-20150507-FD)	Nitrate as NO3 Bromide Phosphorus	74 (80-120) 79 (80-120) 46 (75-125)	69 (80-120) 75 (80-120) 46 (75-125)	Nitrate as NO3 Nitrate/Nitrite as N Bromide Phosphorus	J- (all detects) UJ (all non-detects)	A

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	RPD (Limits)	Affected Analyte	Flag	A or P
440-99238-1	MCF-29A-20150116MS/MSD (MCF-29A-20150116 MCF-29B-20150116 MCF-30B-20150116 MCF-30A-20150116)	Perchlorate	24 (≤20)	Perchlorate	UJ (all non-detects)	A
440-101116-1	M-81A-20150206MS/MSD (MW-16-20150205 M-81A-20150206 M-5A-20150206 M-140-20150206)	Nitrite as N	21 (≤20)	Nitrite as N Nitrate/Nitrite as N	J (all detects) UJ (all non-detects)	A

VIII. Duplicates

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples PC-21A-20150112** and PC-21A-20150112-FD** (from SDG 440-98805-1), samples PC-28-20150114 and PC-28-20150114-FD (from SDG 440-99061-1), samples WMW6.15S-20150115 and WMW6.15S-20150115-FD (from SDG 440-99142-1), samples TR-7-20150115 and TR-7-20150115-FD (from SDG 440-99142-1), samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-1), samples PC-108-20150120 and PC-108-20150120-FD (from SDG 440-99401-1), samples PC-127-20150122 and PC-127-20150122-FD (from SDG 440-99685-1), samples MC-53-20150122 and MC-53-20150122-FD (from SDG 440-99685-1), samples PC-151-20150126 and PC-151-20150126-FD (from SDG 440-99862-1), samples M-186-20150126 and M-186-20150126-FD (from SDG 440-99862-1), samples M-141-20150128 and M-141-20150128-FD (from SDG 440-100079-1), samples M-97-20150129 and M-97-20150129-FD (from SDG 440-100230-1), samples M-35-20150129 and M-35-20150129-FD (from SDG 440-100386-1), samples M-138-20150203 and M-138-20150203-FD (from SDG 440-100759-1), samples M-66-20150203 and M-66-20150203-FD (from SDG 440-100759-1), samples M-25-20150203 and M-25-20150203-FD (from SDG 440-100759-1), samples MC-51-20150205 and MC-51-20150205-FD (from SDG 440-101036-1), samples M-55-20150205** and M-55-20150205-FD (from SDG 440-101036-1), samples M-83-20150206 and M-83-20150206-FD (from SDG 440-101116-1), samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-1), samples M-57A-20150206 and M-57A-20150206-FD (from SDG 440-101116-1), samples M-193-20150311 and M-193-20150311-FD (from SDG 440-104245-1), samples PC-158-20150312 and PC-158-20150312-FD (from SDG 440-104519-1) and samples M-38-20150507** and M-38-20150507-FD (from SDG 440-109157-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-21A-20150112**	PC-21A-20150112-FD**			
440-98805-1	Alkalinity as CaCO3	83000 ug/L	83000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	100000 ug/L	100000 ug/L	0 (≤30)	-	-
	Chloride	3400000 ug/L	3400000 ug/L	0 (≤30)	-	-
	Chlorate	300000 ug/L	290000 ug/L	3 (≤30)	-	-
	Nitrate as NO3	140 mg/L	130 mg/L	7 (≤30)	-	-
	Nitrate/Nitrite as N	32000 ug/L	29000 ug/L	10 (≤30)	-	-
	Perchlorate	2400 ug/L	2400 ug/L	0 (≤30)	-	-
	Sulfate	2200000 ug/L	2000000 ug/L	10 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-21A-20150112**	PC-21A-20150112-FD**			
440-98805-1	Total dissolved solids	10000000 ug/L	10000000 ug/L	0 (≤30)	-	-
	Dissolved organic carbon	1300 ug/L	1300 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-28-20150114	PC-28-20150114-FD			
440-99061-1	Alkalinity as CaCO3	99000 ug/L	97000 ug/L	2 (≤30)	-	-
	Bicarbonate ion as HCO3	120000 ug/L	120000 ug/L	0 (≤30)	-	-
	Chloride	480000 ug/L	440000 ug/L	9 (≤30)	-	-
	Chlorate	240000 ug/L	240000 ug/L	0 (≤30)	-	-
	Nitrate as NO3	80 mg/L	75 mg/L	6 (≤30)	-	-
	Nitrate/Nitrite as N	18000 ug/L	17000 ug/L	6 (≤30)	-	-
	Perchlorate	200000 ug/L	210000 ug/L	5 (≤30)	-	-
	Sulfate	2200000 ug/L	2000000 ug/L	10 (≤30)	-	-
	Total dissolved solids	5200000 ug/L	4900000 ug/L	6 (≤30)	-	-
	Dissolved organic carbon	2300 ug/L	2200 ug/L	4 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		WMW6.15S-20150115	WMW6.15S-20150115-FD			
440-99142-1	Alkalinity CaCO3	270000 ug/L	280000 ug/L	4 (≤30)	-	-
	Bicarbonate ion as HCO3	330000 ug/L	340000 ug/L	3 (≤30)	-	-
	Chloride	560000 ug/L	530000 ug/L	6 (≤30)	-	-
	Nitrate as NO3	0.84 mg/L	0.83 mg/L	1 (≤30)	-	-
	Nitrate Nitrie as N	190 ug/L	190 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		WMW6.15S-20150115	WMW6.15S-20150115-FD			
440-99142-1	Perchlorate	690 ug/L	680 ug/L	1 (≤30)	-	-
	Sulfate	770000 ug/L	730000 ug/L	5 (≤30)	-	-
	Total dissolved solids	1300000 ug/L	2600000 ug/L	67 (≤30)	J (all detects)	A
	Dissolved organic carbon	3200 ug/L	3300 ug/L	3 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		TR-7-20150115	TR-7-20150115-FD			
440-99142-1	Bromide	320 ug/L	390 ug/L	20 (≤30)	-	-
	Chloride	180000 ug/L	180000 ug/L	0 (≤30)	-	-
	Hexavalent Chromium	12 ug/L	12 ug/L	0 (≤30)	-	-
	Nitrate as NO3	5.0 mg/L	4.9 mg/L	2 (≤30)	-	-
	Nitrate/Nitrite as N	1100 ug/L	1100 ug/L	0 (≤30)	-	-
	Phosphorus	25U ug/L	31 ug/L	200 (≤30)	NQ	-
	Sulfate	210000 ug/L	210000 ug/L	0 (≤30)	-	-
	Total dissolved solids	770000 ug/L	790000 ug/L	3 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-1	Alkalinity as CaCO3	88000 ug/L	87000 ug/L	1 (≤30)	-	-
	Bicarbonate ion as HCO3	110000 ug/L	110000 ug/L	0 (≤30)	-	-
	Bromide	630 ug/L	620 ug/L	2 (≤30)	-	-
	Chlorate	110000 ug/L	110000 ug/L	0 (≤30)	-	-
	Chloride	240000 ug/L	240000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-1	Hexavalent Chromium	390 ug/L	390 ug/L	0 (≤30)	-	-
	Dissolved organic carbon	690 ug/L	730 ug/L	6 (≤30)	-	-
	Nitrate as NO3	12 mg/L	12 mg/L	0 (≤30)	-	-
	Nitrate/Nitrite as N	5500U ug/L	2700 ug/L	200 (≤30)	NQ	-
	Perchlorate	9400 ug/L	9500 ug/L	1 (≤30)	-	-
	Phosphorus	48 ug/L	33 ug/L	37 (≤30)	J (all detects)	A
	Sulfate	960000 ug/L	960000 ug/L	0 (≤30)	-	-
	Total dissolved solids	2200000 ug/L	2200000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PC-108-20150120	PC-108-20150120-FD			
440-99401-1	Alkalinity as CaCO3	270000	270000	0 (≤30)	-	-
	Bicarbonate ion as HCO3	330000	330000	0 (≤30)	-	-
	Chloride	520000	560000	7 (≤30)	-	-
	Dissolved organic carbon	6600	6600	0 (≤30)	-	-
	Sulfate	590000	620000	5 (≤30)	-	-
	Total dissolved solids	2100000	2100000	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-127-20150122	PC-127-20150122-FD			
440-99685-1	Alkalinity as CaCO3	95000 ug/L	97000 ug/L	2 (≤30)	-	-
	Bicarbonate ion as HCO3	120000 ug/L	120000 ug/L	0 (≤30)	-	-
	Chloride	910000 ug/L	940000 ug/L	3 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-127-20150122	PC-127-20150122-FD			
440-99685-1	Nitrate as NO3	89 mg/L	100 mg/L	12 (≤30)	-	-
	Nitrate/Nitrite as N	20000 ug/L	22000 ug/L	10 (≤30)	-	-
	Sulfate	2000000 ug/L	2100000 ug/L	5 (≤30)	-	-
	Total dissolved solids	6400000 ug/L	6400000 ug/L	0 (≤30)	-	-
	Dissolved organic carbon	1700 ug/L	1800 ug/L	6 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-1	Alkalinity as CaCO3	270000	280000	4 (≤30)	-	-
	Bicarbonate ion as HCO3	330000	340000	3 (≤30)	-	-
	Chlorate	23000	24000	4 (≤30)	-	-
	Chloride	6300000	5700000	10 (≤30)	-	-
	Hexavalent Chromium	8.3	8.3	0 (≤30)	-	-
	Dissolved organic carbon	2200	2200	0 (≤30)	-	-
	Perchlorate	4900	4300	13 (≤30)	-	-
	Phosphorus	110	96	14 (≤30)	-	-
	Sulfate	1900000	1700000	11 (≤30)	-	-
	Total dissolved solids	13000000	14000000	7 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-151-20150126	PC-151-20150126-FD			
440-99862-1	Alkalinity as CaCO3	230000 ug/L	230000 ug/L	0 (≤30)	-	-
	Bicarbonate ion as HCO3	280000 ug/L	280000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-151-20150126	PC-151-20150126-FD			
440-99862-1	Chlorate	7500 ug/L	7100 ug/L	5 (≤30)	-	-
	Chloride	1200000 ug/L	1200000 ug/L	0 (≤30)	-	-
	Nitrate as NO3	32 mg/L	34 mg/L	6 (≤30)	-	-
	Nitrate/Nitrite as N	7300 ug/L	7700 ug/L	5 (≤30)	-	-
	Perchlorate	56000 ug/L	55000 ug/L	2 (≤30)	-	-
	Sulfate	1300000 ug/L	1400000 ug/L	7 (≤30)	-	-
	Total dissolved solids	4400000 ug/L	4500000 ug/L	2 (≤30)	-	-
	Dissolved organic carbon	2100 ug/L	2100 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-186-20150126	M-186-20150126-FD			
440-99862-1	Bromide	13000 ug/L	14000 ug/L	7 (≤30)	-	-
	Chlorate	14000000 ug/L	14000000 ug/L	0 (≤30)	-	-
	Chloride	2000000 ug/L	2000000 ug/L	0 (≤30)	-	-
	Hexavalent Chromium	4400 ug/L	4400 ug/L	0 (≤30)	-	-
	Nitrate as NO3	28 mg/L	30 mg/L	7 (≤30)	-	-
	Nitrate/Nitrite as N	6400 ug/L	6800 ug/L	6 (≤30)	-	-
	Perchlorate	270000 ug/L	250000 ug/L	8 (≤30)	-	-
	Sulfate	830000 ug/L	820000 ug/L	1 (≤30)	-	-
	Total dissolved solids	7000000 ug/L	6900000 ug/L	1 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-141-20150128	M-141-20150128-FD			
440-100079-1	Bromide	2700 ug/L	2900 ug/L	7 (≤30)	-	-
	Chlorate	120000 ug/L	120000 ug/L	0 (≤30)	-	-
	Chloride	510000 ug/L	510000 ug/L	0 (≤30)	-	-
	Hexavalent Chromium	5800 ug/L	5800 ug/L	0 (≤30)	-	-
	Nitrate as NO3	43 mg/L	42 mg/L	2 (≤30)	-	-
	Nitrate/Nitrite as N	9600 ug/L	9600 ug/L	0 (≤30)	-	-
	Perchlorate	380000 ug/L	380000 ug/L	0 (≤30)	-	-
	Sulfate	1600000 ug/L	1600000 ug/L	0 (≤30)	-	-
	Phosphorus	29 ug/L	25U ug/L	200 (≤30)	NQ	-
	Total dissolved solids	6300000 ug/L	6200000 ug/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-97-20150129	M-97-20150129-FD			
440-100230-1	Bromide	2000 ug/L	8400 ug/L	123 (≤30)	J (all detects)	A
	Chlorate	180000 ug/L	180000 ug/L	0 (≤30)	-	-
	Chloride	1200000 ug/L	1200000 ug/L	0 (≤30)	-	-
	Hexavalent Chromium	71 ug/L	72 ug/L	1 (≤30)	-	-
	Nitrate as NO3	35 mg/L	36 mg/L	3 (≤30)	-	-
	Nitrate/Nitrite as N	7900 ug/L	8200 ug/L	4 (≤30)	-	-
	Perchlorate	130000 ug/L	130000 ug/L	0 (≤30)	-	-
	Sulfate	1800000 ug/L	1800000 ug/L	0 (≤30)	-	-
	Total dissolved solids	5300000 ug/L	5100000 ug/L	4 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-35-20150129	M-35-20150129-FD			
440-100386-1	Ammonia as N	120 ug/L	110 ug/L	9 (≤30)	J (all detects)	A
	Chlorate	920000 ug/L	920000 ug/L	0 (≤30)	-	-
	Chloride	460000 ug/L	450000 ug/L	2 (≤30)	-	-
	Hexavalent Chromium	4800 ug/L	4800 ug/L	0 (≤30)	-	-
	Nitrate as NO3	25 mg/L	26 mg/L	4 (≤30)	-	-
	Nitrate/Nitrite as N	5600 ug/L	5800 ug/L	4 (≤30)	-	-
	Perchlorate	160000 ug/L	150000 ug/L	6 (≤30)	-	-
	Sulfate	1700000 ug/L	1700000 ug/L	0 (≤30)	-	-
	Total dissolved solids	5300000 ug/L	5400000 ug/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-138-20150203	M-138-20150203-FD			
440-100759-1	Bromide	530 ug/L	820 ug/L	43 (≤30)	NQ	-
	Chlorate	12000 ug/L	11000 ug/L	9 (≤30)	-	-
	Chloride	130000 ug/L	130000 ug/L	0 (≤30)	-	-
	Hexavalent chromium	62 ug/L	62 ug/L	0 (≤30)	-	-
	Nitrate as NO3	9.7 mg/L	9.6 mg/L	1 (≤30)	-	-
	Nitrate/Nitrite as N	2200 ug/L	2200 ug/L	0 (≤30)	-	-
	Perchlorate	1400 ug/L	1500 ug/L	7 (≤30)	-	-
	Sulfate	1100000 ug/L	1100000 ug/L	0 (≤30)	-	-
	Total phosphorus	30 ug/L	35 ug/L	15 (≤30)	-	-
	Total dissolved solids	2300000 ug/L	2300000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-1	Ammonia as N	14000 ug/L	14000 ug/L	0 (≤30)	-	-
	Chlorate	4400000 ug/L	4300000 ug/L	2 (≤30)	-	-
	Chloride	1600000 ug/L	1800000 ug/L	12 (≤30)	-	-
	Hexavalent chromium	20000 ug/L	20000 ug/L	0 (≤30)	-	-
	Nitrite as N	7000 ug/L	7800 ug/L	11 (≤30)	-	-
	Nitrate as NO3	280 mg/L	280 mg/L	0 (≤30)	-	-
	Nitrate/Nitrite as N	70000 ug/L	72000 ug/L	3 (≤30)	-	-
	Perchlorate	2300000 ug/L	2300000 ug/L	0 (≤30)	-	-
	Sulfate	1400000 ug/L	1500000 ug/L	7 (≤30)	-	-
	Total dissolved solids	15000000 ug/L	16000000 ug/L	6 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-25-20150203	M-25-20150203-FD			
440-100759-1	Bromide	6600 ug/L	6000 ug/L	10 (≤30)	-	-
	Chlorate	1900000 ug/L	1900000 ug/L	0 (≤30)	-	-
	Chloride	1100000 ug/L	1200000 ug/L	9 (≤30)	-	-
	Hexavalent chromium	7500 ug/L	37 ug/L	198 (≤30)	J (all detects)	A
	Nitrate as NO3	110 mg/L	120 mg/L	9 (≤30)	-	-
	Nitrate/Nitrite as N	24000 ug/L	26000 ug/L	8 (≤30)	-	-
	Perchlorate	430000 ug/L	470000 ug/L	9 (≤30)	-	-
	Sulfate	1200000 ug/L	1200000 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-25-20150203	M-25-20150203-FD			
440-100759-1	Ammonia as N	610 ug/L	610 ug/L	0 (≤30)	-	-
	Total dissolved solids	7500000 ug/L	7700000 ug/L	3 (≤30)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		MC-51-20150205	MC-51-20150205-FD			
440-101036-1	Chloride	8400000	7900000	6 (≤30)	-	-
	Perchlorate	12	10	18 (≤30)	-	-
	Sulfate	2300000	2100000	9 (≤30)	-	-
	Phosphorus	150	160	6 (≤30)	-	-
	Total dissolved solids	16000000	16000000	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-1	Ammonia as N	2700 ug/L	2600 ug/L	4 (≤30)	-	-
	Bromide	1500 ug/L	7000 ug/L	129 (≤30)	NQ	-
	Nitrite as N	3800 ug/L	6400 ug/L	51 (≤30)	J (all detects)	A
	Chlorate	310000 ug/L	320000 ug/L	3 (≤30)	-	-
	Chloride	690000 ug/L	670000 ug/L	3 (≤30)	-	-
	Nitrate as NO3	250 mg/L	240 mg/L	4 (≤30)	-	-
	Nitrate/Nitrite as N	60000 ug/L	60000 ug/L	0 (≤30)	-	-
	Perchlorate	510000 ug/L	510000 ug/L	0 (≤30)	-	-
	Sulfate	880000 ug/L	870000 ug/L	1 (≤30)	-	-
	Total dissolved solids	3500000 ug/L	4000000 ug/L	13 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-1	Hexavalent chromium	1100 ug/L	1100 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-1	Chloride	5600000 ug/L	5800000 ug/L	4 (≤30)	-	-
	Nitrate as NO3	15 mg/L	20 mg/L	29 (≤30)	-	-
	Nitrate/Nitrite as N	3300 ug/L	4600 ug/L	33 (≤30)	J (all detects)	A
	Sulfate	1500000 ug/L	1600000 ug/L	6 (≤30)	-	-
	Total dissolved solids	14000000 ug/L	13000000 ug/L	7 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-57A-20150206	M-57A-20150206-FD			
440-101116-1	Bromide	5600	5900 ug/L	5 (≤30)	-	-
	Total phosphorus	25U ug/L	28 ug/L	200 (≤30)	NQ	-
	Chlorate	17000 ug/L	16000 ug/L	6 (≤30)	-	-
	Chloride	760000 ug/L	740000 ug/L	3 (≤30)	-	-
	Nitrate as NO3	41 mg/L	43 mg/L	5 (≤30)	-	-
	Nitrate/Nitrite as N	9200 ug/L	9700 ug/L	5 (≤30)	-	-
	Perchlorate	34000 ug/L	34000 ug/L	0 (≤30)	-	-
	Sulfate	1100000 ug/L	1100000 ug/L	0 (≤30)	-	-
	Total dissolved solids	3400000 ug/L	2800000 ug/L	19 (≤30)	-	-
	Hexavalent chromium	53 ug/L	53 ug/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-193-20150311	M-193-20150311-FD			
440-104245-1	Bromide	2000 ug/L	2000 ug/L	0 (≤30)	-	-
	Chlorate	170000 ug/L	170000 ug/L	0 (≤30)	-	-
	Chloride	280000 ug/L	290000 ug/L	4 (≤30)	-	-
	Hexavalent chromium	380 ug/L	380 ug/L	0 (≤30)	-	-
	Nitrate as NO3	16 mg/L	16 mg/L	0 (≤30)	-	-
	Nitrate/Nitrite as N	3600 ug/L	3600 ug/L	0 (≤30)	-	-
	Perchlorate	400000 ug/L	390000 ug/L	3 (≤30)	-	-
	Sulfate	1000000 ug/L	1100000 ug/L	10 (≤30)	-	-
	Phosphorus	56 ug/L	46 ug/L	20 (≤30)	-	-
	Total dissolved solids	2900000 ug/L	3100000 ug/L	7 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-158-20150312	PC-158-20150312-FD			
440-104519-1	pH	7.6 SU	7.5 SU	1 (≤30)	-	-
	Perchlorate	49000 ug/L	49000 ug/L	0 (≤30)	-	-
	Total dissolved solids	5600000 ug/L	5800000 ug/L	4 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-38-20150507**	M-38-20150507-FD			
440-109157-1	Hexavalent chromium	17000 ug/L	17000 ug/L	0 (≤30)	-	-
	Bromide	7500 ug/L	7500 ug/L	0 (≤30)	-	-
	Chlorate	4400000 ug/L	4400000 ug/L	0 (≤30)	-	-
	Chloride	1200000 ug/L	1100000 ug/L	9 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-38-20150507**	M-38-20150507-FD			
440-109157-1	Nitrate/Nitrite as N	23000 ug/L	23000 ug/L	0 (≤30)	-	-
	Ammonia as N	4700 ug/L	4700 ug/L	0 (≤30)	-	-
	Nitrate as NO3	100 mg/L	100 mg/L	0 (≤30)	-	-
	Perchlorate	700000 ug/L	690000 ug/L	1 (≤30)	-	-
	Sulfate	1400000 ug/L	1300000 ug/L	7 (≤30)	-	-
	Total dissolved solids	11000000 ug/L	11000000 ug/L	0 (≤30)	-	-
	Phosphorus	25U ug/L	30 ug/L	200 (≤30)	NQ	-

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

XI. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

Due to severe problems with MS/MSD %R, data were rejected in two samples.

Due to technical holding time, MS/MSD %R and RPD, and field duplicate RPD, data were qualified as estimated in one hundred and eighty-two samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are not useable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Wet Chemistry - Data Qualification Summary - SDGs 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99576-1, 440-99577-1, 440-99685-1, 440-99783-1, 440-99312-1, 440-99401-1, 440-99862-1, 440-99974-1, 440-100079-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-100759-1, 440-100881-1, 440-100904-1, 440-101116-1, 440-101036-1, 440-104147-1, 440-104245-1, 440-104383-1, 440-104519-1

Sample	Sample	Analyte	Flag	A or P	Reason (Code)
440-99142-1	TR-6-20150115	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-99238-1	M-117-20150116 M-121-20150116	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-99312-1	M-190-20150119 M-190-20150119-FD	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-99401-1	M-161D-20150119 TR-10-20150120	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-99685-1	M-181-20150121	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-99974-1	M-163-20150127 M-186D-20150126 M-162D-20150127	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-100079-1	MC-50-20150127 MC-50-20150127-EB M-141-20150128 M-141-20150128-FD M-31A-20150128 M-148A-20150128	Hexavalent chromium	J- (all detects) UJ (all non-detects)	P	Technical holding time (h)
440-100230-1	M-74-20150129 M-133-20150129	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-100386-1	M-37-20150129 M-128-20150130 M-35-20150129 M-35-20150129-FD M-11-20150130 M-52-20150130	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)

Sample	Sample	Analyte	Flag	A or P	Reason (Code)
440-100759-1	M-13-20150202 M-65-20150203 M-66-20150203 M-66-20150203-FD	Hexavalent chromium	J- (all detects) UJ (all non-detects)	P	Technical holding time (h)
440-100759-1	M-142-20150203	Hexavalent chromium Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects) J- (all detects)	P	Technical holding time (h)
440-100881-1	M-71-20150204** M-75-20150203** M-132-20150204** M-68-20150204** M-147-20150204**	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-101036-1	M-2A-20150204 MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-69-20150204 M-134-20150205 M-134-20150205-FB M-134-20150205-EB M-79-20150205	Hexavalent chromium	J- (all detects) UJ (all non-detects)	P	Technical holding time (h)
440-100759-1	M-69-20150204	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	P	Technical holding time (h)
440-101036-1	M-2A-20150204 M-69-20150204 MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-7B-20150205-FB M-134-20150205 M-134-20150205-FB M-134-20150205-EB M-79-20150205 M-135-20150205	Total dissolved solids	J- (all detects) UJ (all non-detects)	P	Technical holding time (h)

Sample	Sample	Analyte	Flag	A or P	Reason (Code)
440-101116-1	MW-16-20150205 M-81A-20150206 M-81A-20150206-FB M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205 M-126-20150206 M-126-20150206-FD M-5A-20150206 M-5A-20150206-FB M-57A-20150206 M-57A-20150206-FD M-140-20150206	Hexavalent chromium	J- (all detects) UJ (all non-detects)	P	Technical holding time (h)
440-104245-1	M-186D-20150311 M-186D-20150311-FB	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-104383-1	M-161D-20150312	Hexavalent chromium	J- (all detects)	P	Technical holding time (h)
440-104383-1	PC-159-20150311 PC-154-20150312	pH	J (all detects)	P	Technical holding time (h)
440-104519-1	PC-160-20150312** PC-158-20150312 PC-158-20150312-FD	pH	J (all detects)	P	Technical holding time (h)
440-98909-1	PC-40-20150113 PC-54-20150113 PC-64-20150113 PC-65-20150113 M-161-20150113 M-162-20150113	Chloride	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-98909-1	PC-64-20150113 PC-65-20150113	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99061-1	TR-1-20150114** TR-2-20150114 TR-4-20150114 TR-5-20150114 PC-66-20150114 PC-67-20150114	Chloride Sulfate	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99061-1	PC-28-20150114 PC-28-20150114-FD BHEI-10-20150114 PC-24-20150114	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

Sample	Sample	Analyte	Flag	A or P	Reason (Code)
440-99061-1	PC-66-20150114 PC-67-20150114	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99142-1	WMW5.58S-20150115 WMW6.15S-20150115 WMW6.15S-20150115-FD WMW6.55S-20150115 TR-3-20150115 TR-11-20150115 TR-7-20150115 TR-6-20150115 TR-7-20150115-FD	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99238-1	MCF-29B-20150116 MCF-29A-20150116 MCF-30B-20150116 MCF-30A-20150116	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99238-1	MCF-29A-20150116 MCF-30B-20150116 MCF-30A-20150116 M-117-20150116 M-121-20150116	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99312-1	M-190-20150119 M-190-20150119-FD M-189-20150119 PC-110-20150119 M-193-20150119	Chloride	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99312-1	M-190-20150119 M-190-20150119-FD M-189-20150119	Phosphorus	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99401-1	M-161D-20150119 M-118-20150120 M-120-20150120 TR-10-20150120 TR-9-20150120 M-12A-20150120 PC-108-20150120 PC-108-20150120-FD HMW-15-20150120 HMW-13-20150120 PC-98R-20150120 PC-103-20150120 PC-68-20150120	Chloride	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99401-1	TR-9-20150120	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99401-1	M-161D-20150119 PC-103-20150120 PC-68-20150120	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

Sample	Sample	Analyte	Flag	A or P	Reason (Code)
440-99576-1	M-155-20150121 M-151-20150121 M-165-20150121	Chloride Sulfate	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99576-1	M-155-20150121	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99577-1	PC-60-20150121 PC-56-20150121 PC-58-20150121 PC-94-20150121 PC-59-20150120 PC-107-20150121	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99685-1	PC-4-20150122 PC-132-20150122 PC-127-20150122 PC-127-20150122-FD	Orthophosphate as P	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99685-1	PC-2-20150122 PC-53-20150121 PC-126-20150122 M-181-20150121	Nitrate as NO3 Nitrate/Nitrite as N	J+ (all detects) J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99685-1	M-181-20150121	Bromide	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99685-1	MC-53-20150122	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99685-1	M-181-20150121 M-6A-20150122 MC-53-20150122 MC-53-20150122-FD	Phosphorus	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99783-1	PC-124-20150122 PC-50-20150123 PC-129-20150123 PC-128-20150123	Orthophosphate as P	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99862-1	PC-160-20150126 PC-134D-20150126 PC-137D-20150126 PC-151-20150126 PC-151-20150126-FD PC-153-20150126	Chloride	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99862-1	PC-134D-20150126 PC-137D-20150126 PC-151-20150126 PC-151-20150126-FD PC-153-20150126	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

Sample	Sample	Analyte	Flag	A or P	Reason (Code)
440-99974-1	M-123-20150127 TR-8-20150127 MC-45-20150127** M-162D-20150127	Sulfate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99974-1	M-163-20150127 M-125-20150127** M-123-20150127 TR-8-20150127 MC-45-20150127** M-186D-20150126 M-162D-20150127	Phosphorus	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99974-1	MC-45-20150127** M-162D-20150127	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100079-1	MC-50-20150127 M-148A-20150128 M-77-20150128 M-182-20150128 M-164-20150128	Chloride	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100079-1	MC-50-20150127 M-141-20150128 M-141-20150128-FD M-31A-20150128 M-148A-20150128 M-77-20150128 M-182-20150128	Phosphorus	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100079-1	MC-50-20150127	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100230-1	M-124-20150129 M-74-20150129 M-133-20150129 M-73-20150129 M-67-20150129	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100558-1	M-22A-20150202** M-191-20150202** M-144-20150202**	Bromide	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100558-1	M-191-20150202** M-192-20150202**	Sulfide	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100759-1	M-142-20150203	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

Sample	Sample	Analyte	Flag	A or P	Reason (Code)
440-100759-1	M-13-20150202 M-138-20150203 M-138-20150203-FD M-137-20150203 M-142-20150203 M-115-20150203 M-76-20150203 M-65-20150203 M-66-20150203 M-66-20150203-FD M-25-20150203 M-25-20150203-FD	Chloride	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100759-1	M-13-20150202 M-138-20150203 M-138-20150203-FD M-137-20150203 M-142-20150203 M-115-20150203 M-76-20150203	Chlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100881-1	M-71-20150204** M-75-20150203** M-139-20150204**	Hexavalent chromium	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-100881-1	M-139-20150204**	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101036-1	MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-79-20150205	Hexavalent chromium	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101036-1	M-2A-20150204 MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-69-20150204 M-134-20150205 M-79-20150205 M-135-20150205	Nitrate as NO3 Nitrate/Nitrite as N	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101036-1	M-55-20150205** M-55-20150205-FD	Cyanide	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101116-1	M-81A-20150206	Hexavalent chromium	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

Sample	Sample	Analyte	Flag	A or P	Reason (Code)
440-101116-1	M-140-20150206	Nitrite as N Nitrate/Nitrite as N	J+ (all detects) J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101116-1	MW-16-20150205 M-81A-20150206 M-5A-20150206 M-140-20150206	Nitrate as NO3 Nitrate/Nitrite as N Sulfate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101116-1	MW-16-20150205 M-81A-20150206 M-80-20150206 M-83-20150206 M-83-20150206-FD M-136-20150205 M-126-20150206 M-126-20150206-FD M-5A-20150206 M-57A-20150206 M-57A-20150206-FD M-140-20150206	Phosphorus	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-101116-1	M-126-20150206 M-126-20150206-FD M-57A-20150206 M-57A-20150206-FD	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-104147-1	M-190-20150310 M-189-20150310 M-191-20150310	Nitrate as NO3 Nitrate/Nitrite as N Bromide	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-104245-1	M-186D-20150311 M-192-20150311 M-193-20150311 M-193-20150311-FD	Nitrate as NO3 Nitrate/Nitrite as N	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-104383-1	M-161D-20150312 M-162D-20150312 H-28-20150312	Chloride Sulfate	J- (all detects) J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-108990-1	PC-157B-20150506 PC-155B-20150506 PC-155A-20150506** PC-156B-20150506 PC-156A-20150506	Nitrate as NO3 Nitrate/Nitrite as N	J+ (all detects) J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-109157-1	M-38-20150507** M-38-20150507-FD	Nitrate as NO3 Nitrate/Nitrite as N Bromide Phosphorus	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-99238-1	MCF-29A-20150116 MCF-29B-20150116 MCF-30B-20150116 MCF-30A-20150116	Perchlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (ld)

Sample	Sample	Analyte	Flag	A or P	Reason (Code)
440-101116-1	MW-16-20150205 M-81A-20150206 M-5A-20150206 M-140-20150206	Nitrite as N Nitrate/Nitrite as N	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (ld)
440-99142-1	WMW6.15S-20150115 WMW6.15S-20150115-FD	Total dissolved solids	J (all detects)	A	Field duplicates (RPD) (fd)
440-100230-1	M-97-20150129 M-97-20150129-FD	Bromide	J (all detects)	A	Field duplicates (RPD) (fd)
440-100759-1	M-25-20150203 M-25-20150203-FD	Hexavalent chromium	J (all detects)	A	Field duplicates (RPD) (fd)
440-101116-1	M-83-20150206 M-83-20150206-FD	Nitrite as N	J (all detects)	A	Field duplicates (RPD) (fd)
440-101116-1	M-126-20150206 M-126-20150206-FD	Nitrate/Nitrite as N	J (all detects)	A	Field duplicates (RPD) (fd)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDGs 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99576-1, 440-99577-1, 440-99685-1, 440-99783-1, 440-99312-1, 440-99401-1, 440-99862-1, 440-99974-1, 440-100079-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-100759-1, 440-100881-1, 440-100904-1, 440-101116-1, 440-101036-1, 440-104147-1, 440-104245-1, 440-104383-1, 440-104519-1

No Sample Data Qualified in these SDGs

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Wet Chemistry - Field Blank Data Qualification Summary - SDGs 440-98805-1, 440-98909-1, 440-99061-1, 440-99142-1, 440-99238-1, 440-99576-1, 440-99577-1, 440-99685-1, 440-99783-1, 440-99312-1, 440-99401-1, 440-99862-1, 440-99974-1, 440-100079-1, 440-100230-1, 440-100386-1, 440-100558-1, 440-100759-1, 440-100881-1, 440-100904-1, 440-101116-1, 440-101036-1, 440-104147-1, 440-104245-1, 440-104383-1, 440-104519-1

No Sample Data Qualified in these SDGs

Radium-226 by EPA Method 903.0

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration were met.

Counting and detector efficiency were determined for each detector and each radionuclide.

Self absorption curves were generated for each sample when applicable.

III. Calibration Verification

Continuing calibration and background determination was performed at the required frequencies. Results were within QC limits.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. Blank results contained less than the minimum detectable activity (MDA) with the following exceptions:

SDG	Method Blank ID	Isotope	Activity	Associated Samples
440-99312-2	PB (prep blank)	Radium-226	0.08132 pCi/L	All samples in SDG 440-99312-2
440-99401-2	PB (prep blank)	Radium-226	0.08132 pCi/L	All samples in SDG 440-99401-2

Sample activities were compared to activities detected in the laboratory blanks. The sample activities were either not detected or were significantly greater than the activities found in the associated laboratory blanks with the following exceptions:

SDG	Sample	Isotope	Reported Activity	Modified Final Activity
440-99312-2	M-190-20150119	Radium-226	0.188 pCi/L	0.188J pCi/L
440-99312-2	M-190-20150119-FD	Radium-226	0.198 pCi/L	0.198J pCi/L
440-99312-2	M-189-20150119	Radium-226	0.260 pCi/L	0.260J pCi/L

SDG	Sample	Isotope	Reported Activity	Modified Final Activity
440-99401-2	M-161D-20150119	Radium-226	0.109 pCi/L	0.109J pCi/L
440-99401-2	M-118-20150120	Radium-226	0.106 pCi/L	0.106J pCi/L
440-99401-2	M-120-20150120	Radium-226	0.174 pCi/L	0.174J pCi/L
440-99401-2	TR-10-20150120	Radium-226	0.187 pCi/L	0.187J pCi/L
440-99401-2	M-12A-20150120	Radium-226	0.567 pCi/L	0.567J pCi/L

V. Field Blanks

Samples M-12A-20150120-EB (from SDG 440-99401-2), MC-50-20150127-EB (from SDG 440-100079-2), M-73-20150129-EB (from SDG 440-100230-2), M-191-20150202-EB** (from SDG 440-100558-2), M-139-20150204-EB** (from SDG 440-100881-2), M-134-20150205-EB (from SDG 440-101036-2), and M-189-20150310-EB (from SDG 440-104147-2) were identified as equipment blanks. No contaminants were found.

Samples M-6A-20150122-FB (from SDG 440-99685-2), TR-9-20150120-FB (from SDG 440-99401-2), M-162D-20150127-FB (from SDG 440-99974-2), M-77-20150120-FB (from SDG 440-100079-2), M-7B-20150205-FB (from SDG 440-101036-2) and M-134-20150205-FB (from SDG 440-101036-2), M-81A-20150206-FB (from SDG 440-101116-2), M-5A-20150206-FB (from SDG 440-101116-2), M-186D-20150311-FB (from SDG 440-104245-2) and M-38-20150507-FB (from SDG 440-109157-2) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Sampling Date	Isotope	Activity	Associated Samples
440-100079-2	M-77-20150128-FB	0128/15	Radium-226	0.108 pCi/L	M-77-20150128
440-101036-2	M-7B-20150205-FB	02/05/15	Radium-226	0.105 pCi/L	M-7B-20150205

Sample activities were compared to activities detected in the field blanks. The sample activities were either not detected or were significantly greater than the activities found in the associated field blanks with the following exceptions:

SDG	Sample	Isotope	Reported Activity	Modified Final Activity
440-100079-2	M-77-20150128	Radium-226	0.295 pCi/L	0.295J pCi/L
440-101036-2	M-7B-20150205	Radium-226	0.700 pCi/L	0.700J pCi/L

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicates

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits with the following exceptions:

SDG	DUP ID (Associated Samples)	Isotope	RER (Limits)	Flag	A or P
440-100759-2	M-142-20150203DUP (M-142-20150203)	Radium-226	1.04 (≤1.0)	UJ (all non-detects)	A

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples TR-7-20150115 and TR-7-20150115-FD (from SDG 440-99142-2), samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-2), samples MC-53-20150122 and MC-53-20150122-FD (from SDG 440-99685-2), samples M-186-20150126 and M-186-20150126-FD (from SDG 440-99862-2), samples M-141-20150128 and M-141-20150128-FD (from SDG 440-100079-2), samples M-97-20150129 and M-97-20150129-FD (from SDG 440-100230-2), samples M-35-20150129 and M-35-20150129-FD (from SDG 440-100386-2), samples M-138-20150203 and M-138-20150203-FD (from SDG 440-100759-2), samples M-66-20150203 and M-66-20150203-FD (from SDG 440-100759-2), samples M-25-20150203 and M-25-20150203-FD (from SDG 440-100759-2), samples MC-51-20150205 and MC-51-20150205-FD (from SDG 440-101036-2), samples M-83-20150206 and M-83-20150206-FD (from SDG 440-101116-2), samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-2), samples M-57A-20150206 and M-57A-20150206-FD (from SDG 440-101116-2), samples M-193-20150311 and M-193-20150311-FD (from SDG 440-104245-2) and samples M-38-20150507** and M-38-20150507-FD (from SDG 440-109157-2) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-2	Radium-226	0.188	0.198	5 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-2	Radium-226	0.406	0.339	18 (≤30)	-	-

SDG	Isotope	Concentration (pCi/L)		RPD (Limits)	Flag	A or P
		M-186-20150126	M-186-20150126-FD			
440-99862-2	Radium-226	0.202	0.166	20 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-141-20150128	M-141-20150128-FD			
440-100079-2	Radium-226	0.229	0.179	25 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-97-20150129	M-97-20150129-FD			
440-100230-2	Radium-226	0.510	0.464	9 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-35-20150129	M-35-20150129-FD			
440-100386-2	Radium-226	1.34	1.08	21 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-138-20150203	M-138-20150203-FD			
440-100759-2	Radium-226	0.105	0.149	35 (≤30)	J (all detects)	A

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-2	Radium-226	0.613	0.544	12 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-25-20150203	M-25-20150203-FD			
440-100759-2	Radium-226	0.679	0.778	14 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		MC-51-20150205	MC-51-20150205-FD			
440-101036-2	Radium-226	0.175	0.169	3 (≤30)	-	-

SDG	Isotope	Concentration (pCi/L)		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-2	Radium-226	0.139U	0.263	200 (≤30)	NQ	-

SDG	Isotope	Concentration (pCi/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-2	Radium-226	2.82	2.75	3 (≤30)	-	-

SDG	Isotope	Concentration (pCi/L)		RPD (Limits)	Flag	A or P
		M-57A-20150206	M-57A-20150206-FD			
440-101116-2	Radium-226	0.490	0.813	50 (≤30)	J (all detects)	A

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

X. Carrier Recovery

All carrier recoveries were within QC limits with the following exceptions:

SDG	Sample ID	Carrier Isotope	%R (Limits)	Affected Isotope	Flag	A or P
440-100079-2	M-182-20150128	Barium	117 (40-110)	Radium-226	J (all detects)	A
440-100230-2	M-124-20150129	Barium	112 (40-110)	Radium-226	J (all detects)	A

SDG	Sample ID	Carrier Isotope	%R (Limits)	Affected Isotope	Flag	A or P
440-100759-2	M-138-20150203	Barium	116 (40-110)	Radium-226	J (all detects)	A
440-100759-2	M-142-20150203	Barium	116 (40-110)	Radium-226	UJ (all non-detects)	A
440-100759-2	M-65-20150203	Barium	111 (40-110)	Radium-226	J (all detects)	A
440-100759-2	M-66-20150203	Barium	114 (40-110)	Radium-226	J (all detects)	A
440-100881-2	M-139-20150204-EB**	Barium	113 (40-110)	Radium-226	UJ (all non-detects)	A
440-101036-2	MC-51-20150205-FD	Barium	112 (40-110)	Radium-226	J (all detects)	A
440-101036-2	MC-97-20150205	Barium	115 (40-110)	Radium-226	J (all detects)	A
440-101036-2	M-134-20150205-FB	Barium	114 (40-110)	Radium-226	UJ (all non-detects)	A
440-101036-2	M-134-20150205-EB	Barium	112 (40-110)	Radium-226	UJ (all non-detects)	A
440-101116-2	MW-16-20150205	Barium	111 (40-110)	Radium-226	J (all detects)	A
440-101116-2	M-126-20150206	Barium	116 (40-110)	Radium-226	J (all detects)	A
440-101116-2	M-126-20150206-FD	Barium	122 (40-110)	Radium-226	J (all detects)	A
440-101116-2	M-5A-20150206	Barium	115 (40-110)	Radium-226	J (all detects)	A
440-101116-2	M-57A-20150206	Barium	111 (40-110)	Radium-226	J (all detects)	A

XI. Minimum Detectable Activity

All minimum detectable activities met required detection limits.

XII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to DUP RER, field duplicates RPD, and carrier recovery %R, data were qualified as estimated in eighteen samples.

Due to laboratory blank contamination, data were qualified as estimated in eight samples.

Due to field blank contamination, data were qualified as estimated in two samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Radium-226 - Data Qualification Summary - SDGs 440-99061-2, 440-98805-2, 440-98909-2, 440-99142-2, 440-99238-2, 440-99576-2, 440-99685-2, 440-99312-2, 440-99401-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-99862-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Isotope	Flag	A or P	Reason (Code)
440-100759-2	M-142-20150203	Radium-226	UJ (all non-detects)	A	Duplicate sample analysis (RER) (ld)
440-100759-2	M-138-20150203 M-138-20150203-FD	Radium-226	J (all detects)	A	Field duplicates (RPD) (fd)
440-101116-2	M-57A-20150206 M-57A-20150206-FD	Radium-226	J (all detects)	A	Field duplicates (RPD) (fd)
440-100079-2	M-182-20150128	Radium-226	J (all detects)	A	Carrier recovery (%R) (o)
440-100230-2	M-124-20150129	Radium-226	J (all detects)	A	Carrier recovery (%R) (o)
440-100759-2	M-138-20150203 M-142-20150203 M-65-20150203 M-66-20150203	Radium-226	J (all detects) UJ (all non-detects)	A	Carrier recovery (%R) (o)
440-100881-2	M-139-20150204-EB**	Radium-226	UJ (all non-detects)	A	Carrier recovery (%R) (o)
440-101036-2	MC-51-20150205-FD MC-97-20150205 M-134-20150205-FB M-134-20150205-EB	Radium-226	J (all detects) UJ (all non-detects)	A	Carrier recovery (%R) (o)
440-101116-2	MW-16-20150205 M-126-20150206 M-126-20150206-FD M-5A-20150206 M-57A-20150206	Radium-226	J (all detects)	A	Carrier recovery (%R) (o)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Radium-226 - Laboratory Blank Data Qualification Summary - SDGs 440-99061-2, 440-98805-2, 440-98909-2, 440-99142-2, 440-99238-2, 440-99576-2, 440-99685-2, 440-99312-2, 440-99401-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-99862-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Isotope	Modified Final Activity	A or P	Code
440-99312-2	M-190-20150119	Radium-226	0.188J pCi/L	A	bl
440-99312-2	M-190-20150119-FD	Radium-226	0.198J pCi/L	A	bl
440-99312-2	M-189-20150119	Radium-226	0.260J pCi/L	A	bl
440-99401-2	M-161D-20150119	Radium-226	0.109J pCi/L	A	bl
440-99401-2	M-118-20150120	Radium-226	0.106J pCi/L	A	bl
440-99401-2	M-120-20150120	Radium-226	0.174J pCi/L	A	bl
440-99401-2	TR-10-20150120	Radium-226	0.187J pCi/L	A	bl
440-99401-2	M-12A-20150120	Radium-226	0.567J pCi/L	A	bl

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Radium-226 - Field Blank Data Qualification Summary - SDGs 440-99061-2, 440-98805-2, 440-98909-2, 440-99142-2, 440-99238-2, 440-99576-2, 440-99685-2, 440-99312-2, 440-99401-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-99862-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Isotope	Modified Final Activity	A or P	Code
440-100079-2	M-77-20150128	Radium-226	0.295J pCi/L	A	bf
440-101036-2	M-7B-20150205	Radium-226	0.700J pCi/L	A	bf

Radium-228 by EPA Method 904.0

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration were met.

All criteria for the initial calibration were met.

Detector efficiency was determined for each radionuclide of interest.

Self absorption curves were generated for each sample when applicable.

III. Calibration Verification

Continuing calibration and background determination was performed at the required frequencies. Results were within QC limits.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. Blank results contained less than the minimum detectable activity (MDA) with the following exceptions:

SDG	Method Blank ID	Isotope	Activity	Associated Samples
440-100386-2	PB (prep blank)	Radium-228	0.4979 pCi/L	All samples in SDG 440-100386-2
440-100558-2	PB (prep blank)	Radium-228	0.4979 pCi/L	All samples in SDG 440-100558-2
440-104147-2	PB (prep blank)	Radium-228	0.3155 pCi/L	All samples in SDG 440-104147-2

Sample activities were compared to activities detected in the laboratory blanks. The sample activities were either not detected or were significantly greater than the activities found in the associated laboratory blanks with the following exceptions:

SDG	Sample	Isotope	Reported Activity	Modified Final Activity
440-100386-2	M-37-20150129	Radium-228	0.576 pCi/L	0.576J pCi/L

SDG	Sample	Isotope	Reported Activity	Modified Final Activity
440-100386-2	M-128-20150130	Radium-228	0.625 pCi/L	0.625J pCi/L
440-100386-2	M-146-20150130	Radium-228	0.494 pCi/L	0.494J pCi/L
440-100386-2	M-11-20150130	Radium-228	0.389 pCi/L	0.389J pCi/L
440-100558-2	M-191-20150202**	Radium-228	0.436 pCi/L	0.436J pCi/L
440-104147-2	M-189-20150310	Radium-228	0.345 pCi/L	0.345J pCi/L

V. Field Blanks

Samples M-12A-20150120-EB (from SDG 440-99401-2), MC-50-20150127-EB (from SDG 440-100079-2), M-73-20150129-EB (from SDG 440-100230-2), M-191-20150202-EB** (from SDG 440-100558-2), M-139-20150204-EB** (from SDG 440-100881-2), M-134-20150205-EB (from SDG 440-101036-2), and M-189-20150310-EB (from SDG 440-104147-2) were identified as equipment blanks. No contaminants were found.

Samples TR-9-20150120-FB (from SDG 440-99401-2), M-6A-20150122-FB (from SDG 440-99685-2), M-162D-20150127-FB (from SDG 440-99974-2), M-77-20150128-FB (from SDG 440-100079-2), M-7B-20150205-FB (from SDG 440-101036-2), M-134-20150205-FB (from SDG 440-101036-2), M-81A-20150206-FB (from SDG 440-101116-2), M-5A-20150206-FB (from SDG 440-101116-2), M-186D-20150311-FB (from SDG 440-104245-2) and M-38-20150507-FB (from SDG 440-109157-2) were identified as field blanks. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VII. Duplicates

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples TR-7-20150115 and TR-7-20150115-FD (from SDG 440-99142-2), samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-2), samples MC-53-20150122 and MC-53-20150122-FD (from SDG 440-99685-2), samples M-186-20150126 and M-186-20150126-FD (from SDG 440-99862-2), samples M-141-20150128 and M-141-20150128-FD (from SDG 440-100079-2), samples M-97-20150129 and M-97-20150129-FD (from SDG 440-100230-2), samples M-35-20150129 and M-35-20150129-FD (from SDG 440-100386-2), samples M-138-20150203 and M-138-20150203-FD (from SDG 440-100759-2), samples M-66-20150203 and M-66-20150203-FD (from SDG 440-100759-2), samples M-25-20150203 and M-25-20150203-FD (from SDG 440-100759-2), samples MC-51-20150205 and MC-51-20150205-FD (from SDG 440-101036-2), samples M-83-20150206 and M-83-20150206-FD (from SDG 440-101116-2), samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-2), samples M-57A-20150206 and M-57A-20150206-FD (from SDG 440-101116-2), samples M-193-20150311 and M-193-20150311-FD (from SDG 440-104245-2) and samples M-38-20150507** and M-38-20150507-FD (from SDG 440-109157-2) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-2	Radium-228	0.544	0.825	41 (≤30)	J (all detects)	A

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-2	Radium-228	0.323U	0.863	200 (≤30)	NQ	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-25-20150203	M-25-20150203-FD			
440-100759-2	Radium-228	0.526	1.05	66 (≤30)	J (all detects)	A

SDG	Isotope	Concentration (pCi/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-2	Radium-228	2.44	2.59	6 (≤30)	-	-

SDG	Isotope	Concentration (pCi/L)		RPD (Limits)	Flag	A or P
		M-57A-20150206	M-57A-20150206-FD			
440-101116-2	Radium-228	0.187U	0.557	200 (≤30)	NQ	-

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

X. Carrier Recovery

All carrier recoveries were within QC limits with the following exceptions:

SDG	Sample ID	Carrier Isotope	%R (Limits)	Affected Isotope	Flag	A or P
440-100079-2	M-182-20150128	Barium	117 (40-110)	Radium-228	UJ (all non-detects)	A
440-100230-2	M-124-20150129	Barium	112 (40-110)	Radium-228	J (all detects)	A
440-100759-2	M-138-20150203	Barium	116 (40-110)	Radium-228	UJ (all non-detects)	A
440-100759-2	M-142-20150203	Barium	115 (40-110)	Radium-228	UJ (all non-detects)	A
440-100759-2	M-65-20150203	Barium	111 (40-110)	Radium-228	UJ (all non-detects)	A
440-100759-2	M-66-20150203	Barium	114 (40-110)	Radium-228	UJ (all non-detects)	A
440-101036-2	MC-51-20150205-FD	Barium	112 (40-110)	Radium-228	UJ (all non-detects)	A
440-101036-2	MC-97-20150205	Barium	115 (40-110)	Radium-228	J (all detects)	A
440-101036-2	M-134-20150205-FB	Barium	114 (40-110)	Radium-228	UJ (all non-detects)	A
440-101036-2	M-134-20150205-EB	Barium	112 (40-110)	Radium-228	UJ (all non-detects)	A
440-101116-2	MW-16-20150205	Barium	111 (40-110)	Radium-228	J (all detects)	A
440-101116-2	M-126-20150206	Barium	116 (40-110)	Radium-228	J (all detects)	A
440-101116-2	M-126-20150206-FD	Barium	122 (40-110)	Radium-228	J (all detects)	A
440-101116-2	M-5A-20150206	Barium	115 (40-110)	Radium-228	J (all detects)	A
440-101116-2	M-57A-20150206	Barium	111 (40-110)	Radium-228	UJ (all non-detects)	A

XI. Minimum Detectable Activity

All minimum detectable activities met required detection limits.

XII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to field duplicate RPD and carrier recovery %R, data were qualified as estimated in nineteen samples.

Due to laboratory blank contamination, data were qualified as estimated in six samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Radium-228 - Data Qualification Summary - SDGs 440-98805-2, 440-98909-2, 440-99061-2, 440-99142-2, 440-99238-2, 440-99312-2, 440-99401-2, 440-99576-2, 440-99685-2, 440-99862-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Isotope	Flag	A or P	Reason (Code)
440-99685-2	MC-53-20150122 MC-53-20150122-FD	Radium-228	J (all detects)	A	Field duplicates (RPD) (fd)
440-100759-2	M-25-20150203 M-25-20150203-FD	Radium-228	J (all detects)	A	Field duplicates (RPD) (fd)
440-100079-2	M-182-20150128	Radium-228	UJ (all non-detects)	A	Carrier recovery (%R) (o)
440-100230-2	M-124-20150129	Radium-228	UJ (all non-detects)	A	Carrier recovery (%R) (o)
440-100759-2	M-138-20150203 M-142-20150203 M-65-20150203 M-66-20150203	Radium-228	UJ (all non-detects)	A	Carrier recovery (%R) (o)
440-101036-2	MC-51-20150205-FD MC-97-20150205 M-134-20150205-FB M-134-20150205-EB	Radium-228	J (all detects) UJ (all non-detects)	A	Carrier recovery (%R) (o)
440-101116-2	MW-16-20150205 M-126-20150206 M-126-20150206-FD M-5A-20150206 M-57A-20150206	Radium-228	J (all detects) UJ (all non-detects)	A	Carrier recovery (%R) (o)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Radium-228 - Laboratory Blank Data Qualification Summary - SDGs 440-98805-2, 440-98909-2, 440-99061-2, 440-99142-2, 440-99238-2, 440-99312-2, 440-99401-2, 440-99576-2, 440-99685-2, 440-99862-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Isotope	Modified Final Activity	A or P	Code
440-100386-2	M-37-20150129	Radium-228	0.576J pCi/L	A	bl

SDG	Sample	Isotope	Modified Final Activity	A or P	Code
440-100386-2	M-128-20150130	Radium-228	0.625J pCi/L	A	bl
440-100386-2	M-146-20150130	Radium-228	0.494J pCi/L	A	bl
440-100386-2	M-11-20150130	Radium-228	0.389J pCi/L	A	bl
440-100558-2	M-191-20150202**	Radium-228	0.436J pCi/L	A	bl
440-104147-2	M-189-20150310	Radium-228	0.345J pCi/L	A	bl

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Radium-228 - Field Blank Data Qualification Summary - SDGs 440-98805-2, 440-98909-2, 440-99061-2, 440-99142-2, 440-99238-2, 440-99312-2, 440-99401-2, 440-99576-2, 440-99685-2, 440-99862-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

No Sample Data Qualified in these SDGs

Isotopic Uranium by Method A-01-R

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration were met.

Detector efficiency was determined for each radionuclide of interest.

III. Calibration Verification

Continuing calibration and background determination was performed at the required frequencies. Results were within QC limits.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. Blank results contained less than the minimum detectable activity (MDA) with the following exceptions:

SDG	Laboratory Blank ID	Isotope	Activity	Associated Samples
440-101036-2	PB (prep blank)	Uranium-233/234	0.08182 pCi/L	All samples in SDG 440-101036-2

Sample activities were compared to activities detected in the laboratory blanks. The sample activities were either not detected or were significantly greater than the activities found in the associated laboratory blanks with the following exceptions:

SDG	Sample	Isotope	Reported Activity	Modified Final Activity
440-101036-2	M-134-20150205-EB	Uranium-233/234	0.498 pCi/L	0.498J pCi/L

V. Field Blanks

Samples M-12A-20150120-EB (from SDG 440-99401-2), MC-50-20150127-EB (from SDG 440-100079-2), M-73-20150129-EB (from SDG 440-100230-2), M-191-20150202-EB** (from SDG 440-100558-2), M-139-20150204-EB** (from SDG 440-100881-2), M-134-20150205-EB (from SGD 440-101036-2), and M-189-20150310-EB (from SDG 440-104147-2) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Sampling Date	Isotope	Activity	Associated Samples
440-100881-2	M-139-20150204-EB**	02/04/15	Uranium-238	0.316 pCi/L	M-139-20150204**
440-101036-2	M-134-20150205-EB	02/05/14	Uranium-233/234 Uranium-235/236	0.498 pCi/L 0.187 pCi/L	M-134-20150205

Samples TR-9-20150120-FB (from SDG 440-99401-2), M-6A-20150122-FB (from SDG 440-99685-2), M-162D-20150127-FB (from SDG 440-99974-2), M-77-20150128-FB (from SDG 440-100079-2), M-7B-20150205-FB (from SDG 440-101036-2), M-134-20150205-FB (from SDG 440-101036-2), M-81A-20150206-FB (from SDG 440-101116-2), M-5A-20150206-FB (from SDG 440-101116-2), M-186D-20150311-FB (from SDG 440-104245-2), and M-38-20150507-FB (from SDG 440-109157-2) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Sampling Date	Isotope	Activity	Associated Samples
440-101116-2	M-5A-20150206-FB	02/06/15	Uranium-238	0.198 pCi/L	M-5A-20150206

Sample activities were compared to activities detected in the field blanks. The sample activities were either not detected or were significantly greater than the activities found in the associated field blanks with the following exceptions:

SDG	Sample	Isotope	Reported Activity	Modified Final Activity
440-100881-2	M-139-20150204**	Uranium-238	1.75 pCi/L	1.75J pCi/L
440-101036-2	M-134-20150205	Uranium-233/234	3.53 pCi/L	3.53J pCi/L

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits with the following exceptions:

SDG	DUP ID (Associated Samples)	Isotope	RER (Limits)	Flag	A or P
440-101036-2	M-79-20150205DUP (All samples in SDG 440-101036-2)	Uranium-233/234	1.18 (≤1.0)	J (all detects) UJ (all non-detects)	A

VII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

VIII. Field Duplicates

Samples TR-7-20150115 and TR-7-20150115-FD (from SDG 440-99142-2), samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-2), samples MC-53-20150122 and MC-53-20150122-FD (from SDG 440-99685-2), samples M-186-20150126 and M-186-20150126-FD (from SDG 440-99862-2), samples M-141-20150128 and M-141-20150128-FD (from SDG 440-100079-2), samples M-97-20150129 and M-97-20150129-FD (from SDG 440-100230-2), samples M-35-20150129 and M-35-20150129-FD (from SDG 440-100386-2), samples M-138-20150203 and M-138-20150203-FD (from SDG 440-100759-2), samples M-66-20150203 and M-66-20150203-FD (from SDG 440-100759-2), samples M-25-20150203 and M-25-20150203-FD (from SDG 440-100759-2), samples MC-51-20150205 and MC-51-20150205-FD (from SDG 440-101036-2), samples M-83-20150206 and M-83-20150206-FD (from SDG 440-101116-2), samples M-126-20150206 and M-126-20150206-FD (from SDG 440-101116-2), samples M-57A-20150206 and M-57A-20150206-FD (from SDG 440-101116-2), samples M-193-20150311 and M-193-20150311-FD (from SDG 440-104245-2), and samples M-38-20150507** and M-38-20150507-FD (from SDG 440-109157-2) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		TR-7-20150115	TR-7-20150115-FD			
440-99142-2	Uranium-233/234	1.61	1.27	24 (≤30)	-	-
	Uranium-238	0.823	0.756	8 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-2	Uranium-233/234	3.09	2.39	26 (≤30)	-	-
	Uranium-235/236	0.203	0.118	53 (≤30)	J (all detects)	A
	Uranium-238	1.96	1.82	7 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-2	Uranium-233/234	19.6	17.7	10 (≤30)	-	-
	Uranium-235/236	0.599	0.552	8 (≤30)	-	-
	Uranium-238	13.9	12.4	11 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-186-20150126	M-186-20150126-FD			
440-99862-2	Uranium-233/234	2.96	2.58	14 (≤30)	-	-
	Uranium-238	2.51	1.36	59 (≤30)	J (all detects)	A

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-141-20150128	M-141-20150128-FD			
440-100079-2	Uranium-233/234	23.6	22.4	5 (≤30)	-	-
	Uranium-235/236	0.503U	1.10	200 (≤30)	NQ	-
	Uranium-238	15.6	12.9	19 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-97-20150129	M-97-20150129-FD			
440-100230-2	Uranium-233/234	13.4	15.4	14 (≤30)	-	-
	Uranium-235/236	0.796	1.10	32 (≤30)	J (all detects)	A
	Uranium-238	11.5	10.6	8 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-35-20150129	M-35-20150129-FD			
440-100386-2	Uranium-233/234	29.2	27.3	7 (≤30)	-	-
	Uranium-235/236	1.01	0.897	12 (≤30)	-	-
	Uranium-238	18.2	21.0	14 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-138-20150203	M-138-20150203-FD			
440-100759-2	Uranium-233/234	15.3	13.8	10 (≤30)	-	-
	Uranium-238	11.0	7.66	36 (≤30)	J (all detects)	A

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-2	Uranium-233/234	19.1	21.1	10 (≤30)	-	-
	Uranium-235/236	0.813	0.422U	200 (≤30)	NQ	-
	Uranium-238	12.0	12.7	6 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-25-20150203	M-25-20150203-FD			
440-100759-2	Uranium-233/234	22.8	27.6	10 (≤30)	-	-
	Uranium-235/236	1.02	0.333U	200 (≤30)	NQ	-
	Uranium-238	14.8	17.5	11 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		MC-51-20150205	MC-51-20150205-FD			
440-101036-2	Uranium-233/234	13.6	16.5	19 (≤30)	-	-
	Uranium-235/236	0.483	0.544	12 (≤30)	-	-
	Uranium-238	10.3	9.85	4 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-2	Uranium-233/234	12.4	11.5	8 (≤30)	-	-
	Uranium-235/236	0.380	0.198U	200 (≤30)	NQ	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-2	Uranium-238	8.44	7.67	10 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-2	Uranium-233/234	21.3	18.1	16 (≤30)	-	-
	Uranium-235/236	0.391	0.405U	200 (≤30)	NQ	-
	Uranium-238	13.2	14.7	11 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-57A-20150206	M-57A-20150206-FD			
440-101116-2	Uranium-233/234	3.53	3.69	4 (≤30)	-	-
	Uranium-235/236	0.182	0.254U	200 (≤30)	NQ	-
	Uranium-238	2.24	2.55	13 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-193-20150311	M-193-20150311-FD			
440-104245-2	Uranium-233/234	6.00	7.76	26 (≤30)	-	-
	Uranium-238	4.74	4.20	12 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-38-20150507**	M-38-20150507-FD			
440-109157-2	Uranium-233/234	17.5	15.5	12 (≤30)	-	-
	Uranium-235/236	0.763	0.636	18 (≤30)	-	-
	Uranium-238	10.0	10.5	5 (≤30)	-	-

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

IX. Tracer Recovery

All tracer recoveries were within QC limits.

X. Minimum Detectable Activity

All minimum detectable activities met required detection limits.

XI. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to DUP RER and field duplicate RPD, data were qualified as estimated in twenty samples.

Due to laboratory blank contamination, data were qualified as estimated in one sample.

Due to equipment blank contamination, data were qualified as estimated in two samples.

The quality control criteria reviewed, as discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation, all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Isotopic Uranium - Data Qualification Summary - SDGs 440-98805-2, 440-98909-2, 440-99061-2, 440-99142-2, 440-99238-2, 440-99312-2, 440-99401-2, 440-99576-2, 440-99685-2, 440-99862-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Isotope	Flag	A or P	Reason (Code)
440-101036-2	M-2A-20150204 MC-29-20150205 MC-51-20150205 MC-51-20150205-FD MC-93-20150205 MC-97-20150205 M-23-20150205 M-7B-20150205 M-69-20150204 M-134-20150205 M-79-20150205 M-135-20150205	Uranium-233/234	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RER) (ld)
440-99312-2	M-190-20150119 M-190-20150119-FD	Uranium-235/236	J (all detects)	A	Field duplicates (RPD) (fd)
440-100230-2	M-97-20150129 M-97-20150129-FD	Uranium-235/236	J (all detects)	A	Field duplicates (RPD) (fd)
440-99862-2	M-186-20150126 M-186-20150126-FD	Uranium-235/236	J (all detects)	A	Field duplicates (RPD) (fd)
440-100759-2	M-138-20150203 M-138-20150203-FD	Uranium-235/236	J (all detects)	A	Field duplicates (RPD) (fd)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Isotopic Uranium - Laboratory Blank Data Qualification Summary - SDGs 440-98805-2, 440-98909-2, 440-99061-2, 440-99142-2, 440-99238-2, 440-99312-2, 440-99401-2, 440-99576-2, 440-99685-2, 440-99862-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Isotope	Modified Final Concentration	A or P	Code
440-101036-2	M-134-20150205-EB	Uranium-233/234	0.498J pCi/L	A	bl

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Isotopic Uranium - Field Blank Data Qualification Summary - SDGs 440-98805-2, 440-98909-2, 440-99061-2, 440-99142-2, 440-99238-2, 440-99312-2, 440-99401-2, 440-99576-2, 440-99685-2, 440-99862-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Isotope	Modified Final Concentration	A or P	Code
440-100881-2	M-139-20150204**	Uranium-238	1.75J pCi/L	A	be
440-101036-2	M-134-20150205	Uranium-233/234	3.53J pCi/L	A	be

Isotopic Thorium by Method A-01-R

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration were met.

Detector efficiency was determined for each radionuclide of interest.

III. Calibration Verification

Continuing calibration and background determination was performed at the required frequencies. Results were within QC limits.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. Blank results contained less than the minimum detectable activity (MDA) with the following exceptions:

SDG	Laboratory Blank ID	Compound	Concentration	Associated Samples
440-99061-2	PB (prep blank)	Thorium-230	0.2243 pCi/L	All samples in SDG 440-99061-2
440-98805-2	PB (prep blank)	Thorium-230	0.1181 pCi/L	All samples in SDG 440-98805-2
440-98909-2	PB (prep blank)	Thorium-230	0.1181 pCi/L	All samples in SDG 440-98909-2
440-99142-2	PB (prep blank)	Thorium-230	0.2243 pCi/L	All samples in SDG 440-99142-2
440-99238-2	PB (prep blank)	Thorium-230	0.2243 pCi/L	All samples in SDG 440-99238-2
440-99576-2	PB (prep blank)	Thorium-230	0.1172 pCi/L	All samples in SDG 440-99576-2
440-99685-2	PB (prep blank)	Thorium-230	0.1172 pCi/L	All samples in SDG 440-99685-2
440-99862-2	PB (prep blank)	Thorium-230	0.1172 pCi/L	All samples in SDG 440-99862-2
440-100230-2	PB (prep blank)	Thorium-230	0.1509 pCi/L	All samples in SDG 440-100230-2
440-100386-2	PB (prep blank)	Thorium-230	0.1509 pCi/L	All samples in SDG 440-100386-2

SDG	Laboratory Blank ID	Compound	Concentration	Associated Samples
440-100759-2	PB (prep blank)	Thorium-230	0.2189 pCi/L	M-115-20150203 M-76-20150203 M-65-20150203 M-66-20150203 M-66-20150203-FD M-25-20150203 M-25-20150203-FD
440-100881-2	PB (prep blank)	Thorium-228 Thorium-230	0.1586 pCi/L 0.1232 pCi/L	All samples in SDG 440-100881-2
440-101036-2	PB (prep blank)	Thorium-228 Thorium-230	0.09588 pCi/L 0.1429 pCi/L	All samples in SDG 440-101036-2
440-101116-2	PB (prep blank)	Thorium-230	0.1630 pCi/L	All samples in SDG 440-101116-2
440-104147-2	PB (prep blank)	Thorium-228 Thorium-230	0.1193 pCi/L 0.1425 pCi/L	All samples in SDG 440-104147-2
440-104245-2	PB (prep blank)	Thorium-228 Thorium-230	0.1193 pCi/L 0.1425 pCi/L	All samples in SDG 440-104245-2
440-104383-2	PB (prep blank)	Thorium-228 Thorium-230	0.1193 pCi/L 0.1425 pCi/L	All samples in SDG 440-104383-2
440-108824-3	PB (prep blank)	Thorium-230	0.2904 pCi/L	All samples in SDG 440-108824-3
440-109157-2	PB (prep blank)	Thorium-230	0.2904 pCi/L	All samples in SDG 440-109157-2

Sample activities were compared to activities detected in the laboratory blanks. The sample activities were either not detected or were significantly greater than the activities found in the associated laboratory blanks with the following exceptions:

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-99061-2	TR-1-20150114	Thorium-230	0.212 pCi/L	0.212J pCi/L
440-98805-2	M-154-20150112	Thorium-230	0.119 pCi/L	0.119J pCi/L
440-98805-2	M-150-20150112	Thorium-230	0.158 pCi/L	0.158J pCi/L
440-98909-2	M-161-20150113	Thorium-230	0.0771 pCi/L	0.0771J pCi/L
440-99142-2	TR-11-20150115	Thorium-230	0.244 pCi/L	0.244J pCi/L
440-99142-2	TR-7-20150115	Thorium-230	0.169 pCi/L	0.169J pCi/L

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-99238-2	M-117-20150116	Thorium-230	0.151 pCi/L	0.151J pCi/L
440-99238-2	M-121-20150116	Thorium-230	0.202 pCi/L	0.202J pCi/L
440-99576-2	M-155-20150121	Thorium-230	0.736 pCi/L	0.736J pCi/L
440-99576-2	M-151-20150121	Thorium-230	0.783 pCi/L	0.783J pCi/L
440-99576-2	M-165-20150121	Thorium-230	0.640 pCi/L	0.640J pCi/L
440-99685-2	M-181-20150121	Thorium-230	0.890 pCi/L	0.890J pCi/L
440-99685-2	M-6A-20150122	Thorium-230	0.632 pCi/L	0.632J pCi/L
440-99685-2	M-6A-20150122-FB	Thorium-230	0.529 pCi/L	0.529J pCi/L
440-99862-2	M-149-20150126	Thorium-230	0.749 pCi/L	0.749J pCi/L
440-99862-2	M-153-20150126	Thorium-230	0.522 pCi/L	0.522J pCi/L
440-99862-2	M-186-20150126	Thorium-230	0.442 pCi/L	0.442J pCi/L
440-100230-2	M-92-20150129	Thorium-230	0.871 pCi/L	0.871J pCi/L
440-100230-2	M-97-20150129	Thorium-230	0.706 pCi/L	0.706J pCi/L
440-100230-2	M-97-20150129-FD	Thorium-230	0.910 pCi/L	0.910J pCi/L
440-100230-2	M-124-20150129	Thorium-230	0.830 pCi/L	0.830J pCi/L
440-100230-2	M-14A-20150129	Thorium-230	0.641 pCi/L	0.641J pCi/L
440-100230-2	M-74-20150129	Thorium-230	0.792 pCi/L	0.792J pCi/L
440-100230-2	M-133-20150129	Thorium-230	0.434 pCi/L	0.434J pCi/L
440-100230-2	M-67-20150129	Thorium-230	0.471 pCi/L	0.471J pCi/L
440-100230-2	M-73-20150129-EB	Thorium-230	0.612 pCi/L	0.612J pCi/L
440-100386-2	M-37-20150129	Thorium-230	0.613 pCi/L	0.613J pCi/L
440-100386-2	M-35-20150129	Thorium-230	0.545 pCi/L	0.545J pCi/L

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-100386-2	M-35-20150129-FD	Thorium-230	0.515 pCi/L	0.5J pCi/L
440-100386-2	M-146-20150130	Thorium-230	0.766 pCi/L	0.766J pCi/L
440-100386-2	M-11-20150130	Thorium-230	0.911 pCi/L	0.911J pCi/L
440-100386-2	M-52-20150130	Thorium-230	0.920 pCi/L	0.920J pCi/L
440-100759-2	M-65-20150203	Thorium-230	0.554 pCi/L	0.554J pCi/L
440-100759-2	M-66-20150203-FD	Thorium-230	0.821 pCi/L	0.821J pCi/L
440-100881-2	M-72-20150204**	Thorium-228 Thorium-230	0.844 pCi/L 0.698 pCi/L	0.844J pCi/L 0.698J pCi/L
440-100881-2	M-71-20150204**	Thorium-228 Thorium-230	0.747 pCi/L 0.705 pCi/L	0.747J pCi/L 0.705J pCi/L
440-100881-2	M-70-20150204**	Thorium-228 Thorium-230	0.635 pCi/L 0.826 pCi/L	0.635J pCi/L 0.826J pCi/L
440-100881-2	M-58-20150204**	Thorium-228	0.985 pCi/L	0.985J pCi/L
440-100881-2	M-75-20150203**	Thorium-230	0.691 pCi/L	0.691J pCi/L
440-100881-2	M-132-20150204**	Thorium-230	0.527 pCi/L	0.527J pCi/L
440-100881-2	M-68-20150204**	Thorium-230	0.449 pCi/L	0.449J pCi/L
440-100881-2	M-147-20150204**	Thorium-230	0.881 pCi/L	0.881J pCi/L
440-100881-2	M-139-20150204**	Thorium-228 Thorium-230	0.988 pCi/L 0.837 pCi/L	0.988J pCi/L 0.837J pCi/L
440-100881-2	M-139-20150204-EB**	Thorium-230	0.989 pCi/L	0.989J pCi/L
440-101036-2	MC-93-20150205	Thorium-228	0.563 pCi/L	0.563J pCi/L
440-101036-2	M-7B-20150205	Thorium-230	0.928 pCi/L	0.928J pCi/L
440-101036-2	M-134-20150205	Thorium-228 Thorium-230	0.580 pCi/L 0.595 pCi/L	0.580J pCi/L 0.595J pCi/L
440-101036-2	M-134-20150205-FB	Thorium-230	0.683 pCi/L	0.683J pCi/L
440-101036-2	M-134-20150205-EB	Thorium-230	0.721 pCi/L	0.721J pCi/L

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-101036-2	M-79-20150205	Thorium-228 Thorium-230	0.505 pCi/L 0.515 pCi/L	0.505J pCi/L 0.515J pCi/L
440-101036-2	M-135-20150205	Thorium-230	0.739 pCi/L	0.739J pCi/L
440-101116-2	MW-16-20150205	Thorium-230	0.770 pCi/L	0.770J pCi/L
440-101116-2	M-81A-20150206	Thorium-230	0.917 pCi/L	0.917J pCi/L
440-101116-2	M-81A-20150206-FB	Thorium-230	0.509 pCi/L	0.509J pCi/L
440-101116-2	M-80-20150206	Thorium-230	0.732 pCi/L	0.732J pCi/L
440-101116-2	M-83-20150206-FD	Thorium-230	0.478 pCi/L	0.478J pCi/L
440-101116-2	M-136-20150205	Thorium-230	0.534 pCi/L	0.534J pCi/L
440-101116-2	M-126-20150206	Thorium-230	0.944 pCi/L	0.944J pCi/L
440-101116-2	M-126-20150206-FD	Thorium-230	0.849 pCi/L	0.849J pCi/L
440-101116-2	M-5A-20150206	Thorium-230	0.857 pCi/L	0.857J pCi/L
440-101116-2	M-5A-20150206-FB	Thorium-230	0.894 pCi/L	0.894J pCi/L
440-101116-2	M-140-20150206	Thorium-230	0.686 pCi/L	0.686J pCi/L
440-104147-2	M-189-20150310	Thorium-230	0.474 pCi/L	0.474J pCi/L
440-104147-2	M-191-20150310	Thorium-230	0.696 pCi/L	0.696J pCi/L
440-104245-2	M-186D-20150311	Thorium-230	0.310 pCi/L	0.310J pCi/L
440-104245-2	M-186D-20150311-FB	Thorium-230	0.546 pCi/L	0.546J pCi/L
440-104245-2	M-192-20150311	Thorium-230	0.967 pCi/L	0.967J pCi/L
440-104245-2	M-193-20150311-FD	Thorium-230	0.740 pCi/L	0.740J pCi/L
440-104383-2	M-161D-20150312	Thorium-230	0.529 pCi/L	0.529J pCi/L
440-104383-2	H-28-20150312	Thorium-230	0.739 pCi/L	0.739J pCi/L
440-108824-3	M-10-20150505	Thorium-230	0.711 pCi/L	0.711J pCi/L

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-108824-3	M-33-20150505	Thorium-230	0.905 pCi/L	0.905J pCi/L
440-109157-2	M-38-20150507-FD	Thorium-230	0.993 pCi/L	0.993J pCi/L
440-109157-2	M-38-20150507-FB	Thorium-230	0.754 pCi/L	0.754J pCi/L

V. Field Blanks

Samples M-12A-20150120-EB (from SDG 440-99401-2), MC-50-20150127-EB (from SDG 440-100079-2), and M-73-20150129-EB (from SDG 440-100230-2), M-191-20150202-EB** (from SDG 440-100558-2), M-139-20150204-EB** (from SDG 440-100881-2), M-134-20150205-EB (from SDG 440-101036-2), and M-189-20150310-EB (from SDG 440-104147-2) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-99576-2	M-12A-20150120-EB	01/20/15	Thorium-230	0.182 pCi/L	M-12A-20150120
440-100079-2	MC-50-20150127-EB	01/27/15	Thorium-230 Thorium-232	0.772 pCi/L 0.171 pCi/L	MC-50-20150127
440-100230-2	M-73-20150129-EB	01/29/15	Thorium-230	0.612 pCi/L	M-73-20150129
440-100558-2	M-191-20150202-EB**	02/02/15	Thorium-228 Thorium-230	1.21 pCi/L 0.820 pCi/L	M-191-20150202**
440-101036-2	M-139-20150204-EB**	02/04/15	Thorium-228 Thorium-230	1.12 pCi/L 0.989 pCi/L	M-139-20150204**
440-101036-2	M-134-20150205-EB	02/05/15	Thorium-230	0.721 pCi/L	M-134-20150205
440-104147-2	M-189-20150310-EB	03/10/15	Thorium-230	1.12 pCi/L	M-189-20150310

Samples TR-9-20150120-FB (from SDG 440-99401-2), M-6A-20150122-FB (from SDG 440-99685-2), M-162D-20150127-FB (from SDG 440-99974-2), M-77-20150128-FB (from SDG 440-100079-2), M-7B-20150205-FB (from SDG 440-101036-2), M-134-20150205-FB (from SDG 440-101036-2), M-81A-20150206-FB (from SDG 440-101116-2), M-5A-20150206-FB (from SDG 440-101116-2), M-186D-20150311-FB (from SDG 440-104245-2) and M-38-20150507-FB (from SDG 440-109157-2) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-99685-2	M-6A-20150122-FB	01/22/15	Thorium-230	0.529 pCi/L	M-6A-20150122
440-99974-2	M-162D-20150127-FB	01/27/15	Thorium-230	0.776 pCi/L	M-162D-20150127
440-100079-2	M-77-20150128-FB	01/28/15	Thorium-230	0.684 pCi/L	M-77-20150128
440-101036-2	M-7B-20150205-FB	02/05/15	Thorium-230	1.41 pCi/L	M-7B-20150205
440-101036-2	M-134-20150205-FB	02/05/15	Thorium-230	0.683 pCi/L	M-134-20150205
440-101116-2	M-81A-20150206-FB	02/06/15	Thorium-230	0.509 pCi/L	M-81A-20150206
440-101116-2	M-5A-20150206-FB	02/06/15	Thorium-230	0.894 pCi/L	M-5A-20150206
440-104245-2	M-186D-20150311-FB	03/11/15	Thorium-230	0.546 pCi/L	M-186D-20150311
440-109157-2	M-38-20150507-FB	05/07/15	Thorium-230	0.754 pCi/L	M-38-20150507** M-38-20150507-FD

Sample activities were compared to activities detected in the field blanks. The sample activities were either not detected or were significantly greater than the activities found in the associated field blanks with the following exceptions:

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-99685-2	M-6A-20150122	Thorium-230	0.632 pCi/L	0.632J pCi/L
440-99974-2	M-162D-20150127	Thorium-230	0.865 pCi/L	0.865J pCi/L
440-100079-2	M-77-20150128	Thorium-230	0.879 pCi/L	0.879J pCi/L
440-100558-2	M-191-20150202**	Thorium-230	0.617 pCi/L	0.617J pCi/L
440-101036-2	M-7B-20150205	Thorium-230	0.928 pCi/L	0.928J pCi/L
440-101036-2	M-134-20150205	Thorium-230	0.595 pCi/L	0.595J pCi/L
440-101036-2	M-139-20150204**	Thorium-228 Thorium-230	0.988 pCi/L 0.837 pCi/L	0.988J pCi/L 0.837J pCi/L
440-101116-2	M-81A-20150206	Thorium-230	0.917 pCi/L	0.917J pCi/L
440-101116-2	M-5A-20150206	Thorium-230	0.857 pCi/L	0.857J pCi/L

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-104245-2	M-186D-20150311	Thorium-230	0.310 pCi/L	0.310J pCi/L
440-109157-2	M-38-20150507-FD	Thorium-230	0.993 pCi/L	0.993J pCi/L

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

VIII. Field Duplicates

Samples TR-7-20150115 and TR-7-20150115-FD (from SDG 440-99142-2), samples M-190-20150119 and M-190-20150119-FD (from SDG 440-99312-2), samples MC-53-20150122 and MC-53-20150122-FD (from SDG 440-99685-2), M-141-20150128 and M-141-20150128-FD (from SDG 440-100079-2), samples M-97-20150129 and M-97-20150129-FD (from SDG 440-100230-2), samples M-35-20150129 and M-35-20150129-FD (from SDG 440-100386-2), samples M-193-20150311 and M-193-20150311-FD (from SDG 440-104245-2) and samples M-38-20150507** and M-38-20150507-FD (from SDG 440-109157-2) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		TR-7-20150115	TR-7-20150115-FD			
440-99142-2	Thorium-230	0.169	0.109U	200 (≤30)	NQ	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-190-20150119	M-190-20150119-FD			
440-99312-2	Thorium-230	0.105U	0.337	200 (≤30)	NQ	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		MC-53-20150122	MC-53-20150122-FD			
440-99685-2	Thorium-230	1.21	1.23	2 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-186-20150126	M-186-20150126-FD			
440-99862-2	Thorium-230	0.442	1.06	82 (≤30)	J (all detects)	A

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-141-20150128	M-141-20150128-FD			
440-100079-2	Thorium-230	0.432U	1.30	200 (≤30)	NQ	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-97-20150129	M-97-20150129-FD			
440-100230-2	Thorium-230	0.706	0.910	25 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-35-20150129	M-35-20150129-FD			
440-100386-2	Thorium-230	0.545	0.515	6 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-138-20150203	M-138-20150203-FD			
440-100759-2	Thorium-230	1.24	0.211U	200 (≤30)	NQ	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-66-20150203	M-66-20150203-FD			
440-100759-2	Thorium-228	0.689U	0.758	200 (≤30)	NQ	-
	Thorium-230	0.132U	0.821	200 (≤30)	NQ	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-83-20150206	M-83-20150206-FD			
440-101116-2	Thorium-230	0.310U	0.478	200 (≤30)	NQ	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-126-20150206	M-126-20150206-FD			
440-101116-2	Thorium-228	0.374U	0.591	200 (≤30)	NQ	-
	Thorium-230	0.944	0.849	11 (≤30)	-	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-57A-20150206	M-57A-20150206-FD			
440-101116-2	Thorium-230	1.02	0.342U	200 (≤30)	NQ	-

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-193-20150311	M-193-20150311-FD			
440-104245-2	Thorium-230	1.05	0.740	35 (≤30)	J (all detects)	A

SDG	Isotope	Activity (pCi/L)		RPD (Limits)	Flag	A or P
		M-38-20150507**	M-38-20150507-FD			
440-109157-2	Thorium-230	1.28	0.993	25 (≤30)	-	-

NQ – No data were qualified when either the primary or duplicate result was not detected or was less than the practical quantitation limit (PQL).

X. Tracer Recovery

All tracer recoveries were within QC limits.

XI. Minimum Detectable Activity

All minimum detectable activities met required detection limits with the following exceptions:

SDG	Sample	Isotope	RDL (units)	MDC (units)
440-101036-2	MC-29-20150205	Thorium-228	1.00 pCi/L	1.53 pCi/L
440-101036-2	MC-51-20150205	Thorium-228	1.00 pCi/L	1.80 pCi/L

VIII. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to field duplicate RPD, data were qualified as estimated in four samples.

Due to laboratory blank contamination, data were qualified as estimated in seventy-four samples.

Due to equipment blank contamination, data were qualified as estimated in three samples.

Due to field blank contamination, data were qualified as estimated in nine samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Isotopic Thorium - Data Qualification Summary - SDGs 440-98805-2, 440-98909-2, 440-99061-2, 440-99142-2, 440-99238-2, 440-99312-2, 440-99401-2, 440-99576-2, 440-99685-2, , 440-99862-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Isotope	Flag	A or P	Reason (Code)
440-99862-2	M-186-20150126 M-186-20150126-FD	Thorium-230	J (all detects)	A	Field duplicates (RPD) (fd)
440-104245-2	M-193-20150311 M-193-20150311-FD	Thorium-230	J (all detects)	A	Field duplicates (RPD) (fd)

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Isotopic Thorium - Laboratory Blank Data Qualification Summary - SDGs 440-98805-2, 440-98909-2, 440-99061-2, 440-99142-2, 440-99238-2, 440-99312-2, 440-99401-2, 440-99576-2, 440-99685-2, , 440-99862-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
440-99061-2	TR-1-20150114	Thorium-230	0.212J pCi/L	A	bl
440-98805-2	M-154-20150112	Thorium-230	0.119J pCi/L	A	bl
440-98805-2	M-150-20150112	Thorium-230	0.158J pCi/L	A	bl
440-98909-2	M-161-20150113	Thorium-230	0.0771J pCi/L	A	bl
440-99142-2	TR-11-20150115	Thorium-230	0.244J pCi/L	A	bl
440-99142-2	TR-7-20150115	Thorium-230	0.169J pCi/L	A	bl
440-99238-2	M-117-20150116	Thorium-230	0.151J pCi/L	A	bl
440-99238-2	M-121-20150116	Thorium-230	0.202J pCi/L	A	bl
440-99576-2	M-155-20150121	Thorium-230	0.736J pCi/L	A	bl
440-99576-2	M-151-20150121	Thorium-230	0.783J pCi/L	A	bl

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
440-99576-2	M-165-20150121	Thorium-230	0.640J pCi/L	A	bl
440-99685-2	M-181-20150121	Thorium-230	0.890J pCi/L	A	bl
440-99685-2	M-6A-20150122	Thorium-230	0.632J pCi/L	A	bl
440-99685-2	M-6A-20150122-FB	Thorium-230	0.529J pCi/L	A	bl
440-99862-2	M-149-20150126	Thorium-230	0.749J pCi/L	A	bl
440-99862-2	M-153-20150126	Thorium-230	0.522J pCi/L	A	bl
440-99862-2	M-186-20150126	Thorium-230	0.442J pCi/L	A	bl
440-100230-2	M-92-20150129	Thorium-230	0.871J pCi/L	A	bl
440-100230-2	M-97-20150129	Thorium-230	0.706J pCi/L	A	bl
440-100230-2	M-97-20150129-FD	Thorium-230	0.910J pCi/L	A	bl
440-100230-2	M-124-20150129	Thorium-230	0.830J pCi/L	A	bl
440-100230-2	M-14A-20150129	Thorium-230	0.641J pCi/L	A	bl
440-100230-2	M-74-20150129	Thorium-230	0.792J pCi/L	A	bl
440-100230-2	M-133-20150129	Thorium-230	0.434J pCi/L	A	bl
440-100230-2	M-67-20150129	Thorium-230	0.471J pCi/L	A	bl
440-100230-2	M-73-20150129-EB	Thorium-230	0.612J pCi/L	A	bl
440-100386-2	M-37-20150129	Thorium-230	0.613J pCi/L	A	bl
440-100386-2	M-35-20150129	Thorium-230	0.545J pCi/L	A	bl
440-100386-2	M-35-20150129-FD	Thorium-230	0.5J pCi/L	A	bl
440-100386-2	M-146-20150130	Thorium-230	0.766J pCi/L	A	bl
440-100386-2	M-11-20150130	Thorium-230	0.911J pCi/L	A	bl
440-100386-2	M-52-20150130	Thorium-230	0.920J pCi/L	A	bl

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
440-100759-2	M-65-20150203	Thorium-230	0.554J pCi/L	A	bl
440-100759-2	M-66-20150203-FD	Thorium-230	0.821J pCi/L	A	bl
440-100881-2	M-72-20150204**	Thorium-228 Thorium-230	0.844J pCi/L 0.698J pCi/L	A	bl
440-100881-2	M-71-20150204**	Thorium-228 Thorium-230	0.747J pCi/L 0.705J pCi/L	A	bl
440-100881-2	M-70-20150204**	Thorium-228 Thorium-230	0.635J pCi/L 0.826J pCi/L	A	bl
440-100881-2	M-58-20150204**	Thorium-228	0.985J pCi/L	A	bl
440-100881-2	M-75-20150203**	Thorium-230	0.691J pCi/L	A	bl
440-100881-2	M-132-20150204**	Thorium-230	0.527J pCi/L	A	bl
440-100881-2	M-68-20150204**	Thorium-230	0.449J pCi/L	A	bl
440-100881-2	M-147-20150204**	Thorium-230	0.881J pCi/L	A	bl
440-100881-2	M-139-20150204**	Thorium-228 Thorium-230	0.988J pCi/L 0.837J pCi/L	A	bl
440-100881-2	M-139-20150204-EB**	Thorium-230	0.989J pCi/L	A	bl
440-101036-2	MC-93-20150205	Thorium-228	0.563J pCi/L	A	bl
440-101036-2	M-7B-20150205	Thorium-230	0.928J pCi/L	A	bl
440-101036-2	M-134-20150205	Thorium-228 Thorium-230	0.580J pCi/L 0.595J pCi/L	A	bl
440-101036-2	M-134-20150205-FB	Thorium-230	0.683J pCi/L	A	bl
440-101036-2	M-134-20150205-EB	Thorium-230	0.721J pCi/L	A	bl
440-101036-2	M-79-20150205	Thorium-228 Thorium-230	0.505J pCi/L 0.515J pCi/L	A	bl
440-101036-2	M-135-20150205	Thorium-230	0.739J pCi/L	A	bl
440-101116-2	MW-16-20150205	Thorium-230	0.770J pCi/L	A	bl

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
440-101116-2	M-81A-20150206	Thorium-230	0.917J pCi/L	A	bl
440-101116-2	M-81A-20150206-FB	Thorium-230	0.509J pCi/L	A	bl
440-101116-2	M-80-20150206	Thorium-230	0.732J pCi/L	A	bl
440-101116-2	M-83-20150206-FD	Thorium-230	0.478J pCi/L	A	bl
440-101116-2	M-136-20150205	Thorium-230	0.534J pCi/L	A	bl
440-101116-2	M-126-20150206	Thorium-230	0.944J pCi/L	A	bl
440-101116-2	M-126-20150206-FD	Thorium-230	0.849J pCi/L	A	bl
440-101116-2	M-5A-20150206	Thorium-230	0.857J pCi/L	A	bl
440-101116-2	M-5A-20150206-FB	Thorium-230	0.894J pCi/L	A	bl
440-101116-2	M-140-20150206	Thorium-230	0.686J pCi/L	A	bl
440-104147-2	M-189-20150310	Thorium-230	0.474J pCi/L	A	bl
440-104147-2	M-191-20150310	Thorium-230	0.696J pCi/L	A	bl
440-104245-2	M-186D-20150311	Thorium-230	0.310J pCi/L	A	bl
440-104245-2	M-186D-20150311-FB	Thorium-230	0.546J pCi/L	A	bl
440-104245-2	M-192-20150311	Thorium-230	0.967J pCi/L	A	bl
440-104245-2	M-193-20150311-FD	Thorium-230	0.740J pCi/L	A	bl
440-104383-2	M-161D-20150312	Thorium-230	0.529J pCi/L	A	bl
440-104383-2	H-28-20150312	Thorium-230	0.739J pCi/L	A	bl
440-108824-3	M-10-20150505	Thorium-230	0.711J pCi/L	A	bl
440-108824-3	M-33-20150505	Thorium-230	0.905J pCi/L	A	bl
440-109157-2	M-38-20150507-FD	Thorium-230	0.993J pCi/L	A	bl
440-109157-2	M-38-20150507-FB	Thorium-230	0.754J pCi/L	A	bl

NERT, January through March and May 2015 Groundwater Remedial Investigation Sampling
Isotopic Thorium - Field Blank Data Qualification Summary - SDGs 440-98805-2, 440-98909-2, 440-99061-2, 440-99142-2, 440-99238-2, 440-99312-2, 440-99401-2, 440-99576-2, 440-99685-2, , 440-99862-2, 440-99974-2, 440-100079-2, 440-100230-2, 440-100386-2, 440-100558-2, 440-100759-2, 440-100881-2, 440-101036-2, 440-101116-2, 440-104147-2, 440-104245-2, 440-104383-2, 440-108824-3, 440-109157-2

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
440-99685-2	M-6A-20150122	Thorium-230	0.632J pCi/L	A	bf
440-99974-2	M-162D-20150127	Thorium-230	0.865J pCi/L	A	bf
440-100079-2	M-77-20150128	Thorium-230	0.879J pCi/L	A	bf
440-100558-2	M-191-20150202**	Thorium-230	0.617J pCi/L	A	be
440-101036-2	M-7B-20150205	Thorium-230	0.928J pCi/L	A	bf
440-101036-2	M-134-20150205	Thorium-230	0.595J pCi/L	A	be,bf
440-101036-2	M-139-20150204**	Thorium-228 Thorium-230	0.988J pCi/L 0.837J pCi/L	A	be
440-101116-2	M-81A-20150206	Thorium-230	0.917J pCi/L	A	bf
440-101116-2	M-5A-20150206	Thorium-230	0.857J pCi/L	A	bf
440-104245-2	M-186D-20150311	Thorium-230	0.310J pCi/L	A	bf
440-109157-2	M-38-20150507-FD	Thorium-230	0.993J pCi/L	A	bf