

**Data Validation Summary Report Revision 1
Annual Remedial Performance Sampling
January through June 2018
Nevada Environmental Response Trust (NERT)
Henderson, Nevada**

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January 7, 2019

Response to NDEP comments on the
2018 Annual Remedial Performance Report DVSR and EDD
Nevada Environmental Response Trust Site
Henderson, Nevada

Response to NDEP Comments on the 2018 Annual Remedial Performance Report DVSR and EDD

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Signature: Jay A Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

not ind. v. Ind. but solely as Pres. Trust

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Date: 1-17-19

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(Former Tronox LLC Site)
Henderson, Nevada**

Responsible Certified Environmental Manager (CEM) for this Project

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.



January 17, 2019

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Date

Certified Environmental Manager
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LIST OF ACRONYMS AND ABBREVIATIONS

DL	Detection Limit
DNR	Do Not Report
DQO	Data Quality Objectives
DUP	Duplicate
DVSR	Data Validation Summary Report
EB	Equipment Blank
EPA	Environmental Protection Agency
FB	Field Blank
FD	Field Duplicate
ICV	Initial Calibration Verification
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants, Inc.
MDL	Method Detection Limit
MS/MSD	Matrix Spike / Matrix Spike Duplicate
NDEP	Nevada Department of Environmental Protection
NERT	Nevada Environmental Response Trust
NFG	National Functional Guidelines
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance / Quality Control
QAPP	Quality Assurance Project Plan
RPD	Relative Percent Difference
SDG	Sample Delivery Group
SQL	Sample Quantitation Limit
TB	Trip Blank
TCP	1,2,3-Trichloropropane
TDS	Total Dissolved Solids
TIN	Total Inorganic Nitrogen
TOC	Total Organic Carbon
TOX	Total Organic Halogen
TRP	Total Recoverable Phenolics
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
ug/L	Micrograms per Liter
mg/L	Milligram 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 Annual Remedial Performance Sampling conducted at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. The assessment was performed by Ramboll 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 815 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 (TCP) and 1,4-Dioxane by EPA SW-846 Method 8260B in Selective Ion Monitoring (SIM) Mode

Total and Dissolved Metals by EPA Methods 200.7

Wet Chemistry:

Hexavalent Chromium by EPA Method 218.6

Chloride, Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate (Anions) by EPA Method 300.0

Nitrate/Nitrite as Nitrogen and Total Inorganic Nitrogen (TIN) by Calculation

Chlorate by EPA Method 300.1B

Perchlorate by EPA Method 314.0

Ammonia as Nitrogen by EPA Method 350.1

Total Recoverable Phenolics (TRP) by EPA Method 420.4

Conductivity by Standard Method 2510B

Total Dissolved Solids (TDS) by Standard Method 2540C

Total Organic Carbon (TOC) by Standard Method 5310C

Total Organic Halogen (TOX) by EPA SW 846 Method 9020B

Field pH by Field Test Method

Laboratory analytical services were provided by TestAmerica, Inc. for all parameters and Assett Laboratories performed additional hexavalent chromium analyses. Field pH readings were recorded on the chain-of-custody at the time of sampling and reported with the analytical data. The samples were grouped into sample delivery groups (SDGs). The 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. An individual sample may be on multiple rows if it is reported on more than one SDG. 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 Validation Guidance* established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, July 13, 2018. Consistent with the NDEP requirements, one hundred percent of the analytical data were validated according to Stage 2A data validation procedures. The number of samples 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; *USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2017) and *for Inorganic Superfund Methods 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.

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 7.0 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 (TB), equipment blanks (EB), field blanks (FB), field duplicates (FD), method blanks, laboratory control samples/laboratory control sample duplicates (LCS/LCSD), laboratory duplicates (DUP), and matrix spike/matrix spike duplicates (MS/MSD).

Before conducting the PARCCS evaluation, the analytical data were validated according to the QAPP (July 2014), NFG (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 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.

This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, or other spike recovery.

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 allow data users to assess if a result is usable with qualification due to QA/QC outliers or not usable when rejected due to QA/QC outliers. 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):

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

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. An 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 is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from an aqueous 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 maybe 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 method blanks, TBs, EBs, and FBs.

A method 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 method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

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.

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.

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.

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 method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The QA/QC criteria were met with the exceptions noted in the following sections for each analytical method.

2.0 VOLATILE ORGANIC COMPOUNDS

A total of 270 water samples were analyzed for VOCs by EPA SW-846 Method 8260B. All VOC data were assessed to be valid with the exception of one of the 16,470 total results which was rejected based on matrix spike recoveries. 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 Surrogates

All surrogate %Rs met the laboratory acceptance criteria.

2.1.2 MS/MSD Samples

As a result of grossly exceeded MS/MSD %R (e.g., < 0%), the styrene result in sample MC-97-20180511 was qualified as rejected (R). Additionally, five results were qualified as non-detected estimated (UJ) as a result of MS/MSD %R below the laboratory acceptance criteria. The details regarding the qualification of results are provided in Attachment A.

No data were qualified due to MS/MSD %Rs and RPDs above the laboratory acceptance criteria since the associated results were not detected.

2.1.3 LCS Samples

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

2.1.4 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. All RPDs for results that were reported above the PQL met the QAPP acceptance criteria.

Given the additional uncertainty in results reported below the PQL, no data were qualified when the RPDs were outside the QAPP acceptance criteria and the associated results in either the primary or duplicate samples were below the PQL or not detected.

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 preserved water samples.

2.2.2 Blanks

Method 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 Using professional judgment, if a sample result for the blank contaminant was less than the PQL and the sample result was less than or equal to two times the blank value, the sample result was qualified as detected estimated (J) at the reported concentration.

Results Above the PQL Using professional judgment, if a sample result for the blank contaminant was greater than the PQL and the sample result was less than or equal to two times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the reported concentration.

No Action Using professional judgment, if a sample result for the blank contaminant was greater than 2 times the blank value, the result was not amended.

For this data set, two times the blank value was used to assess all contaminants for organic methods. This allows the data not to be censored and provides an understanding of the level of contamination relative to that found in the samples. This approach is employed for all data sets collected for annual and semi-annual groundwater remedial performance sampling for the NERT site to ensure comparability.

2.2.2.1 Method blanks

No data were qualified due to the contaminants detected in the method blanks for this analysis.

2.2.2.2 TBs

As a result of contamination found in the associated trip blanks, the methylene chloride results in samples M-120-20180516, M-52-20180516, UFMW-01D-20180516 and UFMW-02D-20180516 were qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment A.

2.2.2.3 EBs and FBs

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

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 99.994 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 270 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 data were assessed to be valid since none of the 540 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.

3.1 Precision and Accuracy

3.1.1 Surrogates

All surrogate %Rs met the laboratory acceptance criteria.

3.1.2 MS/MSD Samples

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

3.1.3 LCS Samples

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

3.1.4 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. All RPDs for results that were reported above the PQL met the QAPP acceptance criteria.

Given the additional uncertainty in results reported below the PQL, no data were qualified when the RPDs were outside the QAPP acceptance criteria and the associated results in either the primary or duplicate samples were below the PQL or not detected.

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 preserved water samples.

3.2.2 Blanks

Method 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 Method blanks

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

3.2.2.2 TBs

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

3.2.2.3 EBs and FBs

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

3.3 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.

3.4 Completeness

The completeness level attained for 1,2,3-trichloropropane and 1,4-dioxane 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 METALS

A total of six water samples were analyzed for metals and 587 water samples were analyzed for chromium by EPA Method 200.7. All metals data were assessed to be valid since none of the 619 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.

4.1 Precision and Accuracy

4.1.1 MS/MSD Samples

Ten chromium results were qualified as detected estimated (J-) or non-detected estimated (UJ) due to MS/MSD %Rs below the laboratory acceptance criteria. The details regarding the qualification of results are provided in Attachment C.

All MS/MSD RPDs met the laboratory acceptance criteria.

4.1.2 LCS/LCSD Samples

All LCS %Rs met the laboratory acceptance criteria.

4.1.3 FD Samples

Due to RPDs outside the QAPP acceptance criteria of ≤ 30 , four chromium results that were reported above the PQL in field duplicate samples I-F-20180418 and I-F-20180418 FD and samples TR-1-20180511 and TR-1-20180511-FD9 were qualified as detected estimated (J). The details regarding the qualification of results are presented in Attachment C.

Given the additional uncertainty in results reported below the PQL, no data were qualified when the RPDs were outside the QAPP acceptance criteria and the associated results in either the primary or duplicate samples were below the PQL or not detected.

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 180-day analysis holding time criteria.

4.2.2 Blanks

Method blanks, EBs, and FBs were analyzed to evaluate representativeness. The concentration for an individual target analyte 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 was less than the PQL and the blank contaminant value was either less than or greater than the PQL, the sample result was amended as estimated (J) at the concentration reported in the sample results.

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 concentration reported in the sample results.

No Action If blank contaminant values were less than the PQL and associated sample results were greater than the PQL, or if blank contaminant values were greater than the PQL and associated sample results were greater than 10 times the blank contaminant value, the result was not amended.

4.2.2.1 Method Blanks

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

4.2.2.2 EBs and FBs

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

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 analytes detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the metals data is regarded as acceptable.

4.4 Completeness

The completeness level attained for metal 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.

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 WET CHEMISTRY

A total of 372 water samples were analyzed for hexavalent chromium by EPA Method 218.6; 607 water samples were analyzed for anions by EPA Method 300.0; two water samples were analyzed for ammonia as nitrogen by EPA Method 350.1, nitrate/nitrite as nitrogen by Calculation Method and TIN by Calculation Method; 759 water samples were analyzed for chlorate by EPA Method 300.1B; 769 water samples were analyzed for perchlorate by EPA Method 314.0 and TDS by Standard Method 2540C; four water samples were analyzed for total recoverable phenolics by EPA Method 420.4, conductivity by Standard Method 2510B, TOC by Standard Method 5310C, and TOX by EPA SW-846 Method 9020B. Field pH readings were recorded for 352 water samples. All wet chemistry data were assessed to be valid since none of the 3,662 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.

5.1 Precision and Accuracy

5.1.1 Surrogate

All surrogate %Rs associated to the chlorate analysis met the laboratory acceptance criteria.

5.1.2 MS/MSD Samples

MS/MSD samples were evaluated for anions, chlorate, hexavalent chromium, perchlorate, and phenolics. Twenty-six nitrate as nitrogen and 10 perchlorate results were qualified as detected estimated (J+) due to MS/MSD %Rs above the laboratory acceptance criteria.

Thirteen chlorate results were qualified as detected estimated (J-) or non-detected estimated (UJ) due to MS/MSD %Rs below the laboratory acceptance criteria.

Two chlorate results were qualified as detected estimated (J) due to an MS/MSD RPD above the laboratory acceptance criteria.

The details regarding the qualification of results are presented in Attachment D.

5.1.3 DUP Samples

DUP samples were evaluated for TDS. All DUP RPDs met the laboratory criteria.

5.1.4 LCS Samples

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

5.1.5 FD Samples

Due to RPDs outside the QAPP acceptance criteria of ≤ 30 , the perchlorate results in field duplicate samples PC-115R-20180509 and PC-115R-20180509-FD were qualified as detected estimated (J). The details regarding the qualification of results are presented in Attachment D.

Given the additional uncertainty in results reported below the PQL, no data were qualified when the RPDs were outside the QAPP acceptance criteria and the associated results in either the primary or duplicate samples were below the PQL or not detected.

5.2 Representativeness

5.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with all wet chemistry methods was conducted. All water samples met the 24-hour analysis holding time criteria for hexavalent chromium, 48-hour analysis holding time criteria for nitrate as nitrogen and nitrite as nitrogen, the 7-day analysis holding time criteria for TDS, and the 28-day analysis holding time criteria for ammonia as nitrogen, chlorate, chloride, conductivity, perchlorate, phenolics, sulfate, TOC, and TOX.

5.2.2 Blanks

Method blanks, EBs, and FBs were 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 Method Blanks

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

5.2.2.2 EBs and FBs

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

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 analytes detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

5.4 Completeness

The completeness level attained for wet chemistry 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 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all analyses throughout the project. The analyses were conducted within all specifications of the method.

No systematic variances in analytical performance were noted in the laboratory case narratives.

7.0 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.

7.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as 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 surrogate, MS/MSD, DUP, LCS/LCSD, and field duplicate percent recoveries and RPDs met acceptance criteria with the exceptions noted in Sections 2.1.2, 4.1.1, 4.1.3, 5.1.2 and 5.1.5.

7.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable.

7.3 Comparability

Sampling frequency requirements were met in obtaining necessary 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. The overall comparability is considered acceptable.

7.4 Completeness

Of the 21,219 total analytes reported, one VOC result was rejected. The completeness for the SDGs is as follows:

Parameter	Total Analytes	No. of Rejects	% Completeness
VOC	16,470	1	99.994
1,2,3-Trichloropropane & 1,4-Dioxane	540	0	100
Metals	619	0	100
Wet Chemistry	3,662	0	100
Total	21,219	1	99.995

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

7.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations, VOC SQLs, metals and wet chemistry PQLs met the project requirements and low level contamination in the method blanks, trip blanks, equipment blanks, and field blanks did not affect sensitivity.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the water sample laboratory analytical results generated during the January to June 2018 Annual Remedial Performance Sampling at the NERT site in Henderson, Nevada established that the overall project requirements and completeness levels were met. The VOC result that was rejected (R) is unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2A data validation all other results are considered valid and usable for all purposes.

9.0 REFERENCES

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

NDEP 2018. NDEP Data Validation Guidance. July.

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

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

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

_____.1983. EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Cincinnati, Ohio. March.

_____.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 ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41656	4401995911	PC-99R2/R3-20180103	440-199591-1	1/3/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401995911	PC-115R-20180103	440-199591-2	1/3/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401995911	PC-116R-20180103	440-199591-3	1/3/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401995911	PC-118-20180103	440-199591-4	1/3/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401995911	PC-119-20180103	440-199591-5	1/3/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401995911	PC-120-20180103	440-199591-6	1/3/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401995911	PC-121-20180103	440-199591-7	1/3/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401995911	PC-117-20180103	440-199591-8	1/3/2018	Stage 2A	Water	FD1				X		X		X	X				X			X
41656	4401995911	PC-133-20180103	440-199591-9	1/3/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401995911	PC-117-20180103-FD	440-199591-10	1/3/2018	Stage 2A	Water	FD1				X		X		X	X				X			X
41656	4401995911	PC-116R-20180103-EB	440-199591-11	1/3/2018	Stage 2A	Water	EB				X		X		X	X				X			X
41656	4401996251	PC-99R2/R3-20180103	440-199625-1	1/3/2018	Stage 2A	Water						X											
41656	4401996251	PC-115R-20180103	440-199625-2	1/3/2018	Stage 2A	Water						X											
41656	4401996251	PC-116R-20180103	440-199625-3	1/3/2018	Stage 2A	Water						X											
41656	4401996251	PC-118-20180103	440-199625-4	1/3/2018	Stage 2A	Water						X											
41656	4401996251	PC-119-20180103	440-199625-5	1/3/2018	Stage 2A	Water						X											
41656	4401996251	PC-120-20180103	440-199625-6	1/3/2018	Stage 2A	Water						X											
41656	4401996251	PC-121-20180103	440-199625-7	1/3/2018	Stage 2A	Water						X											
41656	4401996251	PC-117-20180103	440-199625-8	1/3/2018	Stage 2A	Water	FD1					X											
41656	4401996251	PC-133-20180103	440-199625-9	1/3/2018	Stage 2A	Water						X											
41656	4401996251	PC-117-20180103-FD	440-199625-10	1/3/2018	Stage 2A	Water	FD1					X											
41656	4401996251	PC-116R-20180103-EB	440-199625-11	1/3/2018	Stage 2A	Water	EB					X											
41656	4401996701	ART-1A-20180104	440-199670-1	1/4/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401996701	ART-2-20180104	440-199670-2	1/4/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401996701	ART-3A-20180104	440-199670-3	1/4/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401996701	ART-4-20180104	440-199670-4	1/4/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401996701	ART-7B-20180104	440-199670-5	1/4/2018	Stage 2A	Water	FD2				X		X		X	X				X			X
41656	4401996701	ART-8A-20180104	440-199670-6	1/4/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401996701	ART-9-20180104	440-199670-7	1/4/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401996701	PC-150-20180104	440-199670-8	1/4/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4401996701	ART-4-20180104-EB	440-199670-9	1/4/2018	Stage 2A	Water	EB				X		X		X	X				X			X
41656	4401996701	ART-7B-20180104-FD	440-199670-10	1/4/2018	Stage 2A	Water	FD2				X		X		X	X				X			X
41656	4401996701	ART-6-20180104	440-199670-11	1/4/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4402004081	I-AD-20180110	440-200408-1	1/10/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4402004081	I-AC-20180110	440-200408-2	1/10/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4402004081	I-K-20180110	440-200408-3	1/10/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4402004081	I-J-20180110	440-200408-4	1/10/2018	Stage 2A	Water					X		X		X	X				X			X

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41656	4402004081	I-Z-20180110	440-200408-5	1/10/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4402004081	I-I-20180110	440-200408-6	1/10/2018	Stage 2A	Water					X		X		X	X				X			X
41656	4402004081	I-V-20180110	440-200408-7	1/10/2018	Stage 2A	Water	FD3				X		X		X	X				X			X
41656	4402004081	I-I-20180110-EB	440-200408-8	1/10/2018	Stage 2A	Water	EB				X		X		X	X				X			X
41656	4402004081	I-V-20180110-FD	440-200408-9	1/10/2018	Stage 2A	Water	FD3				X		X		X	X				X			X
41656	4402005941	I-AD-20180110	440-200594-1	1/10/2018	Stage 2A	Water						X											
41656	4402005941	I-AC-20180110	440-200594-2	1/10/2018	Stage 2A	Water						X											
41656	4402005941	I-K-20180110	440-200594-3	1/10/2018	Stage 2A	Water						X											
41656	4402005941	I-J-20180110	440-200594-4	1/10/2018	Stage 2A	Water						X											
41656	4402005941	I-Z-20180110	440-200594-5	1/10/2018	Stage 2A	Water						X											
41656	4402005941	I-I-20180110	440-200594-6	1/10/2018	Stage 2A	Water						X											
41656	4402005941	I-V-20180110	440-200594-7	1/10/2018	Stage 2A	Water	FD3					X											
41656	4402005941	I-I-20180110-EB	440-200594-8	1/10/2018	Stage 2A	Water	EB					X											
41656	4402005941	I-V-20180110-FD	440-200594-9	1/10/2018	Stage 2A	Water	FD3					X											
41656	4402013271	ART-1A-20180104	440-201327-1	1/4/2018	Stage 2A	Water						X											
41656	4402013271	ART-2-20180104	440-201327-2	1/4/2018	Stage 2A	Water						X											
41656	4402013271	ART-3A-20180104	440-201327-3	1/4/2018	Stage 2A	Water						X											
41656	4402013271	ART-4-20180104	440-201327-4	1/4/2018	Stage 2A	Water						X											
41656	4402013271	ART-7B-20180104	440-201327-5	1/4/2018	Stage 2A	Water	FD2					X											
41656	4402013271	ART-8A-20180104	440-201327-6	1/4/2018	Stage 2A	Water						X											
41656	4402013271	ART-9-20180104	440-201327-7	1/4/2018	Stage 2A	Water						X											
41656	4402013271	PC-150-20180104	440-201327-8	1/4/2018	Stage 2A	Water						X											
41656	4402013271	ART-4-20180104-EB	440-201327-9	1/4/2018	Stage 2A	Water	EB					X											
41656	4402013271	ART-7B-20180104-FD	440-201327-10	1/4/2018	Stage 2A	Water	FD2					X											
41656	4402013271	ART-6-20180104	440-201327-11	1/4/2018	Stage 2A	Water						X											
41656	4402013721	LVW 6.05-0.5-20180115	440-201372-1	1/15/2018	Stage 2A	Water									X	X					X		
41656	4402013721	LVW 5.3-1-0.75-20180115	440-201372-2	1/15/2018	Stage 2A	Water									X	X					X		
41656	4402013721	LVW 5.3-2-0.75-20180115	440-201372-3	1/15/2018	Stage 2A	Water									X	X					X		
41656	4402013721	LVW 5.3-3-0.50-20180115	440-201372-4	1/15/2018	Stage 2A	Water									X	X					X		
41656	4402013721	LVW 3.5-1-1.75-20180115	440-201372-5	1/15/2018	Stage 2A	Water									X	X					X		
41656	4402013721	LVW 3.5-2-1.50-20180115	440-201372-6	1/15/2018	Stage 2A	Water									X	X					X		
41656	4402013721	LVW 3.5-3-1.50-20180115	440-201372-7	1/15/2018	Stage 2A	Water									X	X					X		
41656	4402013721	LVW 3.5-4-1.0-20180115	440-201372-8	1/15/2018	Stage 2A	Water									X	X					X		
41656	4402013721	LVW 3.5-5-2.0-20180115	440-201372-9	1/15/2018	Stage 2A	Water									X	X					X		
41656	4402013721	LVW 3.5-6-1.50-20180115	440-201372-10	1/15/2018	Stage 2A	Water	FD4								X	X					X		
41656	4402013721	LVW 3.5-6-1.50-20180115-FD	440-201372-11	1/15/2018	Stage 2A	Water	FD4								X	X					X		
41656	4402013721	LVW 0.55-1.25-20180115	440-201372-12	1/15/2018	Stage 2A	Water									X	X					X		

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41656	4402013721	LVW 4.2-1-1.0-20180116	440-201372-13	1/16/2018	Stage 2A	Water									X	X				X			
41656	4402013721	LVW 4.2-2-1.0-20180116	440-201372-14	1/16/2018	Stage 2A	Water									X	X				X			
41656	4402013721	LVW 4.2-3-2.0-20180116	440-201372-15	1/16/2018	Stage 2A	Water									X	X				X			
41656	4402013721	LVW 4.2-4-1.0-20180116	440-201372-16	1/16/2018	Stage 2A	Water									X	X				X			
41656	4402013721	LVW 7.2-1.25-20180116	440-201372-17	1/16/2018	Stage 2A	Water									X	X				X			
41656	4402013721	LVW 6.6-1-1.5-20180116	440-201372-18	1/16/2018	Stage 2A	Water									X	X				X			
41656	4402013721	LVW 6.6-2-1.5-20180116	440-201372-19	1/16/2018	Stage 2A	Water									X	X				X			
41656	4402013721	LVW 6.6-3-1.5-20180116	440-201372-20	1/16/2018	Stage 2A	Water									X	X				X			
41656	4402013721	LVW 6.6-3-20180116-FB	440-201372-21	1/16/2018	Stage 2A	Water	FB								X	X				X			
41656	4402017381	I-O-20180123	440-201738-1	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-W-20180123	440-201738-2	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-P-20180123	440-201738-3	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-H-20180123	440-201738-4	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-U-20180123	440-201738-5	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-T-20180123	440-201738-6	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-G-20180123	440-201738-7	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-Q-20180123	440-201738-8	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-F-20180123	440-201738-9	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-X-20180123	440-201738-10	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-N-20180123	440-201738-11	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-E-20180123	440-201738-12	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-M-20180123	440-201738-13	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-D-20180123	440-201738-14	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-C-20180123	440-201738-15	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-S-20180123	440-201738-16	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-L-20180123	440-201738-17	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-Y-20180123	440-201738-18	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-R-20180123	440-201738-19	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-B-20180123	440-201738-20	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-AA-20180123	440-201738-21	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017381	I-AR-20180123	440-201738-22	1/23/2018	Stage 2A	Water					X		X			X				X			X
41656	4402017781	I-O-20180123	440-201778-1	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-W-20180123	440-201778-2	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-P-20180123	440-201778-3	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-H-20180123	440-201778-4	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-U-20180123	440-201778-5	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-T-20180123	440-201778-6	1/23/2018	Stage 2A	Water						X											

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41656	4402017781	I-G-20180123	440-201778-7	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-Q-20180123	440-201778-8	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-F-20180123	440-201778-9	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-X-20180123	440-201778-10	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-N-20180123	440-201778-11	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-E-20180123	440-201778-12	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-M-20180123	440-201778-13	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-D-20180123	440-201778-14	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-C-20180123	440-201778-15	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-S-20180123	440-201778-16	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-L-20180123	440-201778-17	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-Y-20180123	440-201778-18	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-R-20180123	440-201778-19	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-B-20180123	440-201778-20	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-AA-20180123	440-201778-21	1/23/2018	Stage 2A	Water						X											
41656	4402017781	I-AR-20180123	440-201778-22	1/23/2018	Stage 2A	Water						X											
41656	4402019421	I-S-20180125	440-201942-1	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-L-20180125	440-201942-2	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-Y-20180125	440-201942-3	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-R-20180125	440-201942-4	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-B-20180125	440-201942-5	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-AA-20180125	440-201942-6	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-AR-20180125	440-201942-7	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-O-20180125	440-201942-8	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-W-20180125	440-201942-9	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-P-20180125	440-201942-10	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-H-20180125	440-201942-11	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-U-20180125	440-201942-12	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-T-20180125	440-201942-13	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-G-20180125	440-201942-14	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-Q-20180125	440-201942-15	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-F-20180125	440-201942-16	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-X-20180125	440-201942-17	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-N-20180125	440-201942-18	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-E-20180125	440-201942-19	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-M-20180125	440-201942-20	1/25/2018	Stage 2A	Water									X								
41656	4402019421	I-D-20180125	440-201942-21	1/25/2018	Stage 2A	Water									X								

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41656	4402019421	I-C-20180125	440-201942-22	1/25/2018	Stage 2A	Water									X								
41657	4402027781	PC-99R2/R3-20180206	440-202778-1	2/6/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402027781	PC-115R-20180206	440-202778-2	2/6/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402027781	PC-116R-20180206	440-202778-3	2/6/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402027781	PC-118-20180206	440-202778-4	2/6/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402027781	PC-119-20180206	440-202778-5	2/6/2018	Stage 2A	Water	FD5				X		X		X	X				X			X
41657	4402027781	PC-120-20180206	440-202778-6	2/6/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402027781	PC-121-20180206	440-202778-7	2/6/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402027781	PC-117-20180206	440-202778-8	2/6/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402027781	PC-133-20180206	440-202778-9	2/6/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402027781	PC-119-20180206-FD	440-202778-10	2/6/2018	Stage 2A	Water	FD5				X		X		X	X				X			X
41657	4402027781	PC-118-20180206-EB	440-202778-11	2/6/2018	Stage 2A	Water	EB				X		X		X	X				X			X
41657	4402027791	ART-6-20180206	440-202779-1	2/6/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402028921	ART-1A-20180207	440-202892-1	2/7/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402028921	ART-2-20180207	440-202892-2	2/7/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402028921	ART-3A-20180207	440-202892-3	2/7/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402028921	ART-4-20180207	440-202892-4	2/7/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402028921	ART-7B-20180207	440-202892-5	2/7/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402028921	ART-8A-20180207	440-202892-6	2/7/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402028921	ART-9-20180207	440-202892-7	2/7/2018	Stage 2A	Water	FD6				X		X		X	X				X			X
41657	4402028921	PC-150-20180207	440-202892-8	2/7/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402028921	ART-8A-20180207-EB	440-202892-9	2/7/2018	Stage 2A	Water	EB				X		X		X	X				X			X
41657	4402028921	ART-9-20180207-FD	440-202892-10	2/7/2018	Stage 2A	Water	FD6				X		X		X	X				X			X
41657	4402029841	I-AD-20180208	440-202984-1	2/8/2018	Stage 2A	Water					X	X	X		X	X				X			X
41657	4402029841	I-AC-20180208	440-202984-2	2/8/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402029841	I-K-20180208	440-202984-3	2/8/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402029841	I-J-20180208	440-202984-4	2/8/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402029841	I-Z-20180208	440-202984-5	2/8/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402029841	I-I-20180208	440-202984-6	2/8/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402029841	I-V-20180208	440-202984-7	2/8/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402030131	ART-1A-20180207	440-203013-1	2/7/2018	Stage 2A	Water						X											
41657	4402030131	ART-2-20180207	440-203013-2	2/7/2018	Stage 2A	Water						X											
41657	4402030131	ART-3A-20180207	440-203013-3	2/7/2018	Stage 2A	Water						X											
41657	4402030131	ART-4-20180207	440-203013-4	2/7/2018	Stage 2A	Water						X											
41657	4402030131	ART-7B-20180207	440-203013-5	2/7/2018	Stage 2A	Water						X											
41657	4402030131	ART-8A-20180207	440-203013-6	2/7/2018	Stage 2A	Water						X											
41657	4402030131	ART-9-20180207	440-203013-7	2/7/2018	Stage 2A	Water	FD6					X											

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41657	4402030131	PC-150-20180207	440-203013-8	2/7/2018	Stage 2A	Water						X											
41657	4402030131	ART-8A-20180207-EB	440-203013-9	2/7/2018	Stage 2A	Water	EB					X											
41657	4402030131	ART-9-20180207-FD	440-203013-10	2/7/2018	Stage 2A	Water	FD6					X											
41657	4402031651	I-AC-20180208	440-203165-2	2/8/2018	Stage 2A	Water						X											
41657	4402031651	I-K-20180208	440-203165-3	2/8/2018	Stage 2A	Water						X											
41657	4402031651	I-J-20180208	440-203165-4	2/8/2018	Stage 2A	Water						X											
41657	4402031651	I-Z-20180208	440-203165-5	2/8/2018	Stage 2A	Water						X											
41657	4402031651	I-I-20180208	440-203165-6	2/8/2018	Stage 2A	Water						X											
41657	4402031651	I-V-20180208	440-203165-7	2/8/2018	Stage 2A	Water						X											
41657	4402033211	I-O-20180213	440-203321-1	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-W-20180213	440-203321-2	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-P-20180213	440-203321-3	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-H-20180213	440-203321-4	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-U-20180213	440-203321-5	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-T-20180213	440-203321-6	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-G-20180213	440-203321-7	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-Q-20180213	440-203321-8	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-F-20180213	440-203321-9	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-X-20180213	440-203321-10	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-N-20180213	440-203321-11	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-E-20180213	440-203321-12	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-M-20180213	440-203321-13	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-D-20180213	440-203321-14	2/13/2018	Stage 2A	Water					X		X		X	X				X			X
41657	4402033211	I-C-20180213	440-203321-15	2/13/2018	Stage 2A	Water	FD7				X		X		X	X				X			X
41657	4402033211	I-C-20180213-FD	440-203321-16	2/13/2018	Stage 2A	Water	FD7				X		X		X	X				X			X
41657	4402033631	I-O-20180213	440-203363-1	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-W-20180213	440-203363-2	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-P-20180213	440-203363-3	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-H-20180213	440-203363-4	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-U-20180213	440-203363-5	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-T-20180213	440-203363-6	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-G-20180213	440-203363-7	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-Q-20180213	440-203363-8	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-F-20180213	440-203363-9	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-X-20180213	440-203363-10	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-N-20180213	440-203363-11	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-E-20180213	440-203363-12	2/13/2018	Stage 2A	Water						X											

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41657	4402033631	I-M-20180213	440-203363-13	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-D-20180213	440-203363-14	2/13/2018	Stage 2A	Water						X											
41657	4402033631	I-C-20180213	440-203363-15	2/13/2018	Stage 2A	Water	FD7					X											
41657	4402033631	I-C-20180213-FD	440-203363-16	2/13/2018	Stage 2A	Water	FD7					X											
41657	4402034611	M-44-20180214	440-203461-1	2/14/2018	Stage 2A	Water				X	X					X				X			
41657	4402034631	I-S-20180214	440-203463-1	2/14/2018	Stage 2A	Water				X		X		X	X					X			X
41657	4402034631	I-L-20180214	440-203463-2	2/14/2018	Stage 2A	Water				X		X		X	X					X			X
41657	4402034631	I-Y-20180214	440-203463-3	2/14/2018	Stage 2A	Water				X		X		X	X					X			X
41657	4402034631	I-R-20180214	440-203463-4	2/14/2018	Stage 2A	Water				X		X		X	X					X			X
41657	4402034631	I-B-20180214	440-203463-5	2/14/2018	Stage 2A	Water				X		X		X	X					X			X
41657	4402034631	I-AA-20180214	440-203463-6	2/14/2018	Stage 2A	Water				X		X		X	X					X			X
41657	4402034631	I-AR-20180214	440-203463-7	2/14/2018	Stage 2A	Water				X		X		X	X					X			X
41657	4402034631	I-B-20180214 EB	440-203463-8	2/14/2018	Stage 2A	Water	EB			X		X		X	X					X			X
41657	4402034801	LVW 3.5-5-2.0-20180213	440-203480-1	2/13/2018	Stage 2A	Water								X	X					X			
41657	4402034801	LVW 3.5-6-2.0-20180213	440-203480-2	2/13/2018	Stage 2A	Water								X	X					X			
41657	4402034831	LVW 7.2-0.5-20180212	440-203483-1	2/12/2018	Stage 2A	Water								X	X					X			
41657	4402034831	LVW 6.6-1-1.5-20180212	440-203483-2	2/12/2018	Stage 2A	Water								X	X					X			
41657	4402034831	LVW 6.6-2-1.0-20180212	440-203483-3	2/12/2018	Stage 2A	Water								X	X					X			
41657	4402034831	LVW 6.6-3-1.0-20180212	440-203483-4	2/12/2018	Stage 2A	Water								X	X					X			
41657	4402034831	LVW 6.05-0.8-20180212	440-203483-5	2/12/2018	Stage 2A	Water								X	X					X			
41657	4402034831	LVW 5.3-1-0.5-20180212	440-203483-6	2/12/2018	Stage 2A	Water								X	X					X			
41657	4402034831	LVW 5.3-2-0.5-20180212	440-203483-7	2/12/2018	Stage 2A	Water								X	X					X			
41657	4402034831	LVW 5.3-3-0.5-20180212	440-203483-8	2/12/2018	Stage 2A	Water								X	X					X			
41657	4402034831	LVW 5.3-3-20180212-FB	440-203483-9	2/12/2018	Stage 2A	Water	FB							X	X					X			
41657	4402034851	LVW 4.2-1-1.5-20180213	440-203485-1	2/13/2018	Stage 2A	Water								X	X					X			
41657	4402034851	LVW 4.2-2-2.5-20180213	440-203485-2	2/13/2018	Stage 2A	Water								X	X					X			
41657	4402034851	LVW 4.2-3-1.5-20180213	440-203485-3	2/13/2018	Stage 2A	Water								X	X					X			
41657	4402034851	LVW 4.2-4-2.0-20180213	440-203485-4	2/13/2018	Stage 2A	Water	FD8							X	X					X			
41657	4402034851	LVW 4.2-4-2.0-20180213-FD	440-203485-5	2/13/2018	Stage 2A	Water	FD8							X	X					X			
41657	4402034851	LVW 0.55-1.0-20180213	440-203485-6	2/13/2018	Stage 2A	Water	FD9							X	X					X			
41657	4402034851	LVW 0.55-1.0-20180213-FD	440-203485-7	2/13/2018	Stage 2A	Water	FD9							X	X					X			
41657	4402034851	LVW 3.5-1-1.5-20180213	440-203485-8	2/13/2018	Stage 2A	Water								X	X					X			
41657	4402034851	LVW 3.5-2-0.5-20180213	440-203485-9	2/13/2018	Stage 2A	Water								X	X					X			
41657	4402034851	LVW 3.5-3-2.0-20180213	440-203485-10	2/13/2018	Stage 2A	Water								X	X					X			
41657	4402034851	LVW 3.5-4-2.0-20180213	440-203485-11	2/13/2018	Stage 2A	Water								X	X					X			
41657	4402035401	I-S-20180214	440-203540-1	2/14/2018	Stage 2A	Water						X											
41657	4402035401	I-L-20180214	440-203540-2	2/14/2018	Stage 2A	Water						X											

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41657	4402035401	I-Y-20180214	440-203540-3	2/14/2018	Stage 2A	Water						X											
41657	4402035401	I-R-20180214	440-203540-4	2/14/2018	Stage 2A	Water						X											
41657	4402035401	I-B-20180214	440-203540-5	2/14/2018	Stage 2A	Water						X											
41657	4402035401	I-AA-20180214	440-203540-6	2/14/2018	Stage 2A	Water						X											
41657	4402035401	I-AR-20180214	440-203540-7	2/14/2018	Stage 2A	Water						X											
41657	4402035401	I-B-20180214-EB	440-203540-8	2/14/2018	Stage 2A	Water	EB					X											
41657	4402035531	M-37-20180215	440-203553-1	2/15/2018	Stage 2A	Water					X	X				X					X		
41657	4402035531	M-37-20180215-EB4	440-203553-2	2/15/2018	Stage 2A	Water	EB				X	X				X					X		
41657	4402035531	M-38-20180215	440-203553-3	2/15/2018	Stage 2A	Water					X	X				X					X		
41657	4402035541	M-80-20180215	440-203554-1	2/15/2018	Stage 2A	Water	FD10				X	X				X					X		
41657	4402035541	M-12A-20180215	440-203554-2	2/15/2018	Stage 2A	Water					X	X				X					X		
41657	4402035541	M-11-20180215	440-203554-3	2/15/2018	Stage 2A	Water					X	X				X					X		
41657	4402035541	M-11-20180215-FB4	440-203554-4	2/15/2018	Stage 2A	Water	FB				X	X				X					X		
41657	4402035541	M-80-20180215-FD4	440-203554-5	2/15/2018	Stage 2A	Water	FD10				X	X				X					X		
41657	4402035551	M-10-20180215	440-203555-1	2/15/2018	Stage 2A	Water			X		X	X	X	X	X	X	X				X		
41657	4402035561	PC-99R2/R3-20180206	440-203556-1	2/6/2018	Stage 2A	Water						X											
41657	4402035561	PC-115R-20180206	440-203556-2	2/6/2018	Stage 2A	Water						X											
41657	4402035561	PC-116R-20180206	440-203556-3	2/6/2018	Stage 2A	Water						X											
41657	4402035561	PC-118-20180206	440-203556-4	2/6/2018	Stage 2A	Water						X											
41657	4402035561	PC-119-20180206	440-203556-5	2/6/2018	Stage 2A	Water	FD5					X											
41657	4402035561	PC-120-20180206	440-203556-6	2/6/2018	Stage 2A	Water						X											
41657	4402035561	PC-121-20180206	440-203556-7	2/6/2018	Stage 2A	Water	FD11					X											
41657	4402035561	PC-117-20180206	440-203556-8	2/6/2018	Stage 2A	Water						X											
41657	4402035561	PC-133-20180206	440-203556-9	2/6/2018	Stage 2A	Water						X											
41657	4402035561	PC-119-20180206-FD	440-203556-10	2/6/2018	Stage 2A	Water	FD5					X											
41657	4402035561	PC-118-20180206-EB	440-203556-11	2/6/2018	Stage 2A	Water	EB					X											
41657	4402035571	ART-6-20180206	440-203557-1	2/6/2018	Stage 2A	Water						X											
41889	4402050271	PC-99R2/R3-20180306	440-205027-1	3/6/2018	Stage 2A	Water					X		X	X	X	X					X		X
41889	4402050271	PC-115R-20180306	440-205027-2	3/6/2018	Stage 2A	Water					X		X	X	X	X					X		X
41889	4402050271	PC-116R-20180306	440-205027-3	3/6/2018	Stage 2A	Water					X		X	X	X	X					X		X
41889	4402050271	PC-118-20180306	440-205027-4	3/6/2018	Stage 2A	Water					X		X	X	X	X					X		X
41889	4402050271	PC-119-20180306	440-205027-5	3/6/2018	Stage 2A	Water					X		X	X	X	X					X		X
41889	4402050271	PC-120-20180306	440-205027-6	3/6/2018	Stage 2A	Water					X		X	X	X	X					X		X
41889	4402050271	PC-121-20180306	440-205027-7	3/6/2018	Stage 2A	Water	FD11				X		X	X	X	X					X		X
41889	4402050271	PC-117-20180306	440-205027-8	3/6/2018	Stage 2A	Water					X		X	X	X	X					X		X
41889	4402050271	PC-133-20180306	440-205027-9	3/6/2018	Stage 2A	Water					X		X	X	X	X					X		X
41889	4402050271	PC-121-20180306-FD	440-205027-10	3/6/2018	Stage 2A	Water	FD11				X		X	X	X	X					X		X

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41889	4402050271	PC-120-20180306-EB	440-205027-11	3/6/2018	Stage 2A	Water	EB				X		X		X	X				X			X
41889	4402051531	PC-99R2/R3-20180306	440-205153-1	3/6/2018	Stage 2A	Water						X											
41889	4402051531	PC-115R-20180306	440-205153-2	3/6/2018	Stage 2A	Water						X											
41889	4402051531	PC-116R-20180306	440-205153-3	3/6/2018	Stage 2A	Water						X											
41889	4402051531	PC-118-20180306	440-205153-4	3/6/2018	Stage 2A	Water						X											
41889	4402051531	PC-119-20180306	440-205153-5	3/6/2018	Stage 2A	Water						X											
41889	4402051531	PC-120-20180306	440-205153-6	3/6/2018	Stage 2A	Water						X											
41889	4402051531	PC-121-20180306	440-205153-7	3/6/2018	Stage 2A	Water						X											
41889	4402051531	PC-117-20180306	440-205153-8	3/6/2018	Stage 2A	Water						X											
41889	4402051531	PC-133-20180306	440-205153-9	3/6/2018	Stage 2A	Water						X											
41889	4402051531	PC-121-20180306-FD	440-205153-10	3/6/2018	Stage 2A	Water	FD11					X											
41889	4402051531	PC-120-20180306-EB	440-205153-11	3/6/2018	Stage 2A	Water	EB					X											
41889	4402052961	LVW0.55-0.5-20180307	440-205296-1	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402052961	LVW3.5-1-1.5-20180307	440-205296-2	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402052961	LVW3.5-2-1.0-20180307	440-205296-3	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402052961	LVW3.5-3-1.0-20180307	440-205296-4	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402052961	LVW3.5-4-0.5-20180307	440-205296-5	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402052961	LVW3.5-5-2.0-20180307	440-205296-6	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402052961	LVW3.5-6-1.5-20180307	440-205296-7	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402052961	LVW5.3-1-1.0-20180307	440-205296-8	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402052961	LVW5.3-2-1.0-20180307	440-205296-9	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402052961	LVW5.3-3-1.0-20180307	440-205296-10	3/7/2018	Stage 2A	Water									X	X					X		
41889	4402054071	I-AD-20180308	440-205407-1	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054071	I-AC-20180308	440-205407-2	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054071	I-K-20180308	440-205407-3	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054071	I-J-20180308	440-205407-4	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054071	I-Z-20180308	440-205407-5	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054071	I-I-20180308	440-205407-6	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054071	I-V-20180308	440-205407-7	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054072	ART-1A-20180308	440-205407-8	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054072	ART-2-20180308	440-205407-9	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054072	ART-3A-20180308	440-205407-10	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054072	ART-4-20180308	440-205407-11	3/8/2018	Stage 2A	Water	FD12				X		X		X	X					X		X
41889	4402054072	ART-7B-20180308	440-205407-12	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054072	ART-8A-20180308	440-205407-13	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054072	ART-9-20180308	440-205407-14	3/8/2018	Stage 2A	Water					X		X		X	X					X		X
41889	4402054072	PC-150-20180308	440-205407-15	3/8/2018	Stage 2A	Water					X		X		X	X					X		X

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41889	4402054072	ART-3A-20180308 EB	440-205407-16	3/8/2018	Stage 2A	Water	EB				X		X		X	X				X			X
41889	4402054072	ART-4-20180308 FD	440-205407-17	3/8/2018	Stage 2A	Water	FD12				X		X		X	X				X			X
41889	4402054072	ART-6-20180308	440-205407-18	3/8/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402054331	LVW6.05-0.5-20180308	440-205433-1	3/8/2018	Stage 2A	Water	FD13								X	X				X			
41889	4402054331	LVW6.05-0.5-20180308-FD	440-205433-2	3/8/2018	Stage 2A	Water	FD13								X	X				X			
41889	4402054331	LVW6.6-1-1.5-20180308	440-205433-3	3/8/2018	Stage 2A	Water									X	X				X			
41889	4402054331	LVW6.6-2-1.0-20180308	440-205433-4	3/8/2018	Stage 2A	Water									X	X				X			
41889	4402054331	LVW6.6-3-1.0-20180308	440-205433-5	3/8/2018	Stage 2A	Water									X	X				X			
41889	4402054331	LVW7.2-1.0-20180308	440-205433-6	3/8/2018	Stage 2A	Water	FD14								X	X				X			
41889	4402054331	LVW7.2-1.0-20180308-FD	440-205433-7	3/8/2018	Stage 2A	Water	FD14								X	X				X			
41889	4402054331	LVW4.2-1-0.5-20180308	440-205433-8	3/8/2018	Stage 2A	Water									X	X				X			
41889	4402054331	LVW4.2-2-2.0-20180308	440-205433-9	3/8/2018	Stage 2A	Water									X	X				X			
41889	4402054331	LVW4.2-3-2.5-20180308	440-205433-10	3/8/2018	Stage 2A	Water									X	X				X			
41889	4402054331	LVW4.2-4-0.5-20180308	440-205433-11	3/8/2018	Stage 2A	Water									X	X				X			
41889	4402054331	LVW4.2-4-20180308-FB	440-205433-12	3/8/2018	Stage 2A	Water	FB								X	X				X			
41889	4402057441	I-O-20180313	440-205744-1	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-W-20180313	440-205744-2	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-P-20180313	440-205744-3	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-H-20180313	440-205744-4	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-U-20180313	440-205744-5	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-T-20180313	440-205744-6	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-G-20180313	440-205744-7	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-Q-20180313	440-205744-8	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-F-20180313	440-205744-9	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-X-20180313	440-205744-10	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-N-20180313	440-205744-11	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-E-20180313	440-205744-12	3/13/2018	Stage 2A	Water	FD15				X		X		X	X				X			X
41889	4402057441	I-M-20180313	440-205744-13	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-D-20180313	440-205744-14	3/13/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402057441	I-D-20180313-EB	440-205744-15	3/13/2018	Stage 2A	Water	EB				X		X		X	X				X			X
41889	4402057441	I-E-20180313-FD	440-205744-16	3/13/2018	Stage 2A	Water	FD15				X		X		X	X				X			X
41889	4402058861	I-S-20180314	440-205886-1	3/14/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402058861	I-L-20180314	440-205886-2	3/14/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402058861	I-Y-20180314	440-205886-3	3/14/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402058861	I-R-20180314	440-205886-4	3/14/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402058861	I-B-20180314	440-205886-5	3/14/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402058861	I-AA-20180314	440-205886-6	3/14/2018	Stage 2A	Water					X		X		X	X				X			X

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41889	4402058861	I-AR-20180314	440-205886-7	3/14/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402058861	I-AB-20180314	440-205886-8	3/14/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402058861	I-C-20180314	440-205886-9	3/14/2018	Stage 2A	Water					X		X		X	X				X			X
41889	4402059211	ART-1A-20180308	440-205921-1	3/8/2018	Stage 2A	Water						X											
41889	4402059211	ART-2-20180308	440-205921-2	3/8/2018	Stage 2A	Water						X											
41889	4402059211	ART-3A-20180308	440-205921-3	3/8/2018	Stage 2A	Water						X											
41889	4402059211	ART-4-20180308	440-205921-4	3/8/2018	Stage 2A	Water	FD12					X											
41889	4402059211	ART-7B-20180308	440-205921-5	3/8/2018	Stage 2A	Water						X											
41889	4402059211	ART-8A-20180308	440-205921-6	3/8/2018	Stage 2A	Water						X											
41889	4402059211	ART-9-20180308	440-205921-7	3/8/2018	Stage 2A	Water						X											
41889	4402059211	PC-150-20180308	440-205921-8	3/8/2018	Stage 2A	Water						X											
41889	4402059211	ART-3A-20180308 EB	440-205921-9	3/8/2018	Stage 2A	Water	EB					X											
41889	4402059211	ART-4-20180308 FD	440-205921-10	3/8/2018	Stage 2A	Water	FD12					X											
41889	4402059211	ART-6-20180308	440-205921-11	3/8/2018	Stage 2A	Water						X											
41889	4402059211	I-AD-20180308	440-205921-12	3/8/2018	Stage 2A	Water						X											
41889	4402059211	I-AC-20180308	440-205921-13	3/8/2018	Stage 2A	Water						X											
41889	4402059211	I-K-20180308	440-205921-14	3/8/2018	Stage 2A	Water						X											
41889	4402059211	I-J-20180308	440-205921-15	3/8/2018	Stage 2A	Water						X											
41889	4402059211	I-Z-20180308	440-205921-16	3/8/2018	Stage 2A	Water						X											
41889	4402059211	I-I-20180308	440-205921-17	3/8/2018	Stage 2A	Water						X											
41889	4402059211	I-V-20180308	440-205921-18	3/8/2018	Stage 2A	Water						X											
41889	4402077271	I-S-20180314	440-207727-1	3/14/2018	Stage 2A	Water						X											
41889	4402077271	I-L-20180314	440-207727-2	3/14/2018	Stage 2A	Water						X											
41889	4402077271	I-Y-20180314	440-207727-3	3/14/2018	Stage 2A	Water						X											
41889	4402077271	I-R-20180314	440-207727-4	3/14/2018	Stage 2A	Water						X											
41889	4402077271	I-B-20180314	440-207727-5	3/14/2018	Stage 2A	Water						X											
41889	4402077271	I-AA-20180314	440-207727-6	3/14/2018	Stage 2A	Water						X											
41889	4402077271	I-AR-20180314	440-207727-7	3/14/2018	Stage 2A	Water						X											
41889	4402077271	I-AB-20180314	440-207727-8	3/14/2018	Stage 2A	Water						X											
41889	4402077271	I-C-20180314	440-207727-9	3/14/2018	Stage 2A	Water						X											
41889	4402077281	I-F-20180313	440-207728-1	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-X-20180313	440-207728-2	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-N-20180313	440-207728-3	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-E-20180313	440-207728-4	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-M-20180313	440-207728-5	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-D-20180313	440-207728-6	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-D-20180313-EB	440-207728-7	3/13/2018	Stage 2A	Water	EB					X											

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
41889	4402077281	I-E-20180313-FD	440-207728-8	3/13/2018	Stage 2A	Water	FD15					X											
41889	4402077281	I-O-20180313	440-207728-9	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-W-20180313	440-207728-10	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-P-20180313	440-207728-11	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-H-20180313	440-207728-12	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-U-20180313	440-207728-13	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-T-20180313	440-207728-14	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-G-20180313	440-207728-15	3/13/2018	Stage 2A	Water						X											
41889	4402077281	I-Q-20180313	440-207728-16	3/13/2018	Stage 2A	Water						X											
42260	4402080511	PC-99R2/R3-20180404	440-208051-1	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080511	PC-115R-20180404	440-208051-2	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080511	PC-116R-20180404	440-208051-3	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080511	PC-118-20180404	440-208051-4	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080511	PC-119-20180404	440-208051-5	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080511	PC-120-20180404	440-208051-6	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080511	PC-121-20180404	440-208051-7	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080511	PC-117-20180404	440-208051-8	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080511	PC-133-20180404	440-208051-9	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080511	PC-133-20180404 FD	440-208051-10	4/4/2018	Stage 2A	Water	FD16				X		X		X	X				X			X
42260	4402080511	PC-99R2/R3-20180404 EB	440-208051-11	4/4/2018	Stage 2A	Water	EB				X		X		X	X				X			X
42260	4402080512	ART-1A-20180404	440-208051-12	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080512	ART-2A-20180404	440-208051-13	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080512	ART-3A-20180404	440-208051-14	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080512	ART-4-20180404	440-208051-15	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080512	ART-7B-20180404	440-208051-16	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080512	ART-8A-20180404	440-208051-17	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080512	ART-9-20180404	440-208051-18	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080512	PC-150-20180404	440-208051-19	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402080512	ART-7B-20180404 EB	440-208051-20	4/4/2018	Stage 2A	Water	EB				X		X		X	X				X			X
42260	4402080512	ART-6-20180404 FD	440-208051-21	4/4/2018	Stage 2A	Water	FD17				X		X		X	X				X			X
42260	4402080512	ART-6-20180404	440-208051-22	4/4/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402081401	PC-99R2/R3-20180404	440-208140-1	4/4/2018	Stage 2A	Water						X											
42260	4402081401	PC-115R-20180404	440-208140-2	4/4/2018	Stage 2A	Water						X											
42260	4402081401	PC-116R-20180404	440-208140-3	4/4/2018	Stage 2A	Water						X											
42260	4402081401	PC-118-20180404	440-208140-4	4/4/2018	Stage 2A	Water						X											
42260	4402081401	PC-119-20180404	440-208140-5	4/4/2018	Stage 2A	Water						X											
42260	4402081401	PC-120-20180404	440-208140-6	4/4/2018	Stage 2A	Water						X											

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42260	4402081401	PC-121-20180404	440-208140-7	4/4/2018	Stage 2A	Water						X											
42260	4402081401	PC-117-20180404	440-208140-8	4/4/2018	Stage 2A	Water						X											
42260	4402081401	PC-133-20180404	440-208140-9	4/4/2018	Stage 2A	Water						X											
42260	4402081401	PC-133-20180404-FD	440-208140-10	4/4/2018	Stage 2A	Water	FD16					X											
42260	4402081401	PC-99R2/R3-20180404-EB	440-208140-11	4/4/2018	Stage 2A	Water	EB					X											
42260	4402081402	ART-1A-20180404	440-208140-12	4/4/2018	Stage 2A	Water						X											
42260	4402081402	ART-2A-20180404	440-208140-13	4/4/2018	Stage 2A	Water						X											
42260	4402081402	ART-3A-20180404	440-208140-14	4/4/2018	Stage 2A	Water						X											
42260	4402081402	ART-4-20180404	440-208140-15	4/4/2018	Stage 2A	Water						X											
42260	4402081402	ART-7B-20180404	440-208140-16	4/4/2018	Stage 2A	Water						X											
42260	4402081402	ART-8A-20180404	440-208140-17	4/4/2018	Stage 2A	Water						X											
42260	4402081402	ART-9-20180404	440-208140-18	4/4/2018	Stage 2A	Water						X											
42260	4402081402	PC-150-20180404	440-208140-19	4/4/2018	Stage 2A	Water						X											
42260	4402081402	ART-7B-20180404-EB	440-208140-20	4/4/2018	Stage 2A	Water	EB					X											
42260	4402081402	ART-6-20180404-FD	440-208140-21	4/4/2018	Stage 2A	Water	FD17					X											
42260	4402081402	ART-6-20180404	440-208140-22	4/4/2018	Stage 2A	Water						X											
42260	4402082061	LVW0.55-1.0-20180404	440-208206-1	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW3.5-1-1.5-20180404	440-208206-2	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW3.5-2-1.0-20180404	440-208206-3	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW3.5-3-2.0-20180404	440-208206-4	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW3.5-4-1.0-20180404	440-208206-5	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW3.5-5-2.5-20180404	440-208206-6	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW3.5-6-2.0-20180404	440-208206-7	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW4.2-1-1.5-20180404	440-208206-8	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW4.2-2-1.5-20180404	440-208206-9	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW4.2-3-2.5-20180404	440-208206-10	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW4.2-4-2.0-20180404	440-208206-11	4/4/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW5.3-1-0.5-20180405	440-208206-12	4/5/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW5.3-2-0.5-20180405	440-208206-13	4/5/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW5.3-3-0.5-20180405	440-208206-14	4/5/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW6.05-0.5-20180405	440-208206-15	4/5/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW6.6-1-1.0-20180405	440-208206-16	4/5/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW6.6-2-1.0-20180405	440-208206-17	4/5/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW6.6-3-1.5-20180405	440-208206-18	4/5/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW7.2-1.0-20180405	440-208206-19	4/5/2018	Stage 2A	Water									X	X					X		
42260	4402082061	LVW7.2-1.0-20180405-FD	440-208206-20	4/5/2018	Stage 2A	Water	FD18								X	X					X		
42260	4402082061	LVW6.05-0.5-20180405-FD	440-208206-21	4/5/2018	Stage 2A	Water	FD19								X	X					X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42260	4402082061	LVW6.05-0.5-20180405-FB	440-208206-22	4/5/2018	Stage 2A	Water	FB								X	X				X			
42260	4402085191	I-AD-20180410	440-208519-1	4/10/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402085191	I-AC-20180410	440-208519-2	4/10/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402085191	I-K-20180410	440-208519-3	4/10/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402085191	I-J-20180410	440-208519-4	4/10/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402085191	I-Z-20180410	440-208519-5	4/10/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402085191	I-I-20180410	440-208519-6	4/10/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402085191	I-V-20180410	440-208519-7	4/10/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-S-20180411	440-208636-1	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-L-20180411	440-208636-2	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-Y-20180411	440-208636-3	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-R-20180411	440-208636-4	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-B-20180411	440-208636-5	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-AA-20180411	440-208636-6	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-AR-20180411	440-208636-7	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-AB-20180411	440-208636-8	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-C-20180411	440-208636-9	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-D-20180411	440-208636-10	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-M-20180411	440-208636-11	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402086361	I-E-20180411	440-208636-12	4/11/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402088811	I-S-20180411	440-208881-1	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-L-20180411	440-208881-2	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-Y-20180411	440-208881-3	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-R-20180411	440-208881-4	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-B-20180411	440-208881-5	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-AA-20180411	440-208881-6	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-AR-20180411	440-208881-7	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-AB-20180411	440-208881-8	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-C-20180411	440-208881-9	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-D-20180411	440-208881-10	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-M-20180411	440-208881-11	4/11/2018	Stage 2A	Water						X											
42260	4402088811	I-E-20180411	440-208881-12	4/11/2018	Stage 2A	Water						X											
42260	4402088821	I-AD-20180410	440-208882-1	4/10/2018	Stage 2A	Water						X											
42260	4402088821	I-AC-20180410	440-208882-2	4/10/2018	Stage 2A	Water						X											
42260	4402088821	I-K-20180410	440-208882-3	4/10/2018	Stage 2A	Water						X											
42260	4402088821	I-J-20180410	440-208882-4	4/10/2018	Stage 2A	Water						X											
42260	4402088821	I-Z-20180410	440-208882-5	4/10/2018	Stage 2A	Water						X											

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42260	4402088821	I-I-20180410	440-208882-6	4/10/2018	Stage 2A	Water						X											
42260	4402088821	I-V-20180410	440-208882-7	4/10/2018	Stage 2A	Water						X											
42260	4402092101	I-O-20180418	440-209210-1	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-W-20180418	440-209210-2	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-P-20180418	440-209210-3	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-H-20180418	440-209210-4	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-U-20180418	440-209210-5	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-T-20180418	440-209210-6	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-G-20180418	440-209210-7	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-G-20180418 EB	440-209210-8	4/18/2018	Stage 2A	Water	EB				X		X		X	X				X			X
42260	4402092101	I-Q-20180418	440-209210-9	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-F-20180418	440-209210-10	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-F-20180418 FD	440-209210-11	4/18/2018	Stage 2A	Water	FD20				X		X		X	X				X			X
42260	4402092101	I-X-20180418	440-209210-12	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402092101	I-N-20180418	440-209210-13	4/18/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402093011	I-O-20180418	440-209301-1	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-W-20180418	440-209301-2	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-P-20180418	440-209301-3	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-H-20180418	440-209301-4	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-U-20180418	440-209301-5	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-T-20180418	440-209301-6	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-G-20180418	440-209301-7	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-G-20180418-EB	440-209301-8	4/18/2018	Stage 2A	Water	EB					X											
42260	4402093011	I-Q-20180418	440-209301-9	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-F-20180418	440-209301-10	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-F-20180418-FD	440-209301-11	4/18/2018	Stage 2A	Water	FD20					X											
42260	4402093011	I-X-20180418	440-209301-12	4/18/2018	Stage 2A	Water						X											
42260	4402093011	I-N-20180418	440-209301-13	4/18/2018	Stage 2A	Water						X											
42260	4402093341	E1-1-20180419	440-209334-1	4/19/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402093341	E1-2-20180419	440-209334-2	4/19/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402093341	E1-3-20180419	440-209334-3	4/19/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402093341	E2-1-20180419	440-209334-4	4/19/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402093341	E2-4-20180419	440-209334-5	4/19/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402093341	E2-5-20180419	440-209334-6	4/19/2018	Stage 2A	Water					X		X		X	X				X			X
42260	4402093371	E1-1-20180419	440-209337-1	4/19/2018	Stage 2A	Water						X											
42260	4402093371	E1-2-20180419	440-209337-2	4/19/2018	Stage 2A	Water						X											
42260	4402093371	E1-3-20180419	440-209337-3	4/19/2018	Stage 2A	Water						X											

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42260	4402093371	E2-1-20180419	440-209337-4	4/19/2018	Stage 2A	Water						X											
42260	4402093371	E2-4-20180419	440-209337-5	4/19/2018	Stage 2A	Water						X											
42260	4402093371	E2-5-20180419	440-209337-6	4/19/2018	Stage 2A	Water						X											
42260	4402095661	E2-2-20180423	440-209566-1	4/23/2018	Stage 2A	Water				X		X		X	X					X			X
42260	4402095661	E2-2-20180423-FD	440-209566-2	4/23/2018	Stage 2A	Water	FD21			X		X		X	X					X			X
42260	4402095661	E2-3-20180423	440-209566-3	4/23/2018	Stage 2A	Water				X		X		X	X					X			X
42260	4402095661	E2-3-20180423-EB	440-209566-4	4/23/2018	Stage 2A	Water	EB			X		X		X	X					X			X
42260	4402102451	E2-2-20180423	440-210245-1	4/23/2018	Stage 2A	Water						X											
42260	4402102451	E2-2-20180423-FD	440-210245-2	4/23/2018	Stage 2A	Water	FD21					X											
42260	4402102451	E2-3-20180423	440-210245-3	4/23/2018	Stage 2A	Water						X											
42260	4402102451	E2-3-20180423-EB	440-210245-4	4/23/2018	Stage 2A	Water	EB					X											
42467	4402108451	PC-155A-20180508	440-210845-1	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108451	PC-155B-20180508	440-210845-2	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108451	PC-79-20180508	440-210845-3	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108451	PC-77-20180508	440-210845-4	5/8/2018	Stage 2A	Water		X	X			X		X	X					X			
42467	4402108451	PC-79-20180508-EB5	440-210845-5	5/8/2018	Stage 2A	Water	EB	X	X	X		X		X	X					X			
42467	4402108451	PC-110-20180508	440-210845-6	5/8/2018	Stage 2A	Water		X	X			X		X	X					X			
42467	4402108471	PC-156A-20180508	440-210847-1	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108471	PC-156B-20180508	440-210847-2	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108471	PC-60-20180508	440-210847-3	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108471	PC-59-20180508	440-210847-4	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108491	PC-91-20180508	440-210849-1	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108491	PC-62-20180508	440-210849-2	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108491	PC-108-20180508	440-210849-3	5/8/2018	Stage 2A	Water		X	X			X		X	X					X			
42467	4402108491	PC-94-20180508	440-210849-4	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108501	PC-90-20180508	440-210850-1	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108501	PC-86-20180508	440-210850-2	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108501	PC-82-20180508	440-210850-3	5/8/2018	Stage 2A	Water		X	X			X		X	X					X			
42467	4402108501	PC-74-20180508	440-210850-4	5/8/2018	Stage 2A	Water		X	X			X		X	X					X			
42467	4402108501	PC-74-20180508-EB15	440-210850-5	5/8/2018	Stage 2A	Water	EB	X	X			X		X	X					X			
42467	4402108501	PC-96-20180508	440-210850-6	5/8/2018	Stage 2A	Water		X	X			X		X	X					X			
42467	4402108501	PC-56-20180508	440-210850-7	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108501	PC-56-20180508-FB11	440-210850-8	5/8/2018	Stage 2A	Water	FB	X	X	X		X		X	X					X			
42467	4402108501	PC-58-20180508	440-210850-9	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108501	PC-97-20180508	440-210850-10	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402108501	PC-97-20180508-TB1	440-210850-11	5/8/2018	Stage 2A	Water	TB	X	X														
42467	4402108521	PC-157B-20180508	440-210852-1	5/8/2018	Stage 2A	Water		X	X	X		X		X	X					X			

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402108521	PC-157B-20180508-FD5	440-210852-2	5/8/2018	Stage 2A	Water	FD22	X	X		X		X		X	X				X			
42467	4402108521	PC-157A-20180508	440-210852-3	5/8/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402108521	HM-2-20180508	440-210852-4	5/8/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402108521	DBMW-4-20180508	440-210852-5	5/8/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402108631	ART-1A-20180508	440-210863-1	5/8/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402108631	ART-2-20180508	440-210863-2	5/8/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402108631	ART-3A-20180508	440-210863-3	5/8/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402108631	ART-4-20180508	440-210863-4	5/8/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402108631	ART-7B-20180508	440-210863-5	5/8/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402108631	ART-8A-20180508	440-210863-6	5/8/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402108631	ART-9-20180508	440-210863-7	5/8/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402108631	PC-150-20180508	440-210863-8	5/8/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402108631	ART-9-20180508-EB	440-210863-9	5/8/2018	Stage 2A	Water	EB				X		X		X	X				X			X
42467	4402108631	ART-8A-20180508-FD	440-210863-10	5/8/2018	Stage 2A	Water	FD23				X		X		X	X				X			X
42467	4402108631	ART-6-20180508	440-210863-11	5/8/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402109931	PC-99R2/R3-20180509	440-210993-1	5/9/2018	Stage 2A	Water						X											
42467	4402109931	PC-115R-20180509	440-210993-2	5/9/2018	Stage 2A	Water						X											
42467	4402109931	PC-116R-20180509	440-210993-3	5/9/2018	Stage 2A	Water						X											
42467	4402109931	PC-118-20180509	440-210993-4	5/9/2018	Stage 2A	Water						X											
42467	4402109931	PC-119-20180509	440-210993-5	5/9/2018	Stage 2A	Water						X											
42467	4402109931	PC-120-20180509	440-210993-6	5/9/2018	Stage 2A	Water						X											
42467	4402109931	PC-121-20180509	440-210993-7	5/9/2018	Stage 2A	Water						X											
42467	4402109931	PC-117-20180509	440-210993-8	5/9/2018	Stage 2A	Water						X											
42467	4402109931	PC-116R-20180509-EB	440-210993-9	5/9/2018	Stage 2A	Water	EB					X											
42467	4402109931	PC-115R-20180509-FD	440-210993-10	5/9/2018	Stage 2A	Water	FD24					X											
42467	4402110091	PC-99R2/R3-20180509	440-211009-1	5/9/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402110091	PC-115R-20180509	440-211009-2	5/9/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402110091	PC-116R-20180509	440-211009-3	5/9/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402110091	PC-118-20180509	440-211009-4	5/9/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402110091	PC-119-20180509	440-211009-5	5/9/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402110091	PC-120-20180509	440-211009-6	5/9/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402110091	PC-121-20180509	440-211009-7	5/9/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402110091	PC-117-20180509	440-211009-8	5/9/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402110091	PC-116R-20180509-EB	440-211009-9	5/9/2018	Stage 2A	Water	EB				X		X		X	X				X			X
42467	4402110091	PC-115R-20180509-FD	440-211009-10	5/9/2018	Stage 2A	Water	FD25				X		X		X	X				X			X
42467	4402110271	MW-K5-20180509	440-211027-1	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-4-20180509	440-211027-2	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402110271	ARP-6B-20180509	440-211027-3	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	ARP-6B-20180509-EB6	440-211027-4	5/9/2018	Stage 2A	Water	EB	X	X		X		X		X	X				X			
42467	4402110271	ARP-5A-20180509	440-211027-5	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-53-20180509	440-211027-6	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-2-20180509	440-211027-7	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	MW-K4-20180509	440-211027-8	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	ARP-3A-20180509	440-211027-9	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	ARP-2A-20180509	440-211027-10	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	ARP-2A-20180509-EB7	440-211027-11	5/9/2018	Stage 2A	Water	EB	X	X		X		X		X	X				X			
42467	4402110271	PC-142-20180509	440-211027-12	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-55-20180509	440-211027-13	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-101R-20180509	440-211027-14	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-135A-20180509	440-211027-15	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-144-20180509	440-211027-16	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-103-20180509	440-211027-17	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-154-20180509	440-211027-18	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-154-20180509-FB5	440-211027-19	5/9/2018	Stage 2A	Water	FB	X	X		X		X		X	X				X			
42467	4402110271	HMW-14-20180509	440-211027-20	5/9/2018	Stage 2A	Water		X	X				X		X	X				X			
42467	4402110271	HMW-13-20180509	440-211027-21	5/9/2018	Stage 2A	Water		X	X				X		X	X				X			
42467	4402110271	ARP-7-20180509	440-211027-22	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-122-20180509	440-211027-23	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-122-20180509-FB7	440-211027-24	5/9/2018	Stage 2A	Water	FB	X	X		X		X		X	X				X			
42467	4402110271	PC-145-20180509	440-211027-25	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	HMW-13-20180509-FB15	440-211027-26	5/9/2018	Stage 2A	Water	FB	X	X				X		X	X				X			
42467	4402110271	PC-134D-20180509	440-211027-27	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-134D-20180509-TB2	440-211027-28	5/9/2018	Stage 2A	Water	TB	X	X														
42467	4402110271	HMW-14-20180509-TB3	440-211027-29	5/9/2018	Stage 2A	Water	TB	X	X														
42467	4402110271	PC-134A-20180509	440-211027-30	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-143-20180509	440-211027-31	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-149-20180509	440-211027-32	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-98R-20180509	440-211027-33	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-136-20180509	440-211027-34	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-136-20180509-FD6	440-211027-35	5/9/2018	Stage 2A	Water	FD25	X	X		X		X		X	X				X			
42467	4402110271	PC-137-20180509	440-211027-36	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402110271	PC-137D-20180509	440-211027-37	5/9/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	ARP-1-20180510	440-211101-1	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	ARP-1-20180510-TB4	440-211101-2	5/10/2018	Stage 2A	Water	TB	X	X														

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402111011	PC-18-20180510	440-211101-3	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-148-20180510	440-211101-4	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-124-20180510	440-211101-5	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-123-20180510	440-211101-6	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	TR-3-20180510	440-211101-7	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-18-20180510-TB5	440-211101-8	5/10/2018	Stage 2A	Water	TB	X	X														
42467	4402111011	PC-159-20180510	440-211101-9	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	HMW-15-20180510	440-211101-10	5/10/2018	Stage 2A	Water		X	X				X		X	X				X			
42467	4402111011	HMW-15-20180510-FD15	440-211101-11	5/10/2018	Stage 2A	Water	FD26	X	X				X		X	X				X			
42467	4402111011	PC-126-20180510	440-211101-12	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-24-20180510	440-211101-13	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-127-20180510	440-211101-14	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-50-20180510	440-211101-15	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-160-20180510	440-211101-16	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	MC-53-20180510	440-211101-17	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-128-20180510	440-211101-18	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-129-20180510	440-211101-19	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-151-20180510	440-211101-20	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-151-20180510-FD7	440-211101-21	5/10/2018	Stage 2A	Water	FD27	X	X		X		X		X	X				X			
42467	4402111011	PC-158-20180510	440-211101-22	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-125-20180510	440-211101-23	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-130-20180510	440-211101-24	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-152-20180510	440-211101-25	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	M-44-20180510	440-211101-26	5/10/2018	Stage 2A	Water		X	X		X	X	X		X	X				X			
42467	4402111011	M-44-20180510-FB4	440-211101-27	5/10/2018	Stage 2A	Water	FB	X	X		X	X	X		X	X				X			
42467	4402111011	M-152-20180510	440-211101-28	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	M-156-20180510	440-211101-29	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-131-20180510	440-211101-30	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	HMW-16-20180510	440-211101-31	5/10/2018	Stage 2A	Water		X	X				X		X	X				X			
42467	4402111011	PC-107-20180510	440-211101-32	5/10/2018	Stage 2A	Water		X	X				X		X	X				X			
42467	4402111011	PC-132-20180510	440-211101-33	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-153R-20180510	440-211101-34	5/10/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402111011	PC-131-20180510-FB6	440-211101-35	5/10/2018	Stage 2A	Water	FB	X	X		X		X		X	X				X			
42467	4402111111	PC-133-20180510	440-211111-1	5/10/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402111112	I-AD-20180510	440-211111-2	5/10/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402111112	I-AC-20180510	440-211111-3	5/10/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402111112	I-K-20180510	440-211111-4	5/10/2018	Stage 2A	Water					X		X		X	X				X			X

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402111112	I-J-20180510	440-211111-5	5/10/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402111112	I-Z-20180510	440-211111-6	5/10/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402111112	I-I-20180510	440-211111-7	5/10/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402111112	I-V-20180510	440-211111-8	5/10/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402111112	I-I-20180510-EB	440-211111-9	5/10/2018	Stage 2A	Water	EB				X		X		X	X				X			X
42467	4402111491	LVW 0.55-0.5-20180510	440-211149-1	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 3.5-1-1.5-20180510	440-211149-2	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 3.5-2-1.5-20180510	440-211149-3	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 3.5-3-1.0-20180510	440-211149-4	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 3.5-4-2.0-20180510	440-211149-5	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 3.5-5-2.5-20180510	440-211149-6	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 3.5-6-2.0-20180510	440-211149-7	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.2-1-2.0-20180510	440-211149-8	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.2-2-5.0-20180510	440-211149-9	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.2-3-3.0-20180510	440-211149-10	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.2-4-1.5-20180510	440-211149-11	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.2-1-20180510-FB	440-211149-12	5/10/2018	Stage 2A	Water	FB								X	X				X			
42467	4402111491	LVW 4.75-1-1.0-20180510	440-211149-13	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.75-2-1.0-20180510	440-211149-14	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.75-3-0.5-20180510	440-211149-15	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.75-4-1.0-20180510	440-211149-16	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.75-5-1.0-20180510	440-211149-17	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 4.75-5-1.0-20180510-FD	440-211149-18	5/10/2018	Stage 2A	Water	FD28								X	X				X			
42467	4402111491	LVW 5.3-1-0.5-20180510	440-211149-19	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 5.3-2-0.5-20180510	440-211149-20	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 5.3-3-0.5-20180510	440-211149-21	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 6.05-0.5-20180510	440-211149-22	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 6.05-0.5-20180510-FD	440-211149-23	5/10/2018	Stage 2A	Water	FD29								X	X				X			
42467	4402111491	LVW 6.6-3-1.0-20180510	440-211149-24	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 6.6-2-0.5-20180510	440-211149-25	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 6.6-1-1.0-20180510	440-211149-26	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 7.2-1.0-20180510	440-211149-27	5/10/2018	Stage 2A	Water									X	X				X			
42467	4402111491	LVW 7.2-1.0-20180510-FD	440-211149-28	5/10/2018	Stage 2A	Water	FD30								X	X				X			
42467	4402111491	LVW 7.2-20180510-FB	440-211149-29	5/10/2018	Stage 2A	Water	FB								X	X				X			
42467	4402111681	I-AD-20180510	440-211168-1	5/10/2018	Stage 2A	Water						X											
42467	4402111681	I-AC-20180510	440-211168-2	5/10/2018	Stage 2A	Water						X											
42467	4402111681	I-K-20180510	440-211168-3	5/10/2018	Stage 2A	Water						X											

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402111681	I-J-20180510	440-211168-4	5/10/2018	Stage 2A	Water						X											
42467	4402111681	I-Z-20180510	440-211168-5	5/10/2018	Stage 2A	Water						X											
42467	4402111681	I-I-20180510	440-211168-6	5/10/2018	Stage 2A	Water						X											
42467	4402111681	I-V-20180510	440-211168-7	5/10/2018	Stage 2A	Water						X											
42467	4402111681	I-I-20180510-EB	440-211168-8	5/10/2018	Stage 2A	Water	EB					X											
42467	4402111691	PC-133-20180510	440-211169-1	5/10/2018	Stage 2A	Water						X											
42467	4402111701	ART-1A-20180508	440-210873-1	5/8/2018	Stage 2A	Water						X											
42467	4402111701	ART-2-20180508	440-210873-2	5/8/2018	Stage 2A	Water						X											
42467	4402111701	ART-3A-20180508	440-210873-3	5/8/2018	Stage 2A	Water						X											
42467	4402111701	ART-4-20180508	440-210873-4	5/8/2018	Stage 2A	Water						X											
42467	4402111701	ART-7B-20180508	440-210873-5	5/8/2018	Stage 2A	Water						X											
42467	4402111701	ART-8A-20180508	440-210873-6	5/8/2018	Stage 2A	Water						X											
42467	4402111701	ART-9-20180508	440-210873-7	5/8/2018	Stage 2A	Water						X											
42467	4402111701	PC-150-20180508	440-210873-8	5/8/2018	Stage 2A	Water						X											
42467	4402111701	ART-9-20180508-EB	440-210873-9	5/8/2018	Stage 2A	Water	EB					X											
42467	4402111701	ART-8A-20180508-FD	440-210873-10	5/8/2018	Stage 2A	Water	FD23					X											
42467	4402111701	ART-6-20180508	440-210873-11	5/8/2018	Stage 2A	Water						X											
42467	4402112021	M-23-20180511	440-211202-1	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	MC-51-20180511	440-211202-2	5/11/2018	Stage 2A	Water		X	X				X	X	X					X			
42467	4402112021	MC-97-20180511	440-211202-3	5/11/2018	Stage 2A	Water		X	X				X	X	X					X			
42467	4402112021	MC-7-20180511	440-211202-4	5/11/2018	Stage 2A	Water		X	X				X	X	X					X			
42467	4402112021	PC-28-20180511	440-211202-5	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	PC-66-20180511	440-211202-6	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	MC-3-20180511	440-211202-7	5/11/2018	Stage 2A	Water		X	X				X	X	X					X			
42467	4402112021	M-48A-20180511	440-211202-8	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	PC-54-20180511	440-211202-9	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	H-56R-20180511	440-211202-10	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	H-56R-20180511-FB8	440-211202-11	5/11/2018	Stage 2A	Water	FB	X	X		X		X	X	X					X			
42467	4402112021	MC-69-20180511	440-211202-12	5/11/2018	Stage 2A	Water		X	X				X	X	X					X			
42467	4402112021	PC-65-20180511	440-211202-13	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	PC-31-20180511	440-211202-14	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	M-57A-20180511	440-211202-15	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	M-7B-20180511	440-211202-16	5/11/2018	Stage 2A	Water		X	X	X			X	X	X		X	X	X	X	X	X	
42467	4402112021	H-58R-20180511	440-211202-17	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	TR-1-20180511	440-211202-18	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			
42467	4402112021	TR-1-20180511-FD9	440-211202-19	5/11/2018	Stage 2A	Water	FD31	X	X		X		X	X	X					X			
42467	4402112021	TR-2-20180511	440-211202-20	5/11/2018	Stage 2A	Water		X	X		X		X	X	X					X			

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402112021	H-58R-20180511-TB6	440-211202-21	5/11/2018	Stage 2A	Water	TB	X	X														
42467	4402112021	TR-2-20180511-TB7	440-211202-22	5/11/2018	Stage 2A	Water	TB	X	X														
42467	4402112021	PC-64-20180511	440-211202-23	5/11/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112021	PC-64-20180511-FD8	440-211202-24	5/11/2018	Stage 2A	Water	FD32	X	X		X		X		X	X					X		
42467	4402112021	PC-67-20180511	440-211202-25	5/11/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112021	PC-40R-20180511	440-211202-26	5/11/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112021	MC-6-20180511	440-211202-27	5/11/2018	Stage 2A	Water		X	X				X		X	X					X		
42467	4402112021	MC-93-20180511	440-211202-28	5/11/2018	Stage 2A	Water		X	X				X		X	X					X		
42467	4402112021	MC-65R2-20180511	440-211202-29	5/11/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112021	PC-72-20180511	440-211202-30	5/11/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112021	PC-71-20180511	440-211202-31	5/11/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112021	AA-01-20180511	440-211202-32	5/11/2018	Stage 2A	Water		X	X				X		X	X					X		
42467	4402112021	PC-21A-20180511	440-211202-33	5/11/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112021	PC-21A-20180511-EB9	440-211202-34	5/11/2018	Stage 2A	Water	EB	X	X		X		X		X	X					X		
42467	4402112731	M-136-20180514	440-211273-1	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-129-20180514	440-211273-2	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-38-20180514	440-211273-3	5/14/2018	Stage 2A	Water		X	X		X	X	X		X	X					X		
42467	4402112731	M-38-20180514-EB4	440-211273-4	5/14/2018	Stage 2A	Water	EB	X	X		X	X	X		X	X					X		
42467	4402112731	MC-50-20180514	440-211273-5	5/14/2018	Stage 2A	Water		X	X				X		X	X					X		
42467	4402112731	M-125-20180514	440-211273-6	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-135-20180514	440-211273-7	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-161D-20180514	440-211273-8	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-64-20180514	440-211273-9	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-64-20180514-EB8	440-211273-10	5/14/2018	Stage 2A	Water	EB	X	X		X		X		X	X					X		
42467	4402112731	MW-16-20180514	440-211273-11	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-71-20180514	440-211273-12	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-37-20180514	440-211273-13	5/14/2018	Stage 2A	Water		X	X		X	X	X		X	X					X		
42467	4402112731	M-37-20180514-FD4	440-211273-14	5/14/2018	Stage 2A	Water	FD33	X	X		X	X	X		X	X					X		
42467	4402112731	TR-6-20180514	440-211273-15	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	TR-5-20180514	440-211273-16	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	TR-12-20180514	440-211273-17	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	MW-16-20180514-TB8	440-211273-18	5/14/2018	Stage 2A	Water	TB	X	X														
42467	4402112731	M-71-20180514-TB9	440-211273-19	5/14/2018	Stage 2A	Water	TB	X	X														
42467	4402112731	M-69-20180514	440-211273-20	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	TR-4-20180514	440-211273-21	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-162D-20180514	440-211273-22	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		
42467	4402112731	M-70-20180514	440-211273-23	5/14/2018	Stage 2A	Water		X	X		X		X		X	X					X		

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402112731	M-70-20180514-FB9	440-211273-24	5/14/2018	Stage 2A	Water	FB	X	X		X		X		X	X				X			
42467	4402112731	M-161-20180514	440-211273-25	5/14/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402112731	M-134-20180514	440-211273-26	5/14/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402112731	M-22A-20180514	440-211273-27	5/14/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402112731	M-150-20180514	440-211273-28	5/14/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402112731	M-65-20180514	440-211273-29	5/14/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402112732	H-28A-20180514	440-211273-30	5/14/2018	Stage 2A	Water		X	X	X			X		X	X		X	X	X	X	X	
42467	4402112732	M-5A-20180514	440-211273-31	5/14/2018	Stage 2A	Water		X	X	X			X		X	X		X	X	X	X	X	
42467	4402112732	M-6A-20180514	440-211273-32	5/14/2018	Stage 2A	Water		X	X	X			X		X	X		X	X	X	X	X	
42467	4402112733	M-126-20180514	440-211273-33	5/14/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402112733	M-126-20180514-FD10	440-211273-34	5/14/2018	Stage 2A	Water	FD34	X	X		X		X		X	X				X			
42467	4402112733	M-25-20180514	440-211273-35	5/14/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	DFW-03-20180515	440-211382-1	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	DFW-03-20180515-FD11	440-211382-2	5/15/2018	Stage 2A	Water	FD35	X	X		X		X		X	X				X			
42467	4402113821	DFW-04-20180515	440-211382-3	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	DFW-05-20180515	440-211382-4	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	TR-11-20180515	440-211382-5	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-155-20180515	440-211382-6	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-165-20180515	440-211382-7	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-182-20180515	440-211382-8	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-181-20180515	440-211382-9	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-31A-20180515	440-211382-10	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-31A-20180515-FB10	440-211382-11	5/15/2018	Stage 2A	Water	FB	X	X		X		X		X	X				X			
42467	4402113821	TR-11-20180515-TB10	440-211382-12	5/15/2018	Stage 2A	Water	TB	X	X														
42467	4402113821	M-155-20180515-TB11	440-211382-13	5/15/2018	Stage 2A	Water	TB	X	X														
42467	4402113821	M-72-20180515	440-211382-14	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-66-20180515	440-211382-15	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-164-20180515	440-211382-18	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-162-20180515	440-211382-19	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-74-20180515	440-211382-20	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-73-20180515	440-211382-21	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-73-20180515-EB10	440-211382-22	5/15/2018	Stage 2A	Water	EB	X	X		X		X		X	X				X			
42467	4402113821	M-79-20180515	440-211382-23	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-14A-20180515	440-211382-24	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-68-20180515	440-211382-25	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-80-20180515	440-211382-26	5/15/2018	Stage 2A	Water		X	X		X	X	X		X	X				X			
42467	4402113821	M-163-20180515	440-211382-27	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402113821	M-92-20180515	440-211382-28	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-93-20180515	440-211382-29	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402113821	M-93-20180515-FB13	440-211382-30	5/15/2018	Stage 2A	Water	FB	X	X		X		X		X	X				X			
42467	4402113821	M-154-20180515	440-211382-31	5/15/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-123-20180516	440-211485-1	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-124-20180516	440-211485-2	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-186D-20180516	440-211485-3	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-83-20180516	440-211485-4	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	UFMW-01D-20180516	440-211485-5	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	UFMW-02D-20180516	440-211485-6	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-52-20180516	440-211485-7	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-120-20180516	440-211485-8	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-117-20180516	440-211485-9	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-144-20180516	440-211485-10	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-144-20180516-EB11	440-211485-11	5/16/2018	Stage 2A	Water	EB	X	X		X		X		X	X				X			
42467	4402114851	M-52-20180516-TB12	440-211485-12	5/16/2018	Stage 2A	Water	TB	X	X														
42467	4402114851	M-120-20180516-TB13	440-211485-13	5/16/2018	Stage 2A	Water	TB	X	X														
42467	4402114851	UFMW-05D-20180516	440-211485-14	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	UFMW-06D-20180516	440-211485-15	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-151-20180516	440-211485-16	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-121-20180516	440-211485-17	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-118-20180516	440-211485-18	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	TR-10-20180516	440-211485-19	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	TR-9-20180516	440-211485-20	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-137-20180516	440-211485-21	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-81A-20180516	440-211485-22	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-76-20180516	440-211485-23	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-115-20180516	440-211485-24	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-142-20180516	440-211485-25	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-13-20180516	440-211485-26	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-189-20180516	440-211485-27	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-193-20180516	440-211485-28	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-193-20180516-FD14	440-211485-29	5/16/2018	Stage 2A	Water	FD36	X	X		X		X		X	X				X			
42467	4402114851	DFW-06-20180516	440-211485-30	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-67-20180516	440-211485-31	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-133-20180516	440-211485-32	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-19-20180516	440-211485-33	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402114851	M-75-20180516	440-211485-34	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-75-20180516-FB12	440-211485-35	5/16/2018	Stage 2A	Water	FB	X	X		X		X		X	X				X			
42467	4402114851	UFMW-04D-20180516	440-211485-36	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-132-20180516	440-211485-37	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-132-20180516-EB12	440-211485-38	5/16/2018	Stage 2A	Water	EB	X	X		X		X		X	X				X			
42467	4402114851	M-147-20180516	440-211485-39	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-35-20180516	440-211485-40	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402114851	M-153-20180516	440-211485-41	5/16/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-149-20180517	440-211582-1	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-190-20180517	440-211582-2	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	TR-7-20180517	440-211582-3	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	TR-8-20180517	440-211582-4	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	TR-8-20180517-FD13	440-211582-5	5/17/2018	Stage 2A	Water	FD37	X	X		X		X		X	X				X			
42467	4402115821	M-140-20180517	440-211582-6	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-2A-20180517	440-211582-7	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-2A-20180517-FB14	440-211582-8	5/17/2018	Stage 2A	Water	FB	X	X		X		X		X	X				X			
42467	4402115821	M-138-20180517	440-211582-9	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-138-20180517-EB13	440-211582-10	5/17/2018	Stage 2A	Water	EB	X	X		X		X		X	X				X			
42467	4402115821	M-148A-20180517	440-211582-11	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-32-20180517	440-211582-12	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-33-20180517	440-211582-13	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-139-20180517	440-211582-14	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-145-20180517	440-211582-15	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	UFMW-3D-20180517	440-211582-16	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-191-20180517	440-211582-17	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-192-20180517	440-211582-18	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-186-20180517	440-211582-19	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-186-20180517-EB14	440-211582-20	5/17/2018	Stage 2A	Water	EB	X	X		X		X		X	X				X			
42467	4402115821	M-141-20180517	440-211582-22	5/17/2018	Stage 2A	Water		X	X		X		X		X	X				X			
42467	4402115821	M-11-20180517	440-211582-23	5/17/2018	Stage 2A	Water		X	X		X	X	X		X	X				X			
42467	4402115821	M-12A-20180517	440-211582-24	5/17/2018	Stage 2A	Water		X	X		X	X	X		X	X				X			
42467	4402115821	M-141-20180517-TB14	440-211582-25	5/17/2018	Stage 2A	Water	TB	X	X														
42467	4402115821	M-11-20180517-TB15	440-211582-26	5/17/2018	Stage 2A	Water	TB	X	X														
42467	4402115822	M-10-20180517	440-211582-21	5/17/2018	Stage 2A	Water		X	X	X		X	X	X	X	X	X			X			
42467	4402116481	I-O-20180517	440-211648-1	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-W-20180517	440-211648-2	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-P-20180517	440-211648-3	5/17/2018	Stage 2A	Water					X		X		X	X				X			X

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402116481	I-H-20180517	440-211648-4	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-U-20180517	440-211648-5	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-T-20180517	440-211648-6	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-G-20180517	440-211648-7	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-Q-20180517	440-211648-8	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-H-20180517-FD	440-211648-9	5/17/2018	Stage 2A	Water	FD38				X		X		X	X				X			X
42467	4402116481	I-F-20180517	440-211648-10	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-X-20180517	440-211648-11	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-N-20180517	440-211648-12	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-E-20180517	440-211648-13	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-M-20180517	440-211648-14	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-D-20180517	440-211648-15	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-C-20180517	440-211648-16	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-S-20180517	440-211648-17	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-L-20180517	440-211648-18	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-Y-20180517	440-211648-19	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-R-20180517	440-211648-20	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-B-20180517	440-211648-21	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-AB-20180517	440-211648-22	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-AA-20180517	440-211648-23	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116481	I-AR-20180517	440-211648-24	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116681	E1-1-20180517	440-211668-1	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116681	E1-2-20180517	440-211668-2	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116681	E1-3-20180517	440-211668-3	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116681	E2-1-20180517	440-211668-4	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116681	E2-2-20180517	440-211668-5	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116681	E2-3-20180517	440-211668-6	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116681	E2-4-20180517	440-211668-7	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116681	E2-5-20180517	440-211668-8	5/17/2018	Stage 2A	Water					X		X		X	X				X			X
42467	4402116681	E2-4-20180517-FD	440-211668-9	5/17/2018	Stage 2A	Water	FD39				X		X		X	X				X			X
42467	4402116681	E2-5-20180517-EB	440-211668-10	5/17/2018	Stage 2A	Water	EB				X		X		X	X				X			X
42467	4402116901	E1-1-20180517	440-211690-1	5/17/2018	Stage 2A	Water						X											
42467	4402116901	E1-2-20180517	440-211690-2	5/17/2018	Stage 2A	Water						X											
42467	4402116901	E1-3-20180517	440-211690-3	5/17/2018	Stage 2A	Water						X											
42467	4402116901	E2-1-20180517	440-211690-4	5/17/2018	Stage 2A	Water						X											
42467	4402116901	E2-2-20180517	440-211690-5	5/17/2018	Stage 2A	Water						X											
42467	4402116901	E2-3-20180517	440-211690-6	5/17/2018	Stage 2A	Water						X											

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42467	4402116901	E2-4-20180517	440-211690-7	5/17/2018	Stage 2A	Water						X											
42467	4402116901	E2-5-20180517	440-211690-8	5/17/2018	Stage 2A	Water						X											
42467	4402116901	E2-4-20180517-FD	440-211690-9	5/17/2018	Stage 2A	Water	FD39					X											
42467	4402116901	E2-5-20180517-EB	440-211690-10	5/17/2018	Stage 2A	Water	EB					X											
42467	4402116921	I-O-20180517	440-211692-1	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-W-20180517	440-211692-2	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-P-20180517	440-211692-3	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-H-20180517	440-211692-4	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-U-20180517	440-211692-5	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-T-20180517	440-211692-6	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-G-20180517	440-211692-7	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-Q-20180517	440-211692-8	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-H-20180517-FD	440-211692-9	5/17/2018	Stage 2A	Water	FD38					X											
42467	4402116921	I-F-20180517	440-211692-10	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-X-20180517	440-211692-11	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-N-20180517	440-211692-12	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-E-20180517	440-211692-13	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-M-20180517	440-211692-14	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-D-20180517	440-211692-15	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-C-20180517	440-211692-16	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-S-20180517	440-211692-17	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-L-20180517	440-211692-18	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-Y-20180517	440-211692-19	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-R-20180517	440-211692-20	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-B-20180517	440-211692-21	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-AB-20180517	440-211692-22	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-AA-20180517	440-211692-23	5/17/2018	Stage 2A	Water						X											
42467	4402116921	I-AR-20180517	440-211692-24	5/17/2018	Stage 2A	Water						X											
42467	4402124271	M-97-20180530	440-212427-1	5/30/2018	Stage 2A	Water		X	X	X		X		X	X					X			
42467	4402124271	M-97-20180530-FD12	440-212427-2	5/30/2018	Stage 2A	Water	FD40	X	X	X		X		X	X					X			
42467	4402124271	M-97-20180530-TB16	440-212427-3	5/30/2018	Stage 2A	Water	TB	X	X														
42785	4402128451	ART-1A-20180605	440-212845-1	6/5/2018	Stage 2A	Water						X											
42785	4402128451	ART-2-20180605	440-212845-2	6/5/2018	Stage 2A	Water						X											
42785	4402128451	ART-3A-20180605	440-212845-3	6/5/2018	Stage 2A	Water						X											
42785	4402128451	ART-4-20180605	440-212845-4	6/5/2018	Stage 2A	Water						X											
42785	4402128451	ART-7B-20180605	440-212845-5	6/5/2018	Stage 2A	Water						X											
42785	4402128451	ART-8A-20180605	440-212845-6	6/5/2018	Stage 2A	Water						X											

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42785	4402128451	ART-9-20180605	440-212845-7	6/5/2018	Stage 2A	Water						X											
42785	4402128451	PC-150-20180605	440-212845-8	6/5/2018	Stage 2A	Water						X											
42785	4402128451	ART-1A-20180605-EB	440-212845-9	6/5/2018	Stage 2A	Water	EB					X											
42785	4402128451	PC-150-20180605-FD	440-212845-10	6/5/2018	Stage 2A	Water	FD41					X											
42785	4402128451	ART-6-20180605	440-212845-11	6/5/2018	Stage 2A	Water						X											
42785	4402128511	ART-1A-20180605	440-212851-1	6/5/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402128511	ART-2-20180605	440-212851-2	6/5/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402128511	ART-3A-20180605	440-212851-3	6/5/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402128511	ART-4-20180605	440-212851-4	6/5/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402128511	ART-7B-20180605	440-212851-5	6/5/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402128511	ART-8A-20180605	440-212851-6	6/5/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402128511	ART-9-20180605	440-212851-7	6/5/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402128511	PC-150-20180605	440-212851-8	6/5/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402128511	ART-1A-20180605-EB	440-212851-9	6/5/2018	Stage 2A	Water	EB			X		X		X	X					X			X
42785	4402128511	PC-150-20180605-FD	440-212851-10	6/5/2018	Stage 2A	Water	FD41			X		X		X	X					X			X
42785	4402128511	ART-6-20180605	440-212851-11	6/5/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-99R2/R3-20180606	440-212971-1	6/6/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-115R-20180606	440-212971-2	6/6/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-116R-20180606	440-212971-3	6/6/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-118-20180606	440-212971-4	6/6/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-119-20180606	440-212971-5	6/6/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-120-20180606	440-212971-6	6/6/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-121-20180606	440-212971-7	6/6/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-117-20180606	440-212971-8	6/6/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-117-20180606 FD	440-212971-9	6/6/2018	Stage 2A	Water	FD42			X		X		X	X					X			X
42785	4402129711	PC-133-20180606	440-212971-10	6/6/2018	Stage 2A	Water				X		X		X	X					X			X
42785	4402129711	PC-118-20180606-EB	440-212971-11	6/6/2018	Stage 2A	Water	EB			X		X		X	X					X			X
42785	4402130461	W8-9 POWERLINE CROSSING-1.5-20180606	440-213046-1	6/6/2018	Stage 2A	Water									X	X				X			
42785	4402130461	W8-9 3 KIDSWEIR-0.5-20180606	440-213046-2	6/6/2018	Stage 2A	Water									X	X				X			
42785	4402130461	W7 LOWER NARROW-1.0-20180606	440-213046-3	6/6/2018	Stage 2A	Water									X	X				X			
42785	4402130461	W5-6-0.75-20180606	440-213046-4	6/6/2018	Stage 2A	Water									X	X				X			
42785	4402130461	W5 MIDDLE WAY-0.5-20180606	440-213046-5	6/6/2018	Stage 2A	Water									X	X				X			
42785	4402130461	W4-5-1.25-20180606	440-213046-6	6/6/2018	Stage 2A	Water									X	X				X			

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	CrVI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH	
42785	4402130461	W1 ARCHERY-0.75-20180606	440-213046-7	6/6/2018	Stage 2A	Water									X	X				X				
42785	4402130461	W1 ARCHERY-0.75-20180606-FD	440-213046-8	6/6/2018	Stage 2A	Water	FD43								X	X				X				
42785	4402131051	I-AD-20180607	440-213105-1	6/7/2018	Stage 2A	Water					X		X		X	X				X				X
42785	4402131051	I-AC-20180607	440-213105-2	6/7/2018	Stage 2A	Water					X		X		X	X				X				X
42785	4402131051	I-K-20180607	440-213105-3	6/7/2018	Stage 2A	Water					X		X		X	X				X				X
42785	4402131051	I-J-20180607	440-213105-4	6/7/2018	Stage 2A	Water					X		X		X	X				X				X
42785	4402131051	I-Z-20180607	440-213105-5	6/7/2018	Stage 2A	Water					X		X		X	X				X				X
42785	4402131051	I-I-20180607	440-213105-6	6/7/2018	Stage 2A	Water					X		X		X	X				X				X
42785	4402131051	I-V-20180607	440-213105-7	6/7/2018	Stage 2A	Water					X		X		X	X				X				X
42785	4402131051	I-AR-20180607	440-213105-8	6/7/2018	Stage 2A	Water					X		X		X	X				X				X
42785	4402131051	I-K-20180607-EB	440-213105-9	6/7/2018	Stage 2A	Water	EB				X		X		X	X				X				X
42785	4402131051	I-J-20180607-FD	440-213105-10	6/7/2018	Stage 2A	Water	FD44				X		X		X	X				X				X
42785	4402131061	LVW0.55-0.5-20180607	440-213106-1	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW0.55-0.5-20180607-FD	440-213106-2	6/7/2018	Stage 2A	Water	FD45								X	X				X				
42785	4402131061	LVW3.5-1-1.5-20180607	440-213106-3	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW3.5-2-1.0-20180607	440-213106-4	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW3.5-3-1.0-20180607	440-213106-5	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW3.5-4-2.0-20180607	440-213106-6	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW3.5-5-2.25-20180607	440-213106-7	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW3.5-6-2.0-20180607	440-213106-8	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW4.2-1-1.5-20180607	440-213106-9	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW4.2-2-2.0-20180607	440-213106-10	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW4.2-3-3.0-20180607	440-213106-11	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW4.2-4-1.5-20180607	440-213106-12	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW4.75-1-1.0-20180607	440-213106-13	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW4.75-2-1.0-20180607	440-213106-14	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW4.75-3-1.0-20180607	440-213106-15	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW4.75-4-1.25-20180607	440-213106-16	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW4.75-5-1.0-20180607	440-213106-17	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW5.3-1-2.5-20180607	440-213106-18	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW5.3-2-2.0-20180607	440-213106-19	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW5.3-3-0.75-20180607	440-213106-20	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW6.05-0.5-20180607	440-213106-21	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW6.05-0.5-20180607-FD	440-213106-22	6/7/2018	Stage 2A	Water	FD46								X	X				X				
42785	4402131061	LVW6.6-1-1.5-20180607	440-213106-23	6/7/2018	Stage 2A	Water									X	X				X				
42785	4402131061	LVW6.6-2-1.0-20180607	440-213106-24	6/7/2018	Stage 2A	Water									X	X				X				

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42785	4402131061	LVW6.6-3-1.5-20180607	440-213106-25	6/7/2018	Stage 2A	Water									X	X				X			
42785	4402131061	LVW7.2-1.0-20180607	440-213106-26	6/7/2018	Stage 2A	Water									X	X				X			
42785	4402131061	LVW7.2-1.0-20180607-FD	440-213106-27	6/7/2018	Stage 2A	Water	FD47								X	X				X			
42785	4402131061	LVW7.2-1.0-20180607-FB	440-213106-28	6/7/2018	Stage 2A	Water	FB								X	X				X			
42785	4402131061	LVW6.05-0.5-20180607-FB	440-213106-29	6/7/2018	Stage 2A	Water	FB								X	X				X			
42785	4402131831	I-AD-20180607	440-213183-1	6/7/2018	Stage 2A	Water						X											
42785	4402131831	I-AC-20180607	440-213183-2	6/7/2018	Stage 2A	Water						X											
42785	4402131831	I-K-20180607	440-213183-3	6/7/2018	Stage 2A	Water						X											
42785	4402131831	I-J-20180607	440-213183-4	6/7/2018	Stage 2A	Water						X											
42785	4402131831	I-Z-20180607	440-213183-5	6/7/2018	Stage 2A	Water						X											
42785	4402131831	I-I-20180607	440-213183-6	6/7/2018	Stage 2A	Water						X											
42785	4402131831	I-V-20180607	440-213183-7	6/7/2018	Stage 2A	Water						X											
42785	4402131831	I-AR-20180607	440-213183-8	6/7/2018	Stage 2A	Water						X											
42785	4402131831	I-K-20180607-EB	440-213183-9	6/7/2018	Stage 2A	Water	EB					X											
42785	4402131831	I-J-20180607-FD	440-213183-10	6/7/2018	Stage 2A	Water	FD44					X											
42785	4402132171	PC-99R2/R3-20180606	440-213217-1	6/6/2018	Stage 2A	Water						X											
42785	4402132171	PC-115R-20180606	440-213217-2	6/6/2018	Stage 2A	Water						X											
42785	4402132171	PC-116R-20180606	440-213217-3	6/6/2018	Stage 2A	Water						X											
42785	4402132171	PC-118-20180606	440-213217-4	6/6/2018	Stage 2A	Water						X											
42785	4402132171	PC-119-20180606	440-213217-5	6/6/2018	Stage 2A	Water						X											
42785	4402132171	PC-120-20180606	440-213217-6	6/6/2018	Stage 2A	Water						X											
42785	4402132171	PC-121-20180606	440-213217-7	6/6/2018	Stage 2A	Water						X											
42785	4402132171	PC-117-20180606	440-213217-8	6/6/2018	Stage 2A	Water						X											
42785	4402132171	PC-117-20180606-FD	440-213217-9	6/6/2018	Stage 2A	Water	FD48					X											
42785	4402132171	PC-133-20180606	440-213217-10	6/6/2018	Stage 2A	Water						X											
42785	4402132171	PC-118-20180606-EB	440-213217-11	6/6/2018	Stage 2A	Water	EB					X											
42785	4402135051	I-D-20180612	440-213505-1	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-S-20180612	440-213505-2	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-L-20180612	440-213505-3	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-Y-20180612	440-213505-4	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-R-20180612	440-213505-5	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-B-20180612	440-213505-6	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-AB-20180612	440-213505-7	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-AA-20180612	440-213505-8	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-C-20180612	440-213505-9	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-M-20180612	440-213505-10	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-E-20180612	440-213505-11	6/12/2018	Stage 2A	Water					X		X		X	X				X			X

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LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate/Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42785	4402135051	I-N-20180612	440-213505-12	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-X-20180612	440-213505-13	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135051	I-F-20180612	440-213505-14	6/12/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135641	I-O-20180613	440-213564-1	6/13/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135641	I-W-20180613	440-213564-2	6/13/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135641	I-P-20180613	440-213564-3	6/13/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135641	I-H-20180613	440-213564-4	6/13/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135641	I-U-20180613	440-213564-5	6/13/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135641	I-T-20180613	440-213564-6	6/13/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135641	I-G-20180613	440-213564-7	6/13/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402135641	I-Q-20180613	440-213564-8	6/13/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402136721	I-O-20180613	440-213672-1	6/13/2018	Stage 2A	Water						X											
42785	4402136721	I-W-20180613	440-213672-2	6/13/2018	Stage 2A	Water						X											
42785	4402136721	I-P-20180613	440-213672-3	6/13/2018	Stage 2A	Water						X											
42785	4402136721	I-H-20180613	440-213672-4	6/13/2018	Stage 2A	Water						X											
42785	4402136721	I-U-20180613	440-213672-5	6/13/2018	Stage 2A	Water						X											
42785	4402136721	I-T-20180613	440-213672-6	6/13/2018	Stage 2A	Water						X											
42785	4402136721	I-G-20180613	440-213672-7	6/13/2018	Stage 2A	Water						X											
42785	4402136721	I-Q-20180613	440-213672-8	6/13/2018	Stage 2A	Water						X											
42785	4402136741	I-D-20180612	440-213674-1	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-S-20180612	440-213674-2	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-L-20180612	440-213674-3	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-Y-20180612	440-213674-4	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-R-20180612	440-213674-5	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-B-20180612	440-213674-6	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-AB-20180612	440-213674-7	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-AA-20180612	440-213674-8	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-C-20180612	440-213674-9	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-M-20180612	440-213674-10	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-E-20180612	440-213674-11	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-N-20180612	440-213674-12	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-X-20180612	440-213674-13	6/12/2018	Stage 2A	Water						X											
42785	4402136741	I-F-20180612	440-213674-14	6/12/2018	Stage 2A	Water						X											
42785	4402137081	E1-1-20180614	440-213708-1	6/14/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402137081	E1-2-20180614	440-213708-2	6/14/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402137081	E1-3-20180614	440-213708-3	6/14/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402137081	E2-1-20180614	440-213708-4	6/14/2018	Stage 2A	Water					X		X		X	X				X			X

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	VOC (8260B)	TCP & 1,4-Dioxane (8260B SIM)	Metals (200.7)	Cr (200.7)	Cr VI (218.6)	Anions (300.0)	Nitrate /Nitrite as N & Total Inorganic Nitrogen (Calc)	Chlorate (300.1B)	Perchlorate (314.0)	Ammonia as N (350.1)	TRP (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (5310C)	TOX (9020B)	Field pH
42785	4402137081	E2-2-20180614	440-213708-5	6/14/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402137081	E2-3-20180614	440-213708-6	6/14/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402137081	E2-4-20180614	440-213708-7	6/14/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402137081	E2-5-20180614	440-213708-8	6/14/2018	Stage 2A	Water					X		X		X	X				X			X
42785	4402137081	E1-1-20180614-FD	440-213708-9	6/14/2018	Stage 2A	Water	FD49				X		X		X	X				X			X
42785	4402137081	E1-2-20180614-EB	440-213708-10	6/14/2018	Stage 2A	Water	EB				X		X		X	X				X			X
42785	4402137141	E1-1-20180614	440-213714-1	6/14/2018	Stage 2A	Water						X											
42785	4402137141	E1-2-20180614	440-213714-2	6/14/2018	Stage 2A	Water						X											
42785	4402137141	E1-3-20180614	440-213714-3	6/14/2018	Stage 2A	Water						X											
42785	4402137141	E2-1-20180614	440-213714-4	6/14/2018	Stage 2A	Water						X											
42785	4402137141	E2-2-20180614	440-213714-5	6/14/2018	Stage 2A	Water						X											
42785	4402137141	E2-3-20180614	440-213714-6	6/14/2018	Stage 2A	Water						X											
42785	4402137141	E2-4-20180614	440-213714-7	6/14/2018	Stage 2A	Water						X											
42785	4402137141	E2-5-20180614	440-213714-8	6/14/2018	Stage 2A	Water						X											
42785	4402137141	E1-1-20180614-FD	440-213714-9	6/14/2018	Stage 2A	Water	FD49					X											
42785	4402137141	E1-2-20180614-EB	440-213714-10	6/14/2018	Stage 2A	Water	EB					X											

Table II. Stage 2A Validation Elements

Quality Control Elements	Stage 2A		
	VOCs	Metals	Wet Chemistry
Sample Receipt & Technical Holding Time	√	√	√
Instrument Performance Check	-	-	-
Initial Calibration (ICAL)	-	-	-
Initial Calibration Verification (ICV)	-	-	-
Continuing Calibration Verification (CCV)	-	-	-
Laboratory Blanks	√	√	√
Initial Calibration Blank and Continuing Calibration Blank (ICB/CCB)	-	-	-
Field Blanks	√	√	√
Inductively Coupled Plasma (ICP) Interference Check Sample	N/A	-	N/A
Surrogate Spikes	√	N/A	√
Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)	√	√	√
Laboratory Duplicate (DUP)	√	√	√
Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD)	√	√	√
Serial Dilution	N/A	-	N/A
Internal Standards	-	-	N/A
Field Duplicate	√	√	√
Project Quantitation Limits (QLs) ¹	√	√	√
Multiple Results for One Sample	√	√	√
Sample Result Verification	-	-	-
Overall Data Usability Assessment	√	√	√

√ = Reviewed for Stage 2A review

N/A = Not applicable to method or not performed during this sampling event

- = Not applicable for Stage 2A review

¹PQLs verified for all methods.

Table III. Stage 2A Validation Percentages

Parameter	Stage 2A	Total	Stage 2A (%)
VOC	270	270	100
VOC SIM	270	270	100
Metals	6	6	100
Chromium	587	587	100
Hexavalent Chromium	372	372	100
Anions	607	607	100
Total Inorganic Nitrogen and Nitrate/Nitrite-N	2	2	100
Chlorate	759	759	100
Perchlorate	769	769	100
Ammonia-N	2	2	100
Total Recoverable Phenolics	4	4	100
Conductivity	4	4	100
TDS	769	769	100
TOC	4	4	100
TOX	4	4	100

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 RPD 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
orr	other result reported
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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402108451	PC-79-20180508	5/8/2018	SW8260	120-82-1	1,2,4-Trichlorobenzene	0.45	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402108471	PC-59-20180508	5/8/2018	SW8260	75-34-3	1,1-Dichloroethane	0.31	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402108471	PC-60-20180508	5/8/2018	SW8260	75-34-3	1,1-Dichloroethane	0.37	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402108491	PC-108-20180508	5/8/2018	SW8260	106-46-7	1,4-Dichlorobenzene	0.37	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402108491	PC-94-20180508	5/8/2018	SW8260	75-34-3	1,1-Dichloroethane	0.28	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402108491	PC-94-20180508	5/8/2018	SW8260	127-18-4	Tetrachloroethene	0.27	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402108501	PC-82-20180508	5/8/2018	SW8260	95-50-1	1,2-Dichlorobenzene	0.25	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402108501	PC-90-20180508	5/8/2018	SW8260	67-66-3	Chloroform	0.32	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402108501	PC-96-20180508	5/8/2018	SW8260	120-82-1	1,2,4-Trichlorobenzene	0.49	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402108501	PC-97-20180508	5/8/2018	SW8260	120-82-1	1,2,4-Trichlorobenzene	0.55	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402110271	ARP-2A-20180509	5/9/2018	SW8260	75-09-2	Methylene Chloride	1.1	J	0.88	2.0	ug/l	J	sp	Detect <PQL		
4402110271	ARP-3A-20180509	5/9/2018	SW8260	75-09-2	Methylene Chloride	1.3	J	0.88	2.0	ug/l	J	sp	Detect <PQL		
4402110271	ARP-6B-20180509	5/9/2018	SW8260	56-23-5	Carbon Tetrachloride	1.8	J	1.3	2.5	ug/l	J	sp	Detect <PQL		
4402110271	ARP-6B-20180509	5/9/2018	SW8260	75-09-2	Methylene Chloride	6.7	J	4.4	10	ug/l	J	sp	Detect <PQL		
4402110271	ARP-6B-20180509	5/9/2018	SW8260	127-18-4	Tetrachloroethene	2.3	J	1.3	2.5	ug/l	J	sp	Detect <PQL		
4402110271	ARP-7-20180509	5/9/2018	SW8260	75-35-4	1,1-Dichloroethene	0.63	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402110271	ARP-7-20180509	5/9/2018	SW8260	127-18-4	Tetrachloroethene	1.0	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402110271	MW-K4-20180509	5/9/2018	SW8260	75-09-2	Methylene Chloride	1.1	J	0.88	2.0	ug/l	J	sp	Detect <PQL		
4402110271	MW-K5-20180509	5/9/2018	SW8260	100-42-5	Styrene		UF1F2	0.25	0.50	ug/l	UJ	m	MS/MSD %R	12,2	29-150 %
4402110271	MW-K5-20180509	5/9/2018	SW8260	87-61-6	1,2,3-Trichlorobenzene	0.40	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402110271	MW-K5-20180509	5/9/2018	SW8260	120-82-1	1,2,4-Trichlorobenzene	0.43	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402110271	MW-K5-20180509	5/9/2018	SW8260	127-18-4	Tetrachloroethene	0.34	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	MW-K5-20180509	5/9/2018	SW8260	106-46-7	1,4-Dichlorobenzene	0.33	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-103-20180509	5/9/2018	SW8260	120-82-1	1,2,4-Trichlorobenzene	0.77	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-135A-20180509	5/9/2018	SW8260	106-46-7	1,4-Dichlorobenzene	0.25	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-142-20180509	5/9/2018	SW8260	79-01-6	Trichloroethene	0.29	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-143-20180509	5/9/2018	SW8260	107-06-2	1,2-Dichloroethane	0.25	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-143-20180509	5/9/2018	SW8260	127-18-4	Tetrachloroethene	0.29	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-143-20180509	5/9/2018	SW8260	79-01-6	Trichloroethene	0.28	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-143-20180509	5/9/2018	SW8260	120-82-1	1,2,4-Trichlorobenzene	0.60	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-143-20180509	5/9/2018	SW8260	106-46-7	1,4-Dichlorobenzene	0.38	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-143-20180509	5/9/2018	SW8260	95-50-1	1,2-Dichlorobenzene	0.35	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-144-20180509	5/9/2018	SW8260	56-23-5	Carbon Tetrachloride	0.33	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-144-20180509	5/9/2018	SW8260	75-34-3	1,1-Dichloroethane	0.37	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-144-20180509	5/9/2018	SW8260	127-18-4	Tetrachloroethene	0.44	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-145-20180509	5/9/2018	SW8260	127-18-4	Tetrachloroethene	3.2	J	2.5	5.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-149-20180509	5/9/2018	SW8260	75-34-3	1,1-Dichloroethane	0.25	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-154-20180509	5/9/2018	SW8260	127-18-4	Tetrachloroethene	0.34	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-2-20180509	5/9/2018	SW8260	75-09-2	Methylene Chloride	1.2	J	0.88	2.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-55-20180509	5/9/2018	SW8260	79-01-6	Trichloroethene	0.37	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402110271	PC-55-20180509	5/9/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.29	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	ARP-1-20180510	5/10/2018	SW8260	100-42-5	Styrene		UF1	0.25	0.50	ug/l	UJ	m	MS/MSD %R	10,8	29-150 %
4402111011	ARP-1-20180510	5/10/2018	SW8260	75-00-3	Chloroethane		UF1	0.40	1.0	ug/l	UJ	m	MS/MSD %R	65,67	68-130 %
4402111011	ARP-1-20180510	5/10/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.28	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	ARP-1-20180510	5/10/2018	SW8260	127-18-4	Tetrachloroethene	0.28	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	ARP-1-20180510	5/10/2018	SW8260	120-82-1	1,2,4-Trichlorobenzene	0.80	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402111011	ARP-1-20180510	5/10/2018	SW8260	87-61-6	1,2,3-Trichlorobenzene	0.40	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402111011	ARP-1-20180510	5/10/2018	SW8260	79-01-6	Trichloroethene	0.32	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	ARP-1-20180510-TB4	5/10/2018	SW8260	91-20-3	Naphthalene	0.60	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402111011	M-44-20180510	5/10/2018	SW8260	75-25-2	Bromoform	0.71	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402111011	M-44-20180510	5/10/2018	SW8260	79-01-6	Trichloroethene	0.46	J	0.25	0.50	ug/l	J	sp	Detect <PQL		

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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402111011	M-44-20180510-FB4	5/10/2018	SW8260	108-88-3	Toluene	0.32	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	M-44-20180510-FB4	5/10/2018	SW8260	71-43-2	Benzene	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	MC-53-20180510	5/10/2018	SW8260	107-06-2	1,2-Dichloroethane	0.29	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	MC-53-20180510	5/10/2018	SW8260	106-46-7	1,4-Dichlorobenzene	0.31	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-107-20180510	5/10/2018	SW8260	75-34-3	1,1-Dichloroethane	0.48	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-123-20180510	5/10/2018	SW8260	79-01-6	Trichloroethene	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-124-20180510	5/10/2018	SW8260	127-18-4	Tetrachloroethene	1.5	J	1.3	2.5	ug/l	J	sp	Detect <PQL		
4402111011	PC-124-20180510	5/10/2018	SW8260	56-23-5	Carbon Tetrachloride	1.6	J	1.3	2.5	ug/l	J	sp	Detect <PQL		
4402111011	PC-127-20180510	5/10/2018	SW8260	79-01-6	Trichloroethene	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-129-20180510	5/10/2018	SW8260	79-01-6	Trichloroethene	0.49	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-132-20180510	5/10/2018	SW8260	67-66-3	Chloroform	0.33	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-132-20180510	5/10/2018	SW8260	87-61-6	1,2,3-Trichlorobenzene	0.88	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-148-20180510	5/10/2018	SW8260	79-01-6	Trichloroethene	0.48	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-151-20180510	5/10/2018	SW8260	87-61-6	1,2,3-Trichlorobenzene	0.84	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-151-20180510	5/10/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.30	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-151-20180510	5/10/2018	SW8260	107-06-2	1,2-Dichloroethane	0.41	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-151-20180510-FD7	5/10/2018	SW8260	87-61-6	1,2,3-Trichlorobenzene	0.86	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-151-20180510-FD7	5/10/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-151-20180510-FD7	5/10/2018	SW8260	107-06-2	1,2-Dichloroethane	0.43	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-152-20180510	5/10/2018	SW8260	87-61-6	1,2,3-Trichlorobenzene	0.95	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-152-20180510	5/10/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.35	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-153R-20180510	5/10/2018	SW8260	79-01-6	Trichloroethene	0.38	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-158-20180510	5/10/2018	SW8260	127-18-4	Tetrachloroethene	0.48	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-160-20180510	5/10/2018	SW8260	79-01-6	Trichloroethene	0.27	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-160-20180510	5/10/2018	SW8260	87-61-6	1,2,3-Trichlorobenzene	0.63	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-160-20180510	5/10/2018	SW8260	107-06-2	1,2-Dichloroethane	0.27	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-160-20180510	5/10/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.30	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402111011	PC-50-20180510	5/10/2018	SW8260	108-90-7	Chlorobenzene	0.33	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	AA-01-20180511	5/11/2018	SW8260	75-34-3	1,1-Dichloroethane	0.27	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	AA-01-20180511	5/11/2018	SW8260	79-01-6	Trichloroethene	0.48	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	AA-01-20180511	5/11/2018	SW8260	75-27-4	Bromodichloromethane	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	H-56R-20180511	5/11/2018	SW8260	79-01-6	Trichloroethene	0.31	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	H-56R-20180511	5/11/2018	SW8260	75-34-3	1,1-Dichloroethane	0.40	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	H-56R-20180511	5/11/2018	SW8260	67-66-3	Chloroform	0.43	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	H-58R-20180511	5/11/2018	SW8260	79-01-6	Trichloroethene	0.36	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	H-58R-20180511	5/11/2018	SW8260	108-90-7	Chlorobenzene	0.29	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	H-58R-20180511	5/11/2018	SW8260	67-66-3	Chloroform	0.40	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	M-48A-20180511	5/11/2018	SW8260	87-68-3	Hexachlorobutadiene	0.38	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	M-48A-20180511	5/11/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.35	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	M-48A-20180511	5/11/2018	SW8260	95-50-1	1,2-Dichlorobenzene	0.47	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	M-48A-20180511	5/11/2018	SW8260	108-90-7	Chlorobenzene	0.32	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	M-48A-20180511	5/11/2018	SW8260	75-27-4	Bromodichloromethane	0.32	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	M-57A-20180511	5/11/2018	SW8260	56-23-5	Carbon Tetrachloride	3.5	J	2.5	5.0	ug/l	J	sp	Detect <PQL		
4402112021	MC-51-20180511	5/11/2018	SW8260	541-73-1	1,3-Dichlorobenzene	1.7	J	1.3	2.5	ug/l	J	sp	Detect <PQL		
4402112021	MC-51-20180511	5/11/2018	SW8260	79-01-6	Trichloroethene	1.5	J	1.3	2.5	ug/l	J	sp	Detect <PQL		
4402112021	MC-51-20180511	5/11/2018	SW8260	75-34-3	1,1-Dichloroethane	2.4	J	1.3	2.5	ug/l	J	sp	Detect <PQL		
4402112021	MC-51-20180511	5/11/2018	SW8260	120-82-1	1,2,4-Trichlorobenzene	2.9	J	2.0	5.0	ug/l	J	sp	Detect <PQL		
4402112021	MC-6-20180511	5/11/2018	SW8260	95-50-1	1,2-Dichlorobenzene	0.48	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	MC-6-20180511	5/11/2018	SW8260	75-35-4	1,1-Dichloroethene	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	MC-65R2-20180511	5/11/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.29	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	MC-69-20180511	5/11/2018	SW8260	71-43-2	Benzene	0.46	J	0.25	0.50	ug/l	J	sp	Detect <PQL		

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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402112021	MC-7-20180511	5/11/2018	SW8260	541-73-1	1,3-Dichlorobenzene	9.1	J	5.0	10	ug/l	J	sp	Detect <PQL		
4402112021	MC-7-20180511	5/11/2018	SW8260	87-61-6	1,2,3-Trichlorobenzene	13	J	8.0	20	ug/l	J	sp	Detect <PQL		
4402112021	MC-93-20180511	5/11/2018	SW8260	108-90-7	Chlorobenzene	0.41	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	MC-93-20180511	5/11/2018	SW8260	79-01-6	Trichloroethene	0.42	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	MC-97-20180511	5/11/2018	SW8260	100-42-5	Styrene		UF1	0.25	0.50	ug/l	R	m	MS/MSD %R	0,0	29-150 %
4402112021	PC-28-20180511	5/11/2018	SW8260	79-01-6	Trichloroethene	0.27	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	PC-31-20180511	5/11/2018	SW8260	107-06-2	1,2-Dichloroethane	0.32	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	PC-31-20180511	5/11/2018	SW8260	108-90-7	Chlorobenzene	0.39	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	PC-40R-20180511	5/11/2018	SW8260	87-61-6	1,2,3-Trichlorobenzene	0.49	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402112021	PC-40R-20180511	5/11/2018	SW8260	108-90-7	Chlorobenzene	0.42	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112021	PC-71-20180511	5/11/2018	SW8260	79-01-6	Trichloroethene	0.47	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112731	M-125-20180514	5/14/2018	SW8260	75-09-2	Methylene Chloride	390	J	180	400	ug/l	J	sp	Detect <PQL		
4402112731	M-125-20180514	5/14/2018	SW8260	56-23-5	Carbon Tetrachloride	52	J	50	100	ug/l	J	sp	Detect <PQL		
4402112731	M-129-20180514	5/14/2018	SW8260	87-68-3	Hexachlorobutadiene	1.1	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402112731	M-129-20180514	5/14/2018	SW8260	127-18-4	Tetrachloroethene	0.80	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402112731	M-129-20180514	5/14/2018	SW8260	75-09-2	Methylene Chloride	4.2	J	2.2	5.0	ug/l	J	sp	Detect <PQL		
4402112731	M-135-20180514	5/14/2018	SW8260	56-23-5	Carbon Tetrachloride	0.77	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402112731	M-135-20180514	5/14/2018	SW8260	75-09-2	Methylene Chloride	3.4	J	1.8	4.0	ug/l	J	sp	Detect <PQL		
4402112731	M-136-20180514	5/14/2018	SW8260	75-09-2	Methylene Chloride	1.1	J	0.88	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-161D-20180514	5/14/2018	SW8260	75-09-2	Methylene Chloride	1.1	J	0.88	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-37-20180514	5/14/2018	SW8260	79-01-6	Trichloroethene	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112731	M-37-20180514	5/14/2018	SW8260	100-42-5	Styrene		UF1F2	0.25	0.50	ug/l	UJ	m	MS/MSD %R	4,6	29-150 %
4402112731	M-37-20180514-FD4	5/14/2018	SW8260	79-01-6	Trichloroethene	0.31	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112731	M-38-20180514	5/14/2018	SW8260	75-09-2	Methylene Chloride	15	J	8.8	20	ug/l	J	sp	Detect <PQL		
4402112731	M-38-20180514-EB4	5/14/2018	SW8260	75-09-2	Methylene Chloride	1.2	J	0.88	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-64-20180514	5/14/2018	SW8260	95-50-1	1,2-Dichlorobenzene	1.1	J	1.0	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-64-20180514	5/14/2018	SW8260	75-09-2	Methylene Chloride	6.6	J	3.5	8.0	ug/l	J	sp	Detect <PQL		
4402112731	M-65-20180514	5/14/2018	SW8260	79-01-6	Trichloroethene	3.2	J	2.5	5.0	ug/l	J	sp	Detect <PQL		
4402112731	M-69-20180514	5/14/2018	SW8260	127-18-4	Tetrachloroethene	0.43	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112731	M-69-20180514	5/14/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.43	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112731	M-70-20180514	5/14/2018	SW8260	75-25-2	Bromoform	1.9	J	0.80	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-70-20180514	5/14/2018	SW8260	79-01-6	Trichloroethene	0.63	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402112731	M-70-20180514	5/14/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.92	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402112731	M-71-20180514	5/14/2018	SW8260	56-23-5	Carbon Tetrachloride	0.81	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402112731	M-71-20180514	5/14/2018	SW8260	95-50-1	1,2-Dichlorobenzene	0.81	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402112731	MC-50-20180514	5/14/2018	SW8260	75-09-2	Methylene Chloride	1.1	J	0.88	2.0	ug/l	J	sp	Detect <PQL		
4402112731	MW-16-20180514	5/14/2018	SW8260	127-18-4	Tetrachloroethene	0.97	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402112731	TR-12-20180514	5/14/2018	SW8260	594-20-7	2,2-Dichloropropane		UF1F2	0.40	1.0	ug/l	UJ	m	MS/MSD %R	-,56	69-138 %
4402112731	TR-4-20180514	5/14/2018	SW8260	79-01-6	Trichloroethene	0.42	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112731	TR-6-20180514	5/14/2018	SW8260	127-18-4	Tetrachloroethene	7.6	J	5.0	10	ug/l	J	sp	Detect <PQL		
4402112732	M-5A-20180514	5/14/2018	SW8260	79-01-6	Trichloroethene	15	J	10	20	ug/l	J	sp	Detect <PQL		
4402112732	M-6A-20180514	5/14/2018	SW8260	127-18-4	Tetrachloroethene	0.37	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402112733	M-126-20180514	5/14/2018	SW8260	106-43-4	4-Chlorotoluene	56	J	50	100	ug/l	J	sp	Detect <PQL		
4402112733	M-126-20180514	5/14/2018	SW8260	79-34-5	1,1,2,2-Tetrachloroethane	54	J	50	100	ug/l	J	sp	Detect <PQL		
4402112733	M-126-20180514	5/14/2018	SW8260	541-73-1	1,3-Dichlorobenzene	95	J	50	100	ug/l	J	sp	Detect <PQL		
4402112733	M-126-20180514	5/14/2018	SW8260	108-88-3	Toluene	65	J	50	100	ug/l	J	sp	Detect <PQL		
4402112733	M-126-20180514	5/14/2018	SW8260	95-49-8	2-Chlorotoluene	60	J	50	100	ug/l	J	sp	Detect <PQL		
4402112733	M-126-20180514	5/14/2018	SW8260	95-63-6	1,2,4-Trimethylbenzene	66	J	50	100	ug/l	J	sp	Detect <PQL		
4402112733	M-126-20180514	5/14/2018	SW8260	108-86-1	Bromobenzene	54	J	50	100	ug/l	J	sp	Detect <PQL		
4402112733	M-126-20180514	5/14/2018	SW8260	124-48-1	Dibromochloromethane	54	J	50	100	ug/l	J	sp	Detect <PQL		
4402112733	M-126-20180514	5/14/2018	SW8260	95-47-6	ortho-xylene	59	J	50	100	ug/l	J	sp	Detect <PQL		

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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402113821	DFW-03-20180515	5/15/2018	SW8260	79-01-6	Trichloroethene	0.41	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402113821	DFW-03-20180515-FD11	5/15/2018	SW8260	79-01-6	Trichloroethene	0.38	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402113821	DFW-04-20180515	5/15/2018	SW8260	75-27-4	Bromodichloromethane	0.48	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402113821	DFW-04-20180515	5/15/2018	SW8260	75-25-2	Bromoform	0.88	J	0.40	1.0	ug/l	J	sp	Detect <PQL		
4402113821	M-14A-20180515	5/15/2018	SW8260	79-01-6	Trichloroethene	1.2	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402113821	M-14A-20180515	5/15/2018	SW8260	56-23-5	Carbon Tetrachloride	1.1	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402113821	M-163-20180515	5/15/2018	SW8260	67-66-3	Chloroform	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402113821	M-164-20180515	5/15/2018	SW8260	91-20-3	Naphthalene	1.1	J	1.0	2.5	ug/l	J	sp	Detect <PQL		
4402113821	M-66-20180515	5/15/2018	SW8260	87-68-3	Hexachlorobutadiene	1.1	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402113821	M-66-20180515	5/15/2018	SW8260	75-25-2	Bromoform	1.4	J	1.0	2.5	ug/l	J	sp	Detect <PQL		
4402113821	M-66-20180515	5/15/2018	SW8260	79-01-6	Trichloroethene	1.1	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402113821	M-73-20180515	5/15/2018	SW8260	108-67-8	1,3,5-Trimethylbenzene	2.9	J	2.5	5.0	ug/l	J	sp	Detect <PQL		
4402113821	M-73-20180515	5/15/2018	SW8260	108-88-3	Toluene	4.2	J	2.5	5.0	ug/l	J	sp	Detect <PQL		
4402113821	M-79-20180515	5/15/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.35	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402113821	M-79-20180515	5/15/2018	SW8260	127-18-4	Tetrachloroethene	0.41	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402113821	M-80-20180515	5/15/2018	SW8260	95-50-1	1,2-Dichlorobenzene	0.63	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402113821	M-80-20180515	5/15/2018	SW8260	75-25-2	Bromoform	2.3	J	1.0	2.5	ug/l	J	sp	Detect <PQL		
4402114851	DFW-06-20180516	5/16/2018	SW8260	56-23-5	Carbon Tetrachloride	0.25	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	M-120-20180516	5/16/2018	SW8260	75-09-2	Methylene Chloride	1.1	J	0.88	2.0	ug/l	J	bt,sp	TB contamination; Detect <PQL	0.96	≤1.92 ug/L
4402114851	M-124-20180516	5/16/2018	SW8260	75-09-2	Methylene Chloride	3.8	J	3.5	8.0	ug/l	J	sp	Detect <PQL		
4402114851	M-153-20180516	5/16/2018	SW8260	67-66-3	Chloroform	0.43	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	M-19-20180516	5/16/2018	SW8260	56-23-5	Carbon Tetrachloride	0.48	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	M-19-20180516	5/16/2018	SW8260	75-27-4	Bromodichloromethane	0.25	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	M-52-20180516	5/16/2018	SW8260	75-09-2	Methylene Chloride	0.96	J	0.88	2.0	ug/l	J	bt,sp	TB contamination; Detect <PQL	0.96	≤1.92 ug/L
4402114851	M-52-20180516-TB12	5/16/2018	SW8260	75-09-2	Methylene Chloride	0.96	J	0.88	2.0	ug/l	J	sp	Detect <PQL		
4402114851	M-75-20180516	5/16/2018	SW8260	127-18-4	Tetrachloroethene	0.34	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	M-76-20180516	5/16/2018	SW8260	56-23-5	Carbon Tetrachloride	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	M-81A-20180516	5/16/2018	SW8260	541-73-1	1,3-Dichlorobenzene	2.2	J	1.3	2.5	ug/l	J	sp	Detect <PQL		
4402114851	M-81A-20180516	5/16/2018	SW8260	95-50-1	1,2-Dichlorobenzene	1.4	J	1.3	2.5	ug/l	J	sp	Detect <PQL		
4402114851	M-83-20180516	5/16/2018	SW8260	106-46-7	1,4-Dichlorobenzene	0.84	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402114851	M-83-20180516	5/16/2018	SW8260	541-73-1	1,3-Dichlorobenzene	0.77	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402114851	M-83-20180516	5/16/2018	SW8260	75-09-2	Methylene Chloride	2.2	J	2.2	5.0	ug/l	J	sp	Detect <PQL		
4402114851	M-83-20180516	5/16/2018	SW8260	95-50-1	1,2-Dichlorobenzene	1.0	J	0.63	1.3	ug/l	J	sp	Detect <PQL		
4402114851	M-83-20180516	5/16/2018	SW8260	75-25-2	Bromoform	1.8	J	1.0	2.5	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-01D-20180516	5/16/2018	SW8260	75-09-2	Methylene Chloride	1.1	J	0.88	2.0	ug/l	J	bt,sp	TB contamination; Detect <PQL	0.96	≤1.92 ug/L
4402114851	UFMW-01D-20180516	5/16/2018	SW8260	79-01-6	Trichloroethene	0.25	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-01D-20180516	5/16/2018	SW8260	127-18-4	Tetrachloroethene	0.28	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-02D-20180516	5/16/2018	SW8260	75-09-2	Methylene Chloride	1.1	J	0.88	2.0	ug/l	J	bt,sp	TB contamination; Detect <PQL	0.96	≤1.92 ug/L
4402114851	UFMW-04D-20180516	5/16/2018	SW8260	56-23-5	Carbon Tetrachloride	0.25	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-04D-20180516	5/16/2018	SW8260	95-50-1	1,2-Dichlorobenzene	0.30	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-05D-20180516	5/16/2018	SW8260	79-01-6	Trichloroethene	0.45	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-05D-20180516	5/16/2018	SW8260	106-46-7	1,4-Dichlorobenzene	0.30	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-05D-20180516	5/16/2018	SW8260	95-50-1	1,2-Dichlorobenzene	0.29	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-06D-20180516	5/16/2018	SW8260	106-46-7	1,4-Dichlorobenzene	0.32	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-06D-20180516	5/16/2018	SW8260	95-50-1	1,2-Dichlorobenzene	0.30	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-06D-20180516	5/16/2018	SW8260	79-01-6	Trichloroethene	0.49	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402115821	M-138-20180517	5/17/2018	SW8260	127-18-4	Tetrachloroethene	0.32	J	0.25	0.50	ug/l	J	sp	Detect <PQL		

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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402115821	M-148A-20180517	5/17/2018	SW8260	127-18-4	Tetrachloroethene	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402115821	M-191-20180517	5/17/2018	SW8260	127-18-4	Tetrachloroethene	0.40	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402115821	M-191-20180517	5/17/2018	SW8260	75-27-4	Bromodichloromethane	0.31	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402124271	M-97-20180530	5/30/2018	SW8260	75-34-3	1,1-Dichloroethane	0.28	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402124271	M-97-20180530-FD12	5/30/2018	SW8260	75-34-3	1,1-Dichloroethane	0.34	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402124271	M-97-20180530-FD12	5/30/2018	SW8260	75-27-4	Bromodichloromethane	0.27	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402124271	M-97-20180530-TB16	5/30/2018	SW8260	127-18-4	Tetrachloroethene	0.26	J	0.25	0.50	ug/l	J	sp	Detect <PQL		
4402108491	PC-94-20180508	5/8/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.61	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402108501	PC-97-20180508	5/8/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.61	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402108521	DBMW-4-20180508	5/8/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.3	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	ARP-3A-20180509	5/9/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.89	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	ARP-3A-20180509	5/9/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0031	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402110271	ARP-6B-20180509	5/9/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.1	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	ARP-7-20180509	5/9/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.2	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-103-20180509	5/9/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.50	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-122-20180509	5/9/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.1	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-145-20180509	5/9/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.1	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-149-20180509	5/9/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0025	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402110271	PC-2-20180509	5/9/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0029	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402110271	PC-2-20180509	5/9/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.70	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-4-20180509	5/9/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.5	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-53-20180509	5/9/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.57	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-53-20180509	5/9/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0043	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402111011	HMW-16-20180510	5/10/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0031	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402111011	M-44-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.88	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	MC-53-20180510	5/10/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0030	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402111011	PC-123-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.63	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-124-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.1	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-125-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.1	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-126-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.7	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-127-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.64	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-129-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.50	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-130-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.81	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-131-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.7	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-132-20180510	5/10/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0037	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402111011	PC-148-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.59	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402111011	PC-158-20180510	5/10/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.50	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	AA-01-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.6	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	H-56R-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.62	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	H-58R-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.84	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	M-48A-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.63	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	MC-6-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.1	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	MC-65R2-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.5	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	MC-7-20180511	5/11/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.062	J	0.050	0.10	ug/l	J	sp	Detect <PQL		
4402112021	MC-93-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.0	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	PC-40R-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	3.8	J	2.0	8.0	ug/l	J	sp	Detect <PQL		
4402112021	PC-40R-20180511	5/11/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.018	J	0.010	0.020	ug/l	J	sp	Detect <PQL		
4402112021	PC-66-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.52	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	PC-71-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.1	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112021	PC-72-20180511	5/11/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.4	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-129-20180514	5/14/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.56	J	0.50	2.0	ug/l	J	sp	Detect <PQL		

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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402112731	M-134-20180514	5/14/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.59	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-162D-20180514	5/14/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0047	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402112731	M-37-20180514	5/14/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.1	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-37-20180514-FD4	5/14/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.90	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-38-20180514	5/14/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.4	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-64-20180514	5/14/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.4	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-65-20180514	5/14/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.53	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-69-20180514	5/14/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.67	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402112731	M-71-20180514	5/14/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.1	JF1	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402113821	DFW-03-20180515	5/15/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.55	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402113821	DFW-03-20180515-FD11	5/15/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.78	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402113821	M-68-20180515	5/15/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.54	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402113821	M-74-20180515	5/15/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.53	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402113821	M-92-20180515	5/15/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.89	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402114851	M-115-20180516	5/16/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.75	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402114851	M-147-20180516	5/16/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.51	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402114851	M-75-20180516	5/16/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.0	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402114851	M-76-20180516	5/16/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.56	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-01D-20180516	5/16/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.69	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-04D-20180516	5/16/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.83	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-05D-20180516	5/16/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.83	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402114851	UFMW-06D-20180516	5/16/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.0	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402115821	M-141-20180517	5/17/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.58	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402115821	M-148A-20180517	5/17/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0039	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402115821	M-149-20180517	5/17/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0048	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402115821	M-192-20180517	5/17/2018	SW8260BSIM	96-18-4	1,2,3-Trichloropropane	0.0028	J	0.0025	0.0050	ug/l	J	sp	Detect <PQL		
4402115821	M-2A-20180517	5/17/2018	SW8260BSIM	123-91-1	1,4-Dioxane	1.9	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4402115821	UFMW-3D-20180517	5/17/2018	SW8260BSIM	123-91-1	1,4-Dioxane	0.55	J	0.50	2.0	ug/l	J	sp	Detect <PQL		
4401995911	PC-116R-20180103	1/3/2018	E200.7	7440-47-3	Chromium (total)	0.0027	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4401995911	PC-117-20180103	1/3/2018	E200.7	7440-47-3	Chromium (total)	0.0043	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4401995911	PC-117-20180103-FD	1/3/2018	E200.7	7440-47-3	Chromium (total)	0.0032	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402004081	I-I-20180110-EB	1/10/2018	E200.7	7440-47-3	Chromium (total)	0.0027	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402027781	PC-116R-20180206	2/6/2018	E200.7	7440-47-3	Chromium (total)	0.0029	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402027781	PC-117-20180206	2/6/2018	E200.7	7440-47-3	Chromium (total)	0.0032	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402054072	ART-1A-20180308	3/8/2018	E200.7	7440-47-3	Chromium (total)		U	0.0025	0.0050	mg/l	UJ	m	MS/MSD %R	61,55	70-130 %
4402054072	ART-2-20180308	3/8/2018	E200.7	7440-47-3	Chromium (total)	0.0077		0.0025	0.0050	mg/l	J-	m	MS/MSD %R	61,55	70-130 %
4402054072	ART-3A-20180308	3/8/2018	E200.7	7440-47-3	Chromium (total)	0.30		0.0025	0.0050	mg/l	J-	m	MS/MSD %R	61,55	70-130 %
4402054072	ART-4-20180308	3/8/2018	E200.7	7440-47-3	Chromium (total)	0.15	F1	0.0025	0.0050	mg/l	J-	m	MS/MSD %R	61,55	70-130 %
4402054072	ART-4-20180308 FD	3/8/2018	E200.7	7440-47-3	Chromium (total)	0.14		0.0025	0.0050	mg/l	J-	m	MS/MSD %R	61,55	70-130 %
4402054072	ART-6-20180308	3/8/2018	E200.7	7440-47-3	Chromium (total)	5.5		0.0025	0.0050	mg/l	J-	m	MS/MSD %R	61,55	70-130 %
4402054072	ART-7B-20180308	3/8/2018	E200.7	7440-47-3	Chromium (total)	0.46		0.0025	0.0050	mg/l	J-	m	MS/MSD %R	61,55	70-130 %
4402054072	ART-8A-20180308	3/8/2018	E200.7	7440-47-3	Chromium (total)	0.094		0.0025	0.0050	mg/l	J-	m	MS/MSD %R	61,55	70-130 %
4402054072	ART-9-20180308	3/8/2018	E200.7	7440-47-3	Chromium (total)	0.62		0.0025	0.0050	mg/l	J-	m	MS/MSD %R	61,55	70-130 %
4402054072	PC-150-20180308	3/8/2018	E200.7	7440-47-3	Chromium (total)	0.053		0.0025	0.0050	mg/l	J-	m	MS/MSD %R	61,55	70-130 %
4402057441	I-D-20180313-EB	3/13/2018	E200.7	7440-47-3	Chromium (total)	0.0048	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402080511	PC-116R-20180404	4/4/2018	E200.7	7440-47-3	Chromium (total)	0.0045	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402080511	PC-117-20180404	4/4/2018	E200.7	7440-47-3	Chromium (total)	0.0041	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402092101	I-F-20180418	4/18/2018	E200.7	7440-47-3	Chromium (total)	11		0.013	0.025	mg/l	J	fd	FD RPD	31	30 %
4402092101	I-F-20180418 FD	4/18/2018	E200.7	7440-47-3	Chromium (total)	15		0.013	0.025	mg/l	J	fd	FD RPD	31	30 %
4402108451	PC-155A-20180508	5/8/2018	E200.7	7440-47-3	Chromium (total)	0.0027	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402108491	PC-91-20180508	5/8/2018	E200.7	7440-47-3	Chromium (total)	0.0033	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		

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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402108501	PC-90-20180508	5/8/2018	E200.7	7440-47-3	Chromium (total)	0.0032	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402108501	PC-97-20180508	5/8/2018	E200.7	7440-47-3	Chromium (total)	0.0031	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402110091	PC-116R-20180509	5/9/2018	E200.7	7440-47-3	Chromium (total)	0.0038	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402110271	PC-154-20180509	5/9/2018	E200.7	7440-47-3	Chromium (total)	0.0026	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402110271	PC-2-20180509	5/9/2018	E200.7	7440-47-3	Chromium (total)	0.0049	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402111011	M-156-20180510	5/10/2018	E200.7	7440-47-3	Chromium (total)	0.0050	J	0.0050	0.010	mg/l	J	sp	Detect <PQL		
4402111011	MC-53-20180510	5/10/2018	E200.7	7440-47-3	Chromium (total)	0.0090	J	0.0050	0.010	mg/l	J	sp	Detect <PQL		
4402111011	PC-151-20180510	5/10/2018	E200.7	7440-47-3	Chromium (total)	0.0029	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402111011	PC-151-20180510-FD7	5/10/2018	E200.7	7440-47-3	Chromium (total)	0.0027	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402111011	PC-153R-20180510	5/10/2018	E200.7	7440-47-3	Chromium (total)	0.0050	J	0.0050	0.010	mg/l	J	sp	Detect <PQL		
4402112021	PC-40R-20180511	5/11/2018	E200.7	7440-47-3	Chromium (total)	0.0072	J	0.0050	0.010	mg/l	J	sp	Detect <PQL		
4402112021	TR-1-20180511	5/11/2018	E200.7	7440-47-3	Chromium (total)	0.053		0.0025	0.0050	mg/l	J	fd	FD RPD	188	30 %
4402112021	TR-1-20180511-FD9	5/11/2018	E200.7	7440-47-3	Chromium (total)	1.7		0.0025	0.0050	mg/l	J	fd	FD RPD	188	30 %
4402112731	MW-16-20180514	5/14/2018	E200.7	7440-47-3	Chromium (total)	0.0064	J	0.0050	0.010	mg/l	J	sp	Detect <PQL		
4402112731	TR-6-20180514	5/14/2018	E200.7	7440-47-3	Chromium (total)	0.038	J	0.025	0.050	mg/l	J	sp	Detect <PQL		
4402114851	M-117-20180516	5/16/2018	E200.7	7440-47-3	Chromium (total)	0.020	J	0.013	0.025	mg/l	J	sp	Detect <PQL		
4402114851	M-118-20180516	5/16/2018	E200.7	7440-47-3	Chromium (total)	0.020	J	0.013	0.025	mg/l	J	sp	Detect <PQL		
4402114851	M-123-20180516	5/16/2018	E200.7	7440-47-3	Chromium (total)	0.0046	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402114851	UFMW-02D-20180516	5/16/2018	E200.7	7440-47-3	Chromium (total)	0.020	J	0.013	0.025	mg/l	J	sp	Detect <PQL		
4402115821	M-186-20180517-EB14	5/17/2018	E200.7	7440-47-3	Chromium (total)	0.0048	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402115821	M-2A-20180517-FB14	5/17/2018	E200.7	7440-47-3	Chromium (total)	0.0038	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402128511	ART-1A-20180605-EB	6/5/2018	E200.7	7440-47-3	Chromium (total)	0.0037	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4402129711	PC-117-20180606 FD	6/6/2018	E200.7	7440-47-3	Chromium (total)	0.0044	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL		
4401996701	ART-2-20180104	1/4/2018	E300	14797-55-8 N	Nitrate as N	1.8	J	1.1	2.2	mg/l	J	sp	Detect <PQL		
4402027781	PC-119-20180206	2/6/2018	E300	14797-55-8 N	Nitrate as N	0.47	J	0.28	0.55	mg/l	J	sp	Detect <PQL		
4402027781	PC-119-20180206-FD	2/6/2018	E300	14797-55-8 N	Nitrate as N	0.47	J	0.28	0.55	mg/l	J	sp	Detect <PQL		
4402028921	ART-1A-20180207	2/7/2018	E300	14797-55-8 N	Nitrate as N	1.8	J	1.1	2.2	mg/l	J	sp	Detect <PQL		
4402054072	ART-1A-20180308	3/8/2018	E300	14797-55-8 N	Nitrate as N	1.7	J	1.1	2.2	mg/l	J	sp	Detect <PQL		
4402086361	I-AA-20180411	4/11/2018	E300	14797-55-8 N	Nitrate as N	13		0.55	1.1	mg/l	J+	m	MS/MSD %R	122,-	80-120 %
4402086361	I-AB-20180411	4/11/2018	E300	14797-55-8 N	Nitrate as N	28		0.55	1.1	mg/l	J+	m	MS/MSD %R	122,-	80-120 %
4402086361	I-AR-20180411	4/11/2018	E300	14797-55-8 N	Nitrate as N	91		5.5	11	mg/l	J+	m	MS/MSD %R	122,-	80-120 %
4402086361	I-B-20180411	4/11/2018	E300	14797-55-8 N	Nitrate as N	41	F1	2.8	5.5	mg/l	J+	m	MS/MSD %R	122,-	80-120 %
4402086361	I-C-20180411	4/11/2018	E300	14797-55-8 N	Nitrate as N	82		1.1	2.2	mg/l	J+	m	MS/MSD %R	122,-	80-120 %
4402086361	I-D-20180411	4/11/2018	E300	14797-55-8 N	Nitrate as N	54		1.1	2.2	mg/l	J+	m	MS/MSD %R	122,-	80-120 %
4402086361	I-E-20180411	4/11/2018	E300	14797-55-8 N	Nitrate as N	38		1.1	2.2	mg/l	J+	m	MS/MSD %R	122,-	80-120 %
4402086361	I-M-20180411	4/11/2018	E300	14797-55-8 N	Nitrate as N	43		1.1	2.2	mg/l	J+	m	MS/MSD %R	122,-	80-120 %
4402092101	I-G-20180418	4/18/2018	E300	14797-55-8 N	Nitrate as N	65		1.1	2.2	mg/l	J+	m	MS/MSD %R	219,217	80-120 %
4402092101	I-T-20180418	4/18/2018	E300	14797-55-8 N	Nitrate as N	59		1.1	2.2	mg/l	J+	m	MS/MSD %R	219,217	80-120 %
4402092101	I-U-20180418	4/18/2018	E300	14797-55-8 N	Nitrate as N	70	F1	1.1	2.2	mg/l	J+	m	MS/MSD %R	219,217	80-120 %
4402108501	PC-97-20180508	5/8/2018	E300	14797-55-8 N	Nitrate as N	0.19	J	0.11	0.22	mg/l	J	sp	Detect <PQL		
4402108631	ART-1A-20180508	5/8/2018	E300	14797-55-8 N	Nitrate as N	1.8	J	1.1	2.2	mg/l	J	sp	Detect <PQL		
4402108631	ART-2-20180508	5/8/2018	E300	14797-55-8 N	Nitrate as N	2.8	J	2.8	5.5	mg/l	J	sp	Detect <PQL		
4402110091	PC-120-20180509	5/9/2018	E300	14797-55-8 N	Nitrate as N	0.14	J	0.11	0.22	mg/l	J	sp	Detect <PQL		
4402110091	PC-121-20180509	5/9/2018	E300	14797-55-8 N	Nitrate as N	0.21	J	0.11	0.22	mg/l	J	sp	Detect <PQL		
4402111011	PC-131-20180510	5/10/2018	E300	14797-55-8 N	Nitrate as N	4.4	J	2.8	5.5	mg/l	J	sp	Detect <PQL		
4402112021	M-7B-20180511	5/11/2018	E300	14797-55-8 N	Nitrate as N	1.1	J	1.1	2.2	mg/l	J	sp	Detect <PQL		
4402112731	M-161-20180514	5/14/2018	E300	14797-55-8 N	Nitrate as N	1.5	F1	0.055	0.11	mg/l	J+	m	MS/MSD %R	-,125	80-120 %
4402112731	M-162D-20180514	5/14/2018	E300	14797-55-8 N	Nitrate as N	1.9		0.055	0.11	mg/l	J+	m	MS/MSD %R	-,125	80-120 %
4402112731	M-64-20180514	5/14/2018	E300	14797-55-8 N	Nitrate as N	57		1.1	2.2	mg/l	J+	m	MS/MSD %R	-,125	80-120 %
4402112731	M-69-20180514	5/14/2018	E300	14797-55-8 N	Nitrate as N	27		0.28	0.55	mg/l	J+	m	MS/MSD %R	-,125	80-120 %
4402112731	M-70-20180514	5/14/2018	E300	14797-55-8 N	Nitrate as N	46		1.1	2.2	mg/l	J+	m	MS/MSD %R	-,125	80-120 %

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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402112731	M-71-20180514	5/14/2018	E300	14797-55-8_N	Nitrate as N	54		1.1	2.2	mg/l	J+	m	MS/MSD %R	-,125	80-120 %
4402112731	TR-12-20180514	5/14/2018	E300	14797-55-8_N	Nitrate as N	1.7		0.055	0.11	mg/l	J+	m	MS/MSD %R	-,125	80-120 %
4402112731	TR-4-20180514	5/14/2018	E300	14797-55-8_N	Nitrate as N	1.4		0.055	0.11	mg/l	J+	m	MS/MSD %R	-,125	80-120 %
4402112731	TR-5-20180514	5/14/2018	E300	14797-55-8_N	Nitrate as N	1.0		0.055	0.11	mg/l	J+	m	MS/MSD %R	-,125	80-120 %
4402112731	TR-6-20180514	5/14/2018	E300	14797-55-8_N	Nitrate as N	5.6	J	5.5	11	mg/l	J+	m,sp	MS/MSD %R; Detect <PQL	-,125	80-120 %
4402113821	M-73-20180515	5/15/2018	E300	14797-55-8_N	Nitrate as N	7.6	J	5.5	11	mg/l	J	sp	Detect <PQL		
4402114851	M-123-20180516	5/16/2018	E300	14797-55-8_N	Nitrate as N	5.1	J	2.8	5.5	mg/l	J	sp	Detect <PQL		
4402128511	ART-1A-20180605	6/5/2018	E300	14797-55-8_N	Nitrate as N	1.4	F1	0.55	1.1	mg/l	J+	m	MS/MSD %R	126,129	80-120 %
4402128511	ART-2-20180605	6/5/2018	E300	14797-55-8_N	Nitrate as N	1.8	J	1.1	2.2	mg/l	J+	m,sp	MS/MSD %R; Detect <PQL	126,129	80-120 %
4402128511	ART-3A-20180605	6/5/2018	E300	14797-55-8_N	Nitrate as N	18		1.1	2.2	mg/l	J+	m	MS/MSD %R	126,129	80-120 %
4402128511	ART-4-20180605	6/5/2018	E300	14797-55-8_N	Nitrate as N	13		0.55	1.1	mg/l	J+	m	MS/MSD %R	126,129	80-120 %
4402128511	ART-7B-20180605	6/5/2018	E300	14797-55-8_N	Nitrate as N	26		1.1	2.2	mg/l	J+	m	MS/MSD %R	126,129	80-120 %
4402129711	PC-121-20180606	6/6/2018	E300	14797-55-8_N	Nitrate as N	0.20	J	0.11	0.22	mg/l	J	sp	Detect <PQL		
4402129711	PC-133-20180606	6/6/2018	E300	14797-55-8_N	Nitrate as N	0.18	J	0.11	0.22	mg/l	J	sp	Detect <PQL		
4402108451	PC-79-20180508	5/8/2018	E300.1	14866-68-3	Chlorate	26	J	25	100	ug/l	J	sp	Detect <PQL		
4402110091	PC-121-20180509	5/9/2018	E300.1	14866-68-3	Chlorate	7.2	J	5.0	20	ug/l	J	sp	Detect <PQL		
4402111011	PC-131-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	61	J	25	100	ug/l	J	sp	Detect <PQL		
4402111491	LVW 0.55-0.5-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	170	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 3.5-1-1.5-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	190	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 3.5-2-1.5-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	200	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 3.5-3-1.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	180	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 3.5-4-2.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	200	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 3.5-5-2.5-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	170	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 3.5-6-2.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	170	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 4.2-1-2.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	240	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 4.2-2-5.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	220	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 4.2-3-3.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	90	J	25	100	ug/l	J	sp	Detect <PQL		
4402111491	LVW 4.2-4-1.5-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	130	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 4.75-1-1.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	230	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 4.75-2-1.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	230	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 4.75-3-0.5-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	230	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 4.75-4-1.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	120	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 4.75-5-1.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	120	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 6.6-1-1.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	110	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 6.6-2-0.5-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	100	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 6.6-3-1.0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	100	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 7.2-1-0-20180510	5/10/2018	E300.1	14866-68-3	Chlorate	110	J	100	400	ug/l	J	sp	Detect <PQL		
4402111491	LVW 7.2-1.0-20180510-FD	5/10/2018	E300.1	14866-68-3	Chlorate	110	J	100	400	ug/l	J	sp	Detect <PQL		
4402112021	H-58R-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	3400		500	2000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %
4402112021	M-48A-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	450000		25000	100000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %
4402112021	M-57A-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	16000		500	2000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %
4402112021	MC-6-20180511	5/11/2018	E300.1	14866-68-3	Chlorate		UF1	100	400	ug/l	UJ	m	MS/MSD %R	59,57	75-125 %
4402112021	MC-97-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	230	J	100	400	ug/l	J	sp	Detect <PQL		
4402112021	PC-54-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	800000		50000	200000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %
4402112021	PC-64-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	310000		50000	200000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %
4402112021	PC-64-20180511-FD8	5/11/2018	E300.1	14866-68-3	Chlorate	320000		50000	200000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %
4402112021	PC-65-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	180000		5000	20000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %
4402112021	PC-66-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	570000		10000	40000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %
4402112021	PC-67-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	250000		5000	20000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %

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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402112021	PC-71-20180511	5/11/2018	E300.1	14866-68-3	Chlorate	250000		5000	20000	ug/l	J-	m	MS/MSD %R	59,57	75-125 %
4402112021	TR-1-20180511-FD9	5/11/2018	E300.1	14866-68-3	Chlorate		U	5.0	20	ug/l	UJ	m	MS/MSD %R	59,57	75-125 %
4402112731	M-150-20180514	5/14/2018	E300.1	14866-68-3	Chlorate	77	J	25	100	ug/l	J	sp	Detect <PQL		
4402112731	MC-50-20180514	5/14/2018	E300.1	14866-68-3	Chlorate		UF1	50	200	ug/l	UJ	m	MS/MSD %R	63,64	75-125 %
4402113821	M-164-20180515	5/15/2018	E300.1	14866-68-3	Chlorate	880000		50000	200000	ug/l	J	ld	MS/MSD RPD	64	25 %
4402113821	M-165-20180515	5/15/2018	E300.1	14866-68-3	Chlorate	26	J	10	40	ug/l	J	sp	Detect <PQL		
4402113821	M-80-20180515	5/15/2018	E300.1	14866-68-3	Chlorate	1300000		50000	200000	ug/l	J	ld	MS/MSD RPD	64	25 %
4402114851	M-153-20180516	5/16/2018	E300.1	14866-68-3	Chlorate	18	J	10	40	ug/l	J	sp	Detect <PQL		
4402130461	W1 ARCHERY-0.75-20180606	6/6/2018	E300.1	14866-68-3	Chlorate	57	J	25	100	ug/l	J	sp	Detect <PQL		
4402130461	W1 ARCHERY-0.75-20180606-FD	6/6/2018	E300.1	14866-68-3	Chlorate	58	J	25	100	ug/l	J	sp	Detect <PQL		
4402130461	W4-5-1.25-20180606	6/6/2018	E300.1	14866-68-3	Chlorate	97	J	25	100	ug/l	J	sp	Detect <PQL		
4402131061	LVW6.05-0.5-20180607	6/7/2018	E300.1	14866-68-3	Chlorate	87	J	25	100	ug/l	J	sp	Detect <PQL		
4402131061	LVW6.05-0.5-20180607-FD	6/7/2018	E300.1	14866-68-3	Chlorate	87	J	25	100	ug/l	J	sp	Detect <PQL		
4402131061	LVW6.6-1-1.5-20180607	6/7/2018	E300.1	14866-68-3	Chlorate	89	J	25	100	ug/l	J	sp	Detect <PQL		
4402131061	LVW6.6-2-1.0-20180607	6/7/2018	E300.1	14866-68-3	Chlorate	72	J	25	100	ug/l	J	sp	Detect <PQL		
4402131061	LVW6.6-3-1.5-20180607	6/7/2018	E300.1	14866-68-3	Chlorate	77	J	25	100	ug/l	J	sp	Detect <PQL		
4402131061	LVW7.2-1.0-20180607	6/7/2018	E300.1	14866-68-3	Chlorate	76	J	25	100	ug/l	J	sp	Detect <PQL		
4402131061	LVW7.2-1.0-20180607-FD	6/7/2018	E300.1	14866-68-3	Chlorate	79	J	25	100	ug/l	J	sp	Detect <PQL		
4402013721	LVW 6.6-2-1.5-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate	2.4	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402013721	LVW 7.2-1.25-20180116	1/16/2018	E314.0	14797-73-0	Perchlorate	1.6	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402034831	LVW 6.6-2-1.0-20180212	2/12/2018	E314.0	14797-73-0	Perchlorate	3.9	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402034831	LVW 7.2-0.5-20180212	2/12/2018	E314.0	14797-73-0	Perchlorate	2.2	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402034851	LVW 3.5-1-1.5-20180213	2/13/2018	E314.0	14797-73-0	Perchlorate	51		0.95	4.0	ug/l	J+	m	MS/MSD %R	130,130	80-120 %
4402034851	LVW 4.2-4-2.0-20180213	2/13/2018	E314.0	14797-73-0	Perchlorate	12	F1	0.95	4.0	ug/l	J+	m	MS/MSD %R	130,130	80-120 %
4402034851	LVW 4.2-4-2.0-20180213-FD	2/13/2018	E314.0	14797-73-0	Perchlorate	11		0.95	4.0	ug/l	J+	m	MS/MSD %R	130,130	80-120 %
4402054331	LVW4.2-3-2.5-20180308	3/8/2018	E314.0	14797-73-0	Perchlorate	19	F1	0.95	4.0	ug/l	J+	m	MS/MSD %R	124,126	80-120 %
4402054331	LVW4.2-4-0.5-20180308	3/8/2018	E314.0	14797-73-0	Perchlorate	14		0.95	4.0	ug/l	J+	m	MS/MSD %R	124,126	80-120 %
4402054331	LVW6.05-0.5-20180308	3/8/2018	E314.0	14797-73-0	Perchlorate	3.7	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402054331	LVW6.05-0.5-20180308-FD	3/8/2018	E314.0	14797-73-0	Perchlorate	2.8	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402054331	LVW6.6-2-1.0-20180308	3/8/2018	E314.0	14797-73-0	Perchlorate	2.8	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402054331	LVW6.6-3-1.0-20180308	3/8/2018	E314.0	14797-73-0	Perchlorate	1.1	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402082061	LVW0.55-1.0-20180404	4/4/2018	E314.0	14797-73-0	Perchlorate	38	F1	0.95	4.0	ug/l	J+	m	MS/MSD %R	-,122	80-120 %
4402082061	LVW5.3-1-0.5-20180405	4/5/2018	E314.0	14797-73-0	Perchlorate	4.4		0.95	4.0	ug/l	J+	m,sp	MS/MSD %R; Detect <PQL	-,122	80-120 %
4402082061	LVW5.3-2-0.5-20180405	4/5/2018	E314.0	14797-73-0	Perchlorate	3.9	J	0.95	4.0	ug/l	J+	m,sp	MS/MSD %R; Detect <PQL	-,122	80-120 %
4402082061	LVW5.3-3-0.5-20180405	4/5/2018	E314.0	14797-73-0	Perchlorate	3.8	J	0.95	4.0	ug/l	J+	m,sp	MS/MSD %R; Detect <PQL	-,122	80-120 %
4402082061	LVW6.05-0.5-20180405	4/5/2018	E314.0	14797-73-0	Perchlorate	2.8	J	0.95	4.0	ug/l	J+	m,sp	MS/MSD %R; Detect <PQL	-,122	80-120 %
4402082061	LVW6.05-0.5-20180405-FD	4/5/2018	E314.0	14797-73-0	Perchlorate	1.2	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402082061	LVW6.6-1-1.0-20180405	4/5/2018	E314.0	14797-73-0	Perchlorate	1.9	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402108491	PC-108-20180508	5/8/2018	E314.0	14797-73-0	Perchlorate	0.86	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402108501	PC-82-20180508	5/8/2018	E314.0	14797-73-0	Perchlorate	0.91	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402110091	PC-115R-20180509	5/9/2018	E314.0	14797-73-0	Perchlorate	6.5		0.50	1.0	mg/l	J	fd	FD RPD	51	30 %
4402110091	PC-115R-20180509-FD	5/9/2018	E314.0	14797-73-0	Perchlorate	11		0.50	1.0	mg/l	J	fd	FD RPD	51	30 %
4402110271	HMW-13-20180509	5/9/2018	E314.0	14797-73-0	Perchlorate	0.73	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402110271	PC-134D-20180509	5/9/2018	E314.0	14797-73-0	Perchlorate	1.0	J	1.0	2.0	ug/l	J	sp	Detect <PQL		
4402111011	M-44-20180510-FB4	5/10/2018	E314.0	14797-73-0	Perchlorate	0.62	J	0.50	1.0	ug/l	J	sp	Detect <PQL		

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	Data Quality Indicator	Qualification Finding	Acceptance Criteria
4402111011	PC-132-20180510	5/10/2018	E314.0	14797-73-0	Perchlorate	3.5	J	2.5	5.0	ug/l	J	sp	Detect <PQL		
4402111011	TR-3-20180510	5/10/2018	E314.0	14797-73-0	Perchlorate	0.61	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402111491	LVW 5.3-1-0.5-20180510	5/10/2018	E314.0	14797-73-0	Perchlorate	2.1	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402111491	LVW 5.3-2-0.5-20180510	5/10/2018	E314.0	14797-73-0	Perchlorate	3.0	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402111491	LVW 5.3-3-0.5-20180510	5/10/2018	E314.0	14797-73-0	Perchlorate	2.1	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402111491	LVW 6.05-0.5-20180510	5/10/2018	E314.0	14797-73-0	Perchlorate	1.4	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402111491	LVW 6.05-0.5-20180510-FD	5/10/2018	E314.0	14797-73-0	Perchlorate	1.3	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402111491	LVW 6.6-1-1.0-20180510	5/10/2018	E314.0	14797-73-0	Perchlorate	1.2	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402112731	TR-4-20180514	5/14/2018	E314.0	14797-73-0	Perchlorate	0.60	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402113821	M-155-20180515	5/15/2018	E314.0	14797-73-0	Perchlorate	0.91	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402113821	M-181-20180515	5/15/2018	E314.0	14797-73-0	Perchlorate	0.68	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402113821	TR-11-20180515	5/15/2018	E314.0	14797-73-0	Perchlorate	0.56	J	0.50	1.0	ug/l	J	sp	Detect <PQL		
4402130461	W4-5-1.25-20180606	6/6/2018	E314.0	14797-73-0	Perchlorate	2.3	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402130461	W5 MIDDLE WAY-0.5-20180606	6/6/2018	E314.0	14797-73-0	Perchlorate	3.6	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402130461	W5-6-0.75-20180606	6/6/2018	E314.0	14797-73-0	Perchlorate	3.5	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402131061	LVW5.3-2-2.0-20180607	6/7/2018	E314.0	14797-73-0	Perchlorate	3.7	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402131061	LVW5.3-3-0.75-20180607	6/7/2018	E314.0	14797-73-0	Perchlorate	3.1	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402131061	LVW6.05-0.5-20180607	6/7/2018	E314.0	14797-73-0	Perchlorate	2.0	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402131061	LVW6.05-0.5-20180607-FD	6/7/2018	E314.0	14797-73-0	Perchlorate	1.5	J	0.95	4.0	ug/l	J	sp	Detect <PQL		
4402112732	H-28A-20180514	5/14/2018	E420.4	64743-03-9	Phenolics, Recoverable (total)	0.0088	J	0.0068	0.010	mg/l	J	sp	Detect <PQL		

ATTACHMENT A

VOC Data Validation Report

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (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.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance check data were not reviewed for Stage 2A validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Stage 2A validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Stage 2A validation.

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	Blank ID	Analysis Date	Compound	Concentration	Associated Samples
440-211027-1	MB 440-476154	05/15/18	Naphthalene	0.578 ug/L	MW-K5-20180509 PC-4-20180509 ARP-6B-20180509 ARP-6B-20180509-EB6 ARP-5A-20180509 PC-53-20180509 PC-2-20180509 MW-K4-20180509 ARP-3A-20180509 ARP-2A-20180509
440-211101-1	MB 440-477074	05/18/18	Naphthalene	0.435 ug/L	M-44-20180510-FB4 M-152-20180510 M-156-20180510 PC-131-20180510 HMW-16-20180510 PC-107-20180510 PC-132-20180510 PC-153R-20180510 PC-131-20180510-FB6
440-211101-1	MB 440-478019	05/23/18	Naphthalene	0.408 ug/L	PC-158-20180510 PC-125-20180510 PC-130-20180510 PC-152-20180510 M-44-20180510

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 PC-97-20180508-TB1 (from SDG 440-210850-1), PC-134D-20180509-TB2, HMW-14-20180509-TB3 (both from SDG 440-211027-1), ARP-1-20180510-TB4, PC-18-20180510-TB5 (both from SDG 440-211101-1), H-58R-20180511-TB6, TR-2-20180511-TB7 (both from SDG 440-211202-1), MW-16-20180514-TB8, M-71-20180514-TB9 (both from SDG 440-211273-1), TR-11-20180515-TB10, M-155-20180515-TB11 (both from SDG 440-211382-1), M-52-20180516-TB12, M-120-20180516-TB13 (both from SDG 440-211485-1), M-141-20180517-TB14, M-11-20180517-TB15 (both from SDG 440-211582-1), and M-97-20180530-TB16 (from SDG 440-212427-1) were identified as trip blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-211101-1	ARP-1-20180510-TB4	05/10/18	Naphthalene	0.60 ug/L	ARP-1-20180510 PC-18-20180510 PC-148-20180510 PC-124-20180510 PC-123-20180510 TR-3-20180510 PC-18-20180510 PC-159-20180510 HMW-15-20180510 HMW-15-20180510-FD15 PC-126-20180510 PC-24-20180510 PC-127-20180510 PC-50-20180510 PC-160-20180510 MC-53-20180510 PC-128-20180510 PC-129-20180510 PC-151-20180510 PC-151-20180510-FD7 PC-158-20180510 PC-125-20180510 PC-130-20180510 PC-152-20180510 M-44-20180510 M-44-20180510-FB4 M-152-20180510 M-156-20180510 PC-131-20180510 HMW-16-20180510 PC-107-20180510 PC-132-20180510 PC-153R-20180510 PC-131-20180510-FB6

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-211485-1	M-52-20180516-TB12	05/16/18	Methylene chloride	0.96 ug/L	M-123-20180516 M-124-20180516 M-186D-20180516 M-83-20180516 UFMW-01D-20180516 UFMW-02D-20180516 M-52-20180516 M-120-20180516 M-117-20180516 M-144-20180516 M-144-20180516-EB11 UFMW-05D-20180516 UFMW-06D-20180516 M-151-20180516 M-121-20180516 M-118-20180516 TR-10-20180516 TR-9-20180516 M-137-20180516 M-81A-20180516 M-76-20180516 M-115-20180516 M-142-20180516 M-13-20180516 M-189-20180516 M-193-20180516 M-193-20180516-FD14 DFW-06-20180516 M-67-20180516 M-133-20180516 M-19-20180516 M-75-20180516 M-75-20180516-FB12 UFMW-04D-20180516 M-132-20180516 M-132-20180516-EB12 M-147-20180516 M-35-20180516 M-153-20180516
440-212427-1	M-97-20180530-TB16	05/30/18	Tetrachloroethene Toluene	0.26 ug/L 0.62 ug/L	M-97-20180530 M-97-20180530-FD12

Samples PC-79-20180508-EB5 (from SDG 440-210845-1), PC-74-20180508-EB15 (from SDG 440-210850-1), ARP-6B-20180509-EB6, ARP-2A-20180509-EB7 (both from SDG 440-211027-1), PC-21A-20180511-EB9 (from SDG 440-211202-1), M-38-20180514-EB4, M-64-20180514-EB8 (both from SDG 440-211273-1), M-73-20180515-EB10 (from SDG 440-211382-1), M-144-20180516-EB11, M-132-20180516-EB12 (both from SDG 440-211485-1), M-138-20180517-EB13, and M-186-20180517-EB14 (both from SDG 440-211582-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-211273-1	M-38-20180514-EB4	05/14/18	Methylene chloride	1.2 ug/L	M-38-20180514

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-211485-1	M-144-20180516-EB11	05/16/18	Toluene	0.90 ug/L	M-144-20180516

Samples PC-56-20180508-FB11 (from SDG 440-210850-1), PC-154-20180509-FB5, PC-122-20180509-FB7, HMW-13-20180509-FB15 (all three from SDG 440-211027-1), M-44-20180510-FB4, PC-131-20180510-FB6 (both from SDG 440-211101-1), H-56R-20180511-FB8 (from SDG 440-211202-1), M-70-20180514-FB9 (from SDG 440-211273-1), M-31A-20180515-FB10, M-93-20180515-FB13 (both from SDG 440-211382-1), M-75-20180516-FB12 (from SDG 440-211485-1), and M-2A-20180517-FB14 (from SDG 440-211582-1) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-211027-1	HMW-13-20180509-FB15	05/09/18	Toluene	0.97 ug/L	HMW-13-20180509
440-211101-1	M-44-20180510-FB4	05/10/18	Benzene Toluene	0.26 ug/L 0.32 ug/L	M-44-20180510
440-211273-1	M-70-20180514-FB9	05/14/18	Toluene	0.53 ug/L	M-70-20180514

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
440-211485-1	UFMW-01D-20180516	Methylene chloride	1.1 ug/L	1.1J ug/L
440-211485-1	UFMW-02D-20180516	Methylene chloride	1.1 ug/L	1.1J ug/L
440-211485-1	M-52-20180516	Methylene chloride	0.96 ug/L	0.96J ug/L
440-211485-1	M-120-20180516	Methylene chloride	1.1 ug/L	1.1J 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
440-210849-1	PC-108-20180508MS/MSD (PC-108-20180508)	2-Butanone	141 (48-140)	-	NA	-
440-211027-1	MW-K5-20180509MS/MSD (MW-K5-20180509)	Styrene	12 (29-150)	2 (29-150)	UJ (all non-detects)	A
440-211101-1	ARP-1-20180510MS/MSD (ARP-1-20180510)	Chloroethane Styrene	65 (68-130) 10 (29-150)	67 (68-130) 8 (29-150)	UJ (all non-detects) UJ (all non-detects)	A
440-211202-1	MC-97-20180511MS/MSD (MC-97-20180511)	Styrene	0 (29-150)	0 (29-150)	R (all non-detects)	A
440-211273-1	M-37-20180514MS/MSD (M-37-20180514)	Styrene	4 (29-150)	6 (29-150)	UJ (all non-detects)	A
440-211273-1	TR-12-20180514MS/MSD (TR-12-20180514)	1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane 1,2-Dibromo-3-chloropropane 2-Butanone	143 (63-130) 149 (60-130) 171 (48-140) 200 (48-140)	131 (63-130) 137 (60-130) 150 (48-140) 156 (48-140)	NA	-
440-211273-1	TR-12-20180514MS/MSD (TR-12-20180514)	2,2-Dichloropropane	-	56 (69-138)	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
440-211027-1	MW-K5-20180509MS/MSD (MW-K5-20180509)	Styrene	147 (≤ 35)	NA	-
440-211273-1	M-37-20180514MS/MSD (M-37-20180514)	Styrene	36 (≤ 35)	NA	-
440-211273-1	TR-12-20180514MS/MSD (TR-12-20180514)	2,2-Dichloropropane	38 (≤ 25)	NA	-
440-211485-1	UFMW-04D-20180516MS/MSD (UFMW-04D-20180516)	Styrene	62 (≤ 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. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

Samples PC-157B-20180508 and PC-157B-20180508-FD5 (both from SDG 440-210852-1), samples PC-136-20180509 and PC-136-20180509-FD6 (both from SDG 440-211027-1), samples HMW-15-20180510 and HMW-15-20180510-FD15 (both from SDG 440-211101-1), samples PC-151-20180510 and PC-151-20180510-FD7 (both from SDG 440-211101-1), samples TR-1-20180511 and TR-1-20180511-FD9 (both from SDG 440-211202-1), samples PC-64-20180511 and PC-64-20180511-FD8 (both from SDG 440-211202-1), samples M-37-20180514 and M-37-20180514-FD4 (both from SDG 440-211273-1), samples M-126-20180514 and M-126-20180514-FD10 (both from SDG 440-211273-3), samples DFW-03-20180515 and DFW-03-20180515-FD11 (both from SDG 440-211382-1), samples M-193-20180516 and M-193-20180516-FD14 (both from SDG 440-211485-1), samples TR-8-20180517 and TR-8-20180517-FD13 (both from SDG 440-211582-1), and samples M-97-20180530 and M-97-20180530-FD12 (both from SDG 440-212427-1) 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
		PC-136-20180509	PC-136-20180509-FD6			
440-211027-1	Carbon tetrachloride	0.86	0.83	4 (≤30)	-	-
	Chloroform	99	97	2 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PC-151-20180510	PC-151-20180510-FD7			
440-211101-1	1,1-Dichloroethane	1.2	1.2	0 (≤30)	-	-
	1,2,3-Trichlorobenzene	0.84	0.86	2 (≤30)	-	-
	1,2,4-Trichlorobenzene	2.9	3.1	7 (≤30)	-	-
	1,2-Dichlorobenzene	2.6	2.6	0 (≤30)	-	-
	1,2-Dichloroethane	0.41	0.43	5 (≤30)	-	-
	1,3-Dichlorobenzene	0.30	0.26	14 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PC-151-20180510	PC-151-20180510-FD7			
440-211101-1	1,4-Dichlorobenzene	4.2	4.3	2 (≤30)	-	-
	Chloroform	1.7	1.6	6 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PC-64-20180511	PC-64-20180511-FD8			
440-211202-1	1,3-Dichlorobenzene	1.3	1.3	0 (≤30)	-	-
	1,4-Dichlorobenzene	0.53	0.52	2 (≤30)	-	-
	Chloroform	1.7	1.7	0 (≤30)	-	-
	Tetrachloroethene	1.7	1.9	11 (≤30)	-	-
	Trichloroethene	0.57	0.61	7 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-37-20180514	M-37-20180514-FD4			
440-211273-1	1,1-Dichloroethene	0.83	0.87	5 (≤30)	-	-
	Chloroform	16	16	0 (≤30)	-	-
	Trichloroethene	0.26	0.31	18 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-126-20180514	M-126-20180514-FD10			
440-211273-3	1,1,2,2-Tetrachloroethane	54	130U	200 (≤30)	NQ	-
	1,2,4-Trimethylbenzene	66	130U	200 (≤30)	NQ	-
	1,2-Dichlorobenzene	540	490	10 (≤30)	-	-
	1,3-Dichlorobenzene	95	130U	200 (≤30)	NQ	-
	1,4-Dichlorobenzene	760	700	8 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-126-20180514	M-126-20180514-FD10			
	2-Chlorotoluene	60	130U	200 (≤30)	NQ	-
440-211273-3	4-Chlorotoluene	56	130U	200 (≤30)	NQ	-
	Benzene	4300	4300	0 (≤30)	-	-
	Bromobenzene	54	130U	200 (≤30)	NQ	-
	Chlorobenzene	5200	5200	0 (≤30)	-	-
	Chloroform	19000	19000	0 (≤30)	-	-
	Dibromochloromethane	54	130U	200 (≤30)	NQ	-
	o-Xylene	59	130U	200 (≤30)	NQ	-
	Toluene	65	130U	200 (≤30)	NQ	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		DFW-03-20180515	DFW-03-20180515-FD11			
440-211382-1	1,1-Dichloroethene	2.9	2.7	7 (≤30)	-	-
	Chloroform	42	39	7 (≤30)	-	-
	Trichloroethene	0.41	0.38	8 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-193-20180516	M-193-20180516-FD14			
440-211485-1	Chloroform	14	13	7 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		TR-8-20180517	TR-8-20180517-FD13			
440-211582-1	Chloroform	4.2	4.4	5 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-97-20180530	M-97-20180530-FD12			
440-212427-1	1,1-Dichloroethane	0.28	0.34	19 (≤30)	-	-
	1,1-Dichloroethene	110	110	0 (≤30)	-	-
	Chloroform	6.0	6.1	2 (≤30)	-	-
	Trichloroethene	22	23	4 (≤30)	-	-
	Bromodichloromethane	0.50U	0.27	200 (≤30)	NQ	-

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

XI. Internal Standards

Internal standard data were not reviewed for Stage 2A validation.

XII. Compound Quantitation

Raw data were not reviewed for Stage 2A validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Stage 2A validation.

XIV. System Performance

Raw data were not reviewed for Stage 2A validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

Due to MS/MSD %R, data were rejected in one sample.

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

Due to trip blank contamination, data were qualified as estimated in four 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 GWM Performance Sampling, 2018

Volatiles - Data Qualification Summary - SDGs 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-211027-1, 440-211101-1, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-212427-1

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-211027-1	MW-K5-20180509	Styrene	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-211101-1	ARP-1-20180510	Chloroethane Styrene	UJ (all non-detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-211202-1	MC-97-20180511	Styrene	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-211273-1	M-37-20180514	Styrene	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-211273-1	TR-12-20180514	2,2-Dichloropropane	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

NERT GWM Performance Sampling, 2018

Volatiles - Laboratory Blank Data Qualification Summary - SDGs 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-211027-1, 440-211101-1, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-212427-1

No Sample Data Qualified in these SDGs

NERT GWM Performance Sampling, 2018

Volatiles - Field Blank Data Qualification Summary - SDGs 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-211027-1, 440-211101-1, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-212427-1

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
440-211485-1	UFMW-01D-20180516	Methylene chloride	1.1J ug/L	A	bt
440-211485-1	UFMW-02D-20180516	Methylene chloride	1.1J ug/L	A	bt
440-211485-1	M-52-20180516	Methylene chloride	0.96J ug/L	A	bt
440-211485-1	M-120-20180516	Methylene chloride	1.1J ug/L	A	bt

ATTACHMENT B

1,2,3-Trichloropropane and 1,4-Dioxane Data Validation Report

1,2,3-Trichloropropane and 1,4-Dioxane by Environmental Protection Agency (EPA) SW 846 Method 8260B in Selected Ion Monitoring (SIM) mode

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 check data were not reviewed for Stage 2A validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Stage 2A validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Stage 2A validation.

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-97-20180508-TB1 (from SDG 440-210850-1), PC-134D-20180509-TB2, HMW-14-20180509-TB3 (both from SDG 440-211027-1), ARP-1-20180510-TB4, PC-18-20180510-TB5 (from SDG 440-211101-1), H-58R-20180511-TB6, TR-2-20180511-TB7 (both from SDG 440-211202-1), MW-16-20180514-TB8, M-71-20180514-TB9 (both from SDG 440-211273-1), TR-11-20180515-TB10, M-155-20180515-TB11 (both from SDG 440-211382-1), M-52-20180516-TB12, M-120-20180516-TB13 (both from SDG 440-211485-1), M-141-20180517-TB14, M-11-20180517-TB15 (both from SDG 440-211582-1), and M-97-20180530-TB16 (from SDG 440-212427-1) were identified as trip blanks. No contaminants were found.

Samples PC-79-20180508-EB5 (from SDG 440-210845-1), PC-74-20180508-EB15 (from SDG 440-210850-1), ARP-6B-20180509-EB6, ARP-2A-20180509-EB7 (both from SDG 440-211027-1), PC-21A-20180511-EB9 (from SDG 440-211202-1), M-38-20180514-EB4, M-64-20180514-EB8 (both from SDG 440-211273-1), M-73-20180515-EB10 (from SDG 440-211382-1), M-144-20180516-EB11, M-132-20180516-EB12 (both from SDG 440-211485-1), M-138-20180517-EB13, and M-186-20180517-EB14 (both from SDG 440-211582-1) were identified as equipment blanks. No contaminants were found.

Samples PC-56-20180508-FB11 (from SDG 440-210850-1), PC-154-20180509-FB5, PC-122-20180509-FB7, HMW-13-20180509-FB15 (all three from SDG 440-211027-1), M-44-20180510-FB4, PC-131-20180510-FB6 (both from SDG 440-211101-1), H-56R-20180511-FB8 (from SDG 440-211202-1), M-70-20180514-FB9 (from SDG 440-211273-1), M-31A-20180515-FB10, M-93-20180515-FB13 (both from SDG 440-211382-1), M-75-20180516-FB12 (from SDG 440-211485-1), and M-2A-20180517-FB14 (from SDG 440-211582-1) were identified as field blanks. 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. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

Samples PC-157B-20180508 and PC-157B-20180508-FD5 (both from SDG 440-210852-1), samples PC-136-20180509 and PC-136-20180509-FD6 (both from SDG 440-211027-1), samples HMW-15-20180510 and HMW-15-20180510-FD15 (both from SDG 440-211101-1), samples PC-151-20180510 and PC-151-20180510-FD7 (both from SDG 440-211101-1), samples TR-1-20180511 and TR-1-20180511-FD9 (both from SDG 440-211202-1), samples PC-64-20180511 and PC-64-20180511-FD8 (both from SDG 440-211202-1), samples M-37-20180514 and M-37-20180514-FD4 (both from SDG 440-211273-1), samples M-126-20180514 and M-126-20180514-FD10 (both from SDG 440-211273-3), samples DFW-03-20180515 and DFW-03-20180515-FD11 (both from SDG 440-211382-1), samples M-193-20180516 and M-193-20180516-FD14 (both from SDG 440-211485-1), samples TR-8-20180517 and TR-8-20180517-FD13 (both from SDG 440-211582-1), and samples M-97-20180530 and M-97-20180530-FD12 (both from SDG 440-212427-1) 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
		PC-136-20180509	PC-136-20180509-FD6			
440-211027-1	1,2,3-Trichloropropane	0.039	0.040	3 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PC-64-20180511	PC-64-20180511-FD8			
440-211202-1	1,2,3-Trichloropropane	0.13	0.13	0 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-37-20180514	M-37-20180514-FD4			
440-211273-1	1,2,3-Trichloropropane	0.17	0.17	0 (≤30)	-	-
	1,4-Dioxane	1.1	0.90	20 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		DFW-03-20180515	DFW-03-20180515-FD11			
440-211382-1	1,2,3-Trichloropropane	0.21	0.19	10 (≤30)	-	-
	1,4-Dioxane	0.55	0.78	35 (≤30)	NQ	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-193-20180516	M-193-20180516-FD14			
440-211485-1	1,2,3-Trichloropropane	0.0092	0.0087	6 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		M-97-20180530	M-97-20180530-FD12			
440-212427-1	1,2,3-Trichloropropane	0.16	0.17	6 (≤30)	-	-
	1,4-Dioxane	5.7	6.3	10 (≤30)	-	-

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

XI. Internal Standards

Internal standard data were not reviewed for Stage 2A validation.

XII. Compound Quantitation

Raw data were not reviewed for Stage 2A validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Stage 2A validation.

XIV. System Performance

Raw data were not reviewed for Stage 2A validation.

XV. Overall Assessment of Data

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

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

NERT GWM Performance Sampling, 2018

1,2,3-Trichloropropane & 1,4-Dioxane - Data Qualification Summary - SDGs 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-211027-1, 440-211101-1, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-212427-1

No Sample Data Qualified in this SDG

NERT GWM Performance Sampling, 2018

1,2,3-Trichloropropane & 1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDGs 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-211027-1, 440-211101-1, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-212427-1

No Sample Data Qualified in these SDGs

NERT GWM Performance Sampling, 2018

1,2,3-Trichloropropane & 1,4-Dioxane - Field Blank Data Qualification Summary - SDGs 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-211027-1, 440-211101-1, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-212427-1

No Sample Data Qualified in these SDGs

ATTACHMENT C

Metals Data Validation Report

Arsenic, Boron, Calcium, Chromium, Iron, Manganese, Molybdenum, Selenium, Sodium, Uranium, and Vanadium by Environmental Protection Agency (EPA) Methods 200.7/200.8

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Instrument Calibration

Instrument calibration data were not reviewed for Stage 2A validation.

III. ICP Interference Check Sample Analysis

ICP Interference check sample (ICS) analysis data were not reviewed for Stage 2A 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	Blank ID	Analyte	Maximum Concentration	Associated Samples
440-201738-1	PB (prep blank)	Chromium	0.00627 mg/L	I-E 012318 I-M 012318 I-D 012318 I-C 012318 I-S 012318 I-L 012318 I-Y 012318 I-R 012318
440-203461-1	PB (prep blank)	Chromium	0.00460 mg/L	All samples in SDG 440-203461-1
440-211273-2	PB (prep blank)	Sodium	0.396 mg/L	All samples in SDG 440-211273-2

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.

V. Field Blanks

Samples PC-116R-010318-EB (from SDG 440-199591-1), ART-4-010418-EB (from SDG 440-199670-1), I-I-011018-EB (from SDG 440-200408-1), PC-118-020618-EB (from SDG 440-202778-1), ART-8A 020718-EB (from SDG 440-202892-1), I-B 021418 EB (from SDG 440-203463-1), M-37-20180215-EB4 (from SDG 440-203553-1), PC-120 030618-EB (from SDG 440-205027-1), ART-3A 20180308-EB (from SDG 440-205407-2), I-D 031318-EB (from SDG 440-205744-1), PC-99R2/R3-040418-EB (from SDG 440-208051-1), ART-7B-040418-EB (from SDG 440-208051-2), I-G 041818-EB (from SDG 440-209210-1), E2-3-042318-EB (from SDG 440-209566-1), PC-79-20180508-EB5, (from SDG 440-210845-1), ART-9-050818-EB (from SDG 440-210863-1), PC-116R-050918-EB (from SDG 440-211009-1), ARP-6B-20180509-EB6 and ARP-2A-20180509-EB7 (both from SDG 440-211027-1), I-I-051018-EB (from SDG 440-11111-2), PC-21A-20180511-EB9 (from SDG 440-211202-1), M-38-20180514-EB4 and M-64-20180514-EB8 (both from SDG 440-211273-1), M-73-20180515-EB10 (from SDG 440-211382-1), M-144-20180516-EB11 and M-132-20180516-EB12 (both from SDG 440-211485-1), M-138-20180517-EB13 and M-186-20180517-EB14 (both from SDG 440-211582-1), E2-5-051718-EB (from SDG 440-211668-1), samples ART-1A-060518-EB (from SDG 440-212851-1), PC-118-060618-EB (from SDG 440-212971-1), I-K 060718-EB (from SDG 440-213105-1), and E1-2 061418-EB (from SDG 440-213708-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-200408-1	I-I-011018-EB	01/10/18	Chromium	0.0027 mg/L	I-I-011018
440-205744-1	I-D 031318-EB	03/13/18	Chromium	0.0048 mg/L	I-D 031318
440-211582-1	M-186-20180517-EB14	05/17/18	Chromium	0.0048 mg/L	M-186-20180517
440-212851-1	ART-1A-060518-EB	06/05/18	Chromium	0.0037 mg/L	ART-1A-060518
440-213105-1	I-K 060718-EB	06/07/18	Chromium	0.0096 mg/L	PC-116R-060618

Samples M-11-20180215-FB4 (from SDG 440-203554-1), PC-56-20180508-FB11 (from SDG 440-210850-1), PC-154-20180509-FB5 and PC-122-20180509-FB7 (both from SDG 440-211027-1), M-44-20180510-FB4 and PC-131-20180510-FB6 (both from SDG 440-211101-1), H-56R-20180511-FB8 (from SDG 440-211202-1), M-70-20180514-FB9 (from SDG 440-211273-1), M-31A-20180515-FB10 and M-93-20180515-FB13 (both from SDG 440-211382-1), M-75-20180516-FB12 (from SDG 440-211485-1), and M-2A-20180517-FB14 (from SDG 440-211582-1) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-211382-1	M-31A-20180515-FB10	05/15/18	Chromium	0.0058 mg/L	M-31A-20180515
440-211582-1	M-2A-20180517-FB14	05/17/18	Chromium	0.0038 mg/L	M-2A-20180517

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. 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
440-205407-2	ART-4 20180308MS/MSD (ART-1A 20180308 ART-2 20180308 ART-3A 20180308 ART-4 20180308 ART-7B 20180308 ART-8A 20180308 ART-9 20180308 PC-150 20180308 ART-4 20180308 FD ART-6 20180308)	Chromium	61 (70-130)	55 (70-130)	J- (all detects) UJ (all non-detects)	A

For I-O 012318MS/MSD and I-N 012318MS/MSD (both from SDG 440-201738-1), I-J 020818MS/MSD (from SDG 440-202984-1), I-O-021318MS/MSD and I-N-021318MS/MSD (both from SDG 440-203321-1), I-X 031318MS/MSD (from SDG 440-205744-1), I-G 041818MS/MSD (from SDG 440-209210-1), I-Z-051018MS/MSD (from SDG 440-211111-2), M-71-20180514MS/MSD (from SDG 440-211273-1), M-25-20180514MS/MSD (from SDG 440-211273-3), M-73-20180515MS/MSD (from SDG 440-211382-1), I-W-051718MS/MSD and I-N-051718MS/MSD (both from SDG 440-211648-1), and I-M 061218MS/MSD (from SDG 440-213505-1), no data were qualified for Chromium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For M-10-20180215MS/MSD (from SDG 440-203555-1), no data were qualified for Boron and Iron percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For M-7B-20180511MS/MSD (from SDG 440-211202-1), no data were qualified for Sodium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

Relative percent differences (RPD) were within QC limits.

VII. 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.

VIII. Serial Dilution

Serial dilution was not performed for these SDGs.

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 PC-117-010318 and PC-117-010318-FD (both from SDG 440-199591-1), samples ART-7B-010418 and ART-7B-010418-FD (both from SDG 440-199670-1), samples I-V-011018 and I-V-011018-FD (both from SDG 440-200408-1), samples PC-119-020618 and PC-119-020618-FD (both from SDG 440-202778-1), samples ART-9 020718 and ART-9 020718-FD (both from SDG 440-202892-1), samples I-C-021318 and I-C-021318-FD (both from SDG 440-203321-1), samples M-80-20180215 and M-80-20180215-FD4 (both from SDG 440-203554-1), samples PC-121 030618 and PC-121 030618-FD (both from SDG 440-205027-1), samples ART-4 20180308 and ART-4 20180308-FD (both from SDG 440-205407-2), samples I-E 031318 and I-E 031318-FD (both from SDG 440-205744-1), samples PC-133-040418 and PC-133-040418-FD (both from SDG 440-208051-1), samples ART-6-040418-FD and ART-6-040418 (both from SDG 440-208051-2), samples I-F 041818 and I-F 041818-FD (both from SDG 440-209210-1), samples E2-2-042318 and E2-2-042318-FD (both from SDG 440-209566-1), samples PC-157B-20180508 and PC-157B-20180508-FD5 (both from SDG 440-210852-1), samples ART-8A-050818 and ART-8A-050818-FD (both from SDG 440-210863-1), samples PC-115R-050918 and PC-115R-050918-FD (both from SDG 440-211009-1), samples PC-136-20180509 and PC-136-20180509-FD6 (both from SDG 440-211027-1), samples PC-151-20180510 and PC-151-20180510-FD7 (both from SDG 440-211101-1), samples TR-1-20180511 and TR-1-20180511-FD9 (both from SDG 440-211202-1), samples PC-64-20180511 and PC-64-20180511-FD8 (both from SDG 440-211202-1), samples M-37-20180514 and M-37-20180514-FD4 (both from SDG 440-211273-1), samples M-126-20180514 and M-126-20180514-FD10 (both from SDG 440-211273-3), samples DFW-03-20180515 and DFW-03-20180515-FD11 (both from SDG 440-211382-1), samples M-193-20180516 and M-193-20180516-FD14 (both from SDG 440-211485-1), samples TR-8-20180517 and TR-8-20180517-FD13 (both from SDG 440-211582-1), samples I-H-051718 and I-H-051718-FD (both from SDG 440-211648-1), samples E2-4-051718 and E2-4-051718-FD (both from SDG 440-211668-1), samples M-97-20180530 and M-97-20180530-FD12 (both from SDG 440-212427-1), samples PC-150-060518 and PC-150-06051-FD (both from SDG 440-

212851-1), samples PC-117-060618 and PC-117-060618-FD (both from SDG 440-212971-1), samples I-J 060718 and I-J 060718-FD (both from SDG 440-213105-1), and samples E1-1 061418 and E1-1 061418-FD (both from SDG 440-213718-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-117-010318	PC-117-010318-FD			
440-199591-1	Chromium	0.0043	0.0032	29 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-7B-010418	ART-7B-010418-FD			
440-199670-1	Chromium	0.62	0.57	8 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-V-011018	I-V-011018-FD			
440-200408-1	Chromium	17	18	6 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-9 020718	ART-9 020718-FD			
440-202892-1	Chromium	0.70	0.71	1 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-C-021318	I-C-021318-FD			
440-203321-1	Chromium	2.3	2.2	4 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		M-80-20180215	M-80-20180215-FD4			
440-203554-1	Chromium	3.1	3.1	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-4 20180308	ART-4 20180308-FD			
440-205407-2	Chromium	0.15	0.14	7 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-E 031318	I-E 031318-FD			
440-205744-1	Chromium	6.5	7.0	7 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-6-040418-FD	ART-6-040418			
440-208051-2	Chromium	7.0	6.2	12 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-F 041818	I-F 041818-FD			
440-209210-1	Chromium	11	15	31 (≤30)	J (all detects)	A

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E2-2-042318	E2-2-042318-FD			
440-209566-1	Chromium	0.026	0.028	7 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-8A-050818	ART-8A-050818-FD			
440-210863-1	Chromium	0.10	0.10	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-136-20180509	PC-136-20180509-FD6			
440-211027-1	Chromium	0.93	0.76	20 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-151-20180510	PC-151-20180510-FD7			
440-211101-1	Chromium	0.0029	0.0027	7 (≤ 30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		TR-1-20180511	TR-1-20180511-FD9			
440-211202-1	Chromium	0.053	1.7	188 (≤ 30)	J (all detects)	A

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-64-20180511	PC-64-20180511-FD8			
440-211202-1	Chromium	0.72	0.77	7 (≤ 30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		M-37-20180514	M-37-20180514-FD4			
440-211273-1	Chromium	0.028	0.010U	200 (≤ 30)	NQ	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		M-126-20180514	M-126-20180514-FD10			
440-211273-3	Chromium	0.010U	0.013	200 (≤ 30)	NQ	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		DFW-03-20180515	DFW-03-20180515-FD11			
440-211382-1	Chromium	0.61	0.59	3 (≤ 30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		M-193-20180516	M-193-20180516-FD14			
440-211485-1	Chromium	0.44	0.43	2 (≤ 30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		TR-8-20180517	TR-8-20180517-FD13			
440-211582-1	Chromium	0.018	0.018	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-H-051718	I-H-051718-FD			
440-211648-1	Chromium	16	16	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E2-4-051718	E2-4-051718-FD			
440-211668-1	Chromium	0.024	0.025	4 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		M-97-20180530	M-97-20180530-FD12			
440-212427-1	Chromium	0.092	0.091	1 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-150-060518	PC-150-06051-FD			
440-212851-1	Chromium	0.055	0.054	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-117-060618	PC-117-060618-FD			
440-212971-1	Chromium	0.0050	0.0044	13 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-J 060718	I-J 060718-FD			
440-213105-1	Chromium	4.0	3.9	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E1-1 061418	E1-1 061418-FD			
440-213708-1	Chromium	0.039	0.037	5 (≤30)	-	-

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

XI. Sample Result Verification

Raw data were not reviewed for Stage 2A 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 MS/MSD %R and field duplicates RPD, data were qualified as estimated in fourteen 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 GWM Performance Sampling, 2018

Metals - Data Qualification Summary - SDGs 440-199591-1, 440-199670-1, 440-200408-1, 440-201738-1, 440-202778-1, 440-202779-1, 440-202892-1, 440-202984-1, 440-203321-1, 440-203461-1, 440-203463-1, 440-203553-1, 440-203554-1, 440-203555-1, 440-205027-1, 440-205407-1, 440-205407-2, 440-205744-1, 440-205886-1, 440-206049-1, 440-208051-1, 440-208051-2, 440-208519-1, 440-208636-1, 440-209210-1, 440-209334-1, 440-209566-1, 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-210863-1, 440-211009-1, 440-211027-1, 440-211101-1, 440-211111-1, 440-211111-2, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-211648-1, 440-211668-1, 440-212427-1, 440-212851-1, 440-212971-1, 440-213105-1, 440-213505-1, 440-213564-1, 440-213708-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-205407-2	ART-1A 20180308 ART-2 20180308 ART-3A 20180308 ART-4 20180308 ART-7B 20180308 ART-8A 20180308 ART-9 20180308 PC-150 20180308 ART-4 20180308 FD ART-6 20180308	Chromium	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-209210-1	I-F 041818 I-F 041818-FD	Chromium	J (all detects)	A	Field duplicates (RPD) (fd)
440-211202-1	TR-1-20180511 TR-1-20180511-FD9	Chromium	J (all detects)	A	Field duplicates (RPD) (fd)

NERT GWM Performance Sampling, 2018

Metals - Laboratory Blank Data Qualification Summary - SDGs 440-199591-1, 440-199670-1, 440-200408-1, 440-201738-1, 440-202778-1, 440-202779-1, 440-202892-1, 440-202984-1, 440-203321-1, 440-203461-1, 440-203463-1, 440-203553-1, 440-203554-1, 440-203555-1, 440-205027-1, 440-205407-1, 440-205407-2, 440-205744-1, 440-205886-1, 440-206049-1, 440-208051-1, 440-208051-2, 440-208519-1, 440-208636-1, 440-209210-1, 440-209334-1, 440-209566-1, 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-210863-1, 440-211009-1, 440-211027-1, 440-211101-1, 440-211111-1, 440-211111-2, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-211648-1, 440-211668-1, 440-212427-1, 440-212851-1, 440-212971-1, 440-213105-1, 440-213505-1, 440-213564-1, 440-213708-1

No Sample Data Qualified in these SDGs

NERT GWM Performance Sampling, 2018

Metals - Field Blank Data Qualification Summary – SDGs 440-199591-1, 440-199670-1, 440-200408-1, 440-201738-1, 440-202778-1, 440-202779-1, 440-202892-1, 440-202984-1, 440-203321-1, 440-203461-1, 440-203463-1, 440-203553-1, 440-203554-1, 440-203555-1, 440-205027-1, 440-205407-1, 440-205407-2, 440-205744-1, 440-205886-1, 440-206049-1, 440-208051-1, 440-208051-2, 440-208519-1, 440-208636-1, 440-209210-1, 440-209334-1, 440-209566-1, 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-210863-1, 440-211009-1, 440-211027-1, 440-211101-1, 440-211111-1, 440-211111-2, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-211648-1, 440-211668-1, 440-212427-1, 440-212851-1, 440-212971-1, 440-213105-1, 440-213505-1, 440-213564-1, 440-213708-1

No Sample Data Qualified in these SDGs

ATTACHMENT D

Wet Chemistry Data Validation Report

Ammonia as Nitrogen by Environmental Protection Agency (EPA) Method 350.1
Chlorate by EPA Method 300.1B
Chloride, Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate by EPA Method 300.0
Conductivity by Standard Method 2510B
Field pH
Nitrate/Nitrite as Nitrogen and Total Inorganic Nitrogen by Calculation Method
Perchlorate by EPA Method 314.0
Total Dissolved Solids by Standard Method 2540C
Total Organic Carbon by Standard Method 5310C
Toxic Organic Halides by Standard Method 9020B
Total Recoverable Phenolics by EPA Method 420.4

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Laboratory Blanks

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

SDG	Blank ID	Analyte	Maximum Concentration	Associated Samples
440-200594-1/ N027916	PB (prep blank)	Hexavalent chromium	0.00005 mg/L	All samples in SDG 440-200594-1/N027916
440-201778-1/ N028178	PB (prep blank)	Hexavalent chromium	0.000059 mg/L	I-B 012318 I-AA 012318 I-AR 012318
440-203363-1/ N028585	PB (prep blank)	Hexavalent chromium	0.000067700 mg/L	All samples in SDG 440-203363-1/N028585
440-203540-1/ N028622	PB (prep blank)	Hexavalent chromium	0.000064600 mg/L	All samples in SDG 440-203540-1/N028622
440-207727-1/ N029108	PB (prep blank)	Hexavalent chromium	0.000040400 mg/L	All samples in SDG 440-207727-1/N029108
440-207728-1/ N029089	PB (prep blank)	Hexavalent chromium	0.000078400 mg/L	I-F 031318 I-X 031318 I-N 031318 I-E 031318 I-M 031318 I-D 031318 I-D 031318-EB I-E 031318-FD

SDG	Blank ID	Analyte	Maximum Concentration	Associated Samples
440-207728-1/ N029089	PB (prep blank)	Hexavalent chromium	0.000040400 mg/L	I-O 031318 I-W 031318 I-P 031318 I-H 031318 I-U 031318 I-T 031318 I-G 031318 I-Q 031318

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.

III. Field Blanks

Samples PC-116R-010318-EB (from SDG 440-199591-1), PC-116R-010318-EB (from SDG 440-199625-1/N027810), ART-4-010418-EB (from SDG 440-199670-1), I-I-011018-EB (from SDGs 440-200408-1 and 440-200594-1/N027916), ART-4-010418-EB (from SDG 440-201327-1/N027816), PC-118-020618-EB (from SDG 440-202778-1), ART-8A 020718-EB (from SDG 440-202892-1), ART-8A 020718-EB (from SDG 440-203013-1/N028470), I-B 021418-EB (from SDG 440-203463-1), I-B 021418-EB (from SDG 440-203540-1/N028622), M-37-20180215-EB4 (from SDG 440-203553-1), PC-120 030618-EB (from SDG 440-205027-1), PC-120 030618-EB (from SDG 440-205153-1/N028935), ART-3A 030818 EB (from SDG 440-205407-2), I-D 031318-EB (from SDG 440-205744-1), ART-3A 030818-EB (from SDG 440-205921-1/N028984), I-D 031318-EB (from SDG 440-207728-1/N029089), PC-99R2/R3-040418-EB (from SDG 440-208051-1), ART-7B-040418-EB (from SDG 440-208051-2), PC-99R2/R3-040418-EB (from SDG 440-208140-1/N029551), ART-7B-04041-EB (from SDG 440-208140-2/N029552), I-G 041818-EB (from SDGs 440-209210-1 and 440-209301-1/N029851), E2-3-042318-EB (from SDG 440-209566-1), E2-3 042318-EB (from SDG 440-210245-1/N029939), PC-79-20180508-EB5 (from SDG 440-210845-1), PC-74-20180508-EB15 (from SDG 440-210850-1), ART-9-050818-EB (from SDGs 440-210863-1 and 440-210873-1/N030228), PC-116R-050918-EB (from SDGs 440-210993-1/N030256 and 440-211009-1), ARP-6B-20180509-EB6 and ARP-2A-20180509-EB7 (both from SDG 440-211027-1), I-I-051018-EB (from SDGs 440-211111-2 and 440-211168-1/N030295), ART-9-050818-EB (from SDG 440-211170-1/N030228), PC-21A-20180511-EB9 (from SDG 440-211202-1), M-38-20180514-EB4 and M-64-20180514-EB8 (both from SDG 440-211273-1), M-73-20180515-EB10 (from SDG 440-211382-1), M-144-20180516-EB11 and M-132-20180516-EB12 (both from SDG 440-211485-1), M-138-20180517-EB13 and M-186-20180517-EB14 (both from SDG 440-211582-1), E2-5-051718-EB (from SDG 440-211668-1), E2-5-051718-EB (from SDG 440-211690-1/N030379), ART-1A-060518-EB (from SDGs 440-212845-1/N030631 and 440-212851-1), PC-118-060618-EB (from SDG 440-212971-1), I-K 060718-EB (from SDGs 440-213105-1 and 440-213183-1/N030682), PC-118 060618-EB (from SDG 440-213217-1/N030669), and E1-2 061418-EB (from SDGs 440-213708-1 and 440-213714-1/N030786) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-203553-1	M-37-20180215-EB4	02/15/18	Perchlorate	3.3 ug/L	M-37-20180215
440-205027-1	PC-120 030618-EB	03/06/18	Perchlorate	0.0010 ug/L	PC-120 030618
440-208051-2	ART-7B-040418-EB	04/04/18	Nitrate as N	24 mg/L	ART-7B-040418
440-211582-1	M-138-20180517-EB13	05/17/18	Total dissolved solids	10 mg/L	M-138-20180517

Samples LVW6.6-3-20180116-FB (from SDG 440-201372-1), LVW 5.3-3-20180212-FB (from SDG 440-203483-1), M-11-20180215-FB4 (from SDG 440-203554-1), LVW4.2-4-20180308-FB (from SDG 440-205433-1), LVW6.05-0.5-20180405-FB (from SDG 440-208206-1), PC-56-20180508-FB11 (from SDG 440-210850-1), PC-154-20180509-FB5, PC-122-20180509-FB7, and HMW-13-20180509-FB15 (all three from SDG 440-211027-1), M-44-20180510-FB4 and PC-131-20180510-FB6 (both from SDG 440-211101-1), LVW 4.2-1-20180510-FB and LVW 7.2-20180510-FB (both from SDG 440-211149-1), H-56R-20180511-FB8 (from SDG 440-211202-1), M-70-20180514-FB9 (from SDG 440-211273-1), M-31A-20180515-FB10 and M-93-20180515-FB13 (both from SDG 440-211382-1), M-75-20180516-FB12 (from SDG 440-211485-1), M-2A-20180517-FB14 (from SDG 440-211582-1), and LVW 7.2-1.0-20180607-FB and LVW 6.05-0.5-20180607-FB (both from SDG 440-213106-1) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-208206-1	LVW6.05-0.5-20180405-FB	04/05/18	Total dissolved solids	20 mg/L	LVW6.05-0.5-20180405
440-211101-1	M-44-20180510-FB4	05/10/18	Perchlorate	0.62 ug/L	M-44-20180510
440-211582-1	M-2A-20180517-FB14	05/17/18	Total dissolved solids	20 mg/L	M-2A-20180517

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.

IV. Surrogates

Surrogates were added to all samples as required by method 300.1B. All surrogate recoveries (%R) were within QC limits.

V. 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
440-203485-1	LVW4.2-4-2.0-20180213MS/MSD (LVW4.2-4-2.0-20180213 LVW4.2-4-2.0-20180213-FD LVW3.5-1-1.5-20180213)	Perchlorate	130 (80-120)	130 (80-120)	J+ (all detects)	A
440-205433-1	LVW4.2-3-2.5-20180308MS/MSD (LVW4.2-3-2.5-20180308 LVW4.2-4-0.5-20180308)	Perchlorate	124 (80-120)	126 (80-120)	J+ (all detects)	A
440-208206-1	LVW0.55-1.0-20180404MS/MSD (LVW0.55-1.0-20180404 LVW5.3-1-0.5-20180405 LVW5.3-2-0.5-20180405 LVW5.3-3-0.5-20180405 LVW6.05-0.5-20180405)	Perchlorate	-	122 (80-120)	J+ (all detects)	A
440-208206-1	LVW0.55-1.0-20180404MS/MSD (LVW4.2-4-2.0-20180404)	Perchlorate	-	122 (80-120)	NA	-
440-208636-1	I-B 041118MS/MSD (I-B 041118 I-AA 041118 I-AR 041118 I-AB 041118 I-C 041118 I-D 041118 I-M 041118 I-E 041118)	Nitrate as N	122 (80-120)	-	J+ (all detects)	A
440-209210-1	I-U 041818MS/MSD (I-U 041818 I-T 041818 I-G 041818)	Nitrate as N	219 (80-120)	217 (80-120)	J+ (all detects)	A
440-211202-1	MC-6-20180511MS/MSD (PC-66-20180511 M-48A-20180511 PC-54-20180511 PC-65-20180511 M-57A-20180511 H-58R-20180511 TR-1-20180511-FD9 PC-64-20180511 PC-64-20180511-FD8 PC-67-20180511 MC-6-20180511 PC-71-20180511)	Chlorate	59 (75-125)	57 (75-125)	J- (all detects) UJ (all non-detects)	A

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-211273-1	M-161-20180514MS/MSD (M-64-20180514 M-71-20180514 TR-6-20180514 TR-5-20180514 TR-12-20180514 M-69-20180514 TR-4-20180514 M-162D-20180514 M-70-20180514 M-161-20180514)	Nitrate as N	-	125 (80-120)	J+ (all detects)	A
440-211273-1	MC-50-20180514MS/MSD (MC-50-20180514)	Chlorate	63 (75-125)	64 (75-125)	UJ (all non-detects)	A
440-212851-1	ART-1A-060518MS/MSD (ART-1A-060518 ART-2-060518 ART-3A-060518 ART-4-060518 ART-7B-060518)	Nitrate as N	126 (80-120)	129 (80-120)	J+ (all detects)	A

For I-O 012518MS/MSD (from SDG 440-201942-1), MC-65R2-20180511MS/MSD (from SDG 440-211202-1), M-97-20180515MS/MSD and M-163-20180515MS/MSD (both from SDG 440-211382-1), I-B-051718MS/MSD (from SDG 440-211648-1), and ART-1A-060518MS/MSD (from SDG 440-212851-1), no data were qualified for Chlorate percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For M-10-20180215MS/MSD (from SDG 440-203555-1), no data were qualified for Chloride percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For I-O 041818MS/MSD (from SDG 440-209210-1) and E1-1 041918MS/MSD and E2-1 041918MS/MSD (both from SDG 440-209334-1), no data were qualified for Nitrate as N percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For M-7B-20180511MS/MSD (from SDG 440-211202-1), no data were qualified for Chloride and Sulfate percent recoveries (%R) 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)	Analyte	RPD (Limits)	Flag	A or P
440-211382-1	M-97-20180515MS/MSD (M-164-20180515 M-80-20180515)	Chlorate	64 (≤ 25)	J (all detects) UJ (all non-detects)	A

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 methods. Percent recoveries (%R) were within QC limits.

VIII. Field Duplicates

Samples PC-117-010318 and PC-117-010318-FD (both from SDG 440-199591-1), samples PC-117-010318 and PC-117-010318-FD (both from SDG 440-199625-1/N027810), samples ART-7B-010418 and ART-7B-010418-FD (both from SDG 440-199670-1), samples I-V-011018 and I-V-011018-FD (both from SDG 440-200408-1), samples I-V-011018 and I-V-011018-FD (both from SDG 440-200594-1/N027916), samples ART-7B-010418 and ART-7B-010418-FD (both from SDG 440-201327-1/N027816), samples LVW3.5-6-1.50-20180115 and LVW3.5-6-1.50-20180115-FD (both from SDG 440-201372-1), samples PC-119-020618 and PC-119-020618-FD (both from SDG 440-202778-1), samples ART-9 020718 and ART-9 020718-FD (both from SDG 440-202892-1), samples ART-9 020718 and ART-9 020718-FD (both from SDG 440-203013-1/N028470), samples I-C-021318 and I-C-021318-FD (both from SDG 440-203321-1), samples I-C-021318 and I-C-021318-FD (both from SDG 440-203363-1/N028585), samples LVW4.2-4-2.0-20180213 and LVW4.2-4-2.0-20180213-FD (both from SDG 440-203485-1), samples LVW0.55-1.0-20180213 and LVW0.55-1.0-20180213-FD (both from SDG 440-203485-1), samples M-80-20180215 and M-80-20180215-FD4 (both from SDG 440-203554-1), samples PC-119 020618 and PC-119 020618-FD (both from SDG 440-203556-1/N028448), samples PC-121 030618 and PC-121 030618-FD (both from SDG 440-205027-1), samples PC-121 030618 and PC-121 030618-FD (both from SDG 440-205153-1/N028935), samples ART-4 030818 and ART-4 030818 FD (both from SDG 440-205407-2), samples LVW6.05-0.5-20180308 and LVW6.05-0.5-20180308-FD (both from SDG 440-205433-1), samples LVW7.2-1.0-20180308 and LVW7.2-1.0-20180308-FD (both from SDG 440-205433-1), samples I-E 031318 and I-E 031318-FD (both from SDG 440-205744-1), samples I-E 031318 and I-E 031318-FD (both from SDG 440-205744-1), samples ART-4 030818 and ART-4 030818-FD (both from SDG 440-205921-1/N028984), samples I-E 031318 and I-E 031318-FD (both from SDG 440-207728-1/N029089), samples PC-133-040418 and PC-133-040418-FD (both from SDG 440-208051-1), samples ART-6-040418-FD and ART-6-040418 (both from SDG 440-208051-2), samples PC-133-040418 and PC-133-040418-FD (both from SDG 440-208140-1/N029551), samples ART-6-040418-FD and ART-6-040418 (both from SDG 440-208140-2/N029552), samples LVW7.2-1.0-20180405 and LVW7.2-1.0-20180405-FD (both from SDG 440-208206-1), samples LVW6.05-0.5-20180405 and LVW6.05-0.5-20180405-FD (both from SDG 440-208206-1), samples I-F 041818 and I-F 041818-FD (both from SDG 440-209210-1), samples I-F 041818 and I-F 041818-FD (from SDG 440-209301-1/N029851), samples E2-2-042318 and E2-2-042318-FD (both from SDG 440-209566-1), samples E2-2 042318 and E2-2 042318-FD (both from SDG 440-210245-1/N029939), samples PC-157B-20180508 and PC-157B-20180508-FD5 (both from SDG 440-210852-1), samples ART-8A-050818 and

ART-8A-050818-FD (both from SDG 440-210863-1), samples ART-8A-050818 and ART-8A-050818-FD (both from SDG 440-210873-1/N030228), samples PC-115R-050918 and PC-115R-050918-FD (both from SDG 440-210993-1/N030256), samples PC-115R-050918 and PC-115R-050918-FD (both from SDG 440-211009-1), samples PC-136-20180509 and PC-136-20180509-FD6 (both from SDG 440-211027-1), samples HMW-15-20180510 and HMW-15-20180510-FD15 (both from SDG 440-211101-1), samples PC-151-20180510 and PC-151-20180510-FD7 (both from SDG 440-211101-1), samples LVW 4.75-5-1.0-20180510 and LVW 4.75-5-1.0-20180510-FD (both from SDG 440-211149-1), samples LVW 6.05-0.5-20180510 and LVW 6.05-0.5-20180510-FD (both from SDG 440-211149-1), samples LVW 7.2-1.0-20180510 and LVW 7.2-1.0-20180510-FD (both from SDG 440-211149-1), samples ART-8A-050818 and ART-8A-050818-FD (both from SDG 440-211170-1/N030228), samples TR-1-20180511 and TR-1-20180511-FD9 (both from SDG 440-211202-1), samples PC-64-20180511 and PC-64-20180511-FD8 (both from SDG 440-211202-1), samples M-37-20180514 and M-37-20180514-FD4 (both from SDG 440-211273-1), samples M-126-20180514 and M-126-20180514-FD10 (both from SDG 440-211273-3), samples DFW-03-20180515 and DFW-03-20180515-FD11 (both from SDG 440-211382-1), samples M-193-20180516 and M-193-20180516-FD14 (both from SDG 440-211485-1), samples TR-8-20180517 and TR-8-20180517-FD13 (both from SDG 440-211582-1), samples I-H-051718 and I-H-051718-FD (both from SDG 440-211648-1), samples E2-4-051718 and E2-4-051718-FD (both from SDG 440-211668-1), samples E2-4-051718 and E2-4-051718-FD (both from SDG 440-211690-1/N030379), samples I-H-051718 and I-H-051718-FD (both from SDG 440-211692-1/N030378), samples M-97-20180530 and M-97-20180530-FD12 (both from SDG 440-212427-1), samples PC-150-060518 and PC-150-060518-FD (both from SDG 440-212845-1/N030631), samples PC-150-060518 and PC-150-06051-FD (both from SDG 440-212851-1), samples PC-117-060618 and PC-117-060618-FD (both from SDG 440-212971-1), samples W1 Archery-0.75-20180606 and W1 Archery-0.75-20180606-FD (both from SDG 440-213046-1), samples I-J 060718 and I-J 060718-FD (both from SDG 440-213105-1), samples LVW 0.55-0.5-20180607 and LVW 0.55-0.5-20180607-FD (both from SDG 440-213106-1), samples LVW 6.05-0.5-20180607 and LVW 6.05-0.5-20180607-FD (both from SDG 440-213106-1), samples LVW 7.2-1.0-20180607 and LVW 7.2-1.0-20180607-FD (both from SDG 440-213106-1), samples I-J 060718 and I-J 060718-FD (both from SDG 440-213183-1/N030682), samples PC-117-060618 and PC-117-060618-FD (both from SDG 440-213217-1/N030669), samples E1-1 061418 and E1-1 061418-FD (both from SDG 440-213708-1), and samples E1-1 061418 and E1-1 061418-FD (both from SDG 440-213714-1/N030786) 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-117-010318	PC-117-010318-FD			
440-199591-1	Nitrate as N	5.6 mg/L	5.6 mg/L	0 (≤30)	-	-
	Chlorate	15000 ug/L	16000 ug/L	6 (≤30)	-	-
	Perchlorate	5.4 mg/L	5.6 mg/L	4 (≤30)	-	-
	Total dissolved solids	2600 mg/L	2600 mg/L	0 (≤30)	-	-
	Field pH	7.48 SU	7.41 SU	1 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-117-010318	PC-117-010318-FD			
440-199625-1/ N027810	Hexavalent chromium	0.0030	0.0030	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ART-7B-010418	ART-7B-010418-FD			
440-199670-1	Nitrate as N	26 mg/L	27 mg/L	4 (≤30)	-	-
	Chlorate	340000 ug/L	340000 ug/L	0 (≤30)	-	-
	Perchlorate	93 mg/L	97 mg/L	4 (≤30)	-	-
	Total dissolved solids	7600 mg/L	7600 mg/L	0 (≤30)	-	-
	Field pH	7.39 SU	7.38 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-V-011018	I-V-011018-FD			
440-200408-1	Nitrate as N	32 mg/L	32 mg/L	0 (≤30)	-	-
	Chlorate	3200000 ug/L	3500000 ug/L	9 (≤30)	-	-
	Perchlorate	850 mg/L	820 mg/L	4 (≤30)	-	-
	Total dissolved solids	9700 mg/L	9700 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-V-011018	I-V-011018-FD			
	Field pH	7.39 SU	7.35 SU	1 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-V-011018	I-V-011018-FD			
440-200594-1/ N027916	Hexavalent chromium	15	14	7 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-7B-010418	ART-7B-010418-FD			
440-201327-1/ N027816	Hexavalent chromium	0.58	0.58	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW3.5-6-1.50-20180115	LVW3.5-6-1.50-20180115-FD			
440-201372-1	Chlorate	240 ug/L	230 ug/L	4 (≤30)	-	-
	Perchlorate	67 ug/L	65 ug/L	3 (≤30)	-	-
	Total dissolved solids	1400 mg/L	1400 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-119-020618	PC-119-020618-FD			
440-202778-1	Nitrate as N	0.47 mg/L	0.47 mg/L	0 (≤30)	-	-
	Chlorate	350 ug/L	360 ug/L	3 (≤30)	-	-
	Perchlorate	1.0 mg/L	1.0 mg/L	0 (≤30)	-	-
	Total dissolved solids	1900 mg/L	1900 mg/L	0 (≤30)	-	-
	Field pH	7.51 SU	7.45 SU	1 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ART-9 020718	ART-9 020718-FD			
440-202892-1	Nitrate as N	21 mg/L	21 mg/L	0 (≤30)	-	-
	Chlorate	410000 ug/L	350000 ug/L	16 (≤30)	-	-
	Perchlorate	180 mg/L	190 mg/L	5 (≤30)	-	-
	Total dissolved solids	6000 mg/L	5900 mg/L	2 (≤30)	-	-
	Field pH	7.16 SU	7.28 SU	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-9 020718	ART-9 020718-FD			
440-203013-1/ N028470	Hexavalent chromium	0.70	0.70	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-C-021318	I-C-021318-FD			
440-203321-1	Nitrate as N	95 mg/L	96 mg/L	1 (≤30)	-	-
	Chlorate	580000 ug/L	580000 ug/L	0 (≤30)	-	-
	Perchlorate	600 mg/L	570 mg/L	5 (≤30)	-	-
	Total dissolved solids	5700 mg/L	5600 mg/L	2 (≤30)	-	-
	Field pH	7.60 SU	7.56 SU	1 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-C-021318	I-C-021318-FD			
440-203363-1/ N028585	Hexavalent chromium	2.1	2.2	5 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW4.2-4-2.0-20180213	LVW4.2-4-2.0-20180213-FD			
440-203485-1	Chlorate	180 ug/L	160 ug/L	12 (≤30)	-	-
	Perchlorate	12 ug/L	11 ug/L	9 (≤30)	-	-
	Total dissolved solids	1300 mg/L	1300 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW0.55-1.0-20180213	LVW0.55-1.0-20180213-FD			
440-203485-1	Chlorate	250 ug/L	260 ug/L	4 (≤30)	-	-
	Perchlorate	44 ug/L	41 ug/L	7 (≤30)	-	-
	Total dissolved solids	1300 mg/L	1300 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-80-20180215	M-80-20180215-FD4			
440-203554-1	Hexavalent chromium	3100 ug/L	3200 ug/L	3 (≤30)	-	-
	Perchlorate	650000 ug/L	640000 ug/L	2 (≤30)	-	-
	Total dissolved solids	5400 mg/L	5300 mg/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-121 030618	PC-121 030618-FD			
440-205027-1	Perchlorate	0.30 mg/L	0.29 mg/L	3 (≤30)	-	-
	Field pH	7.41 SU	7.37 SU	1 (≤30)	-	-
	Total dissolved solids	1600 mg/L	1600 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ART-4 030818	ART-4 030818 FD			
440-205407-2	Nitrate as N	12 mg/L	13 mg/L	8 (≤30)	-	-
	Chlorate	160000 ug/L	160000 ug/L	0 (≤30)	-	-
	Perchlorate	140 mg/L	150 mg/L	7 (≤30)	-	-
	Field pH	7.49 SU	7.49 SU	0 (≤30)	-	-
	Total dissolved solids	5400 mg/L	5400 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW6.05-0.5-20180308	LVW6.05-0.5-20180308-FD			
440-205433-1	Chlorate	120 ug/L	120 ug/L	0 (≤30)	-	-
	Perchlorate	3.7 ug/L	2.8 ug/L	28 (≤30)	-	-
	Total dissolved solids	1500 mg/L	1500 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW7.2-1.0-20180308	LVW7.2-1.0-20180308-FD			
440-205433-1	Chlorate	100 ug/L	100 ug/L	0 (≤30)	-	-
	Total dissolved solids	1300 mg/L	1300 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-E 031318	I-E 031318-FD			
440-205744-1	Nitrate as N	35 mg/L	31 mg/L	12 (≤30)	-	-
	Chlorate	1700000 ug/L	1700000 ug/L	0 (≤30)	-	-
	Perchlorate	410 mg/L	460 mg/L	11 (≤30)	-	-
	Field pH	7.57 SU	7.58 SU	0 (≤30)	-	-
	Total dissolved solids	7100 mg/L	7100 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-4 030818	ART-4 030818-FD			
440-205921-1/ N028984	Hexavalent chromium	0.16	0.16	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-E 031318	I-E 031318-FD			
440-207728-1/ N029089	Hexavalent chromium	6.1	6.0	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-133-040418	PC-133-040418-FD			
440-208051-1	Nitrate as N	0.37 mg/L	0.34 mg/L	8 (≤30)	-	-
	Chlorate	780 ug/L	790 ug/L	1 (≤30)	-	-
	Perchlorate	1.4 mg/L	1.2 mg/L	15 (≤30)	-	-
	Field pH	7.28 SU	7.28 SU	0 (≤30)	-	-
	Total dissolved solids	2000 mg/L	2100 mg/L	5 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ART-6-040418-FD	ART-6-040418			
440-208051-2	Nitrate as N	15 mg/L	16 mg/L	6 (≤30)	-	-
	Chlorate	90000 ug/L	91000 ug/L	1 (≤30)	-	-
	Perchlorate	83 mg/L	92 mg/L	10 (≤30)	-	-
	Field pH	6.86 SU	6.75 SU	2 (≤30)	-	-
	Total dissolved solids	6200 mg/L	6300 mg/L	2 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-6-040418-FD	ART-6-040418			
440-208140-2/ N029552	Hexavalent chromium	6.3	6.4	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW7.2-1.0-20180405	LVW7.2-1.0-20180405-FD			
440-208206-1	Chlorate	85 ug/L	86 ug/L	1 (≤30)	-	-
	Total dissolved solids	1500 mg/L	1500 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW6.05-0.5-20180405	LVW6.05-0.5-20180405-FD			
440-208206-1	Chlorate	92 ug/L	93 ug/L	1 (≤30)	-	-
	Perchlorate	1.2 ug/L	2.8 ug/L	80 (≤30)	NQ	-
	Total dissolved solids	1400 mg/L	1400 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-F 041818	I-F 041818-FD			
440-209210-1	Nitrate as N	52 mg/L	53 mg/L	2 (≤30)	-	-
	Chlorate	2700000 ug/L	2600000 ug/L	4 (≤30)	-	-
	Perchlorate	660 mg/L	660 mg/L	0 (≤30)	-	-
	Field pH	7.55 SU	7.47 SU	1 (≤30)	-	-
	Total dissolved solids	9500 mg/L	9400 mg/L	1 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-F 041818	I-F 041818-FD			
440-209301-1/ N029851	Hexavalent chromium	12	12	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		E2-2-042318	E2-2-042318-FD			
440-209566-1	Nitrate as N	20 mg/L	20 mg/L	0 (≤30)	-	-
	Chlorate	7900 ug/L	8000 ug/L	1 (≤30)	-	-
	Perchlorate	440 mg/L	500 mg/L	13 (≤30)	-	-
	Field pH	7.25 SU	7.26 SU	0 (≤30)	-	-
	Total dissolved solids	3600 mg/L	3700 mg/L	3 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E2-2 042318	E2-2 042318-FD			
440-210245-1/ N029939	Hexavalent chromium	0.026	0.027	4 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-157B-20180508	PC-157B-20180508-FD5			
440-210852-1	Nitrate as N	2.3 mg/L	2.1 mg/L	9 (≤30)	-	-
	Chlorate	190 ug/L	210 ug/L	10 (≤30)	-	-
	Perchlorate	2700 ug/L	2700 ug/L	0 (≤30)	-	-
	Total dissolved solids	3000 mg/L	3000 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		ART-8A-050818	ART-8A-050818-FD			
440-210863-1	Nitrate as N	9.6 mg/L	9.4 mg/L	2 (≤30)	-	-
	Chlorate	94000 ug/L	92000 ug/L	2 (≤30)	-	-
	Perchlorate	80 mg/L	79 mg/L	1 (≤30)	-	-
	Total dissolved solids	8100 mg/L	8100 mg/L	0 (≤30)	-	-
	Field pH	7.33 SU	7.28 SU	1 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-115R-050918	PC-115R-050918-FD			
440-211009-1	Nitrate as N	9.9 mg/L	10 mg/L	1 (≤30)	-	-
	Chlorate	8000 ug/L	8900 ug/L	11 (≤30)	-	-
	Perchlorate	6.5 mg/L	11 mg/L	51 (≤30)	J (all detects)	A
	Total dissolved solids	2500 mg/L	2600 mg/L	4 (≤30)	-	-
	Field pH	7.65 SU	7.60 SU	1 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-136-20180509	PC-136-20180509-FD6			
440-211027-1	Nitrate as N	11 mg/L	11 mg/L	0 (≤30)	-	-
	Chlorate	190000 ug/L	190000 ug/L	0 (≤30)	-	-
	Perchlorate	130000 ug/L	140000 ug/L	7 (≤30)	-	-
	Total dissolved solids	5500 mg/L	5600 mg/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		HMW-15-20180510	HMW-15-20180510-FD15			
440-211101-1	Nitrate as N	0.33 mg/L	0.34 mg/L	3 (≤30)	-	-
	Perchlorate	11 ug/L	12 ug/L	9 (≤30)	-	-
	Total dissolved solids	2300 mg/L	2300 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-151-20180510	PC-151-20180510-FD7			
440-211101-1	Nitrate as N	8.2 mg/L	8.2 mg/L	0 (≤30)	-	-
	Chlorate	11000 ug/L	11000 ug/L	0 (≤30)	-	-
	Perchlorate	50000 ug/L	50000 ug/L	0 (≤30)	-	-
	Total dissolved solids	4000 mg/L	4000 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW 4.75-5-1.0-20180510	LVW 4.75-5-1.0-20180510-FD			
440-211149-1	Chlorate	120 ug/L	400U ug/L	200 (≤30)	NQ	-
	Perchlorate	14 ug/L	15 ug/L	7 (≤30)	-	-
	Total dissolved solids	1400 mg/L	1400 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW 6.05-0.5-20180510	LVW 6.05-0.5-20180510-FD			
440-211149-1	Perchlorate	1.4 ug/L	1.3 ug/L	7 (≤30)	-	-
	Total dissolved solids	1400 mg/L	1400 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW 7.2-1.0-20180510	LVW 7.2-1.0-20180510-FD			
440-211149-1	Chlorate	110 ug/L	110 ug/L	0 (≤30)	-	-
	Total dissolved solids	1500 mg/L	1500 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-8A-050818	ART-8A-050818-FD			
440-211170-1/ N030228	Hexavalent chromium	0.10	0.10	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		TR-1-20180511	TR-1-20180511-FD9			
440-211202-1	Nitrate as N	1.0	1.0	0 (≤30)	-	-
	Total dissolved solids	720	710	1 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-64-20180511	PC-64-20180511-FD8			
440-211202-1	Nitrate as N	77 mg/L	69 mg/L	11 (≤30)	-	-
	Chlorate	310000 ug/L	320000 ug/L	3 (≤30)	-	-
	Perchlorate	330000 ug/L	330000 ug/L	0 (≤30)	-	-
	Total dissolved solids	6900 mg/L	6900 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-37-20180514	M-37-20180514-FD4			
440-211273-1	Hexavalent chromium	9.1 ug/L	8.8 ug/L	3 (≤30)	-	-
	Nitrate as N	98 mg/L	100 mg/L	2 (≤30)	-	-
	Chlorate	11000 ug/L	11000 ug/L	0 (≤30)	-	-
	Perchlorate	640000 ug/L	660000 ug/L	3 (≤30)	-	-
	Total dissolved solids	4400 mg/L	4300 mg/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-126-20180514	M-126-20180514-FD10			
440-211273-3	Perchlorate	800 ug/L	760 ug/L	5 (≤30)	-	-
	Total dissolved solids	18000 mg/L	18000 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		DFW-03-20180515	DFW-03-20180515-FD11			
440-211382-1	Nitrate as N	59 mg/L	54 mg/L	9 (≤30)	-	-
	Chlorate	240000 ug/L	230000 ug/L	4 (≤30)	-	-
	Perchlorate	870000 ug/L	810000 ug/L	7 (≤30)	-	-
	Total dissolved solids	6300 mg/L	6200 mg/L	2 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-193-20180516	M-193-20180516-FD14			
440-211485-1	Nitrate as N	3.7 mg/L	3.7 mg/L	0 (≤30)	-	-
	Chlorate	260000 ug/L	260000 ug/L	0 (≤30)	-	-
	Perchlorate	880000 ug/L	770000 ug/L	13 (≤30)	-	-
	Total dissolved solids	3900 mg/L	3800 mg/L	3 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		TR-8-20180517	TR-8-20180517-FD13			
440-211582-1	Nitrate as N	2.1 mg/L	2.1 mg/L	0 (≤30)	-	-
	Chlorate	870 ug/L	910 ug/L	4 (≤30)	-	-
	Perchlorate	39 ug/L	45 ug/L	14 (≤30)	-	-
	Total dissolved solids	1100 mg/L	1100 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-H-051718	I-H-051718-FD			
440-211648-1	Nitrate as N	110 mg/L	100 mg/L	10 (≤30)	-	-
	Chlorate	3200000 ug/L	2900000 ug/L	10 (≤30)	-	-
	Perchlorate	1100 mg/L	1200 mg/L	9 (≤30)	-	-
	Total dissolved solids	12000 mg/L	12000 mg/L	0 (≤30)	-	-
	Field pH	7.43 SU	7.42 SU	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		E2-4-051718	E2-4-051718-FD			
440-211668-1	Nitrate as N	50 mg/L	50 mg/L	0 (≤30)	-	-
	Chlorate	9000 ug/L	9500 ug/L	5 (≤30)	-	-
	Perchlorate	1300 mg/L	1300 mg/L	0 (≤30)	-	-
	Total dissolved solids	4600 mg/L	4700 mg/L	2 (≤30)	-	-
	Field pH	7.26 SU	7.31 SU	1 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		ART-8A-050818	ART-8A-050818-FD			
440-211690-1/ N030379	Hexavalent chromium	0.024	0.023	4 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-H-051718	I-H-051718-FD			
440-211692-1/ N030378	Hexavalent chromium	14	14	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		M-97-20180530	M-97-20180530-FD12			
440-212427-1	Nitrate as N	12 mg/L	13 mg/L	8 (≤30)	-	-
	Chlorate	200000 ug/L	200000 ug/L	0 (≤30)	-	-
	Perchlorate	180000 ug/L	170000 ug/L	6 (≤30)	-	-
	Total dissolved solids	5600 mg/L	5600 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-150-060518	PC-150-060518-FD			
440-212845-1/ N030631	Hexavalent chromium	0.051	0.051	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-150-060518	PC-150-06051-FD			
440-212851-1	Nitrate as N	8.9 mg/L	8.6 mg/L	3 (≤30)	-	-
	Chlorate	73000 ug/L	73000 ug/L	0 (≤30)	-	-
	Perchlorate	80 mg/L	83 mg/L	4 (≤30)	-	-
	pH	7.64 SU	7.61 SU	0 (≤30)	-	-
	Total dissolved solids	5100 mg/L	5100 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PC-117-060618	PC-117-060618-FD			
440-212971-1	Nitrate as N	4.4 mg/L	4.4 mg/L	0 (≤30)	-	-
	Chlorate	12000 ug/L	12000 ug/L	0 (≤30)	-	-
	Perchlorate	3.7 mg/L	3.7 mg/L	0 (≤30)	-	-
	pH	7.35 SU	7.34 SU	0 (≤30)	-	-
	Total dissolved solids	2300 mg/L	2300 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		W1 Archery-0.75-20180606	W1 Archery-0.75-20180606-FD			
440-213046-1	Chlorate	57 ug/L	58 ug/L	2 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1200 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		I-J 060718	I-J 060718-FD			
440-213105-1	Nitrate as N	10 mg/L	9.2 mg/L	8 (≤30)	-	-
	Chlorate	1100000 ug/L	1100000 ug/L	0 (≤30)	-	-
	Perchlorate	340 mg/L	370 mg/L	8 (≤30)	-	-
	pH	7.55 SU	7.48 SU	1 (≤30)	-	-
	Total dissolved solids	6800 mg/L	6900 mg/L	1 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW 0.55-0.5-20180607	LVW 0.55-0.5-20180607-FD			
440-213106-1	Chlorate	180 ug/L	170 ug/L	6 (≤30)	-	-
	Perchlorate	33 ug/L	32 ug/L	3 (≤30)	-	-
	Total dissolved solids	1400 mg/L	1400 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW 6.05-0.5-20180607	LVW 6.05-0.5-20180607-FD			
440-213106-1	Chlorate	87 ug/L	87 ug/L	0 (≤30)	-	-
	Perchlorate	2.0 ug/L	1.5 ug/L	29 (≤30)	-	-
	Total dissolved solids	1400 mg/L	1400 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		LVW 7.2-1.0-20180607	LVW 7.2-1.0-20180607-FD			
440-213106-1	Chlorate	76 ug/L	79 ug/L	4 (≤30)	-	-
	Total dissolved solids	1400 mg/L	1400 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		I-J 060718	I-J 060718-FD			
440-213183-1/ N030682	Hexavalent chromium	3.9	3.9	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		PC-117-060618	PC-117-060618-FD			
440-213217-1/ N030669	Hexavalent chromium	0.0036	0.0036	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		E1-1 061418	E1-1 061418-FD			
440-213708-1	Nitrate as N	39 mg/L	36 mg/L	8 (≤30)	-	-
	Chlorate	13000 ug/L	13000 ug/L	0 (≤30)	-	-
	Perchlorate	700 mg/L	700 mg/L	0 (≤30)	-	-
	pH	7.32 SU	7.33 SU	0 (≤30)	-	-
	Total dissolved solids	4000 mg/L	4000 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
		E1-1 061418	E1-1 061418-FD			
440-213714-1/ N030786	Hexavalent chromium	0.037	0.037	0 (≤30)	-	-

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

IX. Sample Result Verification

Raw data were not reviewed for Stage 2A validation.

X. Overall Assessment of Data

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

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

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Wet Chemistry - Data Qualification Summary - SDGs 440-199591-1, 440-199625-1/N027810, 440-199670-1, 440-200408-1, 440-200594-1/N027916, 440-201327-1/N027816, 440-201372-1, 440-201738-1, 440-201778-1/N028178, 440-201942-1, 440-202778-1, 440-202779-1, 440-202892-1, 440-202984-1, 440-203013-1/N028470, 440-203165-1/N028505, 440-203321-1, 440-203363-1/N028585, 440-203461-1, 440-203463-1, 440-203480-1, 440-203483-1, 440-203485-1, 440-203540-1/N028622, 440-203553-1, 440-203554-1, 440-203555-1, 440-203556-1/N028448, 440-203557-1/N028449, 440-205027-1, 440-205153-1/N028935, 440-205296-1, 440-205407-1, 440-205407-2, 440-205433-1, 440-205744-1, 440-205886-1, 440-205921-1/N028984, 440-207727-1/N029108, 440-207728-1/N029089, 440-208051-1, 440-208051-2, 440-208140-1/N029551, 440-208140-2/N029552, 440-208206-1, 440-208519-1, 440-208636-1, 440-208881-1/N029709, 440-208882-1/N029683, 440-209210-1, 440-209301-1/N029851, 440-209334-1, 440-209337-1/N029875, 440-209566-1, 440-210245-1/N029939, 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-210863-1, 440-210993-1/N030256, 440-211009-1, 440-211027-1, 440-211101-1, 440-211111-1, 440-211111-2, 440-211149-1, 440-211168-1/N030295, 440-211169-1/N030296, 440-211170-1/N030228, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-211648-1, 440-211668-1, 440-211690-1/N030379, 440-211692-1/N030378, 440-212427-1, 440-212845-1/N030631, 440-212851-1, 440-212971-1, 440-213046-1, 440-213105-1, 440-213106-1, 440-213183-1/N030682, 440-213217-1/N030669, 440-213505-1, 440-213564-1, 440-213672-1/N030775, 440-213674-1/N030754, 440-213708-1, 440-213714-1/N030786

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-203485-1	LVW4.2-4-2.0-20180213 LVW4.2-4-2.0-20180213-FD LVW3.5-1-1.5-20180213	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-205433-1	LVW4.2-3-2.5-20180308 LVW4.2-4-0.5-20180308	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-208206-1	LVW0.55-1.0-20180404 LVW5.3-1-0.5-20180405 LVW5.3-2-0.5-20180405 LVW5.3-3-0.5-20180405 LVW6.05-0.5-20180405	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-208636-1	I-B 041118 I-AA 041118 I-AR 041118 I-AB 041118 I-C 041118 I-D 041118 I-M 041118 I-E 041118	Nitrate as N	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-209210-1	I-U 041818 I-T 041818 I-G 041818	Nitrate as N	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-211202-1	PC-66-20180511 M-48A-20180511 PC-54-20180511 PC-65-20180511 M-57A-20180511 H-58R-20180511 TR-1-20180511-FD9 PC-64-20180511 PC-64-20180511-FD8 PC-67-20180511 MC-6-20180511 PC-71-20180511	Chlorate	J- (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-211273-1	M-64-20180514 M-71-20180514 TR-6-20180514 TR-5-20180514 TR-12-20180514 M-69-20180514 TR-4-20180514 M-162D-20180514 M-70-20180514 M-161-20180514	Nitrate as N	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-211273-1	MC-50-20180514	Chlorate	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-212851-1	ART-1A-060518 ART-2-060518 ART-3A-060518 ART-4-060518 ART-7B-060518	Nitrate as N	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-211382-1	M-164-20180515 M-80-20180515	Chlorate	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (ld)
440-211009-1	PC-115R-050918 PC-115R-050918-FD	Perchlorate	J (all detects)	A	Field duplicates (RPD) (fd)

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Wet Chemistry - Laboratory Blank Data Qualification Summary - SDGs 440-199591-1, 440-199625-1/N027810, 440-199670-1, 440-200408-1, 440-200594-1/N027916, 440-201327-1/N027816, 440-201372-1, 440-201738-1, 440-201778-1/N028178, 440-201942-1, 440-202778-1, 440-202779-1, 440-202892-1, 440-202984-1, 440-203013-1/N028470, 440-203165-1/N028505, 440-203321-1, 440-203363-1/N028585, 440-203461-1, 440-203463-1, 440-203480-1, 440-203483-1, 440-203485-1, 440-203540-1/N028622, 440-203553-1, 440-203554-1, 440-203555-1, 440-203556-1/N028448, 440-203557-1/N028449, 440-205027-1, 440-205153-1/N028935, 440-205296-1, 440-205407-1, 440-205407-2, 440-205433-1, 440-205744-1, 440-205886-1, 440-205921-1/N028984, 440-207727-1/N029108, 440-207728-1/N029089, 440-208051-1, 440-208051-2, 440-208140-1/N029551, 440-208140-2/N029552, 440-208206-1, 440-208519-1, 440-208636-1, 440-208881-1/N029709, 440-208882-1/N029683, 440-209210-1, 440-209301-1/N029851, 440-209334-1, 440-209337-1/N029875, 440-209566-1, 440-210245-1/N029939, 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-210863-1, 440-210993-1/N030256, 440-211009-1, 440-211027-1, 440-211101-1, 440-211111-1, 440-211111-2, 440-211149-1, 440-211168-1/N030295, 440-211169-1/N030296, 440-211170-1/N030228, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-211648-1, 440-211668-1, 440-211690-1/N030379, 440-211692-1/N030378, 440-212427-1, 440-212845-1/N030631, 440-212851-1, 440-212971-1, 440-213046-1, 440-213105-1, 440-213106-1, 440-213183-1/N030682, 440-213217-1/N030669, 440-213505-1, 440-213564-1, 440-213672-1/N030775, 440-213674-1/N030754, 440-213708-1, 440-213714-1/N030786

No Sample Data Qualified in these SDGs

NERT GWM Performance Sampling, 2018

Wet Chemistry - Field Blank Data Qualification Summary - SDGs 440-199591-1, 440-199625-1/N027810, 440-199670-1, 440-200408-1, 440-200594-1/N027916, 440-201327-1/N027816, 440-201372-1, 440-201738-1, 440-201778-1/N028178, 440-201942-1, 440-202778-1, 440-202779-1, 440-202892-1, 440-202984-1, 440-203013-1/N028470, 440-203165-1/N028505, 440-203321-1, 440-203363-1/N028585, 440-203461-1, 440-203463-1, 440-203480-1, 440-203483-1, 440-203485-1, 440-203540-1/N028622, 440-203553-1, 440-203554-1, 440-203555-1, 440-203556-1/N028448, 440-203557-1/N028449, 440-205027-1, 440-205153-1/N028935, 440-205296-1, 440-205407-1, 440-205407-2, 440-205433-1, 440-205744-1, 440-205886-1, 440-205921-1/N028984, 440-207727-1/N029108, 440-207728-1/N029089, 440-208051-1, 440-208051-2, 440-208140-1/N029551, 440-208140-2/N029552, 440-208206-1, 440-208519-1, 440-208636-1, 440-208881-1/N029709, 440-208882-1/N029683, 440-209210-1, 440-209301-1/N029851, 440-209334-1, 440-209337-1/N029875, 440-209566-1, 440-210245-1/N029939, 440-210845-1, 440-210847-1, 440-210849-1, 440-210850-1, 440-210852-1, 440-210863-1, 440-210993-1/N030256, 440-211009-1, 440-211027-1, 440-211101-1, 440-211111-1, 440-211111-2, 440-211149-1, 440-211168-1/N030295, 440-211169-1/N030296, 440-211170-1/N030228, 440-211202-1, 440-211273-1, 440-211273-2, 440-211273-3, 440-211382-1, 440-211485-1, 440-211582-1, 440-211582-2, 440-211648-1, 440-211668-1, 440-211690-1/N030379, 440-211692-1/N030378, 440-212427-1, 440-212845-1/N030631, 440-212851-1, 440-212971-1, 440-213046-1, 440-213105-1, 440-213106-1, 440-213183-1/N030682, 440-213217-1/N030669, 440-213505-1, 440-213564-1, 440-213672-1/N030775, 440-213674-1/N030754, 440-213708-1, 440-213714-1/N030786

No Sample Data Qualified in these SDGs