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ANALYTICAL REPORT

May 21, 2019

Cardno - Newark, DE

Sample Delivery Group:	L1095644
Samples Received:	05/06/2019
Project Number:	
Description:	
Report To:	Art Saunders 121 Continental Drive Suite 308 Newark, DE 19713

Entire Report Reviewed By:

Craig Cothron
Project Manager

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L1095644-01 05/08/19 20:01 BNAMS1 418

L1095644-01 05/09/19 12:51 BNAMS19 419

L1095644-01 05/08/19 01:41 BNAMS23 420

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BNAMS1 02/22/19 13:19 422

BNAMS19 04/30/19 17:52 424

BNAMS20 04/20/19 13:42 426

BNAMS23 04/16/19 10:31 432

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BNAMS1 02/25/19 13:32 438

BNAMS1 02/25/19 13:32 439

BNAMS1 02/25/19 15:27 440

BNAMS1 02/25/19 15:44 441

BNAMS1 05/08/19 14:51 442
BNAMS1 05/08/19 15:26 443
BNAMS19 05/01/19 00:45 444
BNAMS19 05/01/19 00:45 445
BNAMS19 05/09/19 12:09 446
BNAMS20 04/20/19 20:02 447
BNAMS20 04/20/19 20:23 449
BNAMS20 05/07/19 23:35 450
BNAMS20 05/07/19 23:56 452
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BNAMS23 05/07/19 23:35 456
BNAMS23 05/07/19 23:56 458

QC Result Summary Organic Analysis Data Sheet 459

BLANK(R3409130-2) WG1276393 05/08/19 00:39 BNAMS20 459
BLANK(R3409650-2) WG1276393 05/08/19 16:52 BNAMS1 461
LCS(R3409130-1) WG1276393 05/08/19 00:19 BNAMS20 462
LCS(R3409650-1) WG1276393 05/08/19 16:18 BNAMS1 464
MS(R3409130-3) WG1276393 05/08/19 01:42 BNAMS20 465
MSD(R3409130-4) WG1276393 05/08/19 02:03 BNAMS20 467

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GW Surrogate Summary 471

Matrix Spike / Duplicate 472

WG1276824 MS(R3409191-4) MSD(R3409191-5) 472

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WG1276824 LCS(R3409191-2) LCSD(R3409191-3) 473

Method Blank 474

WG1276824 R3409191-1 SVGC10 05/07/19 22:56 474

Sample Result Summary Organic Analysis Data Sheet 475

L1095644-03 05/08/19 01:37 SVGC10 475
L1095644-04 05/08/19 01:55 SVGC10 476
L1095644-05 05/08/19 02:13 SVGC10 477
L1095644-06 05/08/19 02:31 SVGC10 478

Retention Time of Single Component Analytes 479

SVGC10 01/15/19 00:04 479

Calibration Factor of Single Component Analytes 480

SVGC10 01/15/19 00:04 480

Calibration Verification Single Component Analytes 481

SVGC10 01/15/19 01:34 481
SVGC10 05/07/19 22:21 482
SVGC10 05/07/19 23:50 483
SVGC10 05/08/19 03:06 484
SVGC10 05/08/19 05:47 485
Analytical Sequence 486
SVGC10 01/15/19 00:04 486
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BLANK(R3409191-1) WG1276824 05/07/19 22:56 SVGC10 487
LCS(R3409191-2) WG1276824 05/07/19 23:14 SVGC10 488
LCSD(R3409191-3) WG1276824 05/07/19 23:32 SVGC10 489
MS(R3409191-4) WG1276824 05/08/19 04:53 SVGC10 490
MSD(R3409191-5) WG1276824 05/08/19 05:11 SVGC10 491
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SVGC11-2 04/23/19 15:02 504
SVGC11-1 05/07/19 23:10 505
SVGC11-2 05/07/19 23:10 506
SVGC11-1 05/08/19 01:26 507
SVGC11-2 05/08/19 01:26 508
Analytical Sequence 509
SVGC11 04/23/19 13:34 509
QC Result Summary Organic Analysis Data Sheet 510
BLANK(R3409299-1) WG1276935 05/07/19 23:51 SVGC11 510
LCS(R3409299-2) WG1276935 05/08/19 00:05 SVGC11 511

LCSD(R3409299-3) WG1276935 05/08/19 00:18 SVGC11 512

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Laboratory Control Sample / Duplicate **519**

WG1276791 LCS(R3409102-1) 519

Method Blank **520**

WG1276791 R3409102-2 SVGC29 05/07/19 16:38 520

Internal Standard & Retention Time **521**

SVGC29 AVG 521

Sample Result Summary Organic Analysis Data Sheet **522**

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Retention Time of Single Component Analytes **523**

SVGC29-1 04/28/19 13:16 523

SVGC29-2 04/28/19 13:16 525

Calibration Factor of Single Component Analytes **527**

SVGC29-1 04/28/19 13:16 527

SVGC29-2 04/28/19 13:16 530

Pesticides Breakdown **533**

SVGC29 05/07/19 09:57 533

Calibration Verification of Dual Column Analytes **534**

SVGC29-1 04/28/19 15:08 534

SVGC29-2 04/28/19 15:08 535

SVGC29-1 05/07/19 10:09 536

SVGC29-2 05/07/19 10:09 537

SVGC29-1 05/07/19 10:22 538

SVGC29-2 05/07/19 10:22 539

SVGC29-1 05/07/19 10:34 540

SVGC29-2 05/07/19 10:34 541

Analytical Sequence **542**

SVGC29 04/28/19 13:16 542

QC Result Summary Organic Analysis Data Sheet **543**

BLANK(R3409102-2) WG1276791 05/07/19 16:38 SVGC29 543

LCS(R3409102-1) WG1276791 05/07/19 16:25 SVGC29 544

MS(R3409102-3) WG1276791 05/07/19 17:02 SVGC29 545
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GW Surrogate Summary 549
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Method Blank 551
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SVGC14-1 05/07/19 18:14 564
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Al: Accreditations & Locations 572
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WW-20190503-002 DAY 5 L1095644-01 WW

Collected by	Collected date/time	Received date/time
	05/03/19 14:00	05/06/19 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1277364	1	05/08/19 10:27	05/08/19 10:27	SDL	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG1276940	1	05/08/19 10:19	05/08/19 10:45	MMF	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG1277293	1	05/08/19 08:31	05/08/19 09:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1277005	10	05/09/19 01:53	05/09/19 01:53	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1277364	1	05/08/19 08:20	05/08/19 08:20	BRJ	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG1277684	1	05/07/19 14:10	05/08/19 10:27	SDL	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG1277153	1	05/07/19 14:10	05/08/19 11:24	SDL	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG1277222	1	05/07/19 21:19	05/07/19 22:52	TCC	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1276964	1	05/07/19 16:16	05/07/19 16:16	MJA	Mt. Juliet, TN
Wet Chemistry by Method 5310 B-2011	WG1277632	1	05/08/19 11:47	05/08/19 11:47	AKA	Mt. Juliet, TN
Mercury by Method 245.1	WG1279318	1	05/12/19 08:30	05/12/19 14:41	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1276430	1	05/07/19 07:04	05/08/19 22:45	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1276430	1	05/07/19 07:04	05/09/19 04:54	LAT	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG1276935	1	05/07/19 07:48	05/08/19 00:45	SAW	Mt. Juliet, TN
Pesticides (GC) by Method EPA 608.3	WG1276791	1.05	05/07/19 06:43	05/07/19 19:56	LEL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG1276791	1.05	05/07/19 06:43	05/07/19 20:03	NFN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1276393	1.05	05/07/19 16:46	05/08/19 01:41	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1276393	1.05	05/07/19 16:46	05/08/19 20:01	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1276393	1.05	05/07/19 16:46	05/09/19 12:51	AO	Mt. Juliet, TN

WW-20190503-002 DAY 5 L1095644-02 WW

Collected by	Collected date/time	Received date/time
	05/03/19 14:00	05/06/19 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 1664A	WG1278123	1	05/09/19 08:54	05/09/19 13:27	DAD	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1277440	1	05/08/19 08:36	05/08/19 13:39	JER	Mt. Juliet, TN

WW-20190503-002 DAY 5-A L1095644-03 WW

Collected by	Collected date/time	Received date/time
	05/03/19 14:00	05/06/19 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1277073	1	05/07/19 18:22	05/07/19 18:22	JHH	Mt. Juliet, TN
EDB / DBCP by Method 504.1	WG1276977	1	05/07/19 09:11	05/07/19 23:30	HMH	Mt. Juliet, TN
SVOC-GC-GLYCOLS by Method 8015M	WG1276824	1	05/07/19 18:07	05/08/19 01:37	MTJ	Mt. Juliet, TN

WW-20190503-002 DAY 5-B L1095644-04 GW

Collected by	Collected date/time	Received date/time
	05/03/19 14:00	05/06/19 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1277073	1	05/07/19 18:42	05/07/19 18:42	GLN	Mt. Juliet, TN
EDB / DBCP by Method 504.1	WG1276977	1	05/07/19 09:11	05/07/19 23:42	HMH	Mt. Juliet, TN
SVOC-GC-GLYCOLS by Method 8015M	WG1276824	1	05/07/19 18:07	05/08/19 01:55	MTJ	Mt. Juliet, TN

WW-20190503-002 DAY 5-C L1095644-05 WW

Collected by	Collected date/time	Received date/time
	05/03/19 14:00	05/06/19 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1277073	1	05/07/19 19:02	05/07/19 19:02	JHH	Mt. Juliet, TN
EDB / DBCP by Method 504.1	WG1276977	1	05/07/19 09:11	05/07/19 23:53	HMH	Mt. Juliet, TN
SVOC-GC-GLYCOLS by Method 8015M	WG1276824	1	05/07/19 18:07	05/08/19 02:13	MTJ	Mt. Juliet, TN

WW-20190503-002 DAY 5-D L1095644-06 WW

Collected by	Collected date/time	Received date/time
	05/03/19 14:00	05/06/19 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1277073	1	05/07/19 19:21	05/07/19 19:21	JHH	Mt. Juliet, TN
EDB / DBCP by Method 504.1	WG1276977	1	05/07/19 09:11	05/08/19 00:04	HMH	Mt. Juliet, TN
SVOC-GC-GLYCOLS by Method 8015M	WG1276824	1	05/07/19 18:07	05/08/19 02:31	MTJ	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Su
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Craig Cothron
Project Manager

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Craig Cothron
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 05/21/2019 13:28
Project Name:	Laboratory Job Number: L1095644-01, 02, 03, 04, 05 and 06
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1276964, WG1277222, WG1276791, WG1276393, WG1277073, WG1276824, WG1277364, WG1277684, WG1277153, WG1276935, WG1277440, WG1277293, WG1276977, WG1277632, WG1276430, WG1277005, WG1278123, WG1276940 and WG1279318

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		Were MS/MSD RPDs within laboratory QC limits?		X			4
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			5
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 05/21/2019 13:28
Project Name:	Laboratory Job Number: L1095644-01, 02, 03, 04, 05 and 06
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1276964, WG1277222, WG1276791, WG1276393, WG1277073, WG1276824, WG1277364, WG1277684, WG1277153, WG1276935, WG1277440, WG1277293, WG1276977, WG1277632, WG1276430, WG1277005, WG1278123, WG1276940 and WG1279318

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			6
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 05/21/2019 13:28
Project Name:	Laboratory Job Number: L1095644-01, 02, 03, 04, 05 and 06
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1276964, WG1277222, WG1276791, WG1276393, WG1277073, WG1276824, WG1277364, WG1277684, WG1277153, WG1276935, WG1277440, WG1277293, WG1276977, WG1277632, WG1276430, WG1277005, WG1278123, WG1276940 and WG1279318

ER #[1]	Description
1	8151 WG1276935 2,4-Dichlorophenyl Acetic Acid L1095644-01: Percent Recovery is outside of established control limits.
2	8151 WG1276935 2,4,5-TP (Silvex): Percent Recovery is outside of established control limits. 625.1 WG1276393 Benzidine, 2-Chloronaphthalene, Fluorene, Benzoic Acid, Hexachlorophene: Percent Recovery is outside of established control limits.
3	625.1 WG1276393 Benzoic Acid, 2-Chloronaphthalene, Fluorene: Percent Recovery is outside of established control limits.
4	625.1 WG1276393 Benzoic Acid, Benzaldehyde, Benzidine, 2-Chloronaphthalene, 1-Methylnaphthalene, Hexachlorocyclopentadiene: Relative Percent Difference is outside of established control limits.
5	351.2 WG1277153 Phosphorus,Total: Relative Percent Difference is outside of established control limits. 2540 C-2011 WG1276940 Dissolved Solids: Relative Percent Difference is outside of established control limits. 2540 C-2011 WG1277293 Suspended Solids: Relative Percent Difference is outside of established control limits.
6	200.8 WG1276430 Copper: Post Spike Percent Recovery and/or Serial Dilution Relative Percent Difference was outside of established control limits.

1. Items identified by the letter “R” must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked).

1664A Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-02	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	16	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/09/19 08:54
Analytical Batch:	WG1278123	**Analysis Date/Time:**	05/09/19 13:27
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	830 ml
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Oil & Grease (Hexane Extr)		U		1.40	6.02	6.02

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409766-1

Lab Sample ID:	R3409766-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/09/19 08:53
Analytical Batch:	WG1278123	**Analysis Date/Time:**	05/09/19 13:27
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	1000 ml
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Oil & Grease (Hexane Extr)		U		1.16	5	5.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409766-2

Lab Sample ID:	R3409766-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	04	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/09/19 08:53
Analytical Batch:	WG1278123	**Analysis Date/Time:**	05/09/19 13:27
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	1000 ml
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Oil & Grease (Hexane Extr)		35.3		1.16	5	5.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409766-3

Lab Sample ID:	R3409766-3	**SDG:**	L1095644
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	05	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/09/19 08:53
Analytical Batch:	WG1278123	**Analysis Date/Time:**	05/09/19 13:27
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	1000 ml
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Oil & Grease (Hexane Extr)		35.7		1.16	5	5.00

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	_____
Instrument ID:	OGBAL1	**Calibration (end) date/time:**	_____
Analytical Method:	1664A	**Analytical Run:**	WG1278123

Sample ID:	**BLANK Result**	**BLANK Qual**
File ID:	01	
Analyte	mg/l	
OIL & GREASE (HEXANE EXTR)	U	

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-02

SAMPLE NO.:
R3409766-2
R3409766-3

LCS Sample / File ID:	R3409766-2 / 04	**SDG:**	L1095644
LCSD Sample / File ID:	R3409766-3 / 05	**Analytical Batch:**	WG1278123
Instrument ID:	OGBAL1	**Dilution Factor:**	1
Analytical Method:	1664A	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Oil & Grease (Hexane Extr)	40.0	35.3	35.7	88.3	89.3	78.0 - 114	1.13	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	1664A
Instrument ID:	OGBAL1	**Calibration Start Date:**	_____
Analytical Run:	WG1278123	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3409766-1	01	05/09/19 13:27	1	WG1278123
LCS	R3409766-2	04	05/09/19 13:27	1	WG1278123
LCSD	R3409766-3	05	05/09/19 13:27	1	WG1278123
WW-20190503-002 DAY 5	L1095644-02	16	05/09/19 13:27	1	WG1278123

200.8 Metals (ICPMS)

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190509045431	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/09/19 04:54
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Copper	7440-50-8	0.00493		0.000270	0.00100	0.00100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190508224500	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/08/19 22:45
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.00194	J	0.000754	0.00200	0.00200
Arsenic	7440-38-2	0.00335		0.000170	0.00100	0.00100
Cadmium	7440-43-9	U		0.000220	0.00100	0.00100
Chromium	7440-47-3	U		0.000320	0.00100	0.00100
Cobalt	7440-48-4	0.000434	J	0.000270	0.00200	0.00200
Lead	7439-92-1	U		0.000260	0.00100	0.00100
Nickel	7440-02-0	0.00354		0.000320	0.00100	0.00100
Selenium	7782-49-2	0.000444	J	0.000320	0.00200	0.00200
Silver	7440-22-4	U		0.000180	0.00100	0.00100
Thallium	7440-28-0	U		0.000280	0.00100	0.00100
Tin	7440-31-5	U		0.000240	0.00100	0.00100
Zinc	7440-66-6	0.0205		0.00191	0.0100	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409469-1

Lab Sample ID:	R3409469-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190508213519	**Received Date/Time:**	_____
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/07/19 07:02
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/08/19 21:35
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	U		0.000754	0.0020	0.00200
Arsenic	7440-38-2	U		0.000170	0.0010	0.00100
Cadmium	7440-43-9	U		0.000220	0.0010	0.00100
Chromium	7440-47-3	U		0.000320	0.0010	0.00100
Cobalt	7440-48-4	U		0.000270	0.0020	0.00200
Lead	7439-92-1	U		0.000260	0.0010	0.00100
Nickel	7440-02-0	U		0.000320	0.0010	0.00100
Selenium	7782-49-2	U		0.000320	0.0020	0.00200
Silver	7440-22-4	U		0.000180	0.0010	0.00100
Thallium	7440-28-0	U		0.000280	0.0010	0.00100
Tin	7440-31-5	U		0.000240	0.0010	0.00100
Zinc	7440-66-6	U		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409566-1

Lab Sample ID:	R3409566-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190509031828	**Received Date/Time:**	_____
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/07/19 07:02
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/09/19 03:18
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Copper	7440-50-8	U		0.000270	0.0010	0.00100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409469-2

Lab Sample ID:	R3409469-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190508213953	**Received Date/Time:**	_____
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/07/19 07:02
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/08/19 21:39
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0517		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0502		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0549		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0498		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0516		0.000270	0.0020	0.00200
Lead	7439-92-1	0.0497		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0517		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0539		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0533		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0485		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0497		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0498		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409566-2

Lab Sample ID:	R3409566-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190509032303	**Received Date/Time:**	_____
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/07/19 07:02
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/09/19 03:23
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Copper	7440-50-8	0.0442		0.000270	0.0010	0.00100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409469-3

Lab Sample ID:	R3409469-3	**SDG:**	L1095644
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	20190508214428	**Received Date/Time:**	_____
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/07/19 07:02
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/08/19 21:44
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0519		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0520		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0571		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0519		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0530		0.000270	0.0020	0.00200
Lead	7439-92-1	0.0515		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0527		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0541		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0540		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0505		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0498		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0507		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409566-3

Lab Sample ID:	R3409566-3	**SDG:**	L1095644
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	20190509032737	**Received Date/Time:**	_____
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/07/19 07:02
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/09/19 03:27
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Copper	7440-50-8	0.0446		0.000270	0.0010	0.00100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409469-5

Lab Sample ID:	R3409469-5	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/02/19 11:30
Lab File ID:	20190508215810	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/08/19 21:58
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0535		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0496		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0583		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0478		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0521		0.000270	0.0020	0.00200
Lead	7439-92-1	0.0616		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.184		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0561		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0547		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0479		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0509		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.253		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409469-7

Lab Sample ID:	R3409469-7	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/01/19 00:00
Lab File ID:	20190508221153	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/08/19 22:11
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0540		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0541		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0573		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0512		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0533		0.000270	0.0020	0.00200
Lead	7439-92-1	0.0521		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0542		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0561		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0547		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0512		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0507		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0627		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409566-5

Lab Sample ID:	R3409566-5	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/02/19 11:30
Lab File ID:	20190509034120	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/09/19 03:41
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Copper	7440-50-8	0.128		0.000270	0.0010	0.00100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409566-7

Lab Sample ID:	R3409566-7	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/01/19 00:00
Lab File ID:	20190509035504	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/09/19 03:55
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Copper	7440-50-8	0.0446		0.000270	0.0010	0.00100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409469-6

Lab Sample ID:	R3409469-6	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/02/19 11:30
Lab File ID:	20190508220245	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/08/19 22:02
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0526		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0506		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0579		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0493		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0523		0.000270	0.0020	0.00200
Lead	7439-92-1	0.0608		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.188		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0561		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0542		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0495		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0496		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.258		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409469-8

Lab Sample ID:	R3409469-8	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/01/19 00:00
Lab File ID:	20190508221628	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/08/19 22:16
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0523		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0517		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0559		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0501		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0516		0.000270	0.0020	0.00200
Lead	7439-92-1	0.0507		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0523		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0543		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0529		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0486		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0509		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0589		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409566-6

Lab Sample ID:	R3409566-6	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/02/19 11:30
Lab File ID:	20190509034554	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/09/19 03:45
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Copper	7440-50-8	0.128		0.000270	0.0010	0.00100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409566-8

Lab Sample ID:	R3409566-8	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/01/19 00:00
Lab File ID:	20190509035938	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/09/19 03:59
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Copper	7440-50-8	0.0432		0.000270	0.0010	0.00100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409469-4

Lab Sample ID:	R3409469-4	**SDG:**	L1095644
Client Sample ID:	SD	**Collected Date/Time:**	05/02/19 11:30
Lab File ID:	20190508215336	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/08/19 21:53
Dilution Factor:	5	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	ND		0.00377	0.0020	0.0100
Arsenic	7440-38-2	ND		0.000850	0.0010	0.00500
Cadmium	7440-43-9	ND		0.00110	0.0010	0.00500
Chromium	7440-47-3	ND		0.00160	0.0010	0.00500
Cobalt	7440-48-4	0.00274		0.00135	0.0020	0.0100
Lead	7439-92-1	0.00970		0.00130	0.0010	0.00500
Nickel	7440-02-0	0.146		0.00160	0.0010	0.00500
Selenium	7782-49-2	ND		0.00160	0.0020	0.0100
Silver	7440-22-4	ND		0.000900	0.0010	0.00500
Thallium	7440-28-0	ND		0.00140	0.0010	0.00500
Tin	7440-31-5	ND		0.00120	0.0010	0.00500
Zinc	7440-66-6	0.216		0.00955	0.01	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409566-4

Lab Sample ID:	R3409566-4	**SDG:**	L1095644
Client Sample ID:	SD	**Collected Date/Time:**	05/02/19 11:30
Lab File ID:	20190509033645	**Received Date/Time:**	05/03/19 08:45
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/07/19 07:04
Analytical Batch:	WG1276430	**Analysis Date/Time:**	05/09/19 03:36
Dilution Factor:	5	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Copper	7440-50-8	0.0940	O1	0.00135	0.0010	0.00500

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9
Concentration Units:	mg/l		

	ICV				**ICVLL**				**CCV**			
Sample ID:	ICPMS90508191021-3				ICPMS90508191050-3				ICPMS90508192052-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ANTIMONY	0.10	0.1013246	101	0.690000	0.0010	0.00120424	120	11.400000	0.10	0.09790861	97.90	1.810000
ARSENIC	0.10	0.1027041	103	0.790000	0.0010	0.00101284	101	4.080000	0.10	0.1018234	102	1.200000
CADMIUM	0.10	0.1021808	102	1.450000	0.0010	0.001010874	101	3.090000	0.10	0.1034782	103	0.920000
CHROMIUM	0.10	0.102168	102	1.210000	0.0010	0.001001434	100	8.340000	0.10	0.1001908	100	3.090000
COBALT	0.10	0.1019057	102	1.040000	0.0010	0.001005517	101	3.130000	0.10	0.101692	102	1.650000
LEAD	0.10	0.1018939	102	1.950000	0.0010	0.00099255	99.30	2.970000	0.10	0.09837433	98.40	1.380000
NICKEL	0.10	0.1029059	103	1.090000	0.0010	0.000997498	99.70	3.770000	0.10	0.1010761	101	0.540000
SELENIUM	0.10	0.1025408	103	2.000000	0.0010	0.000847118	84.70	29.600000	0.10	0.1029427	103	1.710000
SILVER	0.10	0.1038331	104	1.940000	0.0010	0.001005649	101	1.280000	0.10	0.1019363	102	1.740000
THALLIUM	0.10	0.1017628	102	0.590000	0.0010	0.001002355	100	6.010000	0.10	0.09664671	96.60	2.300000
TIN	0.10	0.09886325	98.90	0.320000	0.0010	0.000931041	93.10	10.200000	0.10	0.09819573	98.20	0.950000
ZINC	0.10	0.1026981	103	1.540000	0.01	0.01004079	100	5.990000	0.10	0.1000316	100	1.380000

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9
Concentration Units:	mg/l		

	CCVLL				**CCV**				**CCV**			
Sample ID:	ICPMS90508192104-3				ICPMS90508192221				ICPMS90508192304			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ANTIMONY	0.0010	0.001045872	105	7.940000	0.10	0.09866823	98.70	2.640000	0.10	0.09899937	99	3.630000
ARSENIC	0.0010	0.001023038	102	4.040000	0.10	0.1003268	100	0.570000	0.10	0.102523	103	2.290000
CADMIUM	0.0010	0.001035008	104	3.880000	0.10	0.1057183	106	2.690000	0.10	0.1046296	105	0.300000
CHROMIUM	0.0010	0.000870986	87.10	9.950000	0.10	0.09897504	99	1.650000	0.10	0.1001846	100	3.380000
COBALT	0.0010	0.001026768	103	3.220000	0.10	0.09908705	99.10	1.330000	0.10	0.1024108	102	3.700000
LEAD	0.0010	0.001052015	105	2.910000	0.10	0.09728468	97.30	2.090000	0.10	0.09950772	99.50	0.450000
NICKEL	0.0010	0.001026032	103	10.700000	0.10	0.09991835	99.90	1.080000	0.10	0.1008401	101	4.360000
SELENIUM	0.0010	0.000892604	89.30	22.200000	0.10	0.1050181	105	2.630000	0.10	0.1042905	104	1.080000
SILVER	0.0010	0.001070995	107	3.360000	0.10	0.1058001	106	1.460000	0.10	0.1047924	105	0.520000
THALLIUM	0.0010	0.00099657	99.70	1.070000	0.10	0.09563607	95.60	0.340000	0.10	0.09783738	97.80	2.780000
TIN	0.0010	0.001127875	113	14.300000	0.10	0.09877202	98.80	1.960000	0.10	0.09785827	97.90	4.550000
ZINC	0.01	0.01017423	102	3.900000	0.10	0.09900241	99	1.000000	0.10	0.1001117	100	4.000000

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9
Concentration Units:	mg/l		

CCVLL

Sample ID: ICPMS90508192318

Analyte	True	Found	%R	%RSD
ANTIMONY	0.0010	0.000901765	90.20	9.590000
ARSENIC	0.0010	0.00100968	101	6.020000
CADMIUM	0.0010	0.00108979	109	3.290000
CHROMIUM	0.0010	0.000766848	76.70	18.000000
COBALT	0.0010	0.001034114	103	2.380000
LEAD	0.0010	0.00103697	104	7.280000
NICKEL	0.0010	0.001069548	107	4.330000
SELENIUM	0.0010	0.000816176	81.60	30.800000
SILVER	0.0010	0.001067246	107	2.450000
THALLIUM	0.0010	0.0009821519	98.20	6.590000
TIN	0.0010	0.000884479	88.40	8.320000
ZINC	0.01	0.01038858	104	1.440000

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10
Concentration Units:	mg/l		

	ICV				**CCV**				**ICVLL**			
Sample ID:	ICPMS100509190218				ICPMS100509190240				ICPMS100509190250			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
COPPER	0.10	0.09733663	97.30	0.970000	0.10	0.09729283	97.30	1.820000	0.0010	0.000988901	98.90	4.710000

ICV Limits: 95 - 105 CCV Limits: 90 - 110 ICVLL Limits: 50 - 150 CCVLL Limits: 50 - 150

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10
Concentration Units:	mg/l		

	CCV				**CCV**				**CCVLL**			
Sample ID:	ICPMS100509190404				ICPMS100509190459				ICPMS100509190508			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
COPPER	0.10	0.09516696	95.20	1.760000	0.10	0.09478157	94.80	1.290000	0.0010	0.001052471	105	3.380000

ICV Limits: 95 - 105 CCV Limits: 90 - 110 ICVLL Limits: 50 - 150 CCVLL Limits: 50 - 150

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20190508102738-3		20190508205654-2		20190508213519		20190508223116	
Analyte	mg/l		mg/l		mg/l		mg/l	
ANTIMONY	0.000491065	U	0.000513056	U	U		0.0000004470	U
ARSENIC	0.000017838	U	0.000007670	U	U		0.00001039	U
CADMIUM	0.00002910	U	0.000027199	U	U		0.000012309	U
CHROMIUM	0.000012844	U	-0.000293819	U	U		-0.000007824	U
COBALT	0.000002689	U	0.000016572	U	U		0.000014337	U
LEAD	0.000006259	U	0.000001540	U	U		0.000002992	U
NICKEL	-0.000028913	U	0.000013307	U	U		0.000042631	U
SELENIUM	0.000015827	U	0.000043171	U	U		0.0000002980	U
SILVER	0.000003887	U	0.000004419	U	U		0.000001979	U
THALLIUM	0.000035288	U	0.000029028	U	U		0.000010701	U
TIN	-0.000042529	U	0.000014265	U	U		0.000020588	U
ZINC	-0.000107006	U	-0.000238678	U	U		-0.000270941	U

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20190508231325	
Analyte	mg/l	
ANTIMONY	0.000035139	U
ARSENIC	0.000007614	U
CADMIUM	0.000014736	U
CHROMIUM	-0.000067831	U
COBALT	0.000005444	U
LEAD	0.000098417	U
NICKEL	0.000005500	U
SELENIUM	0.000016159	U
SILVER	0.000009812	U
THALLIUM	0.000002962	U
TIN	0.000029085	U
ZINC	-0.00018454	U

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20190509023526		20190509024435		20190509031828		20190509040847	
Analyte	mg/l		mg/l		mg/l		mg/l	
COPPER	0.000009406	U	-0.000032287	U	U		-0.000032106	U

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20190509050340	
Analyte	mg/l	
COPPER	-0.000028934	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	05/08/19 10:55
Instrument Run:	050819ICPMS9		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	101.4136	101	100	100.4361	100
ANTIMONY	0	0.000187734		0.02	0.02121652	106
ARSENIC	0	0.000058061		0.02	0.01800284	90
BARIUM	0	0.000097599		0.02	0.01933162	96.70
BERYLLIUM	0	0.0000009220		0.02	0.01891686	94.60
BISMUTH (NO HE)		1973157	87.10		1873852	82.70
BORON	0	0.001078575		0.02	0.018867	94.30
CADMIUM	0	0.000395653		0.02	0.02126561	106
CALCIUM	100	95.64979	95.60	100	94.97077	95
CHROMIUM	0	0.000281611		0.02	0.01872909	93.60
COBALT	0	0.00028996		0.02	0.01873487	93.70
COPPER	0	0.001071101		0.02	0.01976187	98.80
GERMANIUM		7904.013	102		7725.283	99.70
GERMANIUM (HIGH HE)		10989.49	107		10891.44	106
GERMANIUM (NO HE)		49262.89	97.80		47501.07	94.30
IRON	100	90.7055	90.70	100	91.63609	91.60
LEAD	0	0.000091867		0.02	0.01981481	99.10
LITHIUM	0	0.000564253		0	0.000586314	
MAGNESIUM	100	98.12529	98.10	100	98.57874	98.60
MANGANESE	0	0.000466675		0.02	0.01849033	92.50
MERCURY	0	0.005144651		0	0.005592604	
MOLYBDENUM	2	1.989216	99.50	2	2.045152	102
NICKEL	0	0.000341689		0.02	0.01888081	94.40
POTASSIUM	100	99.04208	99	100	97.92669	97.90
RHODIUM		186876.2	91.30		180843.5	88.40
SCANDIUM		111743.2	93.20		109124.2	91
SCANDIUM (NO HE)		2490673	100		2388962	96
SELENIUM	0	0.000044246		0.02	0.02144093	107
SILVER	0	0.000012782		0.02	0.01971089	98.60
SODIUM	100	94.9664	95	100	96.81003	96.80
STRONTIUM	0	0.000760598		0.02	0.020532	103
TELLURIUM		25111.35	89.90		24137.62	86.40
TELLURIUM (HIGH HE)		97604.58	91.80		95782.19	90.10
TELLURIUM (NO HE)		166887.2	90.10		160401.3	86.60
THALLIUM	0	0.000007701		0.02	0.01908603	95.40
THORIUM	0	0.00002057		0.02	0.01930109	96.50
TIN	0	0.000228979		0.02	0.01992635	99.60
TITANIUM	2	2.012466	101	2	2.005396	100
URANIUM	0	0.000003944		0.02	0.01948814	97.40
VANADIUM	0	0.000018241		0.02	0.01826074	91.30
ZINC	0	0.000175802		0.02	0.01772694	88.60

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	05/08/19 21:15
Instrument Run:	050819ICPMS9		

Analyte	**True**	**Found**		**True**	**Found**	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	101.8269	102	100	106.7776	107
ANTIMONY	0	-0.000008127		0.02	0.02233201	112
ARSENIC	0	0.00004958		0.02	0.01845038	92.30
BARIUM	0	0.000140228		0.02	0.0184023	92
BERYLLIUM	0	0.0000005060		0.02	0.01796587	89.80
BISMUTH (NO HE)		1908446	84.20		1897937	83.80
BORON	0	0.000419033		0.02	0.01768492	88.40
CADMIUM	0	0.000385195		0.02	0.02325786	116
CALCIUM	100	95.05637	95.10	100	97.23098	97.20
CHROMIUM	0	0.000136734		0.02	0.01883976	94.20
COBALT	0	0.00030298		0.02	0.01957819	97.90
COPPER	0	0.000454698		0.02	0.01939554	97
GERMANIUM		8195.463	106		7782.63	100
GERMANIUM (HIGH HE)		11219.64	109		10998.17	107
GERMANIUM (NO HE)		50348.56	99.90		49488.39	98.20
IRON	100	93.71403	93.70	100	91.68544	91.70
LEAD	0	0.000111526		0.02	0.01966071	98.30
LITHIUM	0	0.00057046		0	0.000636157	
MAGNESIUM	100	100.0091	100	100	105.1761	105
MANGANESE	0	0.000428306		0.02	0.01823024	91.20
MERCURY	0	0.003729489		0	0.002331676	
MOLYBDENUM	2	2.086896	104	2	2.067276	103
NICKEL	0	0.000327894		0.02	0.01963123	98.20
POTASSIUM	100	98.69688	98.70	100	104.195	104
RHODIUM		183052.5	89.50		182010.9	89
SCANDIUM		111234.1	92.80		108411.6	90.40
SCANDIUM (NO HE)		2555568	103		2523908	101
SELENIUM	0	0.000083729		0.02	0.02170406	109
SILVER	0	0.000014158		0.02	0.02067888	103
SODIUM	100	98.95266	99	100	101.9466	102
STRONTIUM	0	0.000796998		0.02	0.02030933	102
TELLURIUM		24329.63	87.10		23100.04	82.70
TELLURIUM (HIGH HE)		97178.56	91.40		93974.79	88.40
TELLURIUM (NO HE)		145322.3	78.40		140893	76.10
THALLIUM	0	-0.000006822		0.02	0.01868691	93.40
THORIUM	0	0.000007405		0.02	0.02059307	103
TIN	0	0.000208915		0.02	0.01984852	99.20
TITANIUM	2	2.076168	104	2	2.033139	102
URANIUM	0	0.000002356		0.02	0.02077609	104
VANADIUM	0	-0.00000009800		0.02	0.01860628	93
ZINC	0	0.000195742		0.02	0.01863287	93.20

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	05/08/19 23:22
Instrument Run:	050819ICPMS9		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	102.0371	102	100	102.4854	102
ANTIMONY	0	0.000017354		0.02	0.02194487	110
ARSENIC	0	0.000072442		0.02	0.01887201	94.40
BARIUM	0	0.00027348		0.02	0.01991931	99.60
BERYLLIUM	0	-0.000003487		0.02	0.01694839	84.70
BISMUTH (NO HE)		1882019	83.10		1690788	74.60
BORON	0	0.00400028		0.02	0.01848619	92.40
CADMIUM	0	0.000352358		0.02	0.02269769	113
CALCIUM	100	98.45096	98.50	100	98.0161	98
CHROMIUM	0	0.000238678		0.02	0.01915676	95.80
COBALT	0	0.000313815		0.02	0.01960906	98
COPPER	0	0.000522441		0.02	0.02007418	100
GERMANIUM		7731.957	99.80		7367.157	95.10
GERMANIUM (HIGH HE)		11341.05	111		10805.38	105
GERMANIUM (NO HE)		50627.49	100		46390.99	92.10
IRON	100	95.56698	95.60	100	95.65809	95.70
LEAD	0	0.000133371		0.02	0.02025863	101
LITHIUM	0	0.000493929		0	0.000547282	
MAGNESIUM	100	101.5427	102	100	100.3656	100
MANGANESE	0	0.000460969		0.02	0.01910582	95.50
MERCURY	0	0.003574053		0	0.00459384	
MOLYBDENUM	2	2.085432	104	2	2.089016	104
NICKEL	0	0.000383865		0.02	0.01991441	99.60
POTASSIUM	100	102.7566	103	100	100.3749	100
RHODIUM		182060.4	89		173321.7	84.70
SCANDIUM		108413.5	90.40		101638.6	84.80
SCANDIUM (NO HE)		2522754	101		2379836	95.60
SELENIUM	0	0.000038425		0.02	0.02247741	112
SILVER	0	0.000023957		0.02	0.02082237	104
SODIUM	100	98.31376	98.30	100	99.61075	99.60
STRONTIUM	0	0.000845172		0.02	0.02016196	101
TELLURIUM		23546.8	84.30		21807.26	78.10
TELLURIUM (HIGH HE)		93924.42	88.30		90556.31	85.10
TELLURIUM (NO HE)		144729.2	78.10		135299.3	73
THALLIUM	0	-0.000003493		0.02	0.01932849	96.60
THORIUM	0	0.000008036		0.02	0.02071211	104
TIN	0	0.000258043		0.02	0.01985666	99.30
TITANIUM	2	2.052889	103	2	2.075274	104
URANIUM	0	0.0000007660		0.02	0.02103976	105
VANADIUM	0	0.000006325		0.02	0.01906779	95.30
ZINC	0	0.000225767		0.02	0.01881588	94.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Date:**	05/09/19 02:56
Instrument Run:	050819ICPMS10		

Analyte	**True**	**Found**		**True**	**Found**	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	93.40464	93.40	100	93.46711	93.50
ANTIMONY	0	0.000343036		0.02	0.02313086	116
ARSENIC	0	0.000024383		0.02	0.0180471	90.20
BARIUM	0	0.000045371		0.02	0.01965509	98.30
BERYLLIUM	0	0.000020037		0.02	0.01764389	88.20
BISMUTH (NO HE)		1272547	103		1286613	104
BORON	0	0.003335209		0.02	0.02101239	105
CADMIUM	0	0.000265241		0.02	0.02011264	101
CALCIUM	100	93.02391	93	100	94.14227	94.10
CHROMIUM	0	0.000307755		0.02	0.01870196	93.50
COBALT	0	0.00029764		0.02	0.01892424	94.60
COPPER	0	0.001162511		0.02	0.01969646	98.50
GERMANIUM		5629.26	103		5699.277	104
GERMANIUM (NO HE)		37277.1	103		37210.29	103
IRON	100	88.90103	88.90	100	88.8145	88.80
LEAD	0	0.000117596		0.02	0.01950772	97.50
LITHIUM	0	0.000463534		0	0.000470753	
MAGNESIUM	100	97.87156	97.90	100	97.58366	97.60
MANGANESE	0	0.000297657		0.02	0.01860192	93
MOLYBDENUM	2	1.960063	98	2	1.983146	99.20
NICKEL	0	0.000275392		0.02	0.01904413	95.20
POTASSIUM	100	96.66501	96.70	100	97.91546	97.90
RHODIUM		147598	99.80		148250	100
SCANDIUM		66328.57	102		66439.67	102
SCANDIUM (NO HE)		1664396	101		1638232	99.10
SELENIUM	0	-0.000154059		0.02	0.02023466	101
SILVER	0	0.000035359		0.02	0.01937933	96.90
SODIUM	100	96.44273	96.40	100	95.85315	95.90
STRONTIUM	0	0.000743725		0.02	0.0200221	100
TELLURIUM		25450.58	99		25563.95	99.50
TELLURIUM (HIGH HE)		49553.39	101		49689.84	101
TELLURIUM (NO HE)		130389.4	97.20		132245.4	98.60
THALLIUM	0	0.000012886		0.02	0.01928473	96.40
THORIUM	0	0.000080926		0.02	0.0191706	95.90
TIN	0	0.000405152		0.02	0.02024734	101
TITANIUM	2	1.936034	96.80	2	1.962722	98.10
URANIUM	0	0.000001183		0.02	0.01956775	97.80
VANADIUM	0	0.000070203		0.02	0.0183529	91.80
ZINC	0	0.000535401		0.02	0.01871369	93.60

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Date:**	05/09/19 05:12
Instrument Run:	050819ICPMS10		

Analyte	**True**	**Found**		**True**	**Found**	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	93.6641	93.70	100	94.44555	94.40
ANTIMONY	0	0.00027739		0.02	0.02378584	119
ARSENIC	0	0.00006148		0.02	0.01801583	90.10
BARIUM	0	0.000306775		0.02	0.02068146	103
BERYLLIUM	0	0.000018248		0.02	0.01702685	85.10
BISMUTH (NO HE)		1275876	103		1319403	106
BORON	0	0.006659455		0.02	0.02441067	122
CADMIUM	0	0.000247355		0.02	0.02023971	101
CALCIUM	100	94.77973	94.80	100	95.32291	95.30
CHROMIUM	0	0.000246401		0.02	0.01825918	91.30
COBALT	0	0.000270917		0.02	0.01875897	93.80
COPPER	0	0.001212398		0.02	0.01973036	98.70
GERMANIUM		5721.28	105		5887.973	108
GERMANIUM (NO HE)		39304.46	108		38615.95	107
IRON	100	89.92321	89.90	100	88.36419	88.40
LEAD	0	0.000101025		0.02	0.01935057	96.80
LITHIUM	0	0.000562834		0	0.000582455	
MAGNESIUM	100	96.04794	96	100	97.28989	97.30
MANGANESE	0	0.000306917		0.02	0.01911608	95.60
MOLYBDENUM	2	1.975739	98.80	2	1.994949	99.70
NICKEL	0	0.000268517		0.02	0.01861245	93.10
POTASSIUM	100	97.14393	97.10	100	99.14149	99.10
RHODIUM		150628.5	102		150569	102
SCANDIUM		67538.22	104		67470.62	104
SCANDIUM (NO HE)		1720600	104		1634955	98.90
SELENIUM	0	-0.000220418		0.02	0.02045221	102
SILVER	0	0.000009845		0.02	0.01951213	97.60
SODIUM	100	94.88834	94.90	100	96.0232	96
STRONTIUM	0	0.000864125		0.02	0.02069096	103
TELLURIUM		26456.15	103		26415.75	103
TELLURIUM (HIGH HE)		50437.87	103		50668.48	103
TELLURIUM (NO HE)		135448	101		138035.9	103
THALLIUM	0	0.000006372		0.02	0.01894607	94.70
THORIUM	0	0.000075538		0.02	0.01878952	93.90
TIN	0	0.000328497		0.02	0.02018838	101
TITANIUM	2	1.962963	98.10	2	1.981606	99.10
URANIUM	0	0.000005136		0.02	0.01932851	96.60
VANADIUM	0	0.000127517		0.02	0.0185148	92.60
ZINC	0	0.000750343		0.02	0.01865939	93.30

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409469-5
R3409469-6

MS Sample / File ID:	R3409469-5 / 20190508215810	**SDG:**	L1095644
MSD Sample / File ID:	R3409469-6 / 20190508220245	**Analytical Batch:**	WG1276430
OS Sample / File ID:	L1094844-01 / 20190508214902	**Matrix:**	WW
Instrument ID:	ICPMS9		
Analytical Method:	200.8		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Antimony	0.0500	ND	0.0535	0.0526	107	105	1	70.0 - 130	1.71	20
Arsenic	0.0500	ND	0.0496	0.0506	98.1	100	1	70.0 - 130	1.92	20
Cadmium	0.0500	ND	0.0583	0.0579	117	116	1	70.0 - 130	0.693	20
Chromium	0.0500	ND	0.0478	0.0493	94.6	97.5	1	70.0 - 130	2.98	20
Cobalt	0.0500	0.00260	0.0521	0.0523	99.1	99.4	1	70.0 - 130	0.356	20
Lead	0.0500	0.00970	0.0616	0.0608	104	102	1	70.0 - 130	1.30	20
Nickel	0.0500	0.140	0.184	0.188	89.1	97.5	1	70.0 - 130	2.27	20
Selenium	0.0500	ND	0.0561	0.0561	111	110	1	70.0 - 130	0.112	20
Silver	0.0500	ND	0.0547	0.0542	109	108	1	70.0 - 130	0.843	20
Thallium	0.0500	ND	0.0479	0.0495	95.9	98.9	1	70.0 - 130	3.09	20
Tin	0.0500	0.00177	0.0509	0.0496	98.3	95.6	1	70.0 - 130	2.67	20
Zinc	0.0500	0.215	0.253	0.258	75.4	86.0	1	70.0 - 130	2.08	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409469-7
R3409469-8

MS Sample / File ID:	R3409469-7 / 20190508221153	**SDG:**	L1095644
MSD Sample / File ID:	R3409469-8 / 20190508221628	**Analytical Batch:**	WG1276430
OS Sample / File ID:	L1095123-08 / 20190508220719	**Matrix:**	WW
Instrument ID:	ICPMS9		
Analytical Method:	200.8		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Antimony	0.0500	U	0.0540	0.0523	108	105	1	70.0 - 130	3.19	20
Arsenic	0.0500	0.000699	0.0541	0.0517	107	102	1	70.0 - 130	4.57	20
Cadmium	0.0500	U	0.0573	0.0559	115	112	1	70.0 - 130	2.46	20
Chromium	0.0500	0.000441	0.0512	0.0501	102	99.3	1	70.0 - 130	2.14	20
Cobalt	0.0500	0.00115	0.0533	0.0516	104	101	1	70.0 - 130	3.24	20
Lead	0.0500	0.000427	0.0521	0.0507	103	101	1	70.0 - 130	2.62	20
Nickel	0.0500	0.00176	0.0542	0.0523	105	101	1	70.0 - 130	3.54	20
Selenium	0.0500	U	0.0561	0.0543	112	109	1	70.0 - 130	3.21	20
Silver	0.0500	U	0.0547	0.0529	109	106	1	70.0 - 130	3.35	20
Thallium	0.0500	U	0.0512	0.0486	102	97.2	1	70.0 - 130	5.30	20
Tin	0.0500	U	0.0507	0.0509	101	102	1	70.0 - 130	0.573	20
Zinc	0.0500	0.0116	0.0627	0.0589	102	94.4	1	70.0 - 130	6.34	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409566-5
R3409566-6

MS Sample / File ID:	R3409566-5 / 20190509034120	**SDG:**	L1095644
MSD Sample / File ID:	R3409566-6 / 20190509034554	**Analytical Batch:**	WG1276430
OS Sample / File ID:	L1094844-01 / 20190509033211	**Matrix:**	WW
Instrument ID:	ICPMS10		
Analytical Method:	200.8		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Copper	0.0500	0.0825	0.128	0.128	91.1	91.8	1	70.0 - 130	0.253	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409566-7
R3409566-8

MS Sample / File ID:	R3409566-7 / 20190509035504	**SDG:**	L1095644
MSD Sample / File ID:	R3409566-8 / 20190509035938	**Analytical Batch:**	WG1276430
OS Sample / File ID:	L1095123-08 / 20190509035029	**Matrix:**	WW
Instrument ID:	ICPMS10		
Analytical Method:	200.8		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Copper	0.0500	0.00132	0.0446	0.0432	86.5	83.8	1	70.0 - 130	3.05	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409469-2
R3409469-3

LCS Sample / File ID:	R3409469-2 / 20190508213953	**SDG:**	L1095644
LCSD Sample / File ID:	R3409469-3 / 20190508214428	**Analytical Batch:**	WG1276430
Instrument ID:	ICPMS9	**Dilution Factor:**	1
Analytical Method:	200.8	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Antimony	0.0500	0.0517	0.0519	103	104	85.0 - 115	0.302	20
Arsenic	0.0500	0.0502	0.0520	100	104	85.0 - 115	3.48	20
Cadmium	0.0500	0.0549	0.0571	110	114	85.0 - 115	3.92	20
Chromium	0.0500	0.0498	0.0519	99.7	104	85.0 - 115	4.09	20
Cobalt	0.0500	0.0516	0.0530	103	106	85.0 - 115	2.77	20
Lead	0.0500	0.0497	0.0515	99.5	103	85.0 - 115	3.50	20
Nickel	0.0500	0.0517	0.0527	103	105	85.0 - 115	1.91	20
Selenium	0.0500	0.0539	0.0541	108	108	85.0 - 115	0.317	20
Silver	0.0500	0.0533	0.0540	107	108	85.0 - 115	1.29	20
Thallium	0.0500	0.0485	0.0505	97.0	101	85.0 - 115	4.14	20
Tin	0.0500	0.0497	0.0498	99.4	99.6	85.0 - 115	0.123	20
Zinc	0.0500	0.0498	0.0507	99.5	101	85.0 - 115	1.93	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409566-2
R3409566-3

LCS Sample / File ID:	R3409566-2 / 20190509032303	**SDG:**	L1095644
LCSD Sample / File ID:	R3409566-3 / 20190509032737	**Analytical Batch:**	WG1276430
Instrument ID:	ICPMS10	**Dilution Factor:**	1
Analytical Method:	200.8	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Copper	0.0500	0.0442	0.0446	88.3	89.2	85.0 - 115	1.04	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8-IN

ICP AND ICP/MS SERIAL DILUTIONS

L1095644-01

SAMPLE NO.:
R3409469-4

SD Sample / File ID:	R3409469-4 / 20190508215336	**SDG:**	L1095644
OS Sample / File ID:	L1094844-01 / 20190508214902	**Analytical Batch:**	WG1276430
Lab File ID:	20190508215336	**Dilution Factor:**	5
Instrument ID:	ICPMS9	**Matrix:**	WW
Analytical Method:	200.8		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/l	*mg/l*	*%*	*%*
Antimony	ND	ND	0.000	10
Arsenic	ND	ND	0.000	10
Cadmium	ND	ND	0.000	10
Chromium	ND	ND	0.000	10
Cobalt	0.00260	0.00274	5.52	10
Lead	0.00970	0.00970	0.0820	10
Nickel	0.140	0.146	4.47	10
Selenium	ND	ND	0.000	10
Silver	ND	ND	0.000	10
Thallium	ND	ND	0.000	10
Tin	0.00177	ND	100	10
Zinc	0.215	0.216	0.379	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8-IN

ICP AND ICP/MS SERIAL DILUTIONS

L1095644-01

SAMPLE NO.:
R3409566-4

SD Sample / File ID:	R3409566-4 / 20190509033645	**SDG:**	L1095644
OS Sample / File ID:	L1094844-01 / 20190509033211	**Analytical Batch:**	WG1276430
Lab File ID:	20190509033645	**Dilution Factor:**	5
Instrument ID:	ICPMS10	**Matrix:**	WW
Analytical Method:	200.8		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/l	*mg/l*	*%*	*%*
Copper	0.0825	0.0940	14.0*	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	02/25/19 08:18

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	10
BARIUM	10
BERYLLIUM	10
BORON	10
CADMIUM	10
CALCIUM	1000
CHROMIUM	10
COBALT	2
COPPER	0.20
IRON	500
LEAD	10
MAGNESIUM	200
MANGANESE	10
MOLYBDENUM	10
NICKEL	2
POTASSIUM	1000
SELENIUM	10
SILVER	1
SODIUM	1000
STRONTIUM	5
THALLIUM	10
THORIUM	10
TIN	10
TITANIUM	10
URANIUM	10
VANADIUM	10
ZINC	2

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Date:**	02/22/19 17:31

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	10
BARIUM	10
BERYLLIUM	5
BORON	5
CADMIUM	10
CALCIUM	1000
CHROMIUM	10
COBALT	10
COPPER	0.20
IRON	500
LEAD	10
MAGNESIUM	1000
MANGANESE	10
MOLYBDENUM	10
NICKEL	2
POTASSIUM	1000
SELENIUM	10
SILVER	0.20
SODIUM	1000
STRONTIUM	10
THALLIUM	10
THORIUM	10
TIN	10
TITANIUM	10
URANIUM	10
VANADIUM	10
ZINC	10

11-IN

INTERNAL STANDARD ASSOCIATION

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Analysis Date:**	05/08/19 08:15
Instrument Run:	050819ICPMS9		

Analyte	Assoc. Internal Standard 1
CHROMIUM - 52	GERMANIUM - 72
COBALT - 59	GERMANIUM - 72
NICKEL - 60	GERMANIUM - 72
ZINC - 66	GERMANIUM - 72
ARSENIC - 75	GERMANIUM - 72
SELENIUM - 78	TELLURIUM (HIGH HE) - 125
SILVER - 107	RHODIUM - 103
CADMIUM - 111	TELLURIUM - 125
TIN - 118	RHODIUM - 103
ANTIMONY - 121	RHODIUM - 103
THALLIUM - 205	BISMUTH (NO HE) - 209
LEAD - 208	BISMUTH (NO HE) - 209

11-IN

INTERNAL STANDARD ASSOCIATION

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Analysis Date:**	05/08/19 08:14
Instrument Run:	050819ICPMS10		

Analyte	Assoc. Internal Standard 1
COPPER - 63	GERMANIUM (NO HE) - 72

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Calibration Start Date:**	05/08/19 09:41
Analytical Run:	050819ICPMS9	**Calibration End Date:**	05/08/19 10:04

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	ICPMS9tn05082019815-3	20190508081507-3	05/08/19 08:15	1	
CALBLK	ICPMS90508190937	20190508093708	05/08/19 09:37	1	
CAL	STD1	20190508094143	05/08/19 09:41	1	
CAL	STD2	20190508094618	05/08/19 09:46	1	
CAL	STD3	20190508095054	05/08/19 09:50	1	
CAL	STD4	20190508095530	05/08/19 09:55	1	
CAL	STD5	20190508100005	05/08/19 10:00	1	
CAL	STD6	20190508100441	05/08/19 10:04	1	
ICV	ICPMS90508191021-3	20190508102100-3	05/08/19 10:21	1	
ICB	ICPMS90508191027-3	20190508102738-3	05/08/19 10:27	1	
ICVLL	ICPMS90508191050-3	20190508105025-3	05/08/19 10:50	1	
ICSA	ICPMS90508191055-3	20190508105537-3	05/08/19 10:55	1	
ICSAB	ICPMS90508191100-3	20190508110013-3	05/08/19 11:00	1	
CCV	ICPMS90508192052-2	20190508205219-2	05/08/19 20:52	1	
CCB	ICPMS90508192056-2	20190508205654-2	05/08/19 20:56	1	
CCVLL	ICPMS90508192104-3	20190508210443-3	05/08/19 21:04	1	
ICSA	ICPMS90508192115-2	20190508211519-2	05/08/19 21:15	1	
ICSAB	ICPMS90508192119-2	20190508211954-2	05/08/19 21:19	1	
BLANK	R3409469-1	20190508213519	05/08/19 21:35	1	WG1276430
LCS	R3409469-2	20190508213953	05/08/19 21:39	1	WG1276430
LCSD	R3409469-3	20190508214428	05/08/19 21:44	1	WG1276430
OS	L1094844-01	20190508214902	05/08/19 21:49	1	WG1276430
SD	R3409469-4	20190508215336	05/08/19 21:53	5	WG1276430
MS	R3409469-5	20190508215810	05/08/19 21:58	1	WG1276430
MSD	R3409469-6	20190508220245	05/08/19 22:02	1	WG1276430
OS	L1095123-08	20190508220719	05/08/19 22:07	1	WG1276430
MS	R3409469-7	20190508221153	05/08/19 22:11	1	WG1276430
MSD	R3409469-8	20190508221628	05/08/19 22:16	1	WG1276430
CCV	ICPMS90508192221	20190508222103	05/08/19 22:21	1	
CCB	ICPMS90508192231	20190508223116	05/08/19 22:31	1	
WW-20190503-002 DAY 5	L1095644-01	20190508224500	05/08/19 22:45	1	WG1276430
CCV	ICPMS90508192304	20190508230407	05/08/19 23:04	1	
CCB	ICPMS90508192313	20190508231325	05/08/19 23:13	1	
CCVLL	ICPMS90508192318	20190508231800	05/08/19 23:18	1	
ICSA	ICPMS90508192322	20190508232235	05/08/19 23:22	1	
ICSAB	ICPMS90508192327	20190508232710	05/08/19 23:27	1	

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Calibration Start Date:**	05/09/19 01:50
Analytical Run:	050819ICPMS10	**Calibration End Date:**	05/09/19 02:13

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	ICPMS10tn05082019814-4	20190508081419-4	05/08/19 08:14	1	
CALBLK	ICPMS100509190146	20190509014617	05/09/19 01:46	1	
CAL	STD1	20190509015053	05/09/19 01:50	1	
CAL	STD2	20190509015528	05/09/19 01:55	1	
CAL	STD3	20190509020003	05/09/19 02:00	1	
CAL	STD4	20190509020438	05/09/19 02:04	1	
CAL	STD5	20190509020914	05/09/19 02:09	1	
CAL	STD6	20190509021350	05/09/19 02:13	1	
ICV	ICPMS100509190218	20190509021825	05/09/19 02:18	1	
ICB	ICPMS100509190235	20190509023526	05/09/19 02:35	1	
CCV	ICPMS100509190240	20190509024001	05/09/19 02:40	1	
CCB	ICPMS100509190244	20190509024435	05/09/19 02:44	1	
ICVLL	ICPMS100509190250	20190509025038	05/09/19 02:50	1	
ICSA	ICPMS100509190256	20190509025646	05/09/19 02:56	1	
ICSAB	ICPMS100509190301	20190509030122	05/09/19 03:01	1	
BLANK	R3409566-1	20190509031828	05/09/19 03:18	1	WG1276430
LCS	R3409566-2	20190509032303	05/09/19 03:23	1	WG1276430
LCSD	R3409566-3	20190509032737	05/09/19 03:27	1	WG1276430
OS	L1094844-01	20190509033211	05/09/19 03:32	1	WG1276430
SD	R3409566-4	20190509033645	05/09/19 03:36	5	WG1276430
MS	R3409566-5	20190509034120	05/09/19 03:41	1	WG1276430
MSD	R3409566-6	20190509034554	05/09/19 03:45	1	WG1276430
OS	L1095123-08	20190509035029	05/09/19 03:50	1	WG1276430
MS	R3409566-7	20190509035504	05/09/19 03:55	1	WG1276430
MSD	R3409566-8	20190509035938	05/09/19 03:59	1	WG1276430
CCV	ICPMS100509190404	20190509040413	05/09/19 04:04	1	
CCB	ICPMS100509190408	20190509040847	05/09/19 04:08	1	
WW-20190503-002 DAY 5	L1095644-01	20190509045431	05/09/19 04:54	1	WG1276430
CCV	ICPMS100509190459	20190509045906	05/09/19 04:59	1	
CCB	ICPMS100509190503	20190509050340	05/09/19 05:03	1	
CCVLL	ICPMS100509190508	20190509050815	05/09/19 05:08	1	
ICSA	ICPMS100509190512	20190509051250	05/09/19 05:12	1	
ICSAB	ICPMS100509190517	20190509051724	05/09/19 05:17	1	

13-IN

ICP/MS TUNE

Lab File ID:	20190508081507-3	**SDG:**	L1095644
Instrument ID:	ICPMS9	**Analysis Date/Time**	05/08/19 08:15
Analytical Method:	200.8		

Element - Mass	Avg. Measured Mass	Avg. Peak Width	Height	RSD
	u	u	%	%
IN - 115	115	0.38022610	5	1.659697
PB - 206	206	0.53828290	5	1.089957
PB - 207	207	0.50759040	5	2.237063
PB - 208	208	0.55524080	5	1.530901
MG - 24	23.90	0.53522140	5	1.076548
MG - 25	24.90	0.52893570	5	0.87852630
MG - 26	25.90	0.53465750	5	1.367559
CO - 59	58.95	0.43718020	5	1.051927
BE - 9	8.95	0.49115040	5	1.160908

13-IN

ICP/MS TUNE

Lab File ID:	20190508081419-4	**SDG:**	L1095644
Instrument ID:	ICPMS10	**Analysis Date/Time**	05/08/19 08:14
Analytical Method:	200.8		

Element - Mass	Avg. Measured Mass	Avg. Peak Width	Height	RSD
	u	u	%	%
IN - 115	115.05	0.43896230	5	0.75561890
PB - 206	206	0.485144	5	1.081764
PB - 207	207	0.49174020	5	1.658029
PB - 208	208	0.51509260	5	1.000195
MG - 24	23.95	0.50696070	5	0.23217210
MG - 25	24.95	0.49298150	5	0.41030130
MG - 26	26	0.491712	5	0.71556170
CO - 59	59	0.47945940	5	0.60036220
BE - 9	9	0.48045760	5	1.376531

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	05/08/19 10:21
Instrument Run:	050819ICPMS9	**End Date:**	05/08/19 22:16

Client Sample ID	Lab Sample ID	Analysis Date Time	BISMUTH (NO HE)		GERMANIUM		GERMANIUM (HIGH HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS90508191021-3	05/08/19 10:21	95.80		102		104	
ICB	ICPMS90508191027-3	05/08/19 10:27	102		103		104	
ICVLL	ICPMS90508191050-3	05/08/19 10:50	97.90		102		103	
ICSA	ICPMS90508191055-3	05/08/19 10:55	87.10		102		107	
ICSAB	ICPMS90508191100-3	05/08/19 11:00	82.70		99.70		106	
CCV	ICPMS90508192052-2	05/08/19 20:52	95.20		102		103	
CCB	ICPMS90508192056-2	05/08/19 20:56	99		106		106	
CCVLL	ICPMS90508192104-3	05/08/19 21:04	92.50		105		106	
ICSA	ICPMS90508192115-2	05/08/19 21:15	84.20		106		109	
ICSAB	ICPMS90508192119-2	05/08/19 21:19	83.80		100		107	
CCV	ICPMS90508192221	05/08/19 22:21	92.10		102		105	
CCB	ICPMS90508192231	05/08/19 22:31	94.60		103		104	
CCV	ICPMS90508192304	05/08/19 23:04	92.10		105		108	
CCB	ICPMS90508192313	05/08/19 23:13	98.30		104		109	
CCVLL	ICPMS90508192318	05/08/19 23:18	93.10		105		109	
ICSA	ICPMS90508192322	05/08/19 23:22	83.10		99.80		111	
ICSAB	ICPMS90508192327	05/08/19 23:27	74.60		95.10		105	
OS	L1094844-01	05/08/19 21:49	90.30		102		110	
OS	L1095123-08	05/08/19 22:07	85		98.10		107	
WW-20190503-002 DAY 5	L1095644-01	05/08/19 22:45	84.40		103		110	
BLANK	R3409469-1	05/08/19 21:35	89.80		94.50		103	
LCS	R3409469-2	05/08/19 21:39	88.80		96.70		103	
LCSD	R3409469-3	05/08/19 21:44	89.40		97.30		105	
SD	R3409469-4	05/08/19 21:53	89.50		101		104	
MS	R3409469-5	05/08/19 21:58	85.90		102		107	
MSD	R3409469-6	05/08/19 22:02	85		101		108	
MS	R3409469-7	05/08/19 22:11	83.10		97.50		105	
MSD	R3409469-8	05/08/19 22:16	85.80		99.10		107	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	05/08/19 10:21
Instrument Run:	050819ICPMS9	**End Date:**	05/08/19 22:16

Client Sample ID	Lab Sample ID	Analysis Date Time	GERMANIUM (NO HE)		RHODIUM		SCANDIUM	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS90508191021-3	05/08/19 10:21	100		100		101	
ICB	ICPMS90508191027-3	05/08/19 10:27	98.30		102		102	
ICVLL	ICPMS90508191050-3	05/08/19 10:50	101		102		100	
ICSA	ICPMS90508191055-3	05/08/19 10:55	97.80		91.30		93.20	
ICSAB	ICPMS90508191100-3	05/08/19 11:00	94.30		88.40		91	
CCV	ICPMS90508192052-2	05/08/19 20:52	102		102		98.60	
CCB	ICPMS90508192056-2	05/08/19 20:56	102		103		99.50	
CCVLL	ICPMS90508192104-3	05/08/19 21:04	105		103		101	
ICSA	ICPMS90508192115-2	05/08/19 21:15	99.90		89.50		92.80	
ICSAB	ICPMS90508192119-2	05/08/19 21:19	98.20		89		90.40	
CCV	ICPMS90508192221	05/08/19 22:21	100		98.80		98.30	
CCB	ICPMS90508192231	05/08/19 22:31	103		101		97.50	
CCV	ICPMS90508192304	05/08/19 23:04	105		103		102	
CCB	ICPMS90508192313	05/08/19 23:13	103		105		101	
CCVLL	ICPMS90508192318	05/08/19 23:18	105		103		103	
ICSA	ICPMS90508192322	05/08/19 23:22	100		89		90.40	
ICSAB	ICPMS90508192327	05/08/19 23:27	92.10		84.70		84.80	
OS	L1094844-01	05/08/19 21:49	102		94.20		91.20	
OS	L1095123-08	05/08/19 22:07	97.90		91.30		87.90	
WW-20190503-002 DAY 5	L1095644-01	05/08/19 22:45	104		90.90		94	
BLANK	R3409469-1	05/08/19 21:35	93.60		92.40		85.70	
LCS	R3409469-2	05/08/19 21:39	97.90		92.90		89	
LCSD	R3409469-3	05/08/19 21:44	96.70		94.90		90.60	
SD	R3409469-4	05/08/19 21:53	97.40		97.80		92.90	
MS	R3409469-5	05/08/19 21:58	98.10		92		88.50	
MSD	R3409469-6	05/08/19 22:02	99.10		92.20		88.20	
MS	R3409469-7	05/08/19 22:11	96.60		91.10		89.40	
MSD	R3409469-8	05/08/19 22:16	99		92		89.50	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	05/08/19 10:21
Instrument Run:	050819ICPMS9	**End Date:**	05/08/19 22:16

Client Sample ID	Lab Sample ID	Analysis Date Time	SCANDIUM (NO HE)		TELLURIUM		TELLURIUM (HIGH HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS90508191021-3	05/08/19 10:21	107		103		103	
ICB	ICPMS90508191027-3	05/08/19 10:27	106		102		102	
ICVLL	ICPMS90508191050-3	05/08/19 10:50	106		103		103	
ICSA	ICPMS90508191055-3	05/08/19 10:55	100		89.90		91.80	
ICSAB	ICPMS90508191100-3	05/08/19 11:00	96		86.40		90.10	
CCV	ICPMS90508192052-2	05/08/19 20:52	105		99.20		100	
CCB	ICPMS90508192056-2	05/08/19 20:56	106		98.60		101	
CCVLL	ICPMS90508192104-3	05/08/19 21:04	110		101		102	
ICSA	ICPMS90508192115-2	05/08/19 21:15	103		87.10		91.40	
ICSAB	ICPMS90508192119-2	05/08/19 21:19	101		82.70		88.40	
CCV	ICPMS90508192221	05/08/19 22:21	105		96.20		99.80	
CCB	ICPMS90508192231	05/08/19 22:31	107		94.50		99.60	
CCV	ICPMS90508192304	05/08/19 23:04	109		101		103	
CCB	ICPMS90508192313	05/08/19 23:13	109		97.70		102	
CCVLL	ICPMS90508192318	05/08/19 23:18	114		101		104	
ICSA	ICPMS90508192322	05/08/19 23:22	101		84.30		88.30	
ICSAB	ICPMS90508192327	05/08/19 23:27	95.60		78.10		85.10	
OS	L1094844-01	05/08/19 21:49	104		86.40		93.50	
OS	L1095123-08	05/08/19 22:07	98.50		85.80		93.30	
WW-20190503-002 DAY 5	L1095644-01	05/08/19 22:45	101		86.10		91.20	
BLANK	R3409469-1	05/08/19 21:35	101		82.90		93.10	
LCS	R3409469-2	05/08/19 21:39	97.20		88.10		95.30	
LCSD	R3409469-3	05/08/19 21:44	104		88.70		97	
SD	R3409469-4	05/08/19 21:53	102		89.20		95.40	
MS	R3409469-5	05/08/19 21:58	101		84.50		93.40	
MSD	R3409469-6	05/08/19 22:02	99.20		84.70		92.50	
MS	R3409469-7	05/08/19 22:11	100		86.80		94.80	
MSD	R3409469-8	05/08/19 22:16	98.20		87.30		95.20	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	05/08/19 10:21
Instrument Run:	050819ICPMS9	**End Date:**	05/08/19 22:16

Client Sample ID	Lab Sample ID	Analysis Date Time	TELLURIUM (NO HE)	
			% Rec.	Q
ICV	ICPMS90508191021-3	05/08/19 10:21	99.40	
ICB	ICPMS90508191027-3	05/08/19 10:27	99.10	
ICVLL	ICPMS90508191050-3	05/08/19 10:50	101	
ICSA	ICPMS90508191055-3	05/08/19 10:55	90.10	
ICSAB	ICPMS90508191100-3	05/08/19 11:00	86.60	
CCV	ICPMS90508192052-2	05/08/19 20:52	86.50	
CCB	ICPMS90508192056-2	05/08/19 20:56	86.10	
CCVLL	ICPMS90508192104-3	05/08/19 21:04	89.20	
ICSA	ICPMS90508192115-2	05/08/19 21:15	78.40	
ICSAB	ICPMS90508192119-2	05/08/19 21:19	76.10	
CCV	ICPMS90508192221	05/08/19 22:21	85.40	
CCB	ICPMS90508192231	05/08/19 22:31	85.40	
CCV	ICPMS90508192304	05/08/19 23:04	88.90	
CCB	ICPMS90508192313	05/08/19 23:13	89	
CCVLL	ICPMS90508192318	05/08/19 23:18	90	
ICSA	ICPMS90508192322	05/08/19 23:22	78.10	
ICSAB	ICPMS90508192327	05/08/19 23:27	73	
OS	L1094844-01	05/08/19 21:49	79.10	
OS	L1095123-08	05/08/19 22:07	77.50	
WW-20190503-002 DAY 5	L1095644-01	05/08/19 22:45	77.20	
BLANK	R3409469-1	05/08/19 21:35	74.80	
LCS	R3409469-2	05/08/19 21:39	79.60	
LCSD	R3409469-3	05/08/19 21:44	79.80	
SD	R3409469-4	05/08/19 21:53	80	
MS	R3409469-5	05/08/19 21:58	75.40	
MSD	R3409469-6	05/08/19 22:02	75.90	
MS	R3409469-7	05/08/19 22:11	78.10	
MSD	R3409469-8	05/08/19 22:16	78.40	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Start Date:**	05/09/19 02:18
Instrument Run:	050819ICPMS10	**End Date:**	05/09/19 03:59

Client Sample ID	Lab Sample ID	Analysis Date Time	BISMUTH (NO HE)		GERMANIUM		GERMANIUM (NO HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS100509190218	05/09/19 02:18	102		104		104	
ICB	ICPMS100509190235	05/09/19 02:35	98.80		100		100	
CCV	ICPMS100509190240	05/09/19 02:40	102		101		104	
CCB	ICPMS100509190244	05/09/19 02:44	102		105		101	
ICVLL	ICPMS100509190250	05/09/19 02:50	101		105		103	
ICSA	ICPMS100509190256	05/09/19 02:56	103		103		103	
ICSAB	ICPMS100509190301	05/09/19 03:01	104		104		103	
CCV	ICPMS100509190404	05/09/19 04:04	108		105		109	
CCB	ICPMS100509190408	05/09/19 04:08	105		104		106	
CCV	ICPMS100509190459	05/09/19 04:59	105		106		111	
CCB	ICPMS100509190503	05/09/19 05:03	103		105		108	
CCVLL	ICPMS100509190508	05/09/19 05:08	102		105		111	
ICSA	ICPMS100509190512	05/09/19 05:12	103		105		108	
ICSAB	ICPMS100509190517	05/09/19 05:17	106		108		107	
OS	L1094844-01	05/09/19 03:32	112		122		120	
OS	L1095123-08	05/09/19 03:50	107		116		119	
WW-20190503-002 DAY 5	L1095644-01	05/09/19 04:54	104				125	
BLANK	R3409566-1	05/09/19 03:18	111		106		109	
LCS	R3409566-2	05/09/19 03:23	108		110		109	
LCSD	R3409566-3	05/09/19 03:27	108		109		110	
SD	R3409566-4	05/09/19 03:36	109		104		105	
MS	R3409566-5	05/09/19 03:41	109		117		118	
MSD	R3409566-6	05/09/19 03:45	110		117		120	
MS	R3409566-7	05/09/19 03:55	108		114		117	
MSD	R3409566-8	05/09/19 03:59	108		119		120	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Start Date:**	05/09/19 02:18
Instrument Run:	050819ICPMS10	**End Date:**	05/09/19 03:59

Client Sample ID	Lab Sample ID	Analysis Date Time	RHODIUM		SCANDIUM		SCANDIUM (NO HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS100509190218	05/09/19 02:18	103		105		103	
ICB	ICPMS100509190235	05/09/19 02:35	99		101		95.40	
CCV	ICPMS100509190240	05/09/19 02:40	100		102		103	
CCB	ICPMS100509190244	05/09/19 02:44	102		104		105	
ICVLL	ICPMS100509190250	05/09/19 02:50	102		104		102	
ICSA	ICPMS100509190256	05/09/19 02:56	99.80		102		101	
ICSAB	ICPMS100509190301	05/09/19 03:01	100		102		99.10	
CCV	ICPMS100509190404	05/09/19 04:04	104		105		97.70	
CCB	ICPMS100509190408	05/09/19 04:08	103		103		99.40	
CCV	ICPMS100509190459	05/09/19 04:59	104		105		101	
CCB	ICPMS100509190503	05/09/19 05:03	104		107		95.80	
CCVLL	ICPMS100509190508	05/09/19 05:08	104		107		113	
ICSA	ICPMS100509190512	05/09/19 05:12	102		104		104	
ICSAB	ICPMS100509190517	05/09/19 05:17	102		104		98.90	
OS	L1094844-01	05/09/19 03:32	100		98.70		94.30	
OS	L1095123-08	05/09/19 03:50	101		101		96.40	
WW-20190503-002 DAY 5	L1095644-01	05/09/19 04:54	98.30		102		91.60	
BLANK	R3409566-1	05/09/19 03:18	98.80		94.80		93.50	
LCS	R3409566-2	05/09/19 03:23	99.90		96		92	
LCSD	R3409566-3	05/09/19 03:27	101		98		91.70	
SD	R3409566-4	05/09/19 03:36	101		98.90		99.10	
MS	R3409566-5	05/09/19 03:41	99.60		96.10		98.90	
MSD	R3409566-6	05/09/19 03:45	101		98.70		89.80	
MS	R3409566-7	05/09/19 03:55	105		104		99.50	
MSD	R3409566-8	05/09/19 03:59	104		103		100	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1095644	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Start Date:**	05/09/19 02:18
Instrument Run:	050819ICPMS10	**End Date:**	05/09/19 03:59

Client Sample ID	Lab Sample ID	Analysis Date Time	TELLURIUM		TELLURIUM (HIGH HE)		TELLURIUM (NO HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS100509190218	05/09/19 02:18	105		105		104	
ICB	ICPMS100509190235	05/09/19 02:35	100		99.90		99	
CCV	ICPMS100509190240	05/09/19 02:40	103		102		103	
CCB	ICPMS100509190244	05/09/19 02:44	102		101		101	
ICVLL	ICPMS100509190250	05/09/19 02:50	103		102		103	
ICSA	ICPMS100509190256	05/09/19 02:56	99		101		97.20	
ICSAB	ICPMS100509190301	05/09/19 03:01	99.50		101		98.60	
CCV	ICPMS100509190404	05/09/19 04:04	106		106		109	
CCB	ICPMS100509190408	05/09/19 04:08	105		104		104	
CCV	ICPMS100509190459	05/09/19 04:59	109		106		109	
CCB	ICPMS100509190503	05/09/19 05:03	109		103		105	
CCVLL	ICPMS100509190508	05/09/19 05:08	110		106		107	
ICSA	ICPMS100509190512	05/09/19 05:12	103		103		101	
ICSAB	ICPMS100509190517	05/09/19 05:17	103		103		103	
OS	L1094844-01	05/09/19 03:32	98.10		101		103	
OS	L1095123-08	05/09/19 03:50	102		107		104	
WW-20190503-002 DAY 5	L1095644-01	05/09/19 04:54	99.40		97.80		100	
BLANK	R3409566-1	05/09/19 03:18	95.90		100		99.90	
LCS	R3409566-2	05/09/19 03:23	99.60		104		104	
LCSD	R3409566-3	05/09/19 03:27	100		104		104	
SD	R3409566-4	05/09/19 03:36	99.60		102		102	
MS	R3409566-5	05/09/19 03:41	96.20		100		101	
MSD	R3409566-6	05/09/19 03:45	98.90		103		103	
MS	R3409566-7	05/09/19 03:55	106		109		108	
MSD	R3409566-8	05/09/19 03:59	106		108		108	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.0010	.000974166	97.40	0.0020	.002060455	103
COBALT	0.0010	.001031003	103	0.0020	.001998769	99.90
NICKEL	0.0010	.001042247	104	0.0020	.002088408	104
COPPER	0.0010	.000962295	96.20	0.0020	.00199173	99.60
ZINC	0.0010	.001052876	105	0.0020	.001968448	98.40
ARSENIC	0.0010	.000956915	95.70	0.0020	.002044877	102
SILVER	0.0010	.001017035	102	0.0020	.002022373	101
CADMIUM	0.0010	.000990674	99.10	0.0020	.001963209	98.20
TIN	0.0010	.000968152	96.80	0.0020	.001894924	94.70
ANTIMONY	0.0010	.000879773	88	0.0020	.001811101	90.60
THALLIUM	0.0010	.000910934	91.10	0.0020	.001903501	95.20
File ID:		20190508094143			20190508094618	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.01	.01022797	102	0.05	.05092357	102
COBALT	0.01	.01019273	102	0.05	.04897601	98
NICKEL	0.01	.01017249	102	0.05	.05089188	102
COPPER	0.01	.00995121	99.50	0.05	.04951985	99
ZINC	0.01	.00961047	96.10	0.05	.04796446	95.90
ARSENIC	0.01	.01010928	101	0.05	.04924635	98.50
SILVER	0.01	.01030102	103	0.05	.05235229	105
CADMIUM	0.01	.009960714	99.60	0.05	.04935626	98.70
TIN	0.01	.009558426	95.60	0.05	.04992388	99.80
ANTIMONY	0.01	.009098092	91	0.05	.050788	102
THALLIUM	0.01	.009866948	98.70	0.05	.04717499	94.30
File ID:		20190508095054			20190508095530	

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INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.10	.1014251	101	0.20	.1990447	99.50
COBALT	0.10	.1008262	101	0.20	.1998331	99.90
NICKEL	0.10	.1027227	103	0.20	.198406	99.20
COPPER	0.10	.1008126	101	0.20	.1997165	99.90
ZINC	0.10	.1014631	101	0.20	.1997969	99.90
ARSENIC	0.10	.1015307	102	0.20	.1994174	99.70
SILVER	0.10	.1040532	104	0.20	.19737	98.70
CADMIUM	0.10	.1021179	102	0.20	.1991044	99.60
TIN	0.10	.09822471	98.20	0.20	.20093	100
ANTIMONY	0.10	.09816047	98.20	0.20	.2007704	100
THALLIUM	0.10	.09983364	99.80	0.20	.2007975	100
File ID:		20190508100005			20190508100441	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.0010	.001057981	106	0.0020	.002081995	104
File ID:		20190508094143			20190508094618	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.01	.00935812	93.60	0.05	.04795801	95.90
File ID:		20190508095054			20190508095530	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.10	.09992927	99.90	0.20	.2005768	100
File ID:		20190508100005			20190508100441	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
LEAD	0.0010	.00098195	98.20	0.0020	.001944463	97.20
File ID:		20190508094143			20190508094618	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
LEAD	0.01	.009761282	97.60	0.05	.04856558	97.10
File ID:		20190508095054			20190508095530	

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INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
LEAD	0.10	.100497	100	0.20	.2001227	100
File ID:		20190508100005			20190508100441	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.0010	.001019559	102	0.0020	.002019543	101
COBALT	0.0010	.001026793	103	0.0020	.002012905	101
NICKEL	0.0010	.000981689	98.20	0.0020	.00194615	97.30
COPPER	0.0010	.001036969	104	0.0020	.002113284	106
ZINC	0.0010	.001062245	106	0.0020	.001991861	99.60
ARSENIC	0.0010	.001023905	102	0.0020	.001996092	99.80
SILVER	0.0010	.001073142	107	0.0020	.002012557	101
CADMIUM	0.0010	.001000927	100	0.0020	.002057287	103
TIN	0.0010	.001055878	106	0.0020	.002019148	101
ANTIMONY	0.0010	.000929525	93	0.0020	.001988138	99.40
THALLIUM	0.0010	.001018428	102	0.0020	.002018644	101
LEAD	0.0010	.00098092	98.10	0.0020	.002060894	103
File ID:		20190509015053			20190509015528	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.01	.009972124	99.70	0.05	.04854556	97.10
COBALT	0.01	.009842798	98.40	0.05	.04879309	97.60
NICKEL	0.01	.009812511	98.10	0.05	.04879924	97.60
COPPER	0.01	.009937674	99.40	0.05	.05065487	101
ZINC	0.01	.009742783	97.40	0.05	.04801686	96
ARSENIC	0.01	.009723909	97.20	0.05	.04931348	98.60
SILVER	0.01	.009781727	97.80	0.05	.05059589	101
CADMIUM	0.01	.00992741	99.30	0.05	.04952385	99
TIN	0.01	.009698652	97	0.05	.05066303	101
ANTIMONY	0.01	.009609074	96.10	0.05	.05073822	101
THALLIUM	0.01	.009798292	98	0.05	.04975514	99.50
LEAD	0.01	.01001719	100	0.05	.04985341	99.70
File ID:		20190509020003			20190509020438	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.10	.1009473	101	0.20	.1998911	99.90
COBALT	0.10	.1013945	101	0.20	.1996121	99.80
NICKEL	0.10	.101292	101	0.20	.1996642	99.80
COPPER	0.10	.1007737	101	0.20	.1994512	99.70
ZINC	0.10	.1027566	103	0.20	.1991301	99.60
ARSENIC	0.10	.1010704	101	0.20	.1996502	99.80
SILVER	0.10	.1016208	102	0.20	.199051	99.50
CADMIUM	0.10	.1016283	102	0.20	.1993079	99.70
TIN	0.10	.1009511	101	0.20	.1993733	99.70
ANTIMONY	0.10	.1028663	103	0.20	.1984023	99.20
THALLIUM	0.10	.1005361	101	0.20	.199803	99.90
LEAD	0.10	.1011005	101	0.20	.199485	99.70
File ID:		20190509020914			20190509021350	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.0010	.000756905	75.70	0.0020	.001956735	97.80
File ID:		20190509015053			20190509015528	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.01	.009089352	90.90	0.05	.04914436	98.30
File ID:		20190509020003			20190509020438	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.10	.1024161	102	0.20	.199053	99.50
File ID:		20190509020914			20190509021350	

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
CHROMIUM	52	8	5	0.999952	149.6566	0.28489
COBALT	59	8	5	0.999974	254.8465	0.004806
NICKEL	60	8	5	0.999857	72.94557	0.023907
COPPER	63	8	5	0.999986	51.19773	0.050856
ZINC	66	8	5	0.999909	28.49032	0.036755
ARSENIC	75	8	5	0.999952	21.38336	0.001078
SILVER	107	8	5	0.999622	9.374037	0.000104
CADMIUM	111	8	5	0.999916	7.566178	0.00006
TIN	118	8	5	0.999945	1.742208	0.00026
ANTIMONY	121	8	5	0.999927	2.29009	0.000839
THALLIUM	205	8	5	0.999893	1.696471	0.000052

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
LEAD	208	8	5	0.999969	1.218893	0.000074

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 09:41
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/08/19 10:04
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS9

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
SELENIUM	78	8	5	0.999941	0.176432	0.000011

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
CHROMIUM	52	8	5	0.999957	134.1774	0.043169
COBALT	59	8	5	0.999947	215.08	0.004894
NICKEL	60	8	5	0.999953	56.55532	0.009655
COPPER	63	8	5	0.999983	46.69968	0.008225
ZINC	66	8	5	0.999818	22.46709	0.01648
ARSENIC	75	8	5	0.999973	18.23733	0.001071
SILVER	107	8	5	0.999946	10.09282	0.002808
CADMIUM	111	8	5	0.999951	1.294867	0.000032
TIN	118	8	5	0.999975	2.899627	0.000353
ANTIMONY	121	8	5	0.999837	3.358663	0.00027
THALLIUM	205	8	5	0.999994	2.045588	0.000028
LEAD	208	8	5	0.999979	1.468645	0.000136

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/09/19 01:50
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/09/19 02:13
Analytical Method:	200.8	**Analytical Run:**	050819ICPMS10

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
SELENIUM	78	8	5	0.999878	0.155753	0.000054

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

245.1 Mercury

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190512144158	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	CVAA5	**Preparation Date/Time:**	05/12/19 08:30
Analytical Batch:	WG1279318	**Analysis Date/Time:**	05/12/19 14:41
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	U		0.0000490	0.000200	0.000200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3410474-1

Lab Sample ID:	R3410474-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190512141959	**Received Date/Time:**	_____
Instrument ID:	CVAA5	**Preparation Date/Time:**	05/12/19 08:30
Analytical Batch:	WG1279318	**Analysis Date/Time:**	05/12/19 14:19
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	U		0.0000490	0.0002	0.000200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3410474-2

Lab Sample ID:	R3410474-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190512142946	**Received Date/Time:**	_____
Instrument ID:	CVAA5	**Preparation Date/Time:**	05/12/19 08:30
Analytical Batch:	WG1279318	**Analysis Date/Time:**	05/12/19 14:29
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	0.00276		0.0000490	0.0002	0.000200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3410474-3

Lab Sample ID:	R3410474-3	**SDG:**	L1095644
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	20190512143212	**Received Date/Time:**	_____
Instrument ID:	CVAA5	**Preparation Date/Time:**	05/12/19 08:30
Analytical Batch:	WG1279318	**Analysis Date/Time:**	05/12/19 14:32
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	0.00294		0.0000490	0.0002	0.000200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3410474-4

Lab Sample ID:	R3410474-4	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/02/19 14:10
Lab File ID:	20190512143705	**Received Date/Time:**	05/06/19 08:00
Instrument ID:	CVAA5	**Preparation Date/Time:**	05/12/19 08:30
Analytical Batch:	WG1279318	**Analysis Date/Time:**	05/12/19 14:37
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	0.00348		0.0000490	0.0002	0.000200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3410474-5

Lab Sample ID:	R3410474-5	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/02/19 14:10
Lab File ID:	20190512143931	**Received Date/Time:**	05/06/19 08:00
Instrument ID:	CVAA5	**Preparation Date/Time:**	05/12/19 08:30
Analytical Batch:	WG1279318	**Analysis Date/Time:**	05/12/19 14:39
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	0.00342		0.0000490	0.0002	0.000200

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/12/19 10:22
Instrument ID:	CVAA5	**Calibration (end) date/time:**	05/12/19 10:34
Analytical Method:	245.1	**Analytical Run:**	051219CVAA5 WB
Concentration Units:	mg/l		

	ICV				**ICVLL**				**CCVLL**			
Sample ID:	CVAA50512191117-2				CVAA50512191126-2				CVAA50512191257-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0030	0.0030217	101	0.519000	0.0002	0.0002001	100	0.758000	0.0002	0.0001965	98.30	0.616000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/12/19 10:22
Instrument ID:	CVAA5	**Calibration (end) date/time:**	05/12/19 10:34
Analytical Method:	245.1	**Analytical Run:**	051219CVAA5 WB
Concentration Units:	mg/l		

	CCV				**CCV**				**CCVLL**			
Sample ID:	CVAA50512191353-2				CVAA50512191422-2				CVAA50512191427-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0025	0.0025208	101	0.977000	0.0025	0.0025374	101	0.691000	0.0002	0.0001920	96	0.306000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/12/19 10:22
Instrument ID:	CVAA5	**Calibration (end) date/time:**	05/12/19 10:34
Analytical Method:	245.1	**Analytical Run:**	051219CVAA5 WB
Concentration Units:	mg/l		

	CCV				**CCVLL**			
Sample ID:	CVAA50512191454				CVAA50512191557			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0025	0.0025391	102	0.665000	0.0002	0.0001966	98.30	0.729000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/12/19 10:22
Instrument ID:	CVAA5	**Calibration (end) date/time:**	05/12/19 10:34
Analytical Method:	245.1	**Analytical Run:**	051219CVAA5 WB

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20190512111935-2		20190512135535-2		20190512141959		20190512142452-2	
Analyte	mg/l		mg/l		mg/l		mg/l	
MERCURY	-0.00004040	U	-0.00003500	U	U		-0.00002910	U

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/12/19 10:22
Instrument ID:	CVAA5	**Calibration (end) date/time:**	05/12/19 10:34
Analytical Method:	245.1	**Analytical Run:**	051219CVAA5 WB

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20190512145636	
Analyte	mg/l	
MERCURY	-0.00003450	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3410474-4
R3410474-5

MS Sample / File ID:	R3410474-4 / 20190512143705	**SDG:**	L1095644
MSD Sample / File ID:	R3410474-5 / 20190512143931	**Analytical Batch:**	WG1279318
OS Sample / File ID:	L1095642-01 / 20190512143439	**Matrix:**	WW
Instrument ID:	CVAA5		
Analytical Method:	245.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Mercury	0.00300	U	0.00348	0.00342	116	114	1	70.0 - 130	1.75	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3410474-2
R3410474-3

LCS Sample / File ID:	R3410474-2 / 20190512142946	**SDG:**	L1095644
LCSD Sample / File ID:	R3410474-3 / 20190512143212	**Analytical Batch:**	WG1279318
Instrument ID:	CVAA5	**Dilution Factor:**	1
Analytical Method:	245.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Mercury	0.00300	0.00276	0.00294	92.0	98.0	85.0 - 115	6.29	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1095644	**Analytical Method:**	245.1
Instrument ID:	CVAA5	**Date:**	01/19/17 08:54

Analyte	LDR
	ppm
MERCURY	0.01

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	245.1
Instrument ID:	CVAA5	**Calibration Start Date:**	05/12/19 10:22
Analytical Run:	051219CVAA5 WB	**Calibration End Date:**	05/12/19 10:34

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA50512191020	20190512102014	05/12/19 10:20	1	
CAL	STD1	20190512102241	05/12/19 10:22	1	
CAL	STD2	20190512102508	05/12/19 10:25	1	
CAL	STD3	20190512102734	05/12/19 10:27	1	
CAL	STD4	20190512102959	05/12/19 10:29	1	
CAL	STD5	20190512103224	05/12/19 10:32	1	
CAL	STD6	20190512103449	05/12/19 10:34	1	
ICV	CVAA50512191117-2	20190512111708-2	05/12/19 11:17	1	
ICB	CVAA50512191119-2	20190512111935-2	05/12/19 11:19	1	
ICVLL	CVAA50512191126-2	20190512112656-2	05/12/19 11:26	1	
CCVLL	CVAA50512191257-2	20190512125701-2	05/12/19 12:57	1	
CCV	CVAA50512191353-2	20190512135309-2	05/12/19 13:53	1	
CCB	CVAA50512191355-2	20190512135535-2	05/12/19 13:55	1	
BLANK	R3410474-1	20190512141959	05/12/19 14:19	1	WG1279318
CCV	CVAA50512191422-2	20190512142227-2	05/12/19 14:22	1	
CCB	CVAA50512191424-2	20190512142452-2	05/12/19 14:24	1	
CCVLL	CVAA50512191427-2	20190512142720-2	05/12/19 14:27	1	
LCS	R3410474-2	20190512142946	05/12/19 14:29	1	WG1279318
LCSD	R3410474-3	20190512143212	05/12/19 14:32	1	WG1279318
OS	L1095642-01	20190512143439	05/12/19 14:34	1	WG1279318
MS	R3410474-4	20190512143705	05/12/19 14:37	1	WG1279318
MSD	R3410474-5	20190512143931	05/12/19 14:39	1	WG1279318
WW-20190503-002 DAY 5	L1095644-01	20190512144158	05/12/19 14:41	1	WG1279318
CCV	CVAA50512191454	20190512145410	05/12/19 14:54	1	
CCB	CVAA50512191456	20190512145636	05/12/19 14:56	1	
CCVLL	CVAA50512191557	20190512155746	05/12/19 15:57	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/12/19 10:22
Instrument ID:	CVAA5	**Calibration (end) date/time:**	05/12/19 10:34
Analytical Method:	245.1	**Analytical Run:**	051219CVAA5 WB

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	PPB	PPB	%	PPB	PPB	%
MERCURY	0.20	.198534914	99.30	0.40	.38827332	97.10
File ID:		20190512102241			20190512102508	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/12/19 10:22
Instrument ID:	CVAA5	**Calibration (end) date/time:**	05/12/19 10:34
Analytical Method:	245.1	**Analytical Run:**	051219CVAA5 WB

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	PPB	PPB	%	PPB	PPB	%
MERCURY	1	.953394745	95.30	2	2.01333115	101
File ID:		20190512102734			20190512102959	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/12/19 10:22
Instrument ID:	CVAA5	**Calibration (end) date/time:**	05/12/19 10:34
Analytical Method:	245.1	**Analytical Run:**	051219CVAA5 WB

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	PPB	PPB	%	PPB	PPB	%
MERCURY	5	5.118562136	102	10	9.941228281	99.40
File ID:		20190512103224			20190512103449	

16A-IN

INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/12/19 10:22
Instrument ID:	CVAA5	**Calibration (end) date/time:**	05/12/19 10:34
Analytical Method:	245.1	**Analytical Run:**	051219CVAA5 WB

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999875	0.000178	-0.060264

Calibration Type

0 = Linear Regression

Weightage

5 = None

2540 C-2011 Gravimetric Analysis

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	07	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/08/19 10:19
Analytical Batch:	WG1276940	**Analysis Date/Time:**	05/08/19 10:45
Dilution Factor:	1	**Prep Method:**	SM 2540 C
Analytical Method:	2540 C-2011	**Sample Vol Used:**	20 ml
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	DSOLIDS	1990		14.1	50.0	50.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409834-1

Lab Sample ID:	R3409834-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/08/19 10:09
Analytical Batch:	WG1276940	**Analysis Date/Time:**	05/08/19 10:45
Dilution Factor:	1	**Prep Method:**	SM 2540 C
Analytical Method:	2540 C-2011	**Sample Vol Used:**	100 ml
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	DSOLIDS	U		2.82	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409834-3

Lab Sample ID:	R3409834-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	04/29/19 12:25
Lab File ID:	02	**Received Date/Time:**	04/30/19 08:45
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/08/19 10:19
Analytical Batch:	WG1276940	**Analysis Date/Time:**	05/08/19 10:45
Dilution Factor:	1	**Prep Method:**	SM 2540 C
Analytical Method:	2540 C-2011	**Sample Vol Used:**	100 ml
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	DSOLIDS	100	J3	2.82	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409834-2

Lab Sample ID:	R3409834-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/08/19 10:09
Analytical Batch:	WG1276940	**Analysis Date/Time:**	05/08/19 10:45
Dilution Factor:	1	**Prep Method:**	SM 2540 C
Analytical Method:	2540 C-2011	**Sample Vol Used:**	10 ml
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	DSOLIDS	8500		28.2	100	100

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	_____
Instrument ID:	WETBAL10	**Calibration (end) date/time:**	_____
Analytical Method:	2540 C-2011	**Analytical Run:**	WG1276940

Sample ID:	**BLANK Result**	**BLANK Qual**
File ID:	01	
Analyte	mg/l	
DISSOLVED SOLIDS	U	

6-IN

DUPLICATES
L1095644-01

SAMPLE NO.:
R3409834-3

DUP Sample / File ID:	R3409834-3 / 02	**SDG:**	L1095644
OS Sample / File ID:	L1093616-01 / 04	**Analytical Batch:**	WG1276940
Instrument ID:	WETBAL10	**Dilution Factor:**	1
Analytical Method:	2540 C-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	333	100	108*	5

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409834-2

LCS Sample / File ID:	R3409834-2 / 03	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1276940
Instrument ID:	WETBAL10	**Dilution Factor:**	1
Analytical Method:	2540 C-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Dissolved Solids	8800	8500		96.6		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	2540 C-2011
Instrument ID:	WETBAL10	**Calibration Start Date:**	_____
Analytical Run:	WG1276940	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3409834-1	01	05/08/19 10:45	1	WG1276940
DUP	R3409834-3	02	05/08/19 10:45	1	WG1276940
LCS	R3409834-2	03	05/08/19 10:45	1	WG1276940
OS	L1093616-01	04	05/08/19 10:45	1	WG1276940
WW-20190503-002 DAY 5	L1095644-01	07	05/08/19 10:45	1	WG1276940

2540 D-2011 Gravimetric Analysis

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	08	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/08/19 08:31
Analytical Batch:	WG1277293	**Analysis Date/Time:**	05/08/19 09:28
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	1000 ml
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Suspended Solids	SSOLIDS	3.70		0.350	2.50	2.50

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409366-1

Lab Sample ID:	R3409366-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/08/19 08:31
Analytical Batch:	WG1277293	**Analysis Date/Time:**	05/08/19 09:28
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	1000 ml
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Suspended Solids	SSOLIDS	U		0.350	2.50	2.50

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409366-3

Lab Sample ID:	R3409366-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	04/26/19 08:20
Lab File ID:	02	**Received Date/Time:**	04/26/19 14:26
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/08/19 08:31
Analytical Batch:	WG1277293	**Analysis Date/Time:**	05/08/19 09:28
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	200 ml
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Suspended Solids	SSOLIDS	36.0	P1	1.75	12.50	12.5

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409366-2

Lab Sample ID:	R3409366-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/08/19 08:31
Analytical Batch:	WG1277293	**Analysis Date/Time:**	05/08/19 09:28
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	25 ml
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Suspended Solids	SSOLIDS	780		14.0	100	100

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	_____
Instrument ID:	WETBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 D-2011	**Analytical Run:**	WG1277293

Sample ID:	**BLANK Result**	**BLANK Qual**
File ID:	01	
Analyte	mg/l	
SUSPENDED SOLIDS	U	

6-IN

DUPLICATES
L1095644-01

SAMPLE NO.:
R3409366-3

DUP Sample / File ID:	R3409366-3 / 02	**SDG:**	L1095644
OS Sample / File ID:	L1093133-01 / 04	**Analytical Batch:**	WG1277293
Instrument ID:	WETBAL3	**Dilution Factor:**	1
Analytical Method:	2540 D-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Suspended Solids	33.0	36.0	8.70*	5

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409366-2

LCS Sample / File ID:	R3409366-2 / 03	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277293
Instrument ID:	WETBAL3	**Dilution Factor:**	1
Analytical Method:	2540 D-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Suspended Solids	773	780		101		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	2540 D-2011
Instrument ID:	WETBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG1277293	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3409366-1	01	05/08/19 09:28	1	WG1277293
DUP	R3409366-3	02	05/08/19 09:28	1	WG1277293
LCS	R3409366-2	03	05/08/19 09:28	1	WG1277293
OS	L1093133-01	04	05/08/19 09:28	1	WG1277293
WW-20190503-002 DAY 5	L1095644-01	08	05/08/19 09:28	1	WG1277293

300.0 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	54.0000.TXT	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	IC-10	**Preparation Date/Time:**	05/09/19 01:53
Analytical Batch:	WG1277005	**Analysis Date/Time:**	05/09/19 01:53
Dilution Factor:	10	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	501		0.519	1.00	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409516-1

Lab Sample ID:	R3409516-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	10.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-10	**Preparation Date/Time:**	05/08/19 14:59
Analytical Batch:	WG1277005	**Analysis Date/Time:**	05/08/19 14:59
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	U		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409516-2

Lab Sample ID:	R3409516-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	11.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-10	**Preparation Date/Time:**	05/08/19 15:13
Analytical Batch:	WG1277005	**Analysis Date/Time:**	05/08/19 15:13
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	39.6		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409516-3

Lab Sample ID:	R3409516-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/02/19 11:00
Lab File ID:	17.0000.TXT	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	IC-10	**Preparation Date/Time:**	05/08/19 17:00
Analytical Batch:	WG1277005	**Analysis Date/Time:**	05/08/19 17:00
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	8.99		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409516-7

Lab Sample ID:	R3409516-7	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/02/19 14:10
Lab File ID:	53.0000.TXT	**Received Date/Time:**	05/06/19 08:00
Instrument ID:	IC-10	**Preparation Date/Time:**	05/09/19 01:39
Analytical Batch:	WG1277005	**Analysis Date/Time:**	05/09/19 01:39
Dilution Factor:	10	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	480		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409516-4

Lab Sample ID:	R3409516-4	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/02/19 11:00
Lab File ID:	18.0000.TXT	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	IC-10	**Preparation Date/Time:**	05/08/19 17:14
Analytical Batch:	WG1277005	**Analysis Date/Time:**	05/08/19 17:14
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	58.6		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409516-6

Lab Sample ID:	R3409516-6	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/02/19 08:00
Lab File ID:	49.0000.TXT	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	IC-10	**Preparation Date/Time:**	05/09/19 00:41
Analytical Batch:	WG1277005	**Analysis Date/Time:**	05/09/19 00:41
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	65.0		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409516-5

Lab Sample ID:	R3409516-5	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/02/19 11:00
Lab File ID:	19.0000.TXT	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	IC-10	**Preparation Date/Time:**	05/08/19 17:29
Analytical Batch:	WG1277005	**Analysis Date/Time:**	05/08/19 17:29
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	58.6		0.0519	1	1.00

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/04/19 11:33
Instrument ID:	IC-10	**Calibration (end) date/time:**	05/04/19 12:45
Analytical Method:	300.0	**Analytical Run:**	050819
Concentration Units:	mg/l		

	ICV				**CCV**				**CCV**			
Sample ID:	IC-100508191445				IC-100508191758				IC-100508192343			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHLORIDE	50	48.7691	97.50		50	48.9465	97.90		50	48.9033	97.80	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/04/19 11:33
Instrument ID:	IC-10	**Calibration (end) date/time:**	05/04/19 12:45
Analytical Method:	300.0	**Analytical Run:**	050819
Concentration Units:	mg/l		

CCV

Sample ID: IC-100509190236

Analyte	True	Found	%R	%RSD
CHLORIDE	50	48.9842	98	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/04/19 11:33
Instrument ID:	IC-10	**Calibration (end) date/time:**	05/04/19 12:45
Analytical Method:	300.0	**Analytical Run:**	050819

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	10.0000.TXT		22.0000.TXT		46.0000.TXT		58.0000.TXT	
Analyte	mg/l		mg/l		mg/l		mg/l	
CHLORIDE	U		0.0000	U	0.0000	U	0.0000	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409516-4
R3409516-5

MS Sample / File ID:	R3409516-4 / 18.0000.TXT	**SDG:**	L1095644
MSD Sample / File ID:	R3409516-5 / 19.0000.TXT	**Analytical Batch:**	WG1277005
OS Sample / File ID:	L1094935-01 / 16.0000.TXT	**Matrix:**	WW
Instrument ID:	IC-10		
Analytical Method:	300.0		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Chloride	50.0	9.01	58.6	58.6	99.1	99.2	1	80.0 - 120	0.0596	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409516-6

MS Sample / File ID:	R3409516-6 / 49.0000.TXT	**SDG:**	L1095644
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1277005
OS Sample / File ID:	L1095167-11 / 48.0000.TXT	**Matrix:**	WW
Instrument ID:	IC-10		
Analytical Method:	300.0		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Chloride	50.0	16.2	65.0		97.5		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1095644-01

SAMPLE NO.:
R3409516-3

DUP Sample / File ID:	R3409516-3 / 17.0000.TXT	**SDG:**	L1095644
OS Sample / File ID:	L1094935-01 / 16.0000.TXT	**Analytical Batch:**	WG1277005
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	300.0	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Chloride	9.01	8.99	0.189	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES
L1095644-01

SAMPLE NO.:
R3409516-7

DUP Sample / File ID:	R3409516-7 / 53.0000.TXT	**SDG:**	L1095644
OS Sample / File ID:	L1095642-01 / 52.0000.TXT	**Analytical Batch:**	WG1277005
Instrument ID:	IC-10	**Dilution Factor:**	10
Analytical Method:	300.0	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Chloride	462	480	3.72	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409516-2

LCS Sample / File ID:	R3409516-2 / 11.0000.TXT	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277005
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	300.0	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Chloride	40.0	39.6		99.0		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	300.0
Instrument ID:	IC-10	**Calibration Start Date:**	05/04/19 11:33
Analytical Run:	050419	**Calibration End Date:**	05/04/19 12:45

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	STD 1	02.0000.TXT	05/04/19 11:33	1	
CAL	STD 2	03.0000.TXT	05/04/19 11:47	1	
CAL	STD 3	04.0000.TXT	05/04/19 12:02	1	
CAL	STD 4	05.0000.TXT	05/04/19 12:16	1	
CAL	STD 5	06.0000.TXT	05/04/19 12:31	1	
CAL	STD 6	07.0000.TXT	05/04/19 12:45	1	

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	300.0
Instrument ID:	IC-10	**Calibration Start Date:**	05/04/19 11:33
Analytical Run:	050819	**Calibration End Date:**	05/04/19 12:45

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	IC-100508191445	09.0000.TXT	05/08/19 14:45	1	
BLANK	R3409516-1	10.0000.TXT	05/08/19 14:59	1	WG1277005
LCS	R3409516-2	11.0000.TXT	05/08/19 15:13	1	WG1277005
RL	IC-100508191528	12.0000.TXT	05/08/19 15:28	1	
OS	L1094935-01	16.0000.TXT	05/08/19 16:46	1	WG1277005
DUP	R3409516-3	17.0000.TXT	05/08/19 17:00	1	WG1277005
MS	R3409516-4	18.0000.TXT	05/08/19 17:14	1	WG1277005
MSD	R3409516-5	19.0000.TXT	05/08/19 17:29	1	WG1277005
CCV	IC-100508191758	21.0000.TXT	05/08/19 17:58	1	
CCB	IC-100508191812	22.0000.TXT	05/08/19 18:12	1	
CCV	IC-100508192343	45.0000.TXT	05/08/19 23:43	1	
CCB	IC-100508192358	46.0000.TXT	05/08/19 23:58	1	
OS	L1095167-11	48.0000.TXT	05/09/19 00:27	1	WG1277005
MS	R3409516-6	49.0000.TXT	05/09/19 00:41	1	WG1277005
OS	L1095642-01	52.0000.TXT	05/09/19 01:24	10	WG1277005
DUP	R3409516-7	53.0000.TXT	05/09/19 01:39	10	WG1277005
WW-20190503-002 DAY 5	L1095644-01	54.0000.TXT	05/09/19 01:53	10	WG1277005
CCV	IC-100509190236	57.0000.TXT	05/09/19 02:36	1	
CCB	IC-100509190251	58.0000.TXT	05/09/19 02:51	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/04/19 11:33
Instrument ID:	IC-10	**Calibration (end) date/time:**	05/04/19 12:45
Analytical Method:	300.0	**Analytical Run:**	050819

Analyte	**Std Conc**	**Result**	**Rec.** %	**Std Conc**	**Result**	**Rec.** %
CHLORIDE	1	1.0108	101	5	4.932	98.60
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/04/19 11:33
Instrument ID:	IC-10	**Calibration (end) date/time:**	05/04/19 12:45
Analytical Method:	300.0	**Analytical Run:**	050819

Analyte	**Std Conc**	**Result**	**Rec.** %	**Std Conc**	**Result**	**Rec.** %
CHLORIDE	10	9.8726	98.70	25	25.3999	102
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/04/19 11:33
Instrument ID:	IC-10	**Calibration (end) date/time:**	05/04/19 12:45
Analytical Method:	300.0	**Analytical Run:**	050819

Analyte	**Std Conc**	**Result**	**Rec.** %	**Std Conc**	**Result**	**Rec.** %
CHLORIDE	50	50.1724	100	100	99.6123	99.60
File ID:		06.0000.TXT			07.0000.TXT	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/04/19 11:33
Instrument ID:	IC-10	**Calibration (end) date/time:**	05/04/19 12:45
Analytical Method:	300.0	**Analytical Run:**	050819

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHLORIDE	5	1	0.99997			0.081	0.007	2.472

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

350.1 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190508082000	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/08/19 08:20
Analytical Batch:	WG1277364	**Analysis Date/Time:**	05/08/19 08:20
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	0.0600	J	0.0317	0.100	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409234-1

Lab Sample ID:	R3409234-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20190508072900	**Received Date/Time:**	
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/08/19 07:29
Analytical Batch:	WG1277364	**Analysis Date/Time:**	05/08/19 07:29
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	U		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409234-2

Lab Sample ID:	R3409234-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20190508073100	**Received Date/Time:**	
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/08/19 07:31
Analytical Batch:	WG1277364	**Analysis Date/Time:**	05/08/19 07:31
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	7.54		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409234-3

Lab Sample ID:	R3409234-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/03/19 12:30
Lab File ID:	20190508073400	**Received Date/Time:**	05/04/19 08:45
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/08/19 07:34
Analytical Batch:	WG1277364	**Analysis Date/Time:**	05/08/19 07:34
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	0.000		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409234-6

Lab Sample ID:	R3409234-6	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/01/19 09:50
Lab File ID:	20190508080000	**Received Date/Time:**	05/02/19 15:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/08/19 08:00
Analytical Batch:	WG1277364	**Analysis Date/Time:**	05/08/19 08:00
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	0.405		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409234-4

Lab Sample ID:	R3409234-4	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/02/19 10:45
Lab File ID:	20190508073700	**Received Date/Time:**	05/02/19 13:18
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/08/19 07:37
Analytical Batch:	WG1277364	**Analysis Date/Time:**	05/08/19 07:37
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	6.26		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409234-7

Lab Sample ID:	R3409234-7	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/01/19 09:00
Lab File ID:	20190508080300	**Received Date/Time:**	05/02/19 15:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/08/19 08:03
Analytical Batch:	WG1277364	**Analysis Date/Time:**	05/08/19 08:03
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	5.03		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409234-5

Lab Sample ID:	R3409234-5	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/02/19 10:45
Lab File ID:	20190508073900	**Received Date/Time:**	05/02/19 13:18
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/08/19 07:39
Analytical Batch:	WG1277364	**Analysis Date/Time:**	05/08/19 07:39
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	6.43		0.0317	0.10	0.100

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 06:37
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/07/19 06:45
Analytical Method:	350.1	**Analytical Run:**	050819_1
Concentration Units:	mg/l		

	ICV				**CCV**				**CCV**			
Sample ID:	FS3100-010508190728				FS3100-010508190745				FS3100-010508190806			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
AMMONIA NITROGEN	5	4.995	99.90		5	4.918	98.40		5	4.999	100	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 06:37
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/07/19 06:45
Analytical Method:	350.1	**Analytical Run:**	050819_1
Concentration Units:	mg/l		

CCV

Sample ID: FS3100-010508190822

Analyte	True	Found	%R	%RSD
AMMONIA NITROGEN	5	5.062	101	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 06:37
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/07/19 06:45
Analytical Method:	350.1	**Analytical Run:**	050819_1

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190508072900		20190508074700		20190508080700		20190508082300	
Analyte	mg/l		mg/l		mg/l		mg/l	
AMMONIA NITROGEN	U		-0.03300		-0.03600		-0.03700	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409234-4
R3409234-5

MS Sample / File ID:	R3409234-4 / 20190508073700	**SDG:**	L1095644
MSD Sample / File ID:	R3409234-5 / 20190508073900	**Analytical Batch:**	WG1277364
OS Sample / File ID:	L1094617-01 / 20190508073600	**Matrix:**	WW
Instrument ID:	FS3100-01		
Analytical Method:	350.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Ammonia Nitrogen	5.00	1.14	6.26	6.43	102	106	1	90.0 - 110	2.62	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409234-7

MS Sample / File ID:	R3409234-7 / 20190508080300	**SDG:**	L1095644
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1277364
OS Sample / File ID:	L1094764-07 / 20190508080100	**Matrix:**	WW
Instrument ID:	FS3100-01		
Analytical Method:	350.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Ammonia Nitrogen	5.00	ND	5.03		101		1	90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1095644-01

SAMPLE NO.:
R3409234-3

DUP Sample / File ID:	R3409234-3 / 20190508073400	**SDG:**	L1095644
OS Sample / File ID:	L1093570-03 / 20190508073300	**Analytical Batch:**	WG1277364
Instrument ID:	FS3100-01	**Dilution Factor:**	1
Analytical Method:	350.1	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	ND	0.000	0.000	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1095644-01

SAMPLE NO.:
R3409234-6

DUP Sample / File ID:	R3409234-6 / 20190508080000	**SDG:**	L1095644
OS Sample / File ID:	L1094764-06 / 20190508075800	**Analytical Batch:**	WG1277364
Instrument ID:	FS3100-01	**Dilution Factor:**	1
Analytical Method:	350.1	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	0.405	0.405	0.000	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409234-2

LCS Sample / File ID:	R3409234-2 / 20190508073100	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277364
Instrument ID:	FS3100-01	**Dilution Factor:**	1
Analytical Method:	350.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Ammonia Nitrogen	7.50	7.54		101		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	350.1
Instrument ID:	FS3100-01	**Calibration Start Date:**	05/07/19 06:37
Analytical Run:	050719_1	**Calibration End Date:**	05/07/19 06:45

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	10.0	20190507063700	05/07/19 06:37	1	
CAL	5.00	20190507063800	05/07/19 06:38	1	
CAL	2.50	20190507064000	05/07/19 06:40	1	
CAL	1.00	20190507064100	05/07/19 06:41	1	
CAL	0.10	20190507064300	05/07/19 06:43	1	
CAL	0.00	20190507064500	05/07/19 06:45	1	

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	350.1
Instrument ID:	FS3100-01	**Calibration Start Date:**	05/07/19 06:37
Analytical Run:	050819_1	**Calibration End Date:**	05/07/19 06:45

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	FS3100-010508190728	20190508072800	05/08/19 07:28	1	
BLANK	R3409234-1	20190508072900	05/08/19 07:29	1	WG1277364
LCS	R3409234-2	20190508073100	05/08/19 07:31	1	WG1277364
OS	L1093570-03	20190508073300	05/08/19 07:33	1	WG1277364
DUP	R3409234-3	20190508073400	05/08/19 07:34	1	WG1277364
OS	L1094617-01	20190508073600	05/08/19 07:36	1	WG1277364
MS	R3409234-4	20190508073700	05/08/19 07:37	1	WG1277364
MSD	R3409234-5	20190508073900	05/08/19 07:39	1	WG1277364
CCV	FS3100-010508190745	20190508074500	05/08/19 07:45	1	
CCB	FS3100-010508190747	20190508074700	05/08/19 07:47	1	
OS	L1094764-06	20190508075800	05/08/19 07:58	1	WG1277364
DUP	R3409234-6	20190508080000	05/08/19 08:00	1	WG1277364
OS	L1094764-07	20190508080100	05/08/19 08:01	1	WG1277364
MS	R3409234-7	20190508080300	05/08/19 08:03	1	WG1277364
CCV	FS3100-010508190806	20190508080600	05/08/19 08:06	1	
CCB	FS3100-010508190807	20190508080700	05/08/19 08:07	1	
WW-20190503-002 DAY 5	L1095644-01	20190508082000	05/08/19 08:20	1	WG1277364
CCV	FS3100-010508190822	20190508082200	05/08/19 08:22	1	
CCB	FS3100-010508190823	20190508082300	05/08/19 08:23	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 06:37
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/07/19 06:45
Analytical Method:	350.1	**Analytical Run:**	050819_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	10	9.921	99.20	5	5.135	103
File ID:		20190507063700			20190507063800	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 06:37
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/07/19 06:45
Analytical Method:	350.1	**Analytical Run:**	050819_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	2.50	2.576	103	1	.932	93.20
File ID:		20190507064000			20190507064100	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 06:37
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/07/19 06:45
Analytical Method:	350.1	**Analytical Run:**	050819_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	0.10	.07	70	0	-.034	
File ID:		20190507064300			20190507064500	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 06:37
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/07/19 06:45
Analytical Method:	350.1	**Analytical Run:**	050819_1

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
AMMONIA NITROGEN	0	5	0.999753			71162	2500.8	

Calibration Type

0 = Linear Regression

Weightage

5 = None

351.2 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190508102702	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277684	**Analysis Date/Time:**	05/08/19 10:27
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	0.536	B	0.0350	0.250	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409248-1

Lab Sample ID:	R3409248-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190508100200	**Received Date/Time:**	_____
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/07/19 14:09
Analytical Batch:	WG1277684	**Analysis Date/Time:**	05/08/19 10:02
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	0.235	J	0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409248-2

Lab Sample ID:	R3409248-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190508100312	**Received Date/Time:**	_____
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/07/19 14:09
Analytical Batch:	WG1277684	**Analysis Date/Time:**	05/08/19 10:03
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	10.8		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409248-5

Lab Sample ID:	R3409248-5	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/02/19 10:50
Lab File ID:	20190508101022	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277684	**Analysis Date/Time:**	05/08/19 10:10
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	0.212		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409248-7

Lab Sample ID:	R3409248-7	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/04/19 14:00
Lab File ID:	20190508102550	**Received Date/Time:**	05/07/19 08:45
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277684	**Analysis Date/Time:**	05/08/19 10:25
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	0.717		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409248-3

Lab Sample ID:	R3409248-3	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/02/19 10:15
Lab File ID:	20190508100647	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277684	**Analysis Date/Time:**	05/08/19 10:06
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	5.47		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409248-6

Lab Sample ID:	R3409248-6	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190508102327	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277684	**Analysis Date/Time:**	05/08/19 10:23
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	5.75		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409248-4

Lab Sample ID:	R3409248-4	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/02/19 10:15
Lab File ID:	20190508100759	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277684	**Analysis Date/Time:**	05/08/19 10:07
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	5.40		0.0350	0.25	0.250

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R050819_2
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT6050819100049				LACHAT6050819101355				LACHAT6050819102925			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
KJELDAHL NITROGEN, TKN	10	10.50	105		10	10.40	104		10	10.30	103	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R050819_2

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190508100200		20190508101508		20190508103038	
Analyte	mg/l		mg/L		mg/L	
KJELDAHL NITROGEN, TKN	0.235	J	0.1510		0.1300	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409248-3
R3409248-4

MS Sample / File ID:	R3409248-3 / 20190508100647	**SDG:**	L1095644
MSD Sample / File ID:	R3409248-4 / 20190508100759	**Analytical Batch:**	WG1277684
OS Sample / File ID:	L1095167-01 / 20190508100535	**Matrix:**	WW
Instrument ID:	LACHAT6		
Analytical Method:	351.2		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Kjeldahl Nitrogen, TKN	5.00	ND	5.47	5.40	106	105	1	90.0 - 110	1.29	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409248-6

MS Sample / File ID:	R3409248-6 / 20190508102327	**SDG:**	L1095644
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1277684
OS Sample / File ID:	L1095644-01 / 20190508102702	**Matrix:**	WW
Instrument ID:	LACHAT6		
Analytical Method:	351.2		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Kjeldahl Nitrogen, TKN	5.00	0.536	5.75		104		1	90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES
L1095644-01

SAMPLE NO.:
R3409248-5

DUP Sample / File ID:	R3409248-5 / 20190508101022	**SDG:**	L1095644
OS Sample / File ID:	L1095167-02 / 20190508100910	**Analytical Batch:**	WG1277684
Instrument ID:	LACHAT6	**Dilution Factor:**	1
Analytical Method:	351.2	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	ND	0.212	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES
L1095644-01

SAMPLE NO.:
R3409248-7

DUP Sample / File ID:	R3409248-7 / 20190508102550	**SDG:**	L1095644
OS Sample / File ID:	L1095789-01 / 20190508102439	**Analytical Batch:**	WG1277684
Instrument ID:	LACHAT6	**Dilution Factor:**	1
Analytical Method:	351.2	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	0.835	0.717	15.2	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409248-2

LCS Sample / File ID:	R3409248-2 / 20190508100312	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277684
Instrument ID:	LACHAT6	**Dilution Factor:**	1
Analytical Method:	351.2	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Kjeldahl Nitrogen, TKN	10.0	10.8		108		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	351.2
Instrument ID:	LACHAT6	**Calibration Start Date:**	04/08/19 13:21
Analytical Run:	CAL040819_1	**Calibration End Date:**	04/08/19 13:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	20.0	20190408132143	04/08/19 13:21	1	
CAL	10.0	20190408132256	04/08/19 13:22	1	
CAL	5.0	20190408132408	04/08/19 13:24	1	
CAL	2.5	20190408132519	04/08/19 13:25	1	
CAL	1.0	20190408132632	04/08/19 13:26	1	
CAL	0.5	20190408132743	04/08/19 13:27	1	
CAL	0.25	20190408132855	04/08/19 13:28	1	
CAL	0.0	20190408133007	04/08/19 13:30	1	

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	351.2
Instrument ID:	LACHAT6	**Calibration Start Date:**	04/08/19 13:21
Analytical Run:	R050819_2	**Calibration End Date:**	04/08/19 13:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT6050819100049	20190508100049	05/08/19 10:00	1	
BLANK	R3409248-1	20190508100200	05/08/19 10:02	1	WG1277684
LCS	R3409248-2	20190508100312	05/08/19 10:03	1	WG1277684
OS	L1095167-01	20190508100535	05/08/19 10:05	1	WG1277684
MS	R3409248-3	20190508100647	05/08/19 10:06	1	WG1277684
MSD	R3409248-4	20190508100759	05/08/19 10:07	1	WG1277684
OS	L1095167-02	20190508100910	05/08/19 10:09	1	WG1277684
DUP	R3409248-5	20190508101022	05/08/19 10:10	1	WG1277684
CCV	LACHAT6050819101355	20190508101355	05/08/19 10:13	1	
CCB	LACHAT6050819101508	20190508101508	05/08/19 10:15	1	
MS	R3409248-6	20190508102327	05/08/19 10:23	1	WG1277684
OS	L1095789-01	20190508102439	05/08/19 10:24	1	WG1277684
DUP	R3409248-7	20190508102550	05/08/19 10:25	1	WG1277684
WW-20190503-002 DAY 5	L1095644-01	20190508102702	05/08/19 10:27	1	WG1277684
CCV	LACHAT6050819102925	20190508102925	05/08/19 10:29	1	
CCB	LACHAT6050819103038	20190508103038	05/08/19 10:30	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R050819_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
KJELDAHL NITROGEN, TKN	20	19.5988	98	10	10.3378	103
File ID:		20190408132143			20190408132256	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R050819_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
KJELDAHL NITROGEN, TKN	5	4.8883	97.80	2.50	2.44075	97.60
File ID:		20190408132408			20190408132519	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R050819_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
KJELDAHL NITROGEN, TKN	1	1.17445	117	0.50	.50035	100
File ID:		20190408132632			20190408132743	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R050819_2

Analyte	**Std Conc** mg/L	**Result** mg/L	**Rec.** %	**Std Conc** mg/L	**Result** mg/L	**Rec.** %
KJELDAHL NITROGEN, TKN	0.25	.117625	47.10	0	.095575	
File ID:		20190408132855			20190408133007	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R050819_2

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
KJELDAHL NITROGEN, TKN	5	1	0.99969			0.315	0.0373	

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

365.4 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190508112409	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277153	**Analysis Date/Time:**	05/08/19 11:24
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	U		0.0350	0.100	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409251-1

Lab Sample ID:	R3409251-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190508105052	**Received Date/Time:**	_____
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/07/19 14:09
Analytical Batch:	WG1277153	**Analysis Date/Time:**	05/08/19 10:50
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	U		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409251-2

Lab Sample ID:	R3409251-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190508105209	**Received Date/Time:**	_____
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/07/19 14:09
Analytical Batch:	WG1277153	**Analysis Date/Time:**	05/08/19 10:52
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	1.83		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409251-5

Lab Sample ID:	R3409251-5	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/02/19 10:50
Lab File ID:	20190508110221	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277153	**Analysis Date/Time:**	05/08/19 11:02
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	0.000		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409251-7

Lab Sample ID:	R3409251-7	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/04/19 14:00
Lab File ID:	20190508112801	**Received Date/Time:**	05/07/19 08:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277153	**Analysis Date/Time:**	05/08/19 11:28
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	0.216	P1	0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409251-3

Lab Sample ID:	R3409251-3	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/02/19 10:15
Lab File ID:	20190508105831	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277153	**Analysis Date/Time:**	05/08/19 10:58
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	2.53		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409251-6

Lab Sample ID:	R3409251-6	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190508112526	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277153	**Analysis Date/Time:**	05/08/19 11:25
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	2.65		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409251-4

Lab Sample ID:	R3409251-4	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/02/19 10:15
Lab File ID:	20190508105948	**Received Date/Time:**	05/03/19 08:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/07/19 14:10
Analytical Batch:	WG1277153	**Analysis Date/Time:**	05/08/19 10:59
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	2.54		0.0350	0.10	0.100

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R050819_1
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT3050819104935				LACHAT3050819110337				LACHAT3050819111901			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
PHOSPHORUS,TOTAL	2.50	2.380	95.20		2.50	2.380	95.20		2.50	2.390	95.60	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R050819_1
Concentration Units:	mg/L		

CCV

Sample ID: LACHAT3050819113151

Analyte	True	Found	%R	%RSD
PHOSPHORUS,TOTAL	2.50	2.390	95.60	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R050819_1

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190508105052		20190508110455		20190508112018		20190508113308	
Analyte	mg/l		mg/L		mg/L		mg/L	
PHOSPHORUS,TOTAL	U		0.07760		0.05450		0.05650	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409251-3
R3409251-4

MS Sample / File ID:	R3409251-3 / 20190508105831	**SDG:**	L1095644
MSD Sample / File ID:	R3409251-4 / 20190508105948	**Analytical Batch:**	WG1277153
OS Sample / File ID:	L1095167-01 / 20190508105715	**Matrix:**	WW
Instrument ID:	LACHAT3		
Analytical Method:	365.4		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Phosphorus,Total	2.50	ND	2.53	2.54	101	102	1	90.0 - 110	0.394	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409251-6

MS Sample / File ID:	R3409251-6 / 20190508112526	**SDG:**	L1095644
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1277153
OS Sample / File ID:	L1095644-01 / 20190508112409	**Matrix:**	WW
Instrument ID:	LACHAT3		
Analytical Method:	365.4		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Phosphorus,Total	2.50	U	2.65		106		1	90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES
L1095644-01

SAMPLE NO.:
R3409251-5

DUP Sample / File ID:	R3409251-5 / 20190508110221	**SDG:**	L1095644
OS Sample / File ID:	L1095167-02 / 20190508110104	**Analytical Batch:**	WG1277153
Instrument ID:	LACHAT3	**Dilution Factor:**	1
Analytical Method:	365.4	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	ND	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1095644-01

SAMPLE NO.:
R3409251-7

DUP Sample / File ID:	R3409251-7 / 20190508112801	**SDG:**	L1095644
OS Sample / File ID:	L1095789-01 / 20190508112643	**Analytical Batch:**	WG1277153
Instrument ID:	LACHAT3	**Dilution Factor:**	1
Analytical Method:	365.4	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	0.291	0.216	29.6*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409251-2

LCS Sample / File ID:	R3409251-2 / 20190508105209	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277153
Instrument ID:	LACHAT3	**Dilution Factor:**	1
Analytical Method:	365.4	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Phosphorus,Total	2.00	1.83		91.5		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	365.4
Instrument ID:	LACHAT3	**Calibration Start Date:**	04/09/19 13:38
Analytical Run:	CAL040919_1	**Calibration End Date:**	04/09/19 13:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	5.0	20190409133831	04/09/19 13:38	1	
CAL	2.5	20190409133948	04/09/19 13:39	1	
CAL	1.0	20190409134105	04/09/19 13:41	1	
CAL	0.5	20190409134222	04/09/19 13:42	1	
CAL	0.1	20190409134338	04/09/19 13:43	1	
CAL	0.0	20190409134454	04/09/19 13:44	1	

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	365.4
Instrument ID:	LACHAT3	**Calibration Start Date:**	04/09/19 13:38
Analytical Run:	R050819_1	**Calibration End Date:**	04/09/19 13:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT3050819104935	20190508104935	05/08/19 10:49	1	
BLANK	R3409251-1	20190508105052	05/08/19 10:50	1	WG1277153
LCS	R3409251-2	20190508105209	05/08/19 10:52	1	WG1277153
OS	L1095167-01	20190508105715	05/08/19 10:57	1	WG1277153
MS	R3409251-3	20190508105831	05/08/19 10:58	1	WG1277153
MSD	R3409251-4	20190508105948	05/08/19 10:59	1	WG1277153
OS	L1095167-02	20190508110104	05/08/19 11:01	1	WG1277153
DUP	R3409251-5	20190508110221	05/08/19 11:02	1	WG1277153
CCV	LACHAT3050819110337	20190508110337	05/08/19 11:03	1	
CCB	LACHAT3050819110455	20190508110455	05/08/19 11:04	1	
CCV	LACHAT3050819111901	20190508111901	05/08/19 11:19	1	
CCB	LACHAT3050819112018	20190508112018	05/08/19 11:20	1	
WW-20190503-002 DAY 5	L1095644-01	20190508112409	05/08/19 11:24	1	WG1277153
MS	R3409251-6	20190508112526	05/08/19 11:25	1	WG1277153
OS	L1095789-01	20190508112643	05/08/19 11:26	1	WG1277153
DUP	R3409251-7	20190508112801	05/08/19 11:28	1	WG1277153
CCV	LACHAT3050819113151	20190508113151	05/08/19 11:31	1	
CCB	LACHAT3050819113308	20190508113308	05/08/19 11:33	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R050819_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
PHOSPHORUS,TOTAL	5	5.02838	101	2.50	2.49638	99.90
File ID:		20190409133831			20190409133948	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R050819_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
PHOSPHORUS,TOTAL	1	1.01305	101	0.50	.47922	95.80
File ID:		20190409134105			20190409134222	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R050819_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
PHOSPHORUS,TOTAL	0.10	.090347	90.30	0	.0121293	
File ID:		20190409134338			20190409134454	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R050819_1

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
PHOSPHORUS,TOTAL	5	1	0.99996			0.211	0.00658	

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

410.4 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190507225242	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 21:19
Analytical Batch:	WG1277222	**Analysis Date/Time:**	05/07/19 22:52
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	56.3		3.00	10.0	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409047-1

Lab Sample ID:	R3409047-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190507224548	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 13:29
Analytical Batch:	WG1277222	**Analysis Date/Time:**	05/07/19 22:45
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	U		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409047-2

Lab Sample ID:	R3409047-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190507224559	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 13:29
Analytical Batch:	WG1277222	**Analysis Date/Time:**	05/07/19 22:45
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	203		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409047-3

Lab Sample ID:	R3409047-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/01/19 08:00
Lab File ID:	20190507224732	**Received Date/Time:**	05/01/19 15:50
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 21:19
Analytical Batch:	WG1277222	**Analysis Date/Time:**	05/07/19 22:47
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	74.7		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409047-6

Lab Sample ID:	R3409047-6	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190507225257	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 21:19
Analytical Batch:	WG1277222	**Analysis Date/Time:**	05/07/19 22:52
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	56.1		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409047-4

Lab Sample ID:	R3409047-4	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/01/19 14:10
Lab File ID:	20190507224959	**Received Date/Time:**	05/02/19 15:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 21:19
Analytical Batch:	WG1277222	**Analysis Date/Time:**	05/07/19 22:49
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	380		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409047-5

Lab Sample ID:	R3409047-5	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/01/19 14:10
Lab File ID:	20190507225028	**Received Date/Time:**	05/02/19 15:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 21:19
Analytical Batch:	WG1277222	**Analysis Date/Time:**	05/07/19 22:50
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	380		3.00	10	10.0

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1277222
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	DR6000-1050719224536				DR6000-1050719224900				DR6000-1050719225128			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
COD	400	387.4	96.90		400	388.35	97.10		400	387.52	96.90	

ICV Limits: 95 - 105 CCV Limits: 95 - 105

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1277222
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-1050719225442

Analyte	True	Found	%R	%RSD
COD	400	382.97	95.70	

ICV Limits: 95 - 105 CCV Limits: 95 - 105

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1277222

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190507224548		20190507224911		20190507225137		20190507225454	
Analyte	mg/l		mg/L		mg/L		mg/L	
COD	U		-2.548		-3.767		-2.383	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409047-4
R3409047-5

MS Sample / File ID:	R3409047-4 / 20190507224959	**SDG:**	L1095644
MSD Sample / File ID:	R3409047-5 / 20190507225028	**Analytical Batch:**	WG1277222
OS Sample / File ID:	L1094764-03 / 20190507224949	**Matrix:**	WW
Instrument ID:	DR6000-1		
Analytical Method:	410.4		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
COD	400	ND	380	380	95.1	95.0	1	80.0 - 120	0.0447	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1095644-01

SAMPLE NO.:
R3409047-3

DUP Sample / File ID:	R3409047-3 / 20190507224732	**SDG:**	L1095644
OS Sample / File ID:	L1094326-01 / 20190507224644	**Analytical Batch:**	WG1277222
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	410.4	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
COD	75.0	74.7	0.437	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1095644-01

SAMPLE NO.:
R3409047-6

DUP Sample / File ID:	R3409047-6 / 20190507225257	**SDG:**	L1095644
OS Sample / File ID:	L1095644-01 / 20190507225242	**Analytical Batch:**	WG1277222
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	410.4	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
COD	56.3	56.1	0.217	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409047-2

LCS Sample / File ID:	R3409047-2 / 20190507224559	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277222
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	410.4	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
COD	222	203		91.3		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	410.4
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/21/19 11:00
Analytical Run:	WG1242469	**Calibration End Date:**	02/21/19 11:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.000	33	02/21/19 11:00	1	
CAL	10.000	34	02/21/19 11:00	1	
CAL	50.000	35	02/21/19 11:00	1	
CAL	100.000	36	02/21/19 11:00	1	
CAL	400.000	37	02/21/19 11:00	1	
CAL	500.000	38	02/21/19 11:00	1	
CAL	1000.000	39	02/21/19 11:00	1	

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	410.4
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/21/19 11:00
Analytical Run:	WG1277222	**Calibration End Date:**	02/21/19 11:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-1050719224536	20190507224536	05/07/19 22:45	1	
BLANK	R3409047-1	20190507224548	05/07/19 22:45	1	WG1277222
LCS	R3409047-2	20190507224559	05/07/19 22:45	1	WG1277222
OS	L1094326-01	20190507224644	05/07/19 22:46	1	WG1277222
DUP	R3409047-3	20190507224732	05/07/19 22:47	1	WG1277222
CCV	DR6000-1050719224900	20190507224900	05/07/19 22:49	1	
CCB	DR6000-1050719224911	20190507224911	05/07/19 22:49	1	
OS	L1094764-03	20190507224949	05/07/19 22:49	1	WG1277222
MS	R3409047-4	20190507224959	05/07/19 22:49	1	WG1277222
MSD	R3409047-5	20190507225028	05/07/19 22:50	1	WG1277222
CCV	DR6000-1050719225128	20190507225128	05/07/19 22:51	1	
CCB	DR6000-1050719225137	20190507225137	05/07/19 22:51	1	
WW-20190503-002 DAY 5	L1095644-01	20190507225242	05/07/19 22:52	1	WG1277222
DUP	R3409047-6	20190507225257	05/07/19 22:52	1	WG1277222
CCV	DR6000-1050719225442	20190507225442	05/07/19 22:54	1	
CCB	DR6000-1050719225454	20190507225454	05/07/19 22:54	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1277222

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
COD	10	9.600413	96	50	48.674867	97.30
File ID:		34			35	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1277222

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
COD	100	105.115745	105	400	402.515756	101
File ID:		36			37	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1277222

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
COD	500	498.031088	99.60	1000	999.486581	99.90
File ID:		38			39	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1277222

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
COD	0	5	0.999969			2170.803	-3.424405	

Calibration Type

0 = Linear Regression

Weightage

5 = None

4500CN E-2011 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-02	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190508133938	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/08/19 08:36
Analytical Batch:	WG1277440	**Analysis Date/Time:**	05/08/19 13:39
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.00310	J	0.00180	0.00500	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409307-1

Lab Sample ID:	R3409307-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190508130243	**Received Date/Time:**	_____
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/08/19 08:36
Analytical Batch:	WG1277440	**Analysis Date/Time:**	05/08/19 13:02
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	U		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409307-3

Lab Sample ID:	R3409307-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	04/29/19 16:52
Lab File ID:	20190508130851	**Received Date/Time:**	05/01/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/08/19 08:36
Analytical Batch:	WG1277440	**Analysis Date/Time:**	05/08/19 13:08
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.000		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409307-2

Lab Sample ID:	R3409307-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190508130345	**Received Date/Time:**	_____
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/08/19 08:36
Analytical Batch:	WG1277440	**Analysis Date/Time:**	05/08/19 13:03
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.107		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409307-8

Lab Sample ID:	R3409307-8	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/01/19 11:10
Lab File ID:	20190508133023	**Received Date/Time:**	05/02/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/08/19 08:36
Analytical Batch:	WG1277440	**Analysis Date/Time:**	05/08/19 13:30
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.000		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409307-4

Lab Sample ID:	R3409307-4	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	04/30/19 10:50
Lab File ID:	20190508131904	**Received Date/Time:**	05/02/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/08/19 08:36
Analytical Batch:	WG1277440	**Analysis Date/Time:**	05/08/19 13:19
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.0897		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409307-6

Lab Sample ID:	R3409307-6	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	04/30/19 14:05
Lab File ID:	20190508132413	**Received Date/Time:**	05/02/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/08/19 08:36
Analytical Batch:	WG1277440	**Analysis Date/Time:**	05/08/19 13:24
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.0926		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409307-5

Lab Sample ID:	R3409307-5	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	04/30/19 10:50
Lab File ID:	20190508132006	**Received Date/Time:**	05/02/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/08/19 08:36
Analytical Batch:	WG1277440	**Analysis Date/Time:**	05/08/19 13:20
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.0957		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409307-7

Lab Sample ID:	R3409307-7	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	04/30/19 14:05
Lab File ID:	20190508132717	**Received Date/Time:**	05/02/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/08/19 08:36
Analytical Batch:	WG1277440	**Analysis Date/Time:**	05/08/19 13:27
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.0942		0.00180	0.0050	0.00500

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050819_1
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT4050819130141				LACHAT4050819131256				LACHAT4050819132514-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CYANIDE	0.10	0.1020	102		0.10	0.1030	103		0.10	0.1030	103	
REACTIVE CYANIDE	0.10	0.1020	102		0.10	0.1030	103		0.10	0.1030	103	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050819_1
Concentration Units:	mg/L		

	CCV				**CCV**			
Sample ID:	LACHAT4050819133734				LACHAT4050819134039			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
CYANIDE	0.10	0.1030	103		0.10	0.1020	102	
REACTIVE CYANIDE	0.10	0.1030	103		0.10	0.1020	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050819_1

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190508130243		20190508131357		20190508132615-2		20190508133836	
Analyte	mg/l		mg/L		mg/L		mg/L	
CYANIDE	U		-0.001220		-0.0001940		-0.002800	
REACTIVE CYANIDE			-0.001220		-0.0001940		-0.002800	

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050819_1

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20190508134141	
Analyte	mg/L	
CYANIDE	0.001560	
REACTIVE CYANIDE	0.001560	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-02

SAMPLE NO.:
R3409307-4
R3409307-5

MS Sample / File ID:	R3409307-4 / 20190508131904	**SDG:**	L1095644
MSD Sample / File ID:	R3409307-5 / 20190508132006	**Analytical Batch:**	WG1277440
OS Sample / File ID:	L1094479-01 / 20190508131803	**Matrix:**	WW
Instrument ID:	LACHAT4		
Analytical Method:	4500CN E-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Cyanide	0.100	ND	0.0897	0.0957	89.7	95.7	1	75.0 - 125	6.47	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-02

SAMPLE NO.:
R3409307-6
R3409307-7

MS Sample / File ID:	R3409307-6 / 20190508132413	**SDG:**	L1095644
MSD Sample / File ID:	R3409307-7 / 20190508132717	**Analytical Batch:**	WG1277440
OS Sample / File ID:	L1094479-04 / 20190508132311	**Matrix:**	WW
Instrument ID:	LACHAT4		
Analytical Method:	4500CN E-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Cyanide	0.100	ND	0.0926	0.0942	92.6	94.2	1	75.0 - 125	1.71	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES
L1095644-02

SAMPLE NO.:
R3409307-3

DUP Sample / File ID:	R3409307-3 / 20190508130851	**SDG:**	L1095644
OS Sample / File ID:	L1094136-22 / 20190508130749	**Analytical Batch:**	WG1277440
Instrument ID:	LACHAT4	**Dilution Factor:**	1
Analytical Method:	4500CN E-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Cyanide	ND	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1095644-02

SAMPLE NO.:
R3409307-8

DUP Sample / File ID:	R3409307-8 / 20190508133023	**SDG:**	L1095644
OS Sample / File ID:	L1094608-05 / 20190508132920	**Analytical Batch:**	WG1277440
Instrument ID:	LACHAT4	**Dilution Factor:**	1
Analytical Method:	4500CN E-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Cyanide	ND	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-02

SAMPLE NO.:
R3409307-2

LCS Sample / File ID:	R3409307-2 / 20190508130345	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277440
Instrument ID:	LACHAT4	**Dilution Factor:**	1
Analytical Method:	4500CN E-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Cyanide	0.100	0.107		107		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	4500CN E-2011
Instrument ID:	LACHAT4	**Calibration Start Date:**	05/08/19 12:20
Analytical Run:	CAL050819	**Calibration End Date:**	05/08/19 12:26

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.2	20190508122010	05/08/19 12:20	1	
CAL	0.1	20190508122112	05/08/19 12:21	1	
CAL	0.05	20190508122213	05/08/19 12:22	1	
CAL	0.01	20190508122314	05/08/19 12:23	1	
CAL	0.005	20190508122415	05/08/19 12:24	1	
CAL	0.0025	20190508122517	05/08/19 12:25	1	
CAL	0.00	20190508122617	05/08/19 12:26	1	

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	4500CN E-2011
Instrument ID:	LACHAT4	**Calibration Start Date:**	05/08/19 12:20
Analytical Run:	R050819_1	**Calibration End Date:**	05/08/19 12:26

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT4050819130141	20190508130141	05/08/19 13:01	1	
BLANK	R3409307-1	20190508130243	05/08/19 13:02	1	WG1277440
LCS	R3409307-2	20190508130345	05/08/19 13:03	1	WG1277440
RL	LACHAT4050819130648	20190508130648	05/08/19 13:06	1	
OS	L1094136-22	20190508130749	05/08/19 13:07	1	WG1277440
DUP	R3409307-3	20190508130851	05/08/19 13:08	1	WG1277440
CCV	LACHAT4050819131256	20190508131256	05/08/19 13:12	1	
CCB	LACHAT4050819131357	20190508131357	05/08/19 13:13	1	
OS	L1094479-01	20190508131803	05/08/19 13:18	1	WG1277440
MS	R3409307-4	20190508131904	05/08/19 13:19	1	WG1277440
MSD	R3409307-5	20190508132006	05/08/19 13:20	1	WG1277440
OS	L1094479-04	20190508132311	05/08/19 13:23	1	WG1277440
MS	R3409307-6	20190508132413	05/08/19 13:24	1	WG1277440
CCV	LACHAT4050819132514-2	20190508132514-2	05/08/19 13:25	1	
CCB	LACHAT4050819132615-2	20190508132615-2	05/08/19 13:26	1	
MSD	R3409307-7	20190508132717	05/08/19 13:27	1	WG1277440
OS	L1094608-05	20190508132920	05/08/19 13:29	1	WG1277440
DUP	R3409307-8	20190508133023	05/08/19 13:30	1	WG1277440
CCV	LACHAT4050819133734	20190508133734	05/08/19 13:37	1	
CCB	LACHAT4050819133836	20190508133836	05/08/19 13:38	1	
WW-20190503-002 DAY 5	L1095644-02	20190508133938	05/08/19 13:39	1	WG1277440
CCV	LACHAT4050819134039	20190508134039	05/08/19 13:40	1	
CCB	LACHAT4050819134141	20190508134141	05/08/19 13:41	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050819_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
CYANIDE	0.20	.19801	99	0.10	.10126	101
File ID:		20190508122010			20190508122112	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050819_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
CYANIDE	0.05	.05052	101	0.01	.009154	91.50
File ID:		20190508122213			20190508122314	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050819_1

Analyte	**Std Conc** mg/L	**Result** mg/L	**Rec.** %	**Std Conc** mg/L	**Result** mg/L	**Rec.** %
CYANIDE	0.0050	.005284	106	0.0025	.0028846	115
File ID:		20190508122415			20190508122517	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050819_1

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%
CYANIDE	0	-.0003662	
File ID:		20190508122617	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050819_1

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CYANIDE	5	1	0.99996			0.043	-0.00108	

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

4500S2 D-2011 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190507161642	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 16:16
Analytical Batch:	WG1276964	**Analysis Date/Time:**	05/07/19 16:16
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	U		0.00650	0.0500	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3408969-1

Lab Sample ID:	R3408969-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190507160917	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 16:09
Analytical Batch:	WG1276964	**Analysis Date/Time:**	05/07/19 16:09
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011/9030B/9034
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	U		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3408969-2

Lab Sample ID:	R3408969-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190507160934	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 16:09
Analytical Batch:	WG1276964	**Analysis Date/Time:**	05/07/19 16:09
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011/9030B/9034
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.449		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3408969-3

Lab Sample ID:	R3408969-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/01/19 14:55
Lab File ID:	20190507161149	**Received Date/Time:**	05/02/19 08:30
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 16:11
Analytical Batch:	WG1276964	**Analysis Date/Time:**	05/07/19 16:11
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.000		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3408969-6

Lab Sample ID:	R3408969-6	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/02/19 14:10
Lab File ID:	20190507161624	**Received Date/Time:**	05/06/19 08:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 16:16
Analytical Batch:	WG1276964	**Analysis Date/Time:**	05/07/19 16:16
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.000		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3408969-4

Lab Sample ID:	R3408969-4	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/03/19 10:00
Lab File ID:	20190507161549	**Received Date/Time:**	05/04/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 16:15
Analytical Batch:	WG1276964	**Analysis Date/Time:**	05/07/19 16:15
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.871		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3408969-5

Lab Sample ID:	R3408969-5	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/03/19 10:00
Lab File ID:	20190507161554	**Received Date/Time:**	05/04/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/07/19 16:15
Analytical Batch:	WG1276964	**Analysis Date/Time:**	05/07/19 16:15
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.871		0.00650	0.05	0.0500

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1276964
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	DR6000-1050719160909				DR6000-1050719161205				DR6000-1050719161510			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
REACTIVE SULFIDE	1	0.9930	99.30		1	0.9840	98.40		1	0.9760	97.60	
SULFIDE	1	0.9930	99.30		1	0.9840	98.40		1	0.9760	97.60	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1276964
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-1050719161731

Analyte	True	Found	%R	%RSD
REACTIVE SULFIDE	1	0.9710	97.10	
SULFIDE	1	0.9710	97.10	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1276964

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**
File ID:	20190507161213		20190507161518		20190507161739		20190507160917	
Analyte	mg/L		mg/L		mg/L		mg/l	
REACTIVE SULFIDE	-0.02700		-0.03300		-0.03600			
SULFIDE	-0.02700		-0.03300		-0.03600		U	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3408969-4
R3408969-5

MS Sample / File ID:	R3408969-4 / 20190507161549	**SDG:**	L1095644
MSD Sample / File ID:	R3408969-5 / 20190507161554	**Analytical Batch:**	WG1276964
OS Sample / File ID:	L1095592-01 / 20190507161457	**Matrix:**	WW
Instrument ID:	DR6000-1		
Analytical Method:	4500S2 D-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Sulfide	1.00	U	0.871	0.871	87.1	87.1	1	80.0 - 120	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1095644-01

SAMPLE NO.:
R3408969-3

DUP Sample / File ID:	R3408969-3 / 20190507161149	**SDG:**	L1095644
OS Sample / File ID:	L1094688-01 / 20190507161144	**Analytical Batch:**	WG1276964
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	4500S2 D-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Sulfide	ND	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1095644-01

SAMPLE NO.:
R3408969-6

DUP Sample / File ID:	R3408969-6 / 20190507161624	**SDG:**	L1095644
OS Sample / File ID:	L1095642-01 / 20190507161619	**Analytical Batch:**	WG1276964
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	4500S2 D-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Sulfide	U	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3408969-2

LCS Sample / File ID:	R3408969-2 / 20190507160934	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1276964
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	4500S2 D-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Sulfide	0.500	0.449		89.8		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	4500S2 D-2011
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/20/19 14:30
Analytical Run:	WG1239349	**Calibration End Date:**	02/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.0000	11	02/20/19 14:30	1	
CAL	0.0500	12	02/20/19 14:30	1	
CAL	0.1000	13	02/20/19 14:30	1	
CAL	0.5000	14	02/20/19 14:30	1	
CAL	1.0000	15	02/20/19 14:30	1	
CAL	1.5000	16	02/20/19 14:30	1	
CAL	2.0000	17	02/20/19 14:30	1	

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	4500S2 D-2011
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/20/19 14:30
Analytical Run:	WG1276964	**Calibration End Date:**	02/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-1050719160909	20190507160909	05/07/19 16:09	1	
BLANK	R3408969-1	20190507160917	05/07/19 16:09	1	WG1276964
LCS	R3408969-2	20190507160934	05/07/19 16:09	1	WG1276964
OS	L1094688-01	20190507161144	05/07/19 16:11	1	WG1276964
DUP	R3408969-3	20190507161149	05/07/19 16:11	1	WG1276964
CCV	DR6000-1050719161205	20190507161205	05/07/19 16:12	1	
CCB	DR6000-1050719161213	20190507161213	05/07/19 16:12	1	
OS	L1095592-01	20190507161457	05/07/19 16:14	1	WG1276964
CCV	DR6000-1050719161510	20190507161510	05/07/19 16:15	1	
CCB	DR6000-1050719161518	20190507161518	05/07/19 16:15	1	
MS	R3408969-4	20190507161549	05/07/19 16:15	1	WG1276964
MSD	R3408969-5	20190507161554	05/07/19 16:15	1	WG1276964
OS	L1095642-01	20190507161619	05/07/19 16:16	1	WG1276964
DUP	R3408969-6	20190507161624	05/07/19 16:16	1	WG1276964
WW-20190503-002 DAY 5	L1095644-01	20190507161642	05/07/19 16:16	1	WG1276964
CCV	DR6000-1050719161731	20190507161731	05/07/19 16:17	1	
CCB	DR6000-1050719161739	20190507161739	05/07/19 16:17	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1276964

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFIDE	0.05	.047732143	95.50	0.10	.106206325	106
File ID:		12			13	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1276964

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFIDE	0.50	.482540163	96.50	1	1.007308463	101
File ID:		14			15	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1276964

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFIDE	1.50	1.520082059	101	2	1.984876839	99.20
File ID:		16			17	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1276964

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFIDE	0	5	0.999861			1.499338	0.001253	

Calibration Type

0 = Linear Regression

Weightage

5 = None

504.1 EDB / DBCP

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-03,04,05,06

SAMPLE NO.:
R3409429-2

MS Sample / File ID:	R3409429-2 / 0507A_12	**SDG:**	L1095644
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1276977
OS Sample / File ID:	L1095441-13 / 0507A_13	**Matrix:**	GW
Instrument ID:	SVGC23		
Analytical Method:	504.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Ethylene Dibromide	0.000100	ND	0.000113		113		1	70.0 - 130		
1,2-Dibromo-3-Chloropropane	0.000100	ND	0.000108		108		1	70.0 - 130		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-03,04,05,06

SAMPLE NO.:
R3409429-4
R3409429-5

LCS Sample / File ID:	R3409429-4 / 0507A_25LFB	**SDG:**	L1095644
LCSD Sample / File ID:	R3409429-5 / 0507A_37LFBD	**Analytical Batch:**	WG1276977
Instrument ID:	SVGC23	**Dilution Factor:**	1
Analytical Method:	504.1	**Matrix:**	GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Ethylene Dibromide	0.000250	0.000291	0.000295	116	118	70.0 - 130	1.37	20
1,2-Dibromo-3-Chloropropane	0.000250	0.000294	0.000293	118	117	70.0 - 130	0.341	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3C-OR

LABORATORY DUPLICATE

L1095644-03,04,05,06

SAMPLE NO.:
R3409429-3

DUP Sample / File ID:	R3409429-3 / 0507A_14	**SDG:**	L1095644
OS Sample / File ID:	L1095441-10 / 0507A_15	**Analytical Batch:**	WG1276977
Lab File ID:	0507A_14	**Dilution Factor:**	1
Instrument ID:	SVGC23	**Matrix:**	GW
Analytical Method:	504.1		

Analyte	OS Result	DUP Result	RPD	RPD Limits
	mg/l	*mg/l*	*%*	*%*
Ethylene Dibromide	ND	0.000	0.000	20
1,2-Dibromo-3-Chloropropane	ND	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3409429-1

Lab Sample ID:	R3409429-1	**SDG:**	L1095644
Lab File ID:	0507A_11	**Preparation Date/Time:**	05/07/19 09:10
Instrument ID:	SVGC23	**Analysis Date/Time:**	05/07/19 19:23
Analytical Batch:	WG1276977	**Dilution Factor:**	1
Analytical Method:	504.1	**Matrix:**	GW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
MS	R3409429-2	SVGC23	0507A_12	05/07/19 19:35
OS	L1095441-13	SVGC23	0507A_13	05/07/19 19:48
DUP	R3409429-3	SVGC23	0507A_14	05/07/19 19:59
OS	L1095441-10	SVGC23	0507A_15	05/07/19 20:10
LCS	R3409429-4	SVGC23	0507A_25LFB	05/07/19 22:08
WW-20190503-002 DAY 5-A	L1095644-03	SVGC23	0507A_32	05/07/19 23:30
WW-20190503-002 DAY 5-B	L1095644-04	SVGC23	0507A_33	05/07/19 23:42
WW-20190503-002 DAY 5-C	L1095644-05	SVGC23	0507A_34	05/07/19 23:53
WW-20190503-002 DAY 5-D	L1095644-06	SVGC23	0507A_35	05/08/19 00:04
LCSD	R3409429-5	SVGC23	0507A_37LFBD	05/08/19 00:27

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-A

Lab Sample ID:	L1095644-03	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-A	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507A_32	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:11
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 23:30
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U		0.00000240	0.0000100	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.00000430	0.0000200	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-B

Lab Sample ID:	L1095644-04	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-B	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507A_33	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:11
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 23:42
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U		0.00000240	0.0000100	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.00000430	0.0000200	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-C

Lab Sample ID:	L1095644-05	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-C	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507A_34	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:11
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 23:53
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U		0.00000240	0.0000100	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.00000430	0.0000200	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-D

Lab Sample ID:	L1095644-06	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-D	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507A_35	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:11
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/08/19 00:04
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U		0.00000240	0.0000100	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.00000430	0.0000200	0.0000200

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

Analyte	**CS: 0.01**	**CS: 0.02**	**CS: 0.05**	**CS: 0.10**	**CS: 0.25**	**CS: 0.50**
ETHYLENE DIBROMIDE	1.40	1.40	1.40	1.40	1.40	1.40
1,2-DIBROMO-3-CHLOROPROPANE	3.13	3.13	3.13	3.13	3.12	3.12
File ID:	0507A_03	0507A_04	0507A_05	0507A_06	0507A_07	0507A_08

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

Analyte	**CS: 0.01**	**CS: 0.02**	**CS: 0.05**	**CS: 0.10**	**CS: 0.25**	**CS: 0.50**
ETHYLENE DIBROMIDE	1.50	1.50	1.50	1.50	1.50	1.50
1,2-DIBROMO-3-CHLOROPROPANE	3.18	3.17	3.17	3.17	3.17	3.17
File ID:	0507A_03	0507A_04	0507A_05	0507A_06	0507A_07	0507A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

Analyte	**RRF: 0.01**	**RRF: 0.02**	**RRF: 0.05**	**RRF: 0.10**	**RRF: 0.25**	**RRF: 0.50**
ETHYLENE DIBROMIDE	3424000	3141000	2755000	2895000	2503000	2414000
1,2-DIBROMO-3-CHLOROPROPANE	3567000	3801000	3978000	4817000	4317000	4317000
File ID:	0507A_03	0507A_04	0507A_05	0507A_06	0507A_07	0507A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

Analyte	RRF. Avg	%RSD	COD
ETHYLENE DIBROMIDE	2855476	13.43	0.997
1,2-DIBROMO-3-CHLOROPROPANE	4132641	10.77	0.999

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

Analyte	**RRF: 0.01**	**RRF: 0.02**	**RRF: 0.05**	**RRF: 0.10**	**RRF: 0.25**	**RRF: 0.50**
ETHYLENE DIBROMIDE	2002000	1282000	1764000	1815000	1527000	1506000
1,2-DIBROMO-3-CHLOROPROPANE	2499000	3027000	3001000	3126000	2827000	2768000
File ID:	0507A_03	0507A_04	0507A_05	0507A_06	0507A_07	0507A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

Analyte	RRF. Avg	%RSD	COD
ETHYLENE DIBROMIDE	1649330	15.7	0.993
1,2-DIBROMO-3-CHLOROPROPANE	2874567	7.89	

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0507A_10-1	**Analysis date/time:**	05/07/19 19:11
Analytical Method:	504.1	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,1,1,2-TETRACHLOROETHANE	0.0005	0.0005057	101	70 - 130
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002484	99.40	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002546	102	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0507A_10-1	**Analysis date/time:**	05/07/19 19:11
Analytical Method:	504.1	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,1,1,2-TETRACHLOROETHANE	0.0005	0.0005008	100	70 - 130
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002332	93.30	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002376	95	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0507A_25-1	**Analysis date/time:**	05/07/19 22:08
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002938	118	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002907	116	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0507A_25-1	**Analysis date/time:**	05/07/19 22:08
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002787	111	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002814	113	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0507A_37-1	**Analysis date/time:**	05/08/19 00:27
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002927	117	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002950	118	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0507A_37-1	**Analysis date/time:**	05/08/19 00:27
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002864	115	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002964	119	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0507A_53-1	**Analysis date/time:**	05/08/19 03:37
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0003048	122	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002981	119	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0507A_53-1	**Analysis date/time:**	05/08/19 03:37
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002959	118	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002986	119	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1095644	**Analytical Method:**	504.1
Instrument ID:	SVGC23	**Calibration Start Date:**	05/07/19 17:39
		Calibration End Date:	05/07/19 18:47

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.01	0507A_03	05/07/19 17:39	1	
CAL	0.02	0507A_04	05/07/19 17:58	1	
CAL	0.05	0507A_05	05/07/19 18:10	1	
CAL	0.10	0507A_06	05/07/19 18:22	1	
CAL	0.25	0507A_07	05/07/19 18:35	1	
CAL	0.50	0507A_08	05/07/19 18:47	1	
ICV	SVGC23050719A0507A_10-1471429	0507A_10-1	05/07/19 19:11	1	
BLANK	R3409429-1	0507A_11	05/07/19 19:23	1	WG1276977
MS	R3409429-2	0507A_12	05/07/19 19:35	1	WG1276977
OS	L1095441-13	0507A_13	05/07/19 19:48	1	WG1276977
DUP	R3409429-3	0507A_14	05/07/19 19:59	1	WG1276977
OS	L1095441-10	0507A_15	05/07/19 20:10	1	WG1276977
CCV	SVGC23050719A0507A_25-1471429	0507A_25-1	05/07/19 22:08	1	
LCS	R3409429-4	0507A_25LFB	05/07/19 22:08	1	WG1276977
WW-20190503-002 DAY 5-A	L1095644-03	0507A_32	05/07/19 23:30	1	WG1276977
WW-20190503-002 DAY 5-B	L1095644-04	0507A_33	05/07/19 23:42	1	WG1276977
WW-20190503-002 DAY 5-C	L1095644-05	0507A_34	05/07/19 23:53	1	WG1276977
WW-20190503-002 DAY 5-D	L1095644-06	0507A_35	05/08/19 00:04	1	WG1276977
CCV	SVGC23050719A0507A_37-1471429	0507A_37-1	05/08/19 00:27	1	
LCSD	R3409429-5	0507A_37LFBD	05/08/19 00:27	1	WG1276977
CCV	SVGC23050719A0507A_53-1471429	0507A_53-1	05/08/19 03:37	1	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3409429-1

Lab Sample ID:	R3409429-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507A_11	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:10
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 19:23
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	0	U	0
1,2-Dibromo-3-Chloropropane	1	0	U	0

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3409429-3

Lab Sample ID:	R3409429-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/02/19 15:45
Lab File ID:	0507A_14	**Received Date/Time:**	05/04/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:11
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 19:59
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	0	0.000	0
	2	0	0.000	
1,2-Dibromo-3-Chloropropane	1	0	0.000	0
	2	0	0.000	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3409429-4

Lab Sample ID:	R3409429-4	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507A_25LFB	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:10
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 22:08
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	1.40	0.000291	3.25
1,2-Dibromo-3-Chloropropane	1	3.12	0.000294	5.28

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3409429-5

Lab Sample ID:	R3409429-5	**SDG:**	L1095644
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0507A_37LFBD	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:10
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/08/19 00:27
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	1.40	0.000295	.473
1,2-Dibromo-3-Chloropropane	1	3.12	0.000293	2.18

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3409429-2

Lab Sample ID:	R3409429-2	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/03/19 08:55
Lab File ID:	0507A_12	**Received Date/Time:**	05/04/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:11
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 19:35
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	1.40	0.000113	7.71
	2	1.50	0.000105	
1,2-Dibromo-3-Chloropropane	1	3.12	0.000108	3.45
	2	3.17	0.000112	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409429-1

Lab Sample ID:	R3409429-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507A_11	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:10
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 19:23
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409429-3

Lab Sample ID:	R3409429-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/02/19 15:45
Lab File ID:	0507A_14	**Received Date/Time:**	05/04/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:11
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 19:59
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	0.000		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	0.000		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409429-4

Lab Sample ID:	R3409429-4	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507A_25LFB	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:10
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 22:08
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
Ethylene Dibromide	106-93-4	1.40	0.000291		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.12	0.000294		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409429-5

Lab Sample ID:	R3409429-5	**SDG:**	L1095644
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0507A_37LFBD	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:10
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/08/19 00:27
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	1.40	0.000295		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.12	0.000293		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409429-2

Lab Sample ID:	R3409429-2	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/03/19 08:55
Lab File ID:	0507A_12	**Received Date/Time:**	05/04/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/07/19 09:11
Analytical Batch:	WG1276977	**Analysis Date/Time:**	05/07/19 19:35
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	1.40	0.000113		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.12	0.000108		0.00000430	0.000020	0.0000200

5310 B-2011 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190508114757	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/08/19 11:47
Analytical Batch:	WG1277632	**Analysis Date/Time:**	05/08/19 11:47
Dilution Factor:	1	**Prep Method:**	5310 B-2011
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		10.7		0.102	1.00	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409439-1

Lab Sample ID:	R3409439-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20190508104959	**Received Date/Time:**	
Instrument ID:	TOC3	**Preparation Date/Time:**	05/08/19 10:49
Analytical Batch:	WG1277632	**Analysis Date/Time:**	05/08/19 10:49
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		0.174	J	0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409439-3

Lab Sample ID:	R3409439-3	**SDG:**	L1095644
Client Sample ID:	DUP	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	20190508120126	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/08/19 12:01
Analytical Batch:	WG1277632	**Analysis Date/Time:**	05/08/19 12:01
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC		10.7		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409439-2

Lab Sample ID:	R3409439-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20190508112114	**Received Date/Time:**	
Instrument ID:	TOC3	**Preparation Date/Time:**	05/08/19 11:21
Analytical Batch:	WG1277632	**Analysis Date/Time:**	05/08/19 11:21
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC		78.6		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409439-4

Lab Sample ID:	R3409439-4	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/06/19 10:30
Lab File ID:	20190508124403	**Received Date/Time:**	05/07/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/08/19 12:44
Analytical Batch:	WG1277632	**Analysis Date/Time:**	05/08/19 12:44
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC		61.6		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409439-5

Lab Sample ID:	R3409439-5	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/06/19 10:30
Lab File ID:	20190508130012	**Received Date/Time:**	05/07/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/08/19 13:00
Analytical Batch:	WG1277632	**Analysis Date/Time:**	05/08/19 13:00
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC		61.4		0.102	1	1.00

2-IN

CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	050819
Concentration Units:	mg/L		

	ICV				**SSCCV**				**CCV**			
Sample ID:	TOC30508191036				TOC30508191320				TOC30508191349			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	50	51.79	104		75	77.93	104		50	51.46	103	

ICV Limits: 90 - 110 SSCCV Limits: 85 - 115 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1095644	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	050819

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20190508104959		20190508140053	
Analyte	mg/l		mg/L	
TOC (TOTAL ORGANIC CARBON)	0.174	J	0.2076	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409439-4
R3409439-5

MS Sample / File ID:	R3409439-4 / 20190508124403	**SDG:**	L1095644
MSD Sample / File ID:	R3409439-5 / 20190508130012	**Analytical Batch:**	WG1277632
OS Sample / File ID:	L1095805-01 / 20190508122741	**Matrix:**	WW
Instrument ID:	TOC3		
Analytical Method:	5310 B-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
TOC	50.0	2.29	61.6	61.4	119	118	1	80.0 - 120	0.423	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES
L1095644-01

SAMPLE NO.:
R3409439-3

DUP Sample / File ID:	R3409439-3 / 20190508120126	**SDG:**	L1095644
OS Sample / File ID:	L1095644-01 / 20190508114757	**Analytical Batch:**	WG1277632
Instrument ID:	TOC3	**Dilution Factor:**	1
Analytical Method:	5310 B-2011	**Matrix:**	WW

Analyte	OS Result	DUP Result	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*
TOC	10.7	10.7	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409439-2

LCS Sample / File ID:	R3409439-2 / 20190508112114	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277632
Instrument ID:	TOC3	**Dilution Factor:**	1
Analytical Method:	5310 B-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
TOC	75.0	78.6		105		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	5310 B-2011
Instrument ID:	TOC3	**Calibration Start Date:**	01/16/19 13:22
Analytical Run:	011619	**Calibration End Date:**	01/16/19 14:50

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0	20190116132253	01/16/19 13:22	1	
CAL	1	20190116134038	01/16/19 13:40	1	
CAL	5	20190116135423	01/16/19 13:54	1	
CAL	25	20190116140929	01/16/19 14:09	1	
CAL	50	20190116142907	01/16/19 14:29	1	
CAL	100	20190116145010	01/16/19 14:50	1	

12-IN

ANALYSIS LOG

SDG:	L1095644	**Analytical Method:**	5310 B-2011
Instrument ID:	TOC3	**Calibration Start Date:**	01/16/19 13:22
Analytical Run:	050819	**Calibration End Date:**	01/16/19 14:50

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	TOC30508191036	20190508103643	05/08/19 10:36	1	
BLANK	R3409439-1	20190508104959	05/08/19 10:49	1	WG1277632
RL	TOC30508191104	20190508110416	05/08/19 11:04	1	
LCS	R3409439-2	20190508112114	05/08/19 11:21	1	WG1277632
WW-20190503-002 DAY 5	L1095644-01	20190508114757	05/08/19 11:47	1	WG1277632
DUP	R3409439-3	20190508120126	05/08/19 12:01	1	WG1277632
OS	L1095805-01	20190508122741	05/08/19 12:27	1	WG1277632
MS	R3409439-4	20190508124403	05/08/19 12:44	1	WG1277632
MSD	R3409439-5	20190508130012	05/08/19 13:00	1	WG1277632
SSCCV	TOC30508191320	20190508132013	05/08/19 13:20	1	
CCV	TOC30508191349	20190508134943	05/08/19 13:49	1	
CCB	TOC30508191400	20190508140053	05/08/19 14:00	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	050819

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
TOC (TOTAL ORGANIC CARBON)	0	.9501209		1	1.94124	194
File ID:		20190116132253			20190116134038	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	050819

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
TOC (TOTAL ORGANIC CARBON)	5	5.547043	111	25	23.6811	94.70
File ID:		20190116135423			20190116140929	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1095644	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	050819

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
TOC (TOTAL ORGANIC CARBON)	50	47.17507	94.40	100	101.7054	102
File ID:		20190116142907			20190116145010	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1095644	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	050819

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
TOC (TOTAL ORGANIC CARBON)	0	5	0.999045			8.912926	-7.467882	

Calibration Type

0 = Linear Regression

Weightage

5 = None

624.1 Volatile Organic Compounds (GC/MS)

2A-OR

SURROGATE RECOVERY

Analytical Method: 624.1 **SDG:** L1095644
Matrix: GW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	TOT Out
WW-20190503-002 DAY 5-A	L1095644-03	VOCMS32	0507_28	95.8	99.4	94.5	0
WW-20190503-002 DAY 5-C	L1095644-05	VOCMS32	0507_30	95.5	103	95.2	0
WW-20190503-002 DAY 5-D	L1095644-06	VOCMS32	0507_31	95.1	106	93.1	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Toluene-d8	80.0 - 120
DMC-2	1,2-Dichloroethane-d4	70.0 - 130
DMC-3	4-Bromofluorobenzene	80.0 - 120

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR

SURROGATE RECOVERY

Analytical Method: 624.1 **SDG:** L1095644
Matrix: GW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	TOT Out
WW-20190503-002 DAY 5-B	L1095644-04	VOCMS32	0507_29	96.8	104	94.6	0
BLANK	R3409140-3	VOCMS32	0507_06	95.6	99.2	95.3	0
LCS	R3409140-1	VOCMS32	0507_03	94.4	97.0	95.8	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Toluene-d8	80.0 - 120
DMC-2	1,2-Dichloroethane-d4	70.0 - 130
DMC-3	4-Bromofluorobenzene	80.0 - 120

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1095644-03,04,05,06

SAMPLE NO.:
R3409140-1

LCS Sample / File ID:	R3409140-1 / 0507_03	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277073
Instrument ID:	VOCMS32	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Bromochloromethane	0.0250	0.0281		112		76.0 - 122		
Carbon disulfide	0.0250	0.0252		101		55.0 - 127		
Acetone	0.125	0.120		95.9		10.0 - 160		
Acrylonitrile	0.125	0.108		86.0		60.0 - 140		
Benzene	0.0250	0.0266		106		65.0 - 135		
Bromobenzene	0.0250	0.0236		94.3		79.0 - 120		
Bromodichloromethane	0.0250	0.0254		102		70.0 - 135		
Bromoform	0.0250	0.0240		96.1		70.0 - 130		
Bromomethane	0.0250	0.0262		105		15.0 - 185		
n-Butylbenzene	0.0250	0.0240		96.1		72.0 - 126		
sec-Butylbenzene	0.0250	0.0244		97.7		74.0 - 121		
tert-Butylbenzene	0.0250	0.0251		100		75.0 - 122		
Carbon tetrachloride	0.0250	0.0260		104		70.0 - 130		
Chlorobenzene	0.0250	0.0265		106		65.0 - 135		
Chlorodibromomethane	0.0250	0.0250		100		70.0 - 135		
Chloroethane	0.0250	0.0286		114		40.0 - 160		
Chloroform	0.0250	0.0264		105		70.0 - 135		
Chloromethane	0.0250	0.0238		95.1		0.100 - 205		
2-Chlorotoluene	0.0250	0.0248		99.1		74.0 - 122		
4-Chlorotoluene	0.0250	0.0241		96.6		79.0 - 120		
Dibromomethane	0.0250	0.0268		107		78.0 - 120		
1,2-Dichlorobenzene	0.0250	0.0242		96.7		65.0 - 135		
1,3-Dichlorobenzene	0.0250	0.0242		96.8		70.0 - 130		
1,4-Dichlorobenzene	0.0250	0.0239		95.8		65.0 - 135		
2-Hexanone	0.125	0.118		94.1		58.0 - 147		
Dichlorodifluoromethane	0.0250	0.0277		111		49.0 - 155		
1,1-Dichloroethane	0.0250	0.0273		109		70.0 - 130		
1,2-Dichloroethane	0.0250	0.0250		100		70.0 - 130		
1,1-Dichloroethene	0.0250	0.0266		106		50.0 - 150		
cis-1,2-Dichloroethene	0.0250	0.0273		109		73.0 - 120		
trans-1,2-Dichloroethene	0.0250	0.0288		115		70.0 - 130		
1,2-Dichloropropane	0.0250	0.0279		112		35.0 - 165		
1,1-Dichloropropene	0.0250	0.0266		106		71.0 - 129		
cis-1,3-Dichloropropene	0.0250	0.0256		102		25.0 - 175		
trans-1,3-Dichloropropene	0.0250	0.0239		95.5		50.0 - 150		
2,2-Dichloropropane	0.0250	0.0262		105		60.0 - 125		
Ethylbenzene	0.0250	0.0268		107		60.0 - 140		
Isopropylbenzene	0.0250	0.0250		99.9		75.0 - 120		
p-Isopropyltoluene	0.0250	0.0253		101		74.0 - 126		
2-Butanone (MEK)	0.125	0.114		91.2		37.0 - 158		
Methylene Chloride	0.0250	0.0285		114		60.0 - 140		
4-Methyl-2-pentanone (MIBK)	0.125	0.108		86.1		59.0 - 143		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-03,04,05,06

SAMPLE NO.:
R3409140-1

LCS Sample / File ID:	R3409140-1 / 0507_03	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1277073
Instrument ID:	VOCMS32	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Methyl tert-butyl ether	0.0250	0.0258		103		64.0 - 123		
o-Xylene	0.0250	0.0255		102		78.0 - 120		
m&p-Xylene	0.0500	0.0522		104		77.0 - 120		
n-Propylbenzene	0.0250	0.0244		97.7		79.0 - 120		
Styrene	0.0250	0.0253		101		78.0 - 124		
1,3-Dichloropropene	0.0500	0.0495		99.0		25.0 - 175		
1,1,1,2-Tetrachloroethane	0.0250	0.0252		101		75.0 - 122		
1,1,2,2-Tetrachloroethane	0.0250	0.0221		88.4		60.0 - 140		
Tetrachloroethene	0.0250	0.0268		107		70.0 - 130		
Toluene	0.0250	0.0242		96.9		70.0 - 130		
1,1,2-Trichlorotrifluoroethane	0.0250	0.0273		109		61.0 - 136		
1,2,3-Trichlorobenzene	0.0250	0.0237		94.9		61.0 - 133		
1,2,4-Trichlorobenzene	0.0250	0.0245		97.9		69.0 - 129		
1,1,1-Trichloroethane	0.0250	0.0255		102		70.0 - 130		
1,1,2-Trichloroethane	0.0250	0.0262		105		70.0 - 130		
Trichloroethene	0.0250	0.0282		113		65.0 - 135		
Trichlorofluoromethane	0.0250	0.0261		104		50.0 - 150		
1,2,3-Trichloropropane	0.0250	0.0232		93.0		72.0 - 124		
1,2,4-Trimethylbenzene	0.0250	0.0241		96.3		75.0 - 120		
1,3,5-Trimethylbenzene	0.0250	0.0235		94.1		75.0 - 120		
Vinyl chloride	0.0250	0.0296		118		5.00 - 195		
Xylenes, Total	0.0750	0.0777		104		77.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3409140-3

Lab Sample ID:	R3409140-3	**SDG:**	L1095644
Lab File ID:	0507_06	**Preparation Date/Time:**	05/07/19 09:47
Instrument ID:	VOCMS32	**Analysis Date/Time:**	05/07/19 09:47
Analytical Batch:	WG1277073	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	GW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3409140-1	VOCMS32	0507_03	05/07/19 08:50
WW-20190503-002 DAY 5-A	L1095644-03	VOCMS32	0507_28	05/07/19 18:22
WW-20190503-002 DAY 5-B	L1095644-04	VOCMS32	0507_29	05/07/19 18:42
WW-20190503-002 DAY 5-C	L1095644-05	VOCMS32	0507_30	05/07/19 19:02
WW-20190503-002 DAY 5-D	L1095644-06	VOCMS32	0507_31	05/07/19 19:21

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0313_05-6	**SDG:**	L1095644
Instrument ID:	VOCMS32	**Analytical Method:**	624.1
Analysis Date/Time:	03/13/19 18:13		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	115
96	95	5	9	7
173	174	0	2	0
174	95	50	200	87
175	174	5	9	8
176	174	95	105	101
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.04	0.04	0313_08	03/13/19 19:12
STD-0.1	0.1	0313_09	03/13/19 19:31
STD-0.2	0.2	0313_10	03/13/19 19:51
STD-0.5	0.5	0313_11	03/13/19 20:11
STD-1	1	0313_12	03/13/19 20:31
STD-2	2	0313_13	03/13/19 20:50
STD-5.0	5.0	0313_14	03/13/19 21:10
STD-25	25	0313_15	03/13/19 21:30
STD-75	75	0313_16	03/13/19 21:50
STD-100	100	0313_17	03/13/19 22:09
STD-200	200	0313_18	03/13/19 22:29
SSCV	VOCMS320313190313_21-6470434	0313_21-6	03/13/19 23:48
STD-1A	1A	0313_23	03/14/19 00:26
STD-5A	5A	0313_24	03/14/19 00:45
STD-10A	10A	0313_25	03/14/19 01:05
STD-15A	15A	0313_26	03/14/19 01:24
STD-20A	20A	0313_27	03/14/19 01:44

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0424_01-6	**SDG:**	L1095644
Instrument ID:	VOCMS32	**Analytical Method:**	624.1
Analysis Date/Time:	04/24/19 10:09		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	108
96	95	5	9	6
173	174	0	2	1
174	95	50	200	93
175	174	5	9	7
176	174	95	105	100
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-.5	.5	0424_03	04/24/19 10:48
STD-1	1	0424_04	04/24/19 11:07
STD-2	2	0424_05	04/24/19 11:27
STD-5.0	5.0	0424_06	04/24/19 11:46
STD-10	10	0424_07	04/24/19 12:06
STD-20	20	0424_08	04/24/19 12:26

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0507_02T-1	**SDG:**	L1095644
Instrument ID:	VOCMS32	**Analytical Method:**	624.1
Analysis Date/Time:	05/07/19 08:30		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	112
96	95	5	9	7
173	174	0	2	1
174	95	50	200	89
175	174	5	9	8
176	174	95	105	101
177	176	5	10	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS320507190507_02-1470434	0507_02-1	05/07/19 08:30
LCS	R3409140-1	0507_03	05/07/19 08:50
BLANK	R3409140-3	0507_06	05/07/19 09:47
WW-20190503-002 DAY 5-A	L1095644-03	0507_28	05/07/19 18:22
WW-20190503-002 DAY 5-B	L1095644-04	0507_29	05/07/19 18:42
WW-20190503-002 DAY 5-C	L1095644-05	0507_30	05/07/19 19:02
WW-20190503-002 DAY 5-D	L1095644-06	0507_31	05/07/19 19:21

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	624.1
Instrument ID:	VOCMS32	**Calibration Start Date:**	03/13/19 19:12
Std File:	0507_02-1	**Calibration End Date:**	04/24/19 12:26
		Std Analysis Date:	05/07/19 08:30

Sample ID	File ID	1,4-DCB		8260-CB		8260-FB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		29924	7.92	40962	6.48	94300	4.54
UPPER LIMIT		59848		81924		188600	
LOWER LIMIT		14962		20481		47150	
LCS R3409140-1 WG1277073 1x	0507_03	30505	7.92	41603	6.48	95930	4.54
BLANK R3409140-3 WG1277073 1x	0507_06	27471	7.92	39726	6.48	95003	4.54
L1095644-03 WG1277073 1x	0507_28	23444	7.92	35201	6.48	83938	4.54
L1095644-04 WG1277073 1x	0507_29	22728	7.92	34492	6.48	82618	4.54
L1095644-05 WG1277073 1x	0507_30	22123	7.92	34061	6.48	82627	4.54
L1095644-06 WG1277073 1x	0507_31	21235	7.92	33345	6.48	80672	4.54

1,4-DCB - 8260-1,4-DICHLOROBENZENE-D4 8260-CB - 8260-CHLOROBENZENE-D5
8260-FB - 8260-FLUOROBENZENE

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-A

Lab Sample ID:	L1095644-03	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-A	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_28	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 18:22
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 18:22
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acetone	67-64-1	3.11	U		0.0100	0.0500	0.0500
Acrylonitrile	107-13-1	0	U		0.00187	0.0100	0.0100
Benzene	71-43-2	4.32	0.00279		0.000331	0.00100	0.00100
Bromobenzene	108-86-1	0	U		0.000352	0.00100	0.00100
Bromochloromethane	74-97-5	0	U		0.000520	0.00500	0.00500
Bromodichloromethane	75-27-4	0	U		0.000380	0.00100	0.00100
Bromoform	75-25-2	6.97	0.00702		0.000469	0.00100	0.00100
Bromomethane	74-83-9	0	U		0.000866	0.00500	0.00500
n-Butylbenzene	104-51-8	0	U		0.000361	0.00100	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000365	0.00100	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000399	0.00100	0.00100
Carbon disulfide	75-15-0	0	U		0.000275	0.00100	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000379	0.00100	0.00100
Chlorobenzene	108-90-7	0	U		0.000348	0.00100	0.00100
Chlorodibromomethane	124-48-1	5.98	0.000572	J	0.000327	0.00100	0.00100
Chloroethane	75-00-3	0	U		0.000453	0.00500	0.00500
Chloroform	67-66-3	0	U		0.000324	0.00500	0.00500
Chloromethane	74-87-3	0	U		0.000276	0.00250	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000375	0.00100	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000351	0.00100	0.00100
Cyclohexane	110-82-7	0	U		0.000390	0.00100	0.00100
Dibromomethane	74-95-3	0	U		0.000346	0.00100	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000349	0.00100	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000220	0.00100	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000274	0.00100	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000551	0.00500	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000259	0.00100	0.00100
1,2-Dichloroethane	107-06-2	0	U		0.000361	0.00100	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000398	0.00100	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000260	0.00100	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000396	0.00100	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000306	0.00100	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000321	0.00100	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000352	0.00100	0.00100
1,3-Dichloropropene	542-75-6	0	U		0.000320	0.00100	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000418	0.00100	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000419	0.00100	0.00100
Ethylbenzene	100-41-4	0	U		0.000384	0.00100	0.00100
2-Hexanone	591-78-6	0	U		0.00382	0.0100	0.0100
Isopropylbenzene	98-82-8	0	U		0.000326	0.00100	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000350	0.00100	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00393	0.0100	0.0100
Methyl Acetate	79-20-9	0	U		0.00430	0.0200	0.0200

ONE LAB. NATIONWIDE.

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-A

Lab Sample ID:	L1095644-03	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-A	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_28	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 18:22
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 18:22
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Methyl Cyclohexane	108-87-2	0	U		0.000380	0.00100	0.00100
Methylene Chloride	75-09-2	3.09	U		0.00100	0.00500	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.00214	0.0100	0.0100
Methyl tert-butyl ether	1634-04-4	3.23	U		0.000367	0.00100	0.00100
n-Propylbenzene	103-65-1	0	U		0.000349	0.00100	0.00100
Styrene	100-42-5	0	U		0.000307	0.00100	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000385	0.00100	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000130	0.00100	0.00100
Tetrachloroethene	127-18-4	0	U		0.000372	0.00100	0.00100
Toluene	108-88-3	5.50	0.000589	J	0.000412	0.00100	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.00100	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000355	0.00100	0.00100
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000373	0.00100	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000387	0.00100	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000319	0.00100	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000383	0.00100	0.00100
Trichloroethene	79-01-6	0	U		0.000398	0.00100	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.00120	0.00500	0.00500
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000303	0.00100	0.00100
1,2,3-Trichloropropane	96-18-4	0	U		0.000807	0.00250	0.00250
Vinyl chloride	75-01-4	0	U		0.000259	0.00100	0.00100
o-Xylene	95-47-6	0	U		0.000341	0.00100	0.00100
m&p-Xylene	1330-20-7	6.58	U		0.000719	0.00200	0.00200
Xylenes, Total	1330-20-7	6.58	U		0.00106	0.00300	0.00300

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-B

Lab Sample ID:	L1095644-04	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-B	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_29	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 18:42
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 18:42
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acetone	67-64-1	3.10	U		0.0100	0.0500	0.0500
Acrylonitrile	107-13-1	3.63	0.0194		0.00187	0.0100	0.0100
Benzene	71-43-2	4.32	0.00392		0.000331	0.00100	0.00100
Bromobenzene	108-86-1	0	U		0.000352	0.00100	0.00100
Bromochloromethane	74-97-5	0	U		0.000520	0.00500	0.00500
Bromodichloromethane	75-27-4	4.97	0.000712	J	0.000380	0.00100	0.00100
Bromoform	75-25-2	6.97	0.00571		0.000469	0.00100	0.00100
Bromomethane	74-83-9	0	U		0.000866	0.00500	0.00500
n-Butylbenzene	104-51-8	0	U		0.000361	0.00100	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000365	0.00100	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000399	0.00100	0.00100
Carbon disulfide	75-15-0	0	U		0.000275	0.00100	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000379	0.00100	0.00100
Chlorobenzene	108-90-7	0	U		0.000348	0.00100	0.00100
Chlorodibromomethane	124-48-1	5.98	0.000845	J	0.000327	0.00100	0.00100
Chloroethane	75-00-3	0	U		0.000453	0.00500	0.00500
Chloroform	67-66-3	0	U		0.000324	0.00500	0.00500
Chloromethane	74-87-3	0	U		0.000276	0.00250	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000375	0.00100	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000351	0.00100	0.00100
Cyclohexane	110-82-7	0	U		0.000390	0.00100	0.00100
Dibromomethane	74-95-3	0	U		0.000346	0.00100	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000349	0.00100	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000220	0.00100	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000274	0.00100	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000551	0.00500	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000259	0.00100	0.00100
1,2-Dichloroethane	107-06-2	4.43	0.00109		0.000361	0.00100	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000398	0.00100	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000260	0.00100	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000396	0.00100	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000306	0.00100	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000321	0.00100	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000352	0.00100	0.00100
1,3-Dichloropropene	542-75-6	0	U		0.000320	0.00100	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000418	0.00100	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000419	0.00100	0.00100
Ethylbenzene	100-41-4	0	U		0.000384	0.00100	0.00100
2-Hexanone	591-78-6	0	U		0.00382	0.0100	0.0100
Isopropylbenzene	98-82-8	0	U		0.000326	0.00100	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000350	0.00100	0.00100
2-Butanone (MEK)	78-93-3	4.14	U		0.00393	0.0100	0.0100
Methyl Acetate	79-20-9	3.17	U		0.00430	0.0200	0.0200

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.

SAMPLE NO.:
WW-20190503-002 DAY 5-B

Lab Sample ID:	L1095644-04	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-B	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_29	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 18:42
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 18:42
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Methyl Cyclohexane	108-87-2	4.64	U		0.000380	0.00100	0.00100
Methylene Chloride	75-09-2	0	U		0.00100	0.00500	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.00214	0.0100	0.0100
Methyl tert-butyl ether	1634-04-4	3.23	U		0.000367	0.00100	0.00100
n-Propylbenzene	103-65-1	0	U		0.000349	0.00100	0.00100
Styrene	100-42-5	0	U		0.000307	0.00100	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000385	0.00100	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000130	0.00100	0.00100
Tetrachloroethene	127-18-4	0	U		0.000372	0.00100	0.00100
Toluene	108-88-3	5.50	0.000523	J	0.000412	0.00100	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.00100	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000355	0.00100	0.00100
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000373	0.00100	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000387	0.00100	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000319	0.00100	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000383	0.00100	0.00100
Trichloroethene	79-01-6	0	U		0.000398	0.00100	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.00120	0.00500	0.00500
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000303	0.00100	0.00100
1,2,3-Trichloropropane	96-18-4	0	U		0.000807	0.00250	0.00250
Vinyl chloride	75-01-4	0	U		0.000259	0.00100	0.00100
o-Xylene	95-47-6	0	U		0.000341	0.00100	0.00100
m&p-Xylene	1330-20-7	0	U		0.000719	0.00200	0.00200
Xylenes, Total	1330-20-7	0	U		0.00106	0.00300	0.00300

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-C

Lab Sample ID:	L1095644-05	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-C	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_30	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 19:02
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 19:02
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acetone	67-64-1	3.10	U		0.0100	0.0500	0.0500
Acrylonitrile	107-13-1	0	U		0.00187	0.0100	0.0100
Benzene	71-43-2	4.32	0.0153		0.000331	0.00100	0.00100
Bromobenzene	108-86-1	0	U		0.000352	0.00100	0.00100
Bromochloromethane	74-97-5	0	U		0.000520	0.00500	0.00500
Bromodichloromethane	75-27-4	0	U		0.000380	0.00100	0.00100
Bromoform	75-25-2	6.97	0.00560		0.000469	0.00100	0.00100
Bromomethane	74-83-9	0	U		0.000866	0.00500	0.00500
n-Butylbenzene	104-51-8	0	U		0.000361	0.00100	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000365	0.00100	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000399	0.00100	0.00100
Carbon disulfide	75-15-0	0	U		0.000275	0.00100	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000379	0.00100	0.00100
Chlorobenzene	108-90-7	0	U		0.000348	0.00100	0.00100
Chlorodibromomethane	124-48-1	5.98	0.000938	J	0.000327	0.00100	0.00100
Chloroethane	75-00-3	0	U		0.000453	0.00500	0.00500
Chloroform	67-66-3	0	U		0.000324	0.00500	0.00500
Chloromethane	74-87-3	0	U		0.000276	0.00250	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000375	0.00100	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000351	0.00100	0.00100
Cyclohexane	110-82-7	0	U		0.000390	0.00100	0.00100
Dibromomethane	74-95-3	0	U		0.000346	0.00100	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000349	0.00100	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000220	0.00100	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000274	0.00100	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000551	0.00500	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000259	0.00100	0.00100
1,2-Dichloroethane	107-06-2	4.43	0.00146		0.000361	0.00100	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000398	0.00100	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000260	0.00100	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000396	0.00100	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000306	0.00100	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000321	0.00100	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000352	0.00100	0.00100
1,3-Dichloropropene	542-75-6	0	U		0.000320	0.00100	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000418	0.00100	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000419	0.00100	0.00100
Ethylbenzene	100-41-4	0	U		0.000384	0.00100	0.00100
2-Hexanone	591-78-6	0	U		0.00382	0.0100	0.0100
Isopropylbenzene	98-82-8	0	U		0.000326	0.00100	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000350	0.00100	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00393	0.0100	0.0100
Methyl Acetate	79-20-9	0	U		0.00430	0.0200	0.0200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-C

Lab Sample ID:	L1095644-05	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-C	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_30	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 19:02
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 19:02
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Methyl Cyclohexane	108-87-2	0	U		0.000380	0.00100	0.00100
Methylene Chloride	75-09-2	0	U		0.00100	0.00500	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.00214	0.0100	0.0100
Methyl tert-butyl ether	1634-04-4	3.22	0.000649	J	0.000367	0.00100	0.00100
n-Propylbenzene	103-65-1	0	U		0.000349	0.00100	0.00100
Styrene	100-42-5	0	U		0.000307	0.00100	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000385	0.00100	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000130	0.00100	0.00100
Tetrachloroethene	127-18-4	0	U		0.000372	0.00100	0.00100
Toluene	108-88-3	5.50	0.00329		0.000412	0.00100	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.00100	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000355	0.00100	0.00100
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000373	0.00100	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000387	0.00100	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000319	0.00100	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000383	0.00100	0.00100
Trichloroethene	79-01-6	0	U		0.000398	0.00100	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.00120	0.00500	0.00500
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000303	0.00100	0.00100
1,2,3-Trichloropropane	96-18-4	0	U		0.000807	0.00250	0.00250
Vinyl chloride	75-01-4	0	U		0.000259	0.00100	0.00100
o-Xylene	95-47-6	6.90	U		0.000341	0.00100	0.00100
m&p-Xylene	1330-20-7	6.59	U		0.000719	0.00200	0.00200
Xylenes, Total	1330-20-7	6.90	U		0.00106	0.00300	0.00300

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-D

Lab Sample ID:	L1095644-06	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-D	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_31	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 19:21
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 19:21
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acetone	67-64-1	3.11	U		0.0100	0.0500	0.0500
Acrylonitrile	107-13-1	0	U		0.00187	0.0100	0.0100
Benzene	71-43-2	4.32	0.0115		0.000331	0.00100	0.00100
Bromobenzene	108-86-1	0	U		0.000352	0.00100	0.00100
Bromochloromethane	74-97-5	0	U		0.000520	0.00500	0.00500
Bromodichloromethane	75-27-4	0	U		0.000380	0.00100	0.00100
Bromoform	75-25-2	6.97	0.0130		0.000469	0.00100	0.00100
Bromomethane	74-83-9	0	U		0.000866	0.00500	0.00500
n-Butylbenzene	104-51-8	0	U		0.000361	0.00100	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000365	0.00100	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000399	0.00100	0.00100
Carbon disulfide	75-15-0	0	U		0.000275	0.00100	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000379	0.00100	0.00100
Chlorobenzene	108-90-7	0	U		0.000348	0.00100	0.00100
Chlorodibromomethane	124-48-1	5.99	0.00199		0.000327	0.00100	0.00100
Chloroethane	75-00-3	0	U		0.000453	0.00500	0.00500
Chloroform	67-66-3	0	U		0.000324	0.00500	0.00500
Chloromethane	74-87-3	0	U		0.000276	0.00250	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000375	0.00100	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000351	0.00100	0.00100
Cyclohexane	110-82-7	0	U		0.000390	0.00100	0.00100
Dibromomethane	74-95-3	0	U		0.000346	0.00100	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000349	0.00100	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000220	0.00100	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000274	0.00100	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000551	0.00500	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000259	0.00100	0.00100
1,2-Dichloroethane	107-06-2	4.43	0.00115		0.000361	0.00100	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000398	0.00100	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000260	0.00100	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000396	0.00100	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000306	0.00100	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000321	0.00100	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000352	0.00100	0.00100
1,3-Dichloropropene	542-75-6	0	U		0.000320	0.00100	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000418	0.00100	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000419	0.00100	0.00100
Ethylbenzene	100-41-4	0	U		0.000384	0.00100	0.00100
2-Hexanone	591-78-6	0	U		0.00382	0.0100	0.0100
Isopropylbenzene	98-82-8	0	U		0.000326	0.00100	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000350	0.00100	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00393	0.0100	0.0100
Methyl Acetate	79-20-9	0	U		0.00430	0.0200	0.0200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-D

Lab Sample ID:	L1095644-06	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-D	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_31	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 19:21
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 19:21
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Methyl Cyclohexane	108-87-2	0	U		0.000380	0.00100	0.00100
Methylene Chloride	75-09-2	0	U		0.00100	0.00500	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.00214	0.0100	0.0100
Methyl tert-butyl ether	1634-04-4	3.23	0.000385	J	0.000367	0.00100	0.00100
n-Propylbenzene	103-65-1	0	U		0.000349	0.00100	0.00100
Styrene	100-42-5	0	U		0.000307	0.00100	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000385	0.00100	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000130	0.00100	0.00100
Tetrachloroethene	127-18-4	0	U		0.000372	0.00100	0.00100
Toluene	108-88-3	5.50	0.00310		0.000412	0.00100	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.00100	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000355	0.00100	0.00100
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000373	0.00100	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000387	0.00100	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000319	0.00100	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000383	0.00100	0.00100
Trichloroethene	79-01-6	0	U		0.000398	0.00100	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.00120	0.00500	0.00500
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000303	0.00100	0.00100
1,2,3-Trichloropropane	96-18-4	0	U		0.000807	0.00250	0.00250
Vinyl chloride	75-01-4	0	U		0.000259	0.00100	0.00100
o-Xylene	95-47-6	6.89	U		0.000341	0.00100	0.00100
m&p-Xylene	1330-20-7	6.59	U		0.000719	0.00200	0.00200
Xylenes, Total	1330-20-7	6.89	U		0.00106	0.00300	0.00300

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 624.1

Instrument ID: VOCMS32

Analyte	**RRF: 0.04**	**RRF: 0.1**	**RRF: 0.2**	**RRF: 0.5**	**RRF: 1**	**RRF: 2**	**RRF: 5.0**	**RRF: 25**	**RRF: 75**	**RRF: 100**
Analysis date/time	03/13/19 19:12	03/13/19 19:31	03/13/19 19:51	03/13/19 20:11	03/13/19 20:31	03/13/19 20:50	03/13/19 21:10	03/13/19 21:30	03/13/19 21:50	03/13/19 22:09
METHYL ACETATE	0.6970	0.4670	0.5680	0.5740	0.5350	0.5480	0.5590	0.5830	0.5740	0.5680
ACRYLONITRILE	0.3220	0.3430	0.3290	0.31	0.2960	0.2830	0.28	0.2890	0.2860	0.2810
METHYL TERT-BUTYL ETHER	1.1280	1.0620	1.0780	1.0120	0.9860	0.9590	0.9510	0.98	0.9280	0.9260
1,1,1-TRICHLOROETHANE	0.5930	0.6850	0.6210	0.5860	0.6190	0.5740	0.5450	0.5810	0.5790	0.5780
4-METHYL-2-PENTANONE (MIBK)	1.8630	1.9040	2.0560	1.9970	2.0280	1.9430	1.9480	1.9770	1.9620	1.9570
1,1,2-TRICHLOROETHANE	1.0370	1.0190	0.8280	0.76	0.8690	0.8590	0.8320	0.8370	0.8380	0.8630
2-HEXANONE	0.5910	0.5710	0.7980	0.7410	0.7270	0.7280	0.7290	0.7470	0.7570	0.7540
CHLOROBENZENE	2.0470	2.4570	2.8910	2.5730	2.4520	2.4530	2.4390	2.4830	2.4430	2.4930
STYRENE	2.1610	2.9920	2.9270	2.5970	2.68	2.6580	2.6420	2.7150	2.6240	2.6460
TERT-BUTYLBENZENE	3.1290	4.4590	4.0060	4.0130	4.1410	4.0590	3.7120	3.86	3.69	3.7380
SEC-BUTYLBENZENE	6.5230	5.7370	5.6620	5.2260	5.2940	5.2380	4.9280	5.0020	4.7080	4.80
1,3-DICHLOROBENZENE	2.5540	2.2720	2.3280	2.4360	2.2240	2.2110	2.1140	2.1840	2.1690	2.1940
P-ISOPROPYLTOLUENE	3.5670	4.0950	5.1450	4.4620	4.5190	4.2830	4.1620	4.1970	3.8680	3.9340
1,4-DICHLOROBENZENE	2.4630	2.1980	2.44	2.1850	2.2210	2.1280	2.0330	2.0730	2.0390	2.0780
1,2-DICHLOROETHANE-D4	0.3580	0.36	0.3590	0.3550	0.3460	0.3580	0.3650	0.3590	0.3590	0.3610
TOLUENE-D8	2.3960	2.4410	2.4650	2.4520	2.39	2.3210	2.3190	2.2950	2.3520	2.4310
4-BROMOFLUOROBENZENE	0.8960	0.90	0.9140	0.8860	0.90	0.9030	0.9190	0.9290	0.8970	0.9150
VINYL CHLORIDE		0.5420	0.5220	0.5510	0.4910	0.52	0.4810	0.5330	0.5370	0.5390
METHYLENE CHLORIDE		0.3080	0.4070	0.3730	0.40	0.3730	0.3590	0.3740	0.3580	0.3590
TRANS-1,2-DICHLOROETHENE		0.2640	0.3460	0.3870	0.3570	0.3470	0.3310	0.3570	0.3480	0.3470
1,1-DICHLOROETHANE		0.7690	0.8320	0.8470	0.7950	0.8230	0.8150	0.8240	0.8110	0.8140
CIS-1,2-DICHLOROETHENE		0.3850	0.4230	0.4230	0.4130	0.4250	0.39	0.3990	0.3930	0.3940
2-BUTANONE (MEK)		0.4110	0.38	0.3820	0.35	0.3620	0.3680	0.3890	0.3930	0.3820
CHLOROFORM		0.8720	0.7580	0.6880	0.7080	0.6860	0.6710	0.6950	0.6780	0.6820
CYCLOHEXANE		0.3940	0.5820	0.5010	0.4740	0.4980	0.4310	0.47	0.4770	0.4780
CARBON TETRACHLORIDE		0.4670	0.5460	0.6420	0.5530	0.5970	0.56	0.5880	0.6080	0.5980
1,1-DICHLOROPROPENE		0.4630	0.4680	0.4840	0.4770	0.5050	0.4740	0.5020	0.4930	0.4970
BENZENE		1.5520	1.7190	1.5070	1.4880	1.45	1.4140	1.4520	1.42	1.41
1,2-DICHLOROETHANE		0.7120	0.7890	0.6930	0.5950	0.6230	0.6240	0.6350	0.62	0.6260
TRICHLOROETHENE		0.4650	0.4630	0.4310	0.40	0.4140	0.3970	0.4080	0.4050	0.4080
DIBROMOMETHANE		0.2470	0.2930	0.2720	0.27	0.2760	0.2550	0.2670	0.2650	0.2660
CIS-1,3-DICHLOROPROPENE		0.5860	0.6760	0.63	0.6170	0.6340	0.6190	0.65	0.6490	0.65
TRANS-1,3-DICHLOROPROPENE		1.0970	1.4470	1.4730	1.4860	1.4890	1.41	1.5090	1.5420	1.5890
TETRACHLOROETHENE		0.6620	0.7470	0.8530	0.7650	0.7990	0.7580	0.8020	0.7950	0.8140
ETHYLBENZENE		1.1940	1.3240	1.3570	1.3110	1.3030	1.2890	1.3370	1.2880	1.3060
M&P-XYLENE		1.6650	1.8280	1.6660	1.6750	1.6080	1.5490	1.63	1.5580	1.5670
O-XYLENE		1.7730	1.7430	1.6960	1.65	1.5620	1.5410	1.6080	1.5060	1.5080
BROMOBENZENE		2.8860	2.95	2.80	2.6250	2.5230	2.4150	2.4380	2.5460	2.5860
1,1,2,2-TETRACHLOROETHANE		2.0860	2.2110	1.8570	1.8750	1.8070	1.7410	1.6770	1.7940	1.79
1,3,5-TRIMETHYLBENZENE		5.3320	5.4840	5.1320	5.2810	4.8980	4.7120	4.7350	4.5570	4.5810
1,2,4-TRICHLOROBENZENE		1.1170	1.1660	1.0690	1.0330	1.1020	1.0130	1.0880	0.8750	0.91
1,2,3-TRICHLOROBENZENE		1.0780	0.9210	1.0780	1.0310	0.9850	0.9890	0.9970	0.8030	0.8540
DICHLORODIFLUOROMETHANE			0.3070	0.3310	0.3010	0.3350	0.3140	0.36	0.3630	0.36
CHLOROMETHANE			0.8140	0.8090	0.7540	0.6810	0.6620	0.7140	0.7140	0.7110
TRICHLOROFLUOROMETHANE			0.6080	0.6260	0.5780	0.6040	0.5320	0.6140	0.6180	0.6160
1,1-DICHLOROETHENE			0.3350	0.34	0.3160	0.3190	0.3020	0.3240	0.3210	0.3240
1,1,2-TRICHLOROTRIFLUOROETHANE			0.3390	0.3070	0.3190	0.3450	0.2990	0.3490	0.3540	0.3530
ACETONE			0.27	0.2420	0.2210	0.2160	0.22	0.2290	0.2240	0.2240
CARBON DISULFIDE			1.2620	1.1220	1.0880	1.0710	0.9860	1.0650	1.0590	1.0570
BROMOCHLOROMETHANE			0.2340	0.2760	0.2530	0.2720	0.2630	0.2770	0.2730	0.2720

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 624.1

Instrument ID: VOCMS32

Analyte	**RRF: 0.04**	**RRF: 0.1**	**RRF: 0.2**	**RRF: 0.5**	**RRF: 1**	**RRF: 2**	**RRF: 5.0**	**RRF: 25**	**RRF: 75**	**RRF: 100**
Analysis date/time	03/13/19 19:12	03/13/19 19:31	03/13/19 19:51	03/13/19 20:11	03/13/19 20:31	03/13/19 20:50	03/13/19 21:10	03/13/19 21:30	03/13/19 21:50	03/13/19 22:09
1,2-DICHLOROPROPANE			0.3050	0.3310	0.3410	0.3590	0.3310	0.3370	0.3360	0.3350
BROMODICHLOROMETHANE			0.6540	0.5630	0.52	0.5330	0.53	0.5320	0.5210	0.5240
TOLUENE			4.9920	4.37	4.0910	3.8110	3.6880	3.8150	3.7840	3.9120
CHLORODIBROMOMETHANE			0.9530	0.9980	1.0560	1.05	1.04	1.06	1.0830	1.1030
1,1,1,2-TETRACHLOROETHANE			0.9440	0.85	0.9410	0.89	0.9120	0.93	0.8870	0.9090
BROMOFORM			0.6820	0.8490	0.8190	0.8080	0.8330	0.8510	0.8460	0.8550
ISOPROPYLBENZENE			4.83	4.4690	4.2110	4.0830	3.9820	4.1020	3.7580	3.7720
1,2,3-TRICHLOROPROPANE			0.47	0.5870	0.5130	0.5620	0.5290	0.5120	0.5430	0.5510
N-PROPYLBENZENE			7.4360	7.0640	6.9480	6.8090	6.3220	6.5480	6.6670	6.7020
4-CHLOROTOLUENE			4.6720	4.1580	4.3030	4.0890	4.0270	4.09	4.1740	4.2470
1,2,4-TRIMETHYLBENZENE			5.3580	4.7470	4.8860	4.5480	4.3960	4.4830	4.2230	4.2480
BROMOMETHANE				0.3750	0.3560	0.3340	0.2940	0.3060	0.2920	0.2910
CHLOROETHANE				0.2940	0.3390	0.32	0.2660	0.2780	0.2670	0.2640
2,2-DICHLOROPROPANE				0.3910	0.4110	0.39	0.3590	0.3620	0.33	0.3320
2-CHLOROTOLUENE				4.4620	4.6270	4.4120	4.2250	4.3510	4.3090	4.3970
1,2-DICHLOROBENZENE				1.8750	1.78	1.74	1.6650	1.7450	1.6630	1.6880
N-BUTYLBENZENE				3.3110	3.3710	2.8130	2.7660	2.9830	2.6450	2.7110
METHYL CYCLOHEXANE					0.6880	0.6350	0.5080	0.5420	0.5410	0.5450
File ID:	0313_08	0313_09	0313_10	0313_11	0313_12	0313_13	0313_14	0313_15	0313_16	0313_17

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 624.1

Instrument ID: VOCMS32

Analyte	RRF: 200	RRF. Avg	%RSD	COD
Analysis date/time	03/13/19 22:29			
METHYL ACETATE	0.57	0.567518	9.43	
ACRYLONITRILE	0.2850	0.300324	7.39	
METHYL TERT-BUTYL ETHER	0.9240	0.994075	6.9	
1,1,1-TRICHLOROETHANE	0.5970	0.596102	6.06	
4-METHYL-2-PENTANONE (MIBK)	1.8680	1.954956	3.1	
1,1,2-TRICHLOROETHANE	0.8520	0.872095	9.46	
2-HEXANONE	0.7320	0.715863	9.74	
CHLOROBENZENE	2.3920	2.465764	7.87	
STYRENE	2.5480	2.653591	8.01	
TERT-BUTYLBENZENE	3.8880	3.881309	8.61	
SEC-BUTYLBENZENE	4.9850	5.282131	9.93	
1,3-DICHLOROBENZENE	2.1190	2.254956	6.04	
P-ISOPROPYLTOLUENE	4.1220	4.213964	9.69	
1,4-DICHLOROBENZENE	2.0320	2.171986	7.08	
1,2-DICHLOROETHANE-D4	0.3570	0.357974	1.27	
TOLUENE-D8	2.3570	2.383499	2.47	
4-BROMOFLUOROBENZENE	0.8730	0.902858	1.75	
VINYL CHLORIDE	0.5790	0.529583	5.36	
METHYLENE CHLORIDE	0.3660	0.367772	7.28	
TRANS-1,2-DICHLOROETHENE	0.35	0.343442	9.08	
1,1-DICHLOROETHANE	0.8220	0.815251	2.59	
CIS-1,2-DICHLOROETHENE	0.3990	0.404491	3.75	
2-BUTANONE (MEK)	0.3810	0.379738	4.51	
CHLOROFORM	0.6920	0.713025	8.55	
CYCLOHEXANE	0.4880	0.479434	10.13	
CARBON TETRACHLORIDE	0.6230	0.578054	8.59	
1,1-DICHLOROPROPENE	0.5010	0.486261	3.12	
BENZENE	1.4250	1.483708	6.38	
1,2-DICHLOROETHANE	0.6320	0.654942	8.97	
TRICHLOROETHENE	0.41	0.420146	5.95	
DIBROMOMETHANE	0.2690	0.26796	4.52	
CIS-1,3-DICHLOROPROPENE	0.6530	0.636558	3.93	
TRANS-1,3-DICHLOROPROPENE	1.5550	1.459769	9.45	
TETRACHLOROETHENE	0.7910	0.77855	6.54	
ETHYLBENZENE	1.2620	1.297099	3.47	
M&P-XYLENE	1.5070	1.625318	5.61	
O-XYLENE	1.4850	1.607269	6.46	
BROMOBENZENE	2.5530	2.632167	7	
1,1,2,2-TETRACHLOROETHANE	1.8090	1.864647	8.7	
1,3,5-TRIMETHYLBENZENE	4.7570	4.946873	6.76	
1,2,4-TRICHLOROBENZENE	0.9920	1.03641	8.86	
1,2,3-TRICHLOROBENZENE	0.9650	0.970254	9.22	
DICHLORODIFLUOROMETHANE	0.3730	0.338354	7.93	
CHLOROMETHANE	0.7470	0.734081	7.12	
TRICHLOROFLUOROMETHANE	0.6330	0.603299	5.13	
1,1-DICHLOROETHENE	0.3310	0.323699	3.46	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.3620	0.336364	6.69	
ACETONE	0.2230	0.229864	7.35	
CARBON DISULFIDE	1.0790	1.087645	6.85	
BROMOCHLOROMETHANE	0.2790	0.266571	5.42	

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 624.1

Instrument ID: VOCMS32

Analyte	**RRF: 200**	**RRF. Avg**	**%RSD**	**COD**
Analysis date/time	03/13/19 22:29			
1,2-DICHLOROPROPANE	0.3440	0.335604	4.26	
BROMODICHLOROMETHANE	0.5320	0.545383	7.82	
TOLUENE	3.8330	4.032941	10.26	
CHLORODIBROMOMETHANE	1.0970	1.048936	4.58	
1,1,1,2-TETRACHLOROETHANE	0.9040	0.907454	3.24	
BROMOFORM	0.8460	0.821149	6.63	
ISOPROPYLBENZENE	3.73	4.104152	8.86	
1,2,3-TRICHLOROPROPANE	0.5460	0.534851	6.31	
N-PROPYLBENZENE	6.66	6.79519	4.75	
4-CHLOROTOLUENE	4.1170	4.208669	4.59	
1,2,4-TRIMETHYLBENZENE	4.38	4.585439	7.9	
BROMOMETHANE	0.2980	0.318304	10.24	
CHLOROETHANE	0.2590	0.285885	10.24	
2,2-DICHLOROPROPANE	0.3140	0.361249	9.52	
2-CHLOROTOLUENE	4.3830	4.395718	2.68	
1,2-DICHLOROBENZENE	1.7120	1.733674	4.05	
N-BUTYLBENZENE	2.74	2.917578	9.58	
METHYL CYCLOHEXANE	0.5570	0.573608	11.09	
File ID:	0313_18			

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0313_21-6	**Analysis date/time:**	03/13/19 23:48
Analytical Method:	624.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,1,1,2-TETRACHLOROETHANE	0.907454	0.89770040		1.07	40	0.0250	0.0247313	98.90	75 - 122
1,1,1-TRICHLOROETHANE	0.596102	0.55278390		7.27	40	0.0250	0.02318327	92.70	70 - 130
1,1,2,2-TETRACHLOROETHANE	1.864647	1.670467		10.40	30	0.0250	0.02239656	89.60	60 - 140
1,1,2-TRICHLOROETHANE	0.872095	0.85784730		1.63	40	0.0250	0.02459158	98.40	78 - 120
1,1,2-TRICHLOROTRIFLUOROETHANE	0.336364	0.33407960		0.6790	40	0.0250	0.02483024	99.30	61 - 136
1,1-DICHLOROETHANE	0.815251	0.799180		1.97	30	0.0250	0.02450717	98	70 - 130
1,1-DICHLOROETHENE	0.323699	0.31880420		1.51	30	0.0250	0.02462193	98.50	50 - 150
1,1-DICHLOROPROPENE	0.486261	0.47994570		1.30	40	0.0250	0.02467531	98.70	71 - 129
1,2,3-TRICHLOROBENZENE	0.970254	0.95266720		1.81	40	0.0250	0.02454684	98.20	61 - 133
1,2,3-TRICHLOROPROPANE	0.534851	0.513346		4.02	40	0.0250	0.0239948	96	72 - 124
1,2,4-TRICHLOROBENZENE	1.036410	1.029910		0.6270	40	0.0250	0.0248432	99.40	69 - 129
1,2,4-TRIMETHYLBENZENE	4.585439	4.332415		5.52	40	0.0250	0.0236205	94.50	75 - 120
1,2-DICHLOROBENZENE	1.733674	1.700649		1.90	40	0.0250	0.02452376	98.10	65 - 135
1,2-DICHLOROETHANE	0.654942	0.61011530		6.84	40	0.0250	0.02328891	93.20	70 - 130
1,2-DICHLOROPROPANE	0.335604	0.33922850		1.08	30	0.0250	0.02526996	101	35 - 165
1,3,5-TRIMETHYLBENZENE	4.946873	4.639405		6.22	40	0.0250	0.02344615	93.80	75 - 120
1,3-DICHLOROBENZENE	2.254956	2.182915		3.19	40	0.0250	0.0242013	96.80	70 - 130
1,4-DICHLOROBENZENE	2.171986	2.050878		5.58	40	0.0250	0.02360602	94.40	65 - 135
2,2-DICHLOROPROPANE	0.361249	0.33515290		7.22	40	0.0250	0.02319405	92.80	60 - 125
2-BUTANONE (MEK)	0.379738	0.39468360		3.94	40	0.1250	0.1299198	104	37 - 158
2-CHLOROTOLUENE	4.395718	4.202992		4.38	40	0.0250	0.0239039	95.60	74 - 122
2-HEXANONE	0.715863	0.73793820		3.08	40	0.1250	0.1288546	103	58 - 147
4-CHLOROTOLUENE	4.208669	4.021929		4.44	40	0.0250	0.02389074	95.60	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.954956	1.887176		3.47	40	0.1250	0.1206661	96.50	59 - 143
ACETONE	0.229864	0.23429430		1.93	40	0.1250	0.1274091	102	10 - 160
ACRYLONITRILE	0.300324	0.27860050		7.23	40	0.1250	0.1159581	92.80	60 - 140
BENZENE	1.483708	1.390356		6.29	40	0.0250	0.02342706	93.70	65 - 135
BROMOBENZENE	2.632167	2.373971		9.81	40	0.0250	0.02254769	90.20	79 - 120
BROMOCHLOROMETHANE	0.266571	0.263795		1.04	40	0.0250	0.02473969	99	76 - 122
BROMODICHLOROMETHANE	0.545383	0.52373190		3.97	40	0.0250	0.02400752	96	65 - 135
BROMOFORM	0.821149	0.876985		6.80	30	0.0250	0.02669993	107	70 - 130
BROMOMETHANE	0.318304	0.30788190		3.27	40	0.0250	0.02418143	96.70	15 - 185
CARBON DISULFIDE	1.087645	1.053788		3.11	40	0.0250	0.02422176	96.90	55 - 127
CARBON TETRACHLORIDE	0.578054	0.57281040		0.9070	40	0.0250	0.02477321	99.10	70 - 130
CHLOROBENZENE	2.465764	2.427330		1.56	30	0.0250	0.02461032	98.40	65 - 135
CHLORODIBROMOMETHANE	1.048936	1.108056		5.64	40	0.0250	0.02640906	106	70 - 135
CHLOROETHANE	0.285885	0.29527570		3.28	40	0.0250	0.02582124	103	40 - 160
CHLOROFORM	0.713025	0.682713		4.25	30	0.0250	0.0239372	95.70	70 - 130
CHLOROMETHANE	0.734081	0.82015030		11.70	30	0.0250	0.02793121	112	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.404491	0.39097620		3.34	40	0.0250	0.02416468	96.70	73 - 120
CIS-1,3-DICHLOROPROPENE	0.636558	0.63973640		0.4990	40	0.0250	0.02512482	100	25 - 175
CYCLOHEXANE	0.479434	0.48064880		0.2530	40	0.0250	0.02506335	100	70 - 130
DIBROMOMETHANE	0.267960	0.25662920		4.23	40	0.0250	0.02394284	95.80	78 - 120
DICHLORODIFLUOROMETHANE	0.338354	0.56607010		67.30	40	0.0250	0.04182523	167	49 - 155
ETHYLBENZENE	1.297099	1.293803		0.2540	30	0.0250	0.02493647	99.70	60 - 140
ISOPROPYLBENZENE	4.104152	4.041763		1.52	40	0.0250	0.02461996	98.50	75 - 120
M&P-XYLENE	1.625318	1.594120		1.92	40	0.05	0.04904025	98.10	77 - 120

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0313_21-6	**Analysis date/time:**	03/13/19 23:48
Analytical Method:	624.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
METHYL ACETATE	0.567518	0.56809440		0.1020	40	0.1250	0.125127	100	70 - 130
METHYL CYCLOHEXANE	0.573608	0.536153		6.53	40	0.0250	0.02336758	93.50	70 - 130
METHYL TERT-BUTYL ETHER	0.994075	0.90545580		8.91	40	0.0250	0.02277132	91.10	64 - 123
METHYLENE CHLORIDE	0.367772	0.36168830		1.65	40	0.0250	0.02458643	98.30	60 - 140
N-BUTYLBENZENE	2.917578	2.841046		2.62	40	0.0250	0.02434422	97.40	72 - 126
N-PROPYLBENZENE	6.795190	6.448669		5.10	40	0.0250	0.02372512	94.90	79 - 120
O-XYLENE	1.607269	1.552888		3.38	40	0.0250	0.02415414	96.60	78 - 120
P-ISOPROPYLTOLUENE	4.213964	4.037894		4.18	40	0.0250	0.02395544	95.80	74 - 126
SEC-BUTYLBENZENE	5.282131	4.879672		7.62	40	0.0250	0.02309518	92.40	74 - 121
STYRENE	2.653591	2.743238		3.38	40	0.0250	0.02584458	103	78 - 124
TERT-BUTYLBENZENE	3.881309	3.747303		3.45	40	0.0250	0.02413685	96.50	75 - 122
TETRACHLOROETHENE	0.778550	0.77231790		0.80	40	0.0250	0.0247999	99.20	70 - 130
TOLUENE	4.032941	3.736253		7.36	30	0.0250	0.02316085	92.60	70 - 130
TRANS-1,2-DICHLOROETHENE	0.343442	0.34174040		0.4950	40	0.0250	0.02487614	99.50	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.459769	1.477257		1.20	40	0.0250	0.02529949	101	50 - 150
TRICHLOROETHENE	0.420146	0.38937090		7.32	40	0.0250	0.02316878	92.70	65 - 135
TRICHLOROFLUOROMETHANE	0.603299	0.64270170		6.53	40	0.0250	0.02663282	107	50 - 150
VINYL CHLORIDE	0.529583	0.57060370		7.75	30	0.0250	0.02693644	108	5 - 195
XYLENES, TOTAL	0	2.153888		0	40	0.0750	0.07319439	97.60	77 - 120
1,2-DICHLOROETHANE-D4	0.357974	0.352033		1.66	40	0.0160	0.01573448	98.30	70 - 130
4-BROMOFLUOROBENZENE	0.902858	0.91830870		1.71	40	0.0160	0.01627382	102	70 - 130
TOLUENE-D8	2.383499	2.420943		1.57	40	0.0160	0.01625135	102	70 - 130

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0507_02-1	**Analysis date/time:**	05/07/19 08:30
Analytical Method:	624.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,1,1,2-TETRACHLOROETHANE	0.907454	0.93465760		3		0.0250	0.02574946	103	75 - 122
1,1,1-TRICHLOROETHANE	0.596102	0.62784480		5.33		0.0250	0.02633126	105	70 - 130
1,1,2,2-TETRACHLOROETHANE	1.864647	1.677786		10		0.0250	0.02249469	90	60 - 140
1,1,2-TRICHLOROETHANE	0.872095	0.90764330		4.08		0.0250	0.02601906	104	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.336364	0.37204840		10.60		0.0250	0.02765225	111	61 - 136
1,1-DICHLOROETHANE	0.815251	0.89859270		10.20		0.0250	0.02755569	110	70 - 130
1,1-DICHLOROETHENE	0.323699	0.35267870		8.95		0.0250	0.02723813	109	50 - 150
1,1-DICHLOROPROPENE	0.486261	0.520565		7.05		0.0250	0.02676367	107	71 - 129
1,2,3-TRICHLOROBENZENE	0.970254	0.90133420		7.10		0.0250	0.02322417	92.90	61 - 133
1,2,3-TRICHLOROPROPANE	0.534851	0.50459570		5.66		0.0250	0.02358579	94.30	72 - 124
1,2,4-TRICHLOROBENZENE	1.036410	0.96519720		6.87		0.0250	0.02328222	93.10	69 - 129
1,2,4-TRIMETHYLBENZENE	4.585439	4.382195		4.43		0.0250	0.02389191	95.60	75 - 120
1,2-DICHLOROBENZENE	1.733674	1.664548		3.99		0.0250	0.02400318	96	65 - 135
1,2-DICHLOROETHANE	0.654942	0.67620780		3.25		0.0250	0.02581175	103	70 - 130
1,2-DICHLOROPROPANE	0.335604	0.38103420		13.50		0.0250	0.02838417	114	35 - 165
1,3,5-TRIMETHYLBENZENE	4.946873	4.660190		5.80		0.0250	0.02355119	94.20	75 - 120
1,3-DICHLOROBENZENE	2.254956	2.167625		3.87		0.0250	0.02403178	96.10	70 - 130
1,4-DICHLOROBENZENE	2.171986	2.056003		5.34		0.0250	0.02366501	94.70	65 - 135
2,2-DICHLOROPROPANE	0.361249	0.37124080		2.77		0.0250	0.02569149	103	60 - 125
2-BUTANONE (MEK)	0.379738	0.34545340		9.03		0.1250	0.1137144	91	37 - 158
2-CHLOROTOLUENE	4.395718	4.345665		1.14		0.0250	0.02471533	98.90	74 - 122
2-HEXANONE	0.715863	0.67465450		5.76		0.1250	0.1178044	94.20	58 - 147
4-CHLOROTOLUENE	4.208669	4.023740		4.39		0.0250	0.0239015	95.60	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.954956	1.693289		13.40		0.1250	0.108269	86.60	59 - 143
ACETONE	0.229864	0.21977320		4.39		0.1250	0.1195125	95.60	10 - 160
ACRYLONITRILE	0.300324	0.25809170		14.10		0.1250	0.1074221	85.90	60 - 140
BENZENE	1.483708	1.584234		6.78		0.0250	0.02669384	107	65 - 135
BROMOBENZENE	2.632167	2.509718		4.65		0.0250	0.02383699	95.30	79 - 120
BROMOCHLOROMETHANE	0.266571	0.30139730		13.10		0.0250	0.02826617	113	76 - 122
BROMODICHLOROMETHANE	0.545383	0.56158480		2.97		0.0250	0.02574267	103	65 - 135
BROMOFORM	0.821149	0.79186770		3.57		0.0250	0.02410852	96.40	70 - 130
BROMOMETHANE	0.318304	0.34976040		9.88		0.0250	0.02747062	110	15 - 185
CARBON DISULFIDE	1.087645	1.100162		1.15		0.0250	0.0252877	101	55 - 127
CARBON TETRACHLORIDE	0.578054	0.60343930		4.39		0.0250	0.02609786	104	70 - 130
CHLOROBENZENE	2.465764	2.612622		5.96		0.0250	0.02648897	106	65 - 135
CHLORODIBROMOMETHANE	1.048936	1.050714		0.17		0.0250	0.02504239	100	70 - 135
CHLOROETHANE	0.285885	0.33153770		16		0.0250	0.02899226	116	40 - 160
CHLOROFORM	0.713025	0.76675130		7.53		0.0250	0.02688373	108	70 - 130
CHLOROMETHANE	0.734081	0.70116320		4.48		0.0250	0.02387896	95.50	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.404491	0.44764710		10.70		0.0250	0.02766729	111	73 - 120
CIS-1,3-DICHLOROPROPENE	0.636558	0.65719120		3.24		0.0250	0.02581034	103	25 - 175
CYCLOHEXANE	0.479434	0.51953340		8.36		0.0250	0.02709098	108	70 - 130
DIBROMOMETHANE	0.267960	0.28894340		7.83		0.0250	0.02695768	108	78 - 120
DICHLORODIFLUOROMETHANE	0.338354	0.39175060		15.80		0.0250	0.02894528	116	49 - 155
ETHYLBENZENE	1.297099	1.385636		6.83		0.0250	0.02670643	107	60 - 140
ISOPROPYLBENZENE	4.104152	4.060709		1.06		0.0250	0.02473536	98.90	75 - 120
M&P-XYLENE	1.625318	1.692707		4.15		0.05	0.05207308	104	77 - 120

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0507_02-1	**Analysis date/time:**	05/07/19 08:30
Analytical Method:	624.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
METHYL ACETATE	0.567518	0.50075010		11.80		0.1250	0.1102939	88.20	70 - 130
METHYL CYCLOHEXANE	0.573608	0.57735060		0.6520		0.0250	0.02516313	101	70 - 130
METHYL TERT-BUTYL ETHER	0.994075	1.013854		1.99		0.0250	0.02549742	102	64 - 123
METHYLENE CHLORIDE	0.367772	0.41678730		13.30		0.0250	0.02833189	113	60 - 140
N-BUTYLBENZENE	2.917578	2.772464		4.97		0.0250	0.02375655	95	72 - 126
N-PROPYLBENZENE	6.795190	6.671387		1.82		0.0250	0.02454451	98.20	79 - 120
O-XYLENE	1.607269	1.631311		1.50		0.0250	0.02537395	101	78 - 120
P-ISOPROPYLTOLUENE	4.213964	4.236247		0.5290		0.0250	0.02513219	101	74 - 126
SEC-BUTYLBENZENE	5.282131	5.137902		2.73		0.0250	0.02431737	97.30	74 - 121
STYRENE	2.653591	2.704602		1.92		0.0250	0.02548059	102	78 - 124
TERT-BUTYLBENZENE	3.881309	3.894196		0.3320		0.0250	0.02508301	100	75 - 122
TETRACHLOROETHENE	0.778550	0.84306830		8.29		0.0250	0.02707176	108	70 - 130
TOLUENE	4.032941	3.929902		2.55		0.0250	0.02436127	97.40	70 - 130
TRANS-1,2-DICHLOROETHENE	0.343442	0.39460110		14.90		0.0250	0.028724	115	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.459769	1.417462		2.90		0.0250	0.02427545	97.10	50 - 150
TRICHLOROETHENE	0.420146	0.46884920		11.60		0.0250	0.02789799	112	65 - 135
TRICHLOROFLUOROMETHANE	0.603299	0.61336170		1.67		0.0250	0.025417	102	50 - 150
VINYL CHLORIDE	0.529583	0.62817730		18.60		0.0250	0.02965431	119	5 - 195
XYLENES, TOTAL	0	2.289077		0		0.0750	0.07744703	103	77 - 120
1,2-DICHLOROETHANE-D4	0.357974	0.35022270		2.17		0.0160	0.01565357	97.80	70 - 130
4-BROMOFLUOROBENZENE	0.902858	0.88272060		2.23		0.0160	0.01564314	97.80	70 - 130
TOLUENE-D8	2.383499	2.231410		6.38		0.0160	0.01497905	93.60	70 - 130

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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409140-3

Lab Sample ID:	R3409140-3	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507_06	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 09:47
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 09:47
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acetone	67-64-1	0	U		0.0100	0.05	0.0500
Acrylonitrile	107-13-1	0	U		0.00187	0.01	0.0100
Benzene	71-43-2	0	U		0.000331	0.0010	0.00100
Bromobenzene	108-86-1	0	U		0.000352	0.0010	0.00100
Bromochloromethane	74-97-5	0	U		0.000520	0.0050	0.00500
Bromodichloromethane	75-27-4	0	U		0.000380	0.0010	0.00100
Bromoform	75-25-2	0	U		0.000469	0.0010	0.00100
Bromomethane	74-83-9	0	U		0.000866	0.0050	0.00500
Carbon disulfide	75-15-0	0	U		0.000275	0.0010	0.00100
n-Butylbenzene	104-51-8	0	U		0.000361	0.0010	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000365	0.0010	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000399	0.0010	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000379	0.0010	0.00100
Chlorobenzene	108-90-7	0	U		0.000348	0.0010	0.00100
Chlorodibromomethane	124-48-1	0	U		0.000327	0.0010	0.00100
Chloroethane	75-00-3	0	U		0.000453	0.0050	0.00500
Cyclohexane	110-82-7	0	U		0.000390	0.0010	0.00100
Chloroform	67-66-3	0	U		0.000324	0.0050	0.00500
Chloromethane	74-87-3	0	U		0.000276	0.0025	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000375	0.0010	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000351	0.0010	0.00100
Dibromomethane	74-95-3	0	U		0.000346	0.0010	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000349	0.0010	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000220	0.0010	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000274	0.0010	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000551	0.0050	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000259	0.0010	0.00100
1,2-Dichloroethane	107-06-2	0	U		0.000361	0.0010	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000398	0.0010	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000260	0.0010	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000396	0.0010	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000306	0.0010	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000352	0.0010	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000418	0.0010	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000419	0.0010	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000321	0.0010	0.00100
Ethylbenzene	100-41-4	0	U		0.000384	0.0010	0.00100
2-Hexanone	591-78-6	0	U		0.00382	0.01	0.0100
Methyl Acetate	79-20-9	0	U		0.00430	0.02	0.0200
Isopropylbenzene	98-82-8	0	U		0.000326	0.0010	0.00100
Methyl Cyclohexane	108-87-2	0	U		0.000380	0.0010	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000350	0.0010	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00393	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409140-3

Lab Sample ID:	R3409140-3	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507_06	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 09:47
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 09:47
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Methylene Chloride	75-09-2	0	U		0.00100	0.0050	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.00214	0.01	0.0100
Methyl tert-butyl ether	1634-04-4	0	U		0.000367	0.0010	0.00100
n-Propylbenzene	103-65-1	0	U		0.000349	0.0010	0.00100
Styrene	100-42-5	0	U		0.000307	0.0010	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000385	0.0010	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000130	0.0010	0.00100
Tetrachloroethene	127-18-4	0	U		0.000372	0.0010	0.00100
Toluene	108-88-3	0	U		0.000412	0.0010	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000303	0.0010	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.0010	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000355	0.0010	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000319	0.0010	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000383	0.0010	0.00100
Trichloroethene	79-01-6	0	U		0.000398	0.0010	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.00120	0.0050	0.00500
1,2,3-Trichloropropane	96-18-4	0	U		0.000807	0.0025	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000373	0.0010	0.00100
o-Xylene	95-47-6	0	U		0.000341	0.0010	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000387	0.0010	0.00100
m&p-Xylene	1330-20-7	0	U		0.000719	0.0020	0.00200
Vinyl chloride	75-01-4	0	U		0.000259	0.0010	0.00100
Xylenes, Total	1330-20-7	0	U		0.00106	0.0030	0.00300
1,3-Dichloropropene	542-75-6	0	U		0.000320	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409140-3

Lab Sample ID:	R3409140-3	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507_06	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 09:47
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 09:47
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acetone	67-64-1	0	U		0.0100	0.05	0.0500
Acrylonitrile	107-13-1	0	U		0.00187	0.01	0.0100
Benzene	71-43-2	0	U		0.000331	0.0010	0.00100
Bromobenzene	108-86-1	0	U		0.000352	0.0010	0.00100
Bromochloromethane	74-97-5	0	U		0.000520	0.0050	0.00500
Bromodichloromethane	75-27-4	0	U		0.000380	0.0010	0.00100
Bromoform	75-25-2	0	U		0.000469	0.0010	0.00100
Bromomethane	74-83-9	0	U		0.000866	0.0050	0.00500
Carbon disulfide	75-15-0	0	U		0.000275	0.0010	0.00100
n-Butylbenzene	104-51-8	0	U		0.000361	0.0010	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000365	0.0010	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000399	0.0010	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000379	0.0010	0.00100
Chlorobenzene	108-90-7	0	U		0.000348	0.0010	0.00100
Chlorodibromomethane	124-48-1	0	U		0.000327	0.0010	0.00100
Chloroethane	75-00-3	0	U		0.000453	0.0050	0.00500
Cyclohexane	110-82-7	0	U		0.000390	0.0010	0.00100
Chloroform	67-66-3	0	U		0.000324	0.0050	0.00500
Chloromethane	74-87-3	0	U		0.000276	0.0025	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000375	0.0010	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000351	0.0010	0.00100
Dibromomethane	74-95-3	0	U		0.000346	0.0010	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000349	0.0010	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000220	0.0010	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000274	0.0010	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000551	0.0050	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000259	0.0010	0.00100
1,2-Dichloroethane	107-06-2	0	U		0.000361	0.0010	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000398	0.0010	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000260	0.0010	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000396	0.0010	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000306	0.0010	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000352	0.0010	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000418	0.0010	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000419	0.0010	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000321	0.0010	0.00100
Ethylbenzene	100-41-4	0	U		0.000384	0.0010	0.00100
2-Hexanone	591-78-6	0	U		0.00382	0.01	0.0100
Methyl Acetate	79-20-9	0	U		0.00430	0.02	0.0200
Isopropylbenzene	98-82-8	0	U		0.000326	0.0010	0.00100
Methyl Cyclohexane	108-87-2	0	U		0.000380	0.0010	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000350	0.0010	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00393	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409140-3

Lab Sample ID:	R3409140-3	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507_06	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 09:47
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 09:47
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Methylene Chloride	75-09-2	0	U		0.00100	0.0050	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.00214	0.01	0.0100
Methyl tert-butyl ether	1634-04-4	0	U		0.000367	0.0010	0.00100
n-Propylbenzene	103-65-1	0	U		0.000349	0.0010	0.00100
Styrene	100-42-5	0	U		0.000307	0.0010	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000385	0.0010	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000130	0.0010	0.00100
Tetrachloroethene	127-18-4	0	U		0.000372	0.0010	0.00100
Toluene	108-88-3	0	U		0.000412	0.0010	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000303	0.0010	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.0010	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000355	0.0010	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000319	0.0010	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000383	0.0010	0.00100
Trichloroethene	79-01-6	0	U		0.000398	0.0010	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.00120	0.0050	0.00500
1,2,3-Trichloropropane	96-18-4	0	U		0.000807	0.0025	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000373	0.0010	0.00100
o-Xylene	95-47-6	0	U		0.000341	0.0010	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000387	0.0010	0.00100
m&p-Xylene	1330-20-7	0	U		0.000719	0.0020	0.00200
Vinyl chloride	75-01-4	0	U		0.000259	0.0010	0.00100
Xylenes, Total	1330-20-7	0	U		0.00106	0.0030	0.00300
1,3-Dichloropropene	542-75-6	0	U		0.000320	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409140-1

Lab Sample ID:	R3409140-1	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507_03	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 08:50
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 08:50
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Bromochloromethane	74-97-5	3.95	0.0281		0.000520	0.0010	0.00100
Carbon disulfide	75-15-0	2.77	0.0252		0.000275	0.0010	0.00100
Acetone	67-64-1	3.10	0.120		0.0100	0.05	0.0500
Acrylonitrile	107-13-1	3.56	0.108		0.00187	0.01	0.0100
Benzene	71-43-2	4.32	0.0266		0.000331	0.0010	0.00100
Bromobenzene	108-86-1	7.39	0.0236		0.000352	0.0010	0.00100
Bromodichloromethane	75-27-4	4.97	0.0254		0.000380	0.0010	0.00100
Bromoform	75-25-2	6.97	0.0240		0.000469	0.0010	0.00100
Bromomethane	74-83-9	2.20	0.0262		0.000866	0.0050	0.00500
n-Butylbenzene	104-51-8	7.99	0.0240		0.000361	0.0010	0.00100
sec-Butylbenzene	135-98-8	7.78	0.0244		0.000365	0.0010	0.00100
tert-Butylbenzene	98-06-6	7.69	0.0251		0.000399	0.0010	0.00100
Carbon tetrachloride	56-23-5	4.07	0.0260		0.000379	0.0010	0.00100
Chlorobenzene	108-90-7	6.50	0.0265		0.000348	0.0010	0.00100
Chlorodibromomethane	124-48-1	5.98	0.0250		0.000327	0.0010	0.00100
Chloroethane	75-00-3	2.30	0.0286		0.000453	0.0050	0.00500
Chloroform	67-66-3	3.97	0.0264		0.000324	0.0050	0.00500
Chloromethane	74-87-3	1.89	0.0238		0.000276	0.0025	0.00250
2-Chlorotoluene	95-49-8	7.50	0.0248		0.000375	0.0010	0.00100
4-Chlorotoluene	106-43-4	7.60	0.0241		0.000351	0.0010	0.00100
Dibromomethane	74-95-3	4.90	0.0268		0.000346	0.0010	0.00100
1,2-Dichlorobenzene	95-50-1	8.06	0.0242		0.000349	0.0010	0.00100
1,3-Dichlorobenzene	541-73-1	7.89	0.0242		0.000220	0.0010	0.00100
1,4-Dichlorobenzene	106-46-7	7.93	0.0239		0.000274	0.0010	0.00100
2-Hexanone	591-78-6	6.24	0.118		0.00382	0.01	0.0100
Dichlorodifluoromethane	75-71-8	1.71	0.0277		0.000551	0.0050	0.00500
1,1-Dichloroethane	75-34-3	3.53	0.0273		0.000259	0.0010	0.00100
1,2-Dichloroethane	107-06-2	4.43	0.0250		0.000361	0.0010	0.00100
1,1-Dichloroethene	75-35-4	2.73	0.0266		0.000398	0.0010	0.00100
cis-1,2-Dichloroethene	156-59-2	3.84	0.0273		0.000260	0.0010	0.00100
trans-1,2-Dichloroethene	156-60-5	3.18	0.0288		0.000396	0.0010	0.00100
1,2-Dichloropropane	78-87-5	4.95	0.0279		0.000306	0.0010	0.00100
1,1-Dichloropropene	563-58-6	4.17	0.0266		0.000352	0.0010	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.35	0.0256		0.000418	0.0010	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.75	0.0239		0.000419	0.0010	0.00100
2,2-Dichloropropane	594-20-7	3.90	0.0262		0.000321	0.0010	0.00100
Ethylbenzene	100-41-4	6.49	0.0268		0.000384	0.0010	0.00100
Isopropylbenzene	98-82-8	7.10	0.0250		0.000326	0.0010	0.00100
p-Isopropyltoluene	99-87-6	7.84	0.0253		0.000350	0.0010	0.00100
2-Butanone (MEK)	78-93-3	4.14	0.114		0.00393	0.01	0.0100
Methylene Chloride	75-09-2	3.08	0.0285		0.00100	0.0050	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.71	0.108		0.00214	0.01	0.0100
Methyl tert-butyl ether	1634-04-4	3.23	0.0258		0.000367	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409140-1

Lab Sample ID:	R3409140-1	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507_03	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/07/19 08:50
Analytical Batch:	WG1277073	**Analysis Date/Time:**	05/07/19 08:50
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
o-Xylene	95-47-6	6.89	0.0255		0.000341	0.0010	0.00100
m&p-Xylene	1330-20-7	6.59	0.0522		0.000719	0.0020	0.00200
n-Propylbenzene	103-65-1	7.38	0.0244		0.000349	0.0010	0.00100
Styrene	100-42-5	6.93	0.0253		0.000307	0.0010	0.00100
1,3-Dichloropropene	542-75-6	5.75	0.0495		0.000837	0.0020	0.00200
1,1,1,2-Tetrachloroethane	630-20-6	6.53	0.0252		0.000385	0.0010	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.42	0.0221		0.000130	0.0010	0.00100
Tetrachloroethene	127-18-4	5.75	0.0268		0.000372	0.0010	0.00100
Toluene	108-88-3	5.50	0.0242		0.000412	0.0010	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.75	0.0273		0.000303	0.0010	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.65	0.0237		0.000230	0.0010	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.49	0.0245		0.000355	0.0010	0.00100
1,1,1-Trichloroethane	71-55-6	4.11	0.0255		0.000319	0.0010	0.00100
1,1,2-Trichloroethane	79-00-5	5.86	0.0262		0.000383	0.0010	0.00100
Trichloroethene	79-01-6	4.64	0.0282		0.000398	0.0010	0.00100
Trichlorofluoromethane	75-69-4	2.39	0.0261		0.00120	0.0050	0.00500
1,2,3-Trichloropropane	96-18-4	7.52	0.0232		0.000807	0.0010	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.73	0.0241		0.000373	0.0010	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.50	0.0235		0.000387	0.0010	0.00100
Vinyl chloride	75-01-4	1.96	0.0296		0.000259	0.0010	0.00100
Xylenes, Total	1330-20-7	6.89	0.0777		0.00106	0.0030	0.00300

625.1 Semi Volatile Organic Compounds (GC/MS)

2A-OR

SURROGATE RECOVERY

Analytical Method: 625.1 **SDG:** L1095644
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	DMC-2	DMC-3	DMC-4	DMC-5	DMC-6	TOT Out
				% Rec.	*% Rec.*	*% Rec.*	*% Rec.*	*% Rec.*	*% Rec.*	
WW-20190503-002 DAY 5	L1095644-01	BNAMS23	0507_09	24.3	15.4	37.6	32.4	78.6	59.6	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	2-Fluorophenol	10.0 - 120
DMC-2	Phenol-d5	8.00 - 424
DMC-3	Nitrobenzene-d5	15.0 - 314
DMC-4	2-Fluorobiphenyl	22.0 - 127
DMC-5	2,4,6-Tribromophenol	10.0 - 153
DMC-6	p-Terphenyl-d14	29.0 - 141

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR

SURROGATE RECOVERY

Analytical Method: 625.1 **SDG:** L1095644
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	DMC-2	DMC-3	DMC-4	DMC-5	DMC-6	TOT Out
				% Rec.	*% Rec.*	*% Rec.*	*% Rec.*	*% Rec.*	*% Rec.*	
OS	L1094651-03	BNAMS20	0507A_08	36.4	22.4	55.2	58.3	45.6	67.4	0
MS	R3409130-3	BNAMS20	0507A_09	44.3	28.2	56.8	67.5	65.0	64.5	0
MSD	R3409130-4	BNAMS20	0507A_10	33.2	22.7	43.4	53.4	55.0	55.3	0
BLANK	R3409130-2	BNAMS20	0507A_06	40.4	24.3	61.1	67.8	53.5	70.3	0
LCS	R3409130-1	BNAMS20	0507A_05	35.9	22.6	45.5	54.3	53.5	52.8	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	2-Fluorophenol	10.0 - 120
DMC-2	Phenol-d5	10.0 - 120
DMC-3	Nitrobenzene-d5	10.0 - 127
DMC-4	2-Fluorobiphenyl	10.0 - 130
DMC-5	2,4,6-Tribromophenol	10.0 - 155
DMC-6	p-Terphenyl-d14	10.0 - 128

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409130-3
R3409130-4

MS Sample / File ID:	R3409130-3 / 0507A_09	**SDG:**	L1095644
MSD Sample / File ID:	R3409130-4 / 0507A_10	**Analytical Batch:**	WG1276393
OS Sample / File ID:	L1094651-03 / 0507A_08	**Matrix:**	WW
Instrument ID:	BNAMS20		
Analytical Method:	625.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
n-Decane	0.0500	U	0.0323	0.0233	64.6	46.6	1	10.0 - 127	32.4	37
n-Octadecane	0.0500	U	0.0311	0.0263	62.2	52.6	1	17.0 - 126	16.7	23
Acenaphthene	0.0500	U	0.0331	0.0271	66.2	54.2	1	47.0 - 145	19.9	48
Benzoic Acid	0.100	U	0.00516	ND	5.16*	0.000*	1	10.0 - 120	200*	40
Acenaphthylene	0.0500	U	0.0364	0.0292	72.8	58.4	1	33.0 - 145	22.0	74
Acetophenone	0.0500	U	0.0362	0.0285	72.4	57.0	1	10.0 - 139	23.8	35
Aniline	0.0500	U	0.0186	0.0165	37.2	33.0	1	10.0 - 120	12.0	25
Anthracene	0.0500	U	0.0343	0.0292	68.6	58.4	1	27.0 - 133	16.1	66
Azobenzene	0.0500	U	0.0363	0.0312	72.6	62.4	1	18.0 - 156	15.1	34
Atrazine	0.0500	U	0.0350	0.0305	70.0	61.0	1	39.0 - 130	13.7	30
Benzaldehyde	0.0500	U	0.0472	0.0347	94.4	69.4	1	10.0 - 160	30.5*	30
Benzidine	0.100	U	0.0115	0.00495	11.5	4.95	1	1.00 - 120	79.6*	40
Benzo(a)anthracene	0.0500	U	0.0371	0.0319	74.2	63.8	1	33.0 - 143	15.1	53
Benzo(b)fluoranthene	0.0500	U	0.0366	0.0311	73.2	62.2	1	24.0 - 159	16.2	71
Benzo(k)fluoranthene	0.0500	U	0.0360	0.0309	72.0	61.8	1	11.0 - 162	15.2	63
Benzo(a)pyrene	0.0500	U	0.0331	0.0277	66.2	55.4	1	17.0 - 163	17.8	72
Biphenyl	0.0500	U	0.0328	0.0261	65.6	52.2	1	23.0 - 130	22.8	27
Bis(2-chlorethoxy)methane	0.0500	U	0.0289	0.0254	57.8	50.8	1	33.0 - 184	12.9	54
Bis(2-chloroethyl)ether	0.0500	U	0.0324	0.0249	64.8	49.8	1	12.0 - 158	26.2	108
Bis(2-chloroisopropyl)ether	0.0500	U	0.0317	0.0234	63.4	46.8	1	36.0 - 166	30.1	76
Caprolactam	0.0500	U	0.0109	0.0113	21.8	22.6	1	10.0 - 120	3.60	30
Carbazole	0.0500	U	0.0361	0.0318	72.2	63.6	1	23.0 - 158	12.7	26
4-Chloroaniline	0.0500	U	0.0271	0.0277	54.2	55.4	1	10.0 - 137	2.19	33
2-Chloronaphthalene	0.0500	U	0.0335	0.0262	67.0	52.4*	1	60.0 - 120	24.5*	24
Chrysene	0.0500	U	0.0346	0.0298	69.2	59.6	1	17.0 - 168	14.9	87
Dibenz(a,h)anthracene	0.0500	U	0.0371	0.0321	74.2	64.2	1	1.00 - 227	14.5	126
Dibenzofuran	0.0500	U	0.0342	0.0286	68.4	57.2	1	17.0 - 150	17.8	27
1-Methylnaphthalene	0.0500	U	0.0299	0.0237	59.8	47.4	1	33.0 - 120	23.1*	23
3,3-Dichlorobenzidine	0.100	U	0.0672	0.0550	67.2	55.0	1	1.00 - 262	20.0	108
2,4-Dinitrotoluene	0.0500	U	0.0352	0.0308	70.4	61.6	1	39.0 - 139	13.3	42
2,6-Dinitrotoluene	0.0500	U	0.0334	0.0288	66.8	57.6	1	50.0 - 158	14.8	48
Fluoranthene	0.0500	U	0.0371	0.0323	74.2	64.6	1	26.0 - 137	13.8	66
Fluorene	0.0500	U	0.0351	0.0290	70.2	58.0*	1	59.0 - 121	19.0	38
Hexachlorobenzene	0.0500	U	0.0352	0.0292	70.4	58.4	1	1.00 - 152	18.6	55
Hexachloro-1,3-butadiene	0.0500	U	0.0329	0.0239	65.8	47.8	1	24.0 - 120	31.7	62
Hexachlorocyclopentadiene	0.0500	U	0.0270	0.0190	54.0	38.0	1	10.0 - 146	34.8*	34
Hexachloroethane	0.0500	U	0.0323	0.0223	64.6	44.6	1	40.0 - 120	36.6	52
Indeno(1,2,3-cd)pyrene	0.0500	U	0.0361	0.0314	72.2	62.8	1	1.00 - 171	13.9	99
Isophorone	0.0500	U	0.0323	0.0276	64.6	55.2	1	21.0 - 196	15.7	93
2-Methylnaphthalene	0.0500	U	0.0302	0.0239	60.4	47.8	1	13.0 - 142	23.3	29
Naphthalene	0.0500	U	0.0308	0.0238	61.6	47.6	1	21.0 - 133	25.6	65
2-Nitroaniline	0.0500	U	0.0361	0.0320	72.2	64.0	1	13.0 - 160	12.0	27
3-Nitroaniline	0.0500	U	0.0313	0.0295	62.6	59.0	1	10.0 - 160	5.92	26

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409130-3
R3409130-4

MS Sample / File ID:	R3409130-3 / 0507A_09	**SDG:**	L1095644
MSD Sample / File ID:	R3409130-4 / 0507A_10	**Analytical Batch:**	WG1276393
OS Sample / File ID:	L1094651-03 / 0507A_08	**Matrix:**	WW
Instrument ID:	BNAMS20		
Analytical Method:	625.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
4-Nitroaniline	0.0500	U	0.0334	0.0296	66.8	59.2	1	17.0 - 160	12.1	29
Nitrobenzene	0.0500	U	0.0321	0.0254	64.2	50.8	1	35.0 - 180	23.3	62
n-Nitrosodimethylamine	0.0500	U	0.0237	0.0199	47.4	39.8	1	10.0 - 120	17.4	40
n-Nitrosodiphenylamine	0.0500	U	0.0327	0.0273	65.4	54.6	1	16.0 - 160	18.0	28
n-Nitrosodi-n-propylamine	0.0500	U	0.0341	0.0284	68.2	56.8	1	1.00 - 230	18.2	87
Phenanthrene	0.0500	U	0.0341	0.0291	68.2	58.2	1	54.0 - 120	15.8	39
Benzylbutyl phthalate	0.0500	U	0.0334	0.0285	66.8	57.0	1	1.00 - 152	15.8	60
Bis(2-ethylhexyl)phthalate	0.0500	U	0.0326	0.0281	65.2	56.2	1	8.00 - 158	14.8	82
Di-n-butyl phthalate	0.0500	U	0.0358	0.0304	71.6	60.8	1	1.00 - 120	16.3	47
Diethyl phthalate	0.0500	U	0.0342	0.0299	68.4	59.8	1	1.00 - 120	13.4	100
Dimethyl phthalate	0.0500	U	0.0348	0.0308	69.6	61.6	1	1.00 - 120	12.2	183
Pyrene	0.0500	U	0.0350	0.0304	70.0	60.8	1	52.0 - 120	14.1	49
Pyridine	0.0500	U	0.0130	0.0120	26.0	24.0	1	10.0 - 120	8.00	40
Benzyl Alcohol	0.0500	U	0.0273	0.0227	54.6	45.4	1	17.0 - 120	18.4	40
4-Chloro-3-methylphenol	0.0500	U	0.0322	0.0283	64.4	56.6	1	22.0 - 147	12.9	73
2-Chlorophenol	0.0500	U	0.0320	0.0238	64.0	47.6	1	23.0 - 134	29.4	61
2-Methylphenol	0.0500	U	0.0288	0.0233	57.6	46.6	1	14.0 - 120	21.1	29
3&4-Methyl Phenol	0.0500	U	0.0311	0.0255	62.2	51.0	1	13.0 - 124	19.8	26
2,4-Dichlorophenol	0.0500	U	0.0327	0.0265	65.4	53.0	1	39.0 - 135	20.9	50
2,4-Dimethylphenol	0.0500	U	0.0314	0.0264	62.8	52.8	1	32.0 - 120	17.3	58
4,6-Dinitro-2-methylphenol	0.0500	U	0.0360	0.0312	72.0	62.4	1	1.00 - 181	14.3	203
2,4-Dinitrophenol	0.0500	U	0.0236	0.0235	47.2	47.0	1	1.00 - 191	0.425	132
2-Nitrophenol	0.0500	U	0.0333	0.0269	66.6	53.8	1	29.0 - 182	21.3	55
4-Nitrophenol	0.0500	U	0.0138	0.0117	27.6	23.4	1	1.00 - 132	16.5	131
Pentachlorophenol	0.0500	U	0.0255	0.0224	51.0	44.8	1	14.0 - 176	12.9	86
Phenol	0.0500	U	0.0150	0.0124	30.0	24.8	1	5.00 - 120	19.0	64
1,2,4,5-Tetrachlorobenzene	0.0500	U	0.0369	0.0281	73.8	56.2	1	10.0 - 147	27.1	34
2,4,5-Trichlorophenol	0.0500	U	0.0369	0.0317	73.8	63.4	1	15.0 - 160	15.2	27
2,4,6-Trichlorophenol	0.0500	U	0.0361	0.0307	72.2	61.4	1	37.0 - 144	16.2	58

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1095644-01

SAMPLE NO.:
R3409130-1

LCS Sample / File ID:	R3409130-1 / 0507A_05	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1276393
Instrument ID:	BNAMS20	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Acenaphthene	0.0500	0.0268		53.6		47.0 - 145		
Acenaphthylene	0.0500	0.0292		58.4		33.0 - 145		
Acetophenone	0.0500	0.0281		56.2		28.0 - 120		
Aniline	0.0500	0.0137		27.4		10.0 - 120		
Anthracene	0.0500	0.0281		56.2		27.0 - 133		
Azobenzene	0.0500	0.0291		58.2		37.0 - 125		
Atrazine	0.0500	0.0283		56.6		39.0 - 141		
Benzaldehyde	0.0500	0.0375		75.0		10.0 - 160		
Benzidine	0.100	ND		0.000*		1.00 - 120		
Benzo(a)anthracene	0.0500	0.0306		61.2		33.0 - 143		
Benzo(b)fluoranthene	0.0500	0.0296		59.2		24.0 - 159		
Benzo(k)fluoranthene	0.0500	0.0291		58.2		11.0 - 162		
Benzo(a)pyrene	0.0500	0.0270		54.0		17.0 - 163		
Biphenyl	0.0500	0.0263		52.6		37.0 - 120		
Bis(2-chlorethoxy)methane	0.0500	0.0238		47.6		1.00 - 219		
Bis(2-chloroethyl)ether	0.0500	0.0253		50.6		33.0 - 185		
Bis(2-chloroisopropyl)ether	0.0500	0.0252		50.4		36.0 - 166		
Caprolactam	0.0500	0.0104		20.8		10.0 - 120		
Carbazole	0.0500	0.0290		58.0		45.0 - 121		
4-Chloroaniline	0.0500	0.0229		45.8		23.0 - 120		
2-Chloronaphthalene	0.0500	0.0269		53.8*		60.0 - 120		
Chrysene	0.0500	0.0282		56.4		17.0 - 168		
Dibenz(a,h)anthracene	0.0500	0.0307		61.4		1.00 - 227		
Dibenzofuran	0.0500	0.0281		56.2		42.0 - 120		
3,3-Dichlorobenzidine	0.100	0.0520		52.0		1.00 - 262		
2,4-Dinitrotoluene	0.0500	0.0281		56.2		39.0 - 139		
2,6-Dinitrotoluene	0.0500	0.0273		54.6		50.0 - 158		
Fluoranthene	0.0500	0.0306		61.2		26.0 - 137		
Fluorene	0.0500	0.0282		56.4*		59.0 - 121		
Hexachlorobenzene	0.0500	0.0289		57.8		1.00 - 152		
Hexachloro-1,3-butadiene	0.0500	0.0270		54.0		24.0 - 120		
Hexachlorocyclopentadiene	0.0500	0.0225		45.0		10.0 - 120		
Hexachloroethane	0.0500	0.0255		51.0		40.0 - 120		
Indeno(1,2,3-cd)pyrene	0.0500	0.0305		61.0		1.00 - 171		
Isophorone	0.0500	0.0265		53.0		21.0 - 196		
1-Methylnaphthalene	0.0500	0.0246		49.2		33.0 - 120		
2-Methylnaphthalene	0.0500	0.0249		49.8		35.0 - 120		
Naphthalene	0.0500	0.0252		50.4		21.0 - 133		
2-Nitroaniline	0.0500	0.0294		58.8		43.0 - 120		
3-Nitroaniline	0.0500	0.0274		54.8		35.0 - 123		
4-Nitroaniline	0.0500	0.0283		56.6		23.0 - 160		
Nitrobenzene	0.0500	0.0260		52.0		35.0 - 180		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409130-1

LCS Sample / File ID:	R3409130-1 / 0507A_05	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1276393
Instrument ID:	BNAMS20	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
n-Nitrosodimethylamine	0.0500	0.0190		38.0		10.0 - 120		
n-Nitrosodiphenylamine	0.0500	0.0266		53.2		44.0 - 120		
n-Nitrosodi-n-propylamine	0.0500	0.0269		53.8		1.00 - 230		
Phenanthrene	0.0500	0.0276		55.2		54.0 - 120		
Benzylbutyl phthalate	0.0500	0.0267		53.4		1.00 - 152		
Bis(2-ethylhexyl)phthalate	0.0500	0.0267		53.4		8.00 - 158		
Di-n-butyl phthalate	0.0500	0.0290		58.0		1.00 - 120		
Diethyl phthalate	0.0500	0.0277		55.4		1.00 - 120		
Dimethyl phthalate	0.0500	0.0286		57.2		1.00 - 120		
Pyrene	0.0500	0.0289		57.8		52.0 - 120		
Pyridine	0.0500	0.00746		14.9		10.0 - 120		
Benzoic Acid	0.100	ND		0.000*		10.0 - 120		
Benzyl Alcohol	0.0500	0.0223		44.6		20.0 - 120		
4-Chloro-3-methylphenol	0.0500	0.0271		54.2		22.0 - 147		
2-Chlorophenol	0.0500	0.0259		51.8		23.0 - 134		
2-Methylphenol	0.0500	0.0234		46.8		26.0 - 120		
3&4-Methyl Phenol	0.0500	0.0249		49.8		27.0 - 120		
2,4-Dichlorophenol	0.0500	0.0270		54.0		39.0 - 135		
2,4-Dimethylphenol	0.0500	0.0259		51.8		32.0 - 120		
4,6-Dinitro-2-methylphenol	0.0500	0.0294		58.8		1.00 - 181		
2,4-Dinitrophenol	0.0500	0.0186		37.2		1.00 - 191		
2-Nitrophenol	0.0500	0.0273		54.6		29.0 - 182		
4-Nitrophenol	0.0500	0.0114		22.8		1.00 - 132		
Pentachlorophenol	0.0500	0.0185		37.0		14.0 - 176		
Phenol	0.0500	0.0124		24.8		5.00 - 120		
1,2,4,5-Tetrachlorobenzene	0.0500	0.0301		60.2		31.0 - 120		
2,4,5-Trichlorophenol	0.0500	0.0302		60.4		44.0 - 124		
2,4,6-Trichlorophenol	0.0500	0.0294		58.8		37.0 - 144		
n-Decane	0.0500	0.0259		51.8		10.0 - 127		
n-Octadecane	0.0500	0.0254		50.8		17.0 - 126		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1095644-01

SAMPLE NO.:
R3409650-1

LCS Sample / File ID:	R3409650-1 / 0508B_07	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1276393
Instrument ID:	BNAMS1	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Pentachlorobenzene	0.0500	0.0405		81.0		10.0 - 151		
n-Nitrosodiethylamine	0.0500	0.0313		62.6		10.0 - 142		
n-Nitrosodi-n-butylamine	0.0500	0.0386		77.2		39.0 - 127		
Hexachlorophene	0.100	0.00876		8.76*		50.0 - 150		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3409650-2

Lab Sample ID:	R3409650-2	**SDG:**	L1095644
Lab File ID:	0508B_09	**Preparation Date/Time:**	05/07/19 16:44
Instrument ID:	BNAMS1	**Analysis Date/Time:**	05/08/19 16:52
Analytical Batch:	WG1276393	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3409130-1	BNAMS20	0507A_05	05/08/19 00:19
OS	L1094651-03	BNAMS20	0507A_08	05/08/19 01:21
WW-20190503-002 DAY 5	L1095644-01	BNAMS23	0507_09	05/08/19 01:41
MS	R3409130-3	BNAMS20	0507A_09	05/08/19 01:42
MSD	R3409130-4	BNAMS20	0507A_10	05/08/19 02:03
LCS	R3409650-1	BNAMS1	0508B_07	05/08/19 16:18
WW-20190503-002 DAY 5	L1095644-01	BNAMS1	0508B_20	05/08/19 20:01
WW-20190503-002 DAY 5	L1095644-01	BNAMS19	0509_12	05/09/19 12:51

Sample Narrative:

Dilution due to sample volume.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3409130-2

Lab Sample ID:	R3409130-2	**SDG:**	L1095644
Lab File ID:	0507A_06	**Preparation Date/Time:**	05/07/19 16:44
Instrument ID:	BNAMS20	**Analysis Date/Time:**	05/08/19 00:39
Analytical Batch:	WG1276393	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3409130-1	BNAMS20	0507A_05	05/08/19 00:19
OS	L1094651-03	BNAMS20	0507A_08	05/08/19 01:21
WW-20190503-002 DAY 5	L1095644-01	BNAMS23	0507_09	05/08/19 01:41
MS	R3409130-3	BNAMS20	0507A_09	05/08/19 01:42
MSD	R3409130-4	BNAMS20	0507A_10	05/08/19 02:03
LCS	R3409650-1	BNAMS1	0508B_07	05/08/19 16:18
WW-20190503-002 DAY 5	L1095644-01	BNAMS1	0508B_20	05/08/19 20:01
WW-20190503-002 DAY 5	L1095644-01	BNAMS19	0509_12	05/09/19 12:51

Sample Narrative:

Dilution due to sample volume.

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0222_05-2	**SDG:**	L1095644
Instrument ID:	BNAMS1	**Analytical Method:**	625.1
Analysis Date/Time:	02/22/19 11:01		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	46
68	69	0	2	0
69	69	100	100	100
70	69	0	2	0
127	442	10	80	54
197	198	0	2	0
198	442	50	100	97
199	198	5	9	7
275	442	10	60	27
365	198	1	100	4
441	442	0.0001	24	15
442	442	50	100	100
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-1K1	1K1	0222_13	02/22/19 13:19
STD-2K1	2K1	0222_14	02/22/19 13:37
STD-5K1	5K1	0222_15	02/22/19 13:54
STD-10K1	10K1	0222_16	02/22/19 14:11
STD-20K1	20K1	0222_17	02/22/19 14:28
STD-40K1	40K1	0222_18	02/22/19 14:46
STD-1K3	1K3	0222_27	02/22/19 17:21
STD-2K3	2K3	0222_28	02/22/19 17:38
STD-5K3	5K3	0222_29	02/22/19 17:56
STD-10K3	10K3	0222_30	02/22/19 18:13
STD-20K3	20K3	0222_31	02/22/19 18:30
STD-40K3	40K3	0222_32	02/22/19 18:48

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0222_36-2	**SDG:**	L1095644
Instrument ID:	BNAMS1	**Analytical Method:**	625.1
Analysis Date/Time:	02/25/19 09:47		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	49
68	69	0	2	0
69	69	100	100	100
70	69	0	2	0
127	198	10	80	53
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	26
365	198	1	100	4
441	442	0.0001	24	15
442	198	50	100	91
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-04K2	04K2	0222_37	02/25/19 10:05
STD-.2K2	.2K2	0222_38	02/25/19 10:22
STD-1K2	1K2	0222_39	02/25/19 10:39
STD-2K2	2K2	0222_40	02/25/19 10:56
STD-5K2	5K2	0222_41	02/25/19 11:14
STD-10K2	10K2	0222_42	02/25/19 11:31
STD-20K2	20K2	0222_43	02/25/19 11:48
STD-40K2	40K2	0222_44	02/25/19 12:05
SSCV	BNAMS10222190222_45-2466330	0222_45-2	02/25/19 13:32
SSCV	BNAMS10222190222_45A-2466330	0222_45A-2	02/25/19 13:32
SSCV	BNAMS10222190222_45B-2466330	0222_45B-2	02/25/19 13:32
SSCV	BNAMS10222190222_46-2466330	0222_46-2	02/25/19 15:27
SSCV	BNAMS10222190222_47-2466330	0222_47-2	02/25/19 15:44
SSCV	BNAMS10222190222_48-2466330	0222_48-2	02/25/19 16:01
SSCV	BNAMS10222190222_49-2466330	0222_49-2	02/25/19 16:18

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0508B_01T-1	**SDG:**	L1095644
Instrument ID:	BNAMS1	**Analytical Method:**	625.1
Analysis Date/Time:	05/08/19 14:34		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	42
68	69	0	2	1
69	69	100	100	100
70	69	0	2	0
127	442	10	80	50
197	198	0	2	0
198	442	50	100	92
199	198	5	9	7
275	442	10	60	28
365	198	1	100	5
441	442	0.0001	24	14
442	442	50	100	100
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS1050819B0508B_02-1466330	0508B_02-1	05/08/19 14:51
ICV	BNAMS1050819B0508B_04-1466330	0508B_04-1	05/08/19 15:26
ICV	BNAMS1050819B0508B_05-1466330	0508B_05-1	05/08/19 15:43
LCS	R3409650-1	0508B_07	05/08/19 16:18
BLANK	R3409650-2	0508B_09	05/08/19 16:52
WW-20190503-002 DAY 5	L1095644-01	0508B_20	05/08/19 20:01

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0430_02-2	**SDG:**	L1095644
Instrument ID:	BNAMS19	**Analytical Method:**	625.1
Analysis Date/Time:	04/30/19 17:31		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	37
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	442	10	80	48
197	198	0	2	0
198	442	50	100	100
199	198	5	9	7
275	442	10	60	26
365	198	1	100	3
441	442	0.0001	24	16
442	442	50	100	100
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-1K1	1K1	0430_03	04/30/19 17:52
STD-2K1	2K1	0430_04	04/30/19 18:13
STD-5K1	5K1	0430_05	04/30/19 18:33
STD-10K1	10K1	0430_06	04/30/19 18:54
STD-20K1	20K1	0430_07	04/30/19 19:15
STD-40K1	40K1	0430_08	04/30/19 19:36
STD-04K2	04K2	0430_09	04/30/19 19:56
STD-.2K2	.2K2	0430_10	04/30/19 20:17
STD-1K2	1K2	0430_11	04/30/19 20:37
STD-2K2	2K2	0430_12	04/30/19 20:58
STD-5K2	5K2	0430_13	04/30/19 21:19
STD-10K2	10K2	0430_14	04/30/19 21:40
STD-20K2	20K2	0430_15	04/30/19 22:00
STD-40K2	40K2	0430_16	04/30/19 22:21
STD-1K3	1K3	0430_17	04/30/19 22:42
STD-2K3	2K3	0430_18	04/30/19 23:02
STD-5K3	5K3	0430_19	04/30/19 23:23
STD-10K3	10K3	0430_20	04/30/19 23:43
STD-20K3	20K3	0430_21	05/01/19 00:04
STD-40K3	40K3	0430_22	05/01/19 00:25
SSCV	BNAMS190430190430_23-2471129	0430_23-2	05/01/19 00:45
SSCV	BNAMS190430190430_23A-2471129	0430_23A-2	05/01/19 00:45
SSCV	BNAMS190430190430_23B-2471129	0430_23B-2	05/01/19 00:45

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0509_02T-1	**SDG:**	L1095644
Instrument ID:	BNAMS19	**Analytical Method:**	625.1
Analysis Date/Time:	05/09/19 09:24		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	35
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	49
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	27
365	198	1	100	3
441	442	0.0001	24	16
442	198	50	100	93
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS190509190509_10-1471129	0509_10-1	05/09/19 12:09
WW-20190503-002 DAY 5	L1095644-01	0509_12	05/09/19 12:51

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0420_04-2	**SDG:**	L1095644
Instrument ID:	BNAMS20	**Analytical Method:**	625.1
Analysis Date/Time:	04/20/19 13:21		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	36
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	48
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	26
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	88
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-40	40	0420_05	04/20/19 13:42
STD-200	200	0420_06	04/20/19 14:03
STD-1000	1000	0420_07	04/20/19 14:24
STD-2000	2000	0420_08	04/20/19 14:45
STD-5000	5000	0420_09	04/20/19 15:06
STD-20000	20000	0420_11	04/20/19 15:49
STD-30000	30000	0420_12	04/20/19 16:10
STD-40000	40000	0420_13	04/20/19 16:31
STD-50000	50000	0420_14	04/20/19 16:52
STD-1K1	1K1	0420_15	04/20/19 17:13
STD-2K1	2K1	0420_16	04/20/19 17:34
STD-5K1	5K1	0420_17	04/20/19 17:55
STD-20K1	20K1	0420_19	04/20/19 18:38
STD-30K1	30K1	0420_20	04/20/19 18:59
STD-40K1	40K1	0420_21	04/20/19 19:20
STD-50K1	50K1	0420_22	04/20/19 19:41
SSCV	BNAMS200420190420_23-2470918	0420_23-2	04/20/19 20:02
SSCV	BNAMS200420190420_24-2470918	0420_24-2	04/20/19 20:23

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0507A_02T-1	**SDG:**	L1095644
Instrument ID:	BNAMS20	**Analytical Method:**	625.1
Analysis Date/Time:	05/07/19 23:15		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	32
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	47
197	198	0	2	1
198	198	50	100	100
199	198	5	9	7
275	198	10	60	27
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	98
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS20050719A0507A_03-1470918	0507A_03-1	05/07/19 23:35
ICV	BNAMS20050719A0507A_04-1470918	0507A_04-1	05/07/19 23:56
LCS	R3409130-1	0507A_05	05/08/19 00:19
BLANK	R3409130-2	0507A_06	05/08/19 00:39
OS	L1094651-03	0507A_08	05/08/19 01:21
MS	R3409130-3	0507A_09	05/08/19 01:42
MSD	R3409130-4	0507A_10	05/08/19 02:03

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0416_05-2	**SDG:**	L1095644
Instrument ID:	BNAMS23	**Analytical Method:**	625.1
Analysis Date/Time:	04/16/19 10:10		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	39
68	69	0	2	1
69	69	100	100	100
70	69	0	2	0
127	442	10	80	54
197	198	0	2	0
198	442	50	100	88
199	198	5	9	7
275	442	10	60	21
365	198	1	100	3
441	442	0.0001	24	16
442	442	50	100	100
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-40	40	0416_06	04/16/19 10:31
STD-200	200	0416_07	04/16/19 10:52
STD-1000	1000	0416_08	04/16/19 11:14
STD-2000	2000	0416_09	04/16/19 11:35
STD-5000	5000	0416_10	04/16/19 11:56
STD-10000	10000	0416_11	04/16/19 12:17
STD-20000	20000	0416_12	04/16/19 12:38
STD-30000	30000	0416_13	04/16/19 13:00
STD-40000	40000	0416_14	04/16/19 13:21
STD-50000	50000	0416_15	04/16/19 13:42
STD-1K1	1K1	0416_16	04/16/19 14:03
STD-2K1	2K1	0416_17	04/16/19 14:24
STD-5K1	5K1	0416_18	04/16/19 14:46
STD-10K1	10K1	0416_19	04/16/19 15:07
STD-20K1	20K1	0416_20	04/16/19 15:28
STD-30K1	30K1	0416_21	04/16/19 15:49
STD-40K1	40K1	0416_22	04/16/19 16:10
STD-50K1	50K1	0416_23	04/16/19 16:32
SSCV	BNAMS230416190416_24-3470778	0416_24-3	04/16/19 16:53
SSCV	BNAMS230416190416_25-3470778	0416_25-3	04/16/19 17:14

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0507_02T	**SDG:**	L1095644
Instrument ID:	BNAMS23	**Analytical Method:**	625.1
Analysis Date/Time:	05/07/19 23:14		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	26
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	442	10	80	37
197	198	0	2	0
198	442	50	100	78
199	198	5	9	7
275	442	10	60	22
365	198	1	100	4
441	442	0.0001	24	17
442	442	50	100	100
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS230507190507_03470778	0507_03	05/07/19 23:35
ICV	BNAMS230507190507_04470778	0507_04	05/07/19 23:56
WW-20190503-002 DAY 5	L1095644-01	0507_09	05/08/19 01:41

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	625.1
Instrument ID:	BNAMS1	**Calibration Start Date:**	02/22/19 13:19
Std File:	0508B_02-1	**Calibration End Date:**	02/25/19 12:05
		Std Analysis Date:	05/08/19 14:51

Sample ID	**File ID**	**1,4-DCB**		**ACE**		**CHR**		**NAP**	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		94478	4.97	176760	6.76	373659	9.24	363122	5.73
UPPER LIMIT		188956		353520		747318		726244	
LOWER LIMIT		47239		88380		186830		181561	
LCS R3409650-1 WG1276393 1x	0508B_07	102907	4.97	206019	6.76	415636	9.25	407015	5.73
BLANK R3409650-2 WG1276393 1x	0508B_09	104797	4.97	203099	6.76	411655	9.25	377039	5.73
L1095644-01 WG1276393 1.05x	0508B_20	109556	4.97	212923	6.76	413990	9.25	388590	5.73

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	625.1
Instrument ID:	BNAMS1	**Calibration Start Date:**	02/22/19 13:19
Std File:	0508B_02-1	**Calibration End Date:**	02/25/19 12:05
		Std Analysis Date:	05/08/19 14:51

Sample ID	**File ID**	**PER**		**PHEN**	
		Response	*RT*	*Response*	*RT*
STANDARD		379787	10.58	344573	7.64
UPPER LIMIT		759574		689146	
LOWER LIMIT		189894		172287	
LCS R3409650-1 WG1276393 1x	0508B_07	434576	10.59	399336	7.64
BLANK R3409650-2 WG1276393 1x	0508B_09	426515	10.59	410843	7.64
L1095644-01 WG1276393 1.05x	0508B_20	466254	10.59	391181	7.64

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	625.1
Instrument ID:	BNAMS19	**Calibration Start Date:**	04/30/19 17:52
Std File:	0509_10-1	**Calibration End Date:**	05/01/19 00:25
		Std Analysis Date:	05/09/19 12:09

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		209175	3.35	422479	5.18	794925	8.73	884770	4.09
UPPER LIMIT		418350		844958		1589850		1769540	
LOWER LIMIT		104588		211240		397463		442385	
L1095644-01 WG1276393 1.05x	0509_12	286048	3.36	576763	5.18	1075087	8.73	1080241	4.09

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	625.1
Instrument ID:	BNAMS19	**Calibration Start Date:**	04/30/19 17:52
Std File:	0509_10-1	**Calibration End Date:**	05/01/19 00:25
		Std Analysis Date:	05/09/19 12:09

Sample ID	**File ID**	**PER**		**PHEN**	
		Response	*RT*	*Response*	*RT*
STANDARD		774445	11.25	801091	6.17
UPPER LIMIT		1548890		1602182	
LOWER LIMIT		387223		400546	
L1095644-01 WG1276393 1.05x	0509_12	1071237	11.25	1082024	6.17

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	625.1
Instrument ID:	BNAMS20	**Calibration Start Date:**	04/20/19 13:42
Std File:	0507A_03-1	**Calibration End Date:**	05/01/19 03:33
		Std Analysis Date:	05/07/19 23:35

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		219252	3.34	427173	5.15	651225	8.65	797333	4.07
UPPER LIMIT		438504		854346		1302450		1594666	
LOWER LIMIT		109626		213587		325613		398667	
LCS R3409130-1 WG1276393 1x	0507A_05	239704	3.34	462501	5.16	701845	8.66	945112	4.07
BLANK R3409130-2 WG1276393 1x	0507A_06	217223	3.34	410601	5.15	636068	8.64	773830	4.07
OS L1094651-03 WG1276393 1x	0507A_08	220480	3.33	408959	5.15	651513	8.64	777293	4.07
MS R3409130-3 WG1276393 1x	0507A_09	213564	3.34	416552	5.15	646379	8.64	871758	4.07
MSD R3409130-4 WG1276393 1x	0507A_10	196601	3.33	375588	5.15	581799	8.64	772360	4.07

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	625.1
Instrument ID:	BNAMS20	**Calibration Start Date:**	04/20/19 13:42
Std File:	0507A_03-1	**Calibration End Date:**	05/01/19 03:33
		Std Analysis Date:	05/07/19 23:35

Sample ID	File ID	PER		PHEN	
		Response	*RT*	*Response*	*RT*
STANDARD		534451	11.17	751341	6.12
UPPER LIMIT		1068902		1502682	
LOWER LIMIT		267226		375671	
LCS R3409130-1 WG1276393 1x	0507A_05	599819	11.18	813990	6.13
BLANK R3409130-2 WG1276393 1x	0507A_06	536689	11.16	735598	6.12
OS L1094651-03 WG1276393 1x	0507A_08	558644	11.16	749501	6.12
MS R3409130-3 WG1276393 1x	0507A_09	543271	11.16	737593	6.12
MSD R3409130-4 WG1276393 1x	0507A_10	496905	11.16	668009	6.12

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	625.1
Instrument ID:	BNAMS23	**Calibration Start Date:**	04/16/19 10:31
Std File:	0507_03	**Calibration End Date:**	04/16/19 16:32
		Std Analysis Date:	05/07/19 23:35

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		247212	3.20	564044	5.04	1089961	8.55	952754	3.94
UPPER LIMIT		494424		1128088		2179922		1905508	
LOWER LIMIT		123606		282022		544981		476377	
L1095644-01 WG1276393 1.05x	0507_09	248098	3.20	547554	5.03	1102854	8.54	955006	3.94

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	625.1
Instrument ID:	BNAMS23	**Calibration Start Date:**	04/16/19 10:31
Std File:	0507_03	**Calibration End Date:**	04/16/19 16:32
		Std Analysis Date:	05/07/19 23:35

Sample ID	**File ID**	**PER**		**PHEN**	
		Response	*RT*	*Response*	*RT*
STANDARD		1089831	10.97	1089139	6.06
UPPER LIMIT		2179662		2178278	
LOWER LIMIT		544916		544570	
L1095644-01 WG1276393 1.05x	0507_09	1160426	10.96	1074651	6.05

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0508B_20	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	BNAMS1	**Preparation Date/Time:**	05/07/19 16:46
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 20:01
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
n-Nitrosodiethylamine	55-18-5	0	U		0.000522	0.0100	0.0105
n-Nitrosodi-n-butylamine	924-16-3	0	U		0.000348	0.0100	0.0105
Pentachlorobenzene	608-93-5	0	U		0.000387	0.0100	0.0105

Sample Narrative:

Dilution due to sample volume.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0509_12	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/07/19 16:46
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/09/19 12:51
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Hexachlorophene	70-30-4	0	U	J4	0.00151	0.0500	0.0525

Sample Narrative:

Dilution due to sample volume.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_09	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	BNAMS23	**Preparation Date/Time:**	05/07/19 16:46
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 01:41
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.04	U		0.000332	0.00100	0.00105
Acenaphthylene	208-96-8	4.92	U		0.000324	0.00100	0.00105
Acetophenone	98-86-2	3.42	U		0.00285	0.0100	0.0105
Aniline	62-53-3	3.07	U		0.00255	0.0100	0.0105
Anthracene	120-12-7	6.16	U		0.000306	0.00100	0.00105
Atrazine	1912-24-9	5.87	U		0.000273	0.0100	0.0105
Benzaldehyde	100-52-7	2.97	U		0.00147	0.0100	0.0105
Benzidine	92-87-5	0	U	J4	0.00454	0.0100	0.0105
Benzo(a)anthracene	56-55-3	8.54	U		0.000102	0.00100	0.00105
Benzo(b)fluoranthene	205-99-2	0	U		0.0000941	0.00100	0.00105
Benzo(k)fluoranthene	207-08-9	0	U		0.000373	0.00100	0.00105
Benzo(a)pyrene	50-32-8	10.96	U		0.000357	0.00100	0.00105
Benzoic acid	65-85-0	3.83	U	J4	0.00462	0.0100	0.0105
Benzyl alcohol	100-51-6	3.27	U		0.000413	0.0100	0.0105
Biphenyl	92-52-4	4.59	U		0.000341	0.0100	0.0105
Bis(2-chlorethoxy)methane	111-91-1	3.77	U		0.000345	0.0100	0.0105
Bis(2-chloroethyl)ether	111-44-4	3.08	U		0.00170	0.0100	0.0105
Bis(2-chloroisopropyl)ether	39638-32-9	0	U		0.000467	0.0100	0.0105
Caprolactam	105-60-2	4.18	U		0.00272	0.0100	0.0105
Carbazole	86-74-8	6.20	U		0.000273	0.0100	0.0105
4-Chloroaniline	106-47-8	0	U		0.000401	0.0100	0.0105
2-Chloronaphthalene	91-58-7	4.61	U	J4	0.000347	0.00100	0.00105
Chrysene	218-01-9	8.54	U		0.000349	0.00100	0.00105
n-Decane	124-18-5	0	U		0.000626	0.0100	0.0105
Dibenz(a,h)anthracene	53-70-3	0	U		0.000293	0.00100	0.00105
Dibenzofuran	132-64-9	0	U		0.000355	0.0100	0.0105
3,3-Dichlorobenzidine	91-94-1	0	U		0.00212	0.0100	0.0105
2,4-Dinitrotoluene	121-14-2	5.19	U		0.00173	0.0100	0.0105
2,6-Dinitrotoluene	606-20-2	4.90	U		0.000293	0.0100	0.0105
1,2-Diphenylhydrazine	103-33-3	5.50	U		0.000334	0.0100	0.0105
Fluoranthene	206-44-0	6.96	U		0.000326	0.00100	0.00105
Fluorene	86-73-7	5.36	U	J4	0.000339	0.00100	0.00105
Hexachlorobenzene	118-74-1	0	U		0.000358	0.00100	0.00105
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000345	0.0100	0.0105
Hexachlorocyclopentadiene	77-47-4	0	U		0.00245	0.0100	0.0105
Hexachloroethane	67-72-1	3.52	U		0.000383	0.0100	0.0105
Indeno(1,2,3-cd)pyrene	193-39-5	0	U		0.000293	0.00100	0.00105
Isophorone	78-59-1	3.66	U		0.000286	0.0100	0.0105
1-Methylnaphthalene	90-12-0	4.43	U		0.000349	0.00100	0.00105
2-Methylnaphthalene	91-57-6	4.37	U		0.000327	0.00100	0.00105
2-Nitroaniline	88-74-4	4.70	U		0.00200	0.0100	0.0105
3-Nitroaniline	99-09-2	5.03	U		0.000323	0.0100	0.0105
4-Nitroaniline	100-01-6	5.40	U		0.000366	0.0100	0.0105

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_09	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	BNAMS23	**Preparation Date/Time:**	05/07/19 16:46
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 01:41
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Naphthalene	91-20-3	3.95	U		0.000391	0.00100	0.00105
Nitrobenzene	98-95-3	3.48	U		0.000385	0.0100	0.0105
n-Nitrosodimethylamine	62-75-9	1.93	U		0.00132	0.0100	0.0105
n-Nitrosodiphenylamine	86-30-6	0	U		0.00125	0.0100	0.0105
n-Nitrosodi-n-propylamine	621-64-7	0	U		0.000423	0.0100	0.0105
Phenanthrene	85-01-8	6.05	U		0.000384	0.00100	0.00105
Pyridine	110-86-1	1.97	U		0.00144	0.0100	0.0105
Benzylbutyl phthalate	85-68-7	7.83	U		0.000289	0.00300	0.00315
Bis(2-Ethylhexyl)phthalate	117-81-7	8.60	U		0.000744	0.00300	0.00315
Di-n-butyl phthalate	84-74-2	6.46	U		0.000279	0.00300	0.00315
Diethyl phthalate	84-66-2	5.30	U		0.000296	0.00300	0.00315
Dimethyl phthalate	131-11-3	4.85	U		0.000297	0.00300	0.00315
n-Octadecane	593-45-3	0	U		0.000396	0.0100	0.0105
Pyrene	129-00-0	7.17	U		0.000347	0.00100	0.00105
1,2,4,5-Tetrachlorobenzene	95-94-3	0	U		0.00253	0.0100	0.0105
4-Chloro-3-methylphenol	59-50-7	4.27	U		0.000276	0.0100	0.0105
2-Chlorophenol	95-57-8	3.13	U		0.000297	0.0100	0.0105
2,4-Dichlorophenol	120-83-2	0	U		0.000298	0.0100	0.0105
2,4-Dimethylphenol	105-67-9	3.77	U		0.000655	0.0100	0.0105
4,6-Dinitro-2-methylphenol	534-52-1	0	U		0.00275	0.0100	0.0105
2,4-Dinitrophenol	51-28-5	0	U		0.00341	0.0100	0.0105
2-Methylphenol	95-48-7	3.34	U		0.000328	0.0100	0.0105
3&4-Methyl Phenol	3&4-Methyl Phenol	3.47	U		0.000279	0.0100	0.0105
2-Nitrophenol	88-75-5	3.75	U		0.000336	0.0100	0.0105
4-Nitrophenol	100-02-7	5.14	U		0.00211	0.0100	0.0105
Pentachlorophenol	87-86-5	0	U		0.000329	0.0100	0.0105
Phenol	108-95-2	3.08	U		0.000351	0.0100	0.0105
2,4,5-Trichlorophenol	95-95-4	4.61	U		0.000248	0.0100	0.0105
2,4,6-Trichlorophenol	88-06-2	4.56	U		0.000312	0.0100	0.0105

Sample Narrative:

Dilution due to sample volume.

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS1

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 40K1**	**RRF: 04K2**	**RRF: .2K2**	**RRF: 1K2**	**RRF: 2K2**
Analysis date/time	02/22/19 13:19	02/22/19 13:37	02/22/19 13:54	02/22/19 14:11	02/22/19 14:28	02/22/19 14:46	02/25/19 10:05	02/25/19 10:22	02/25/19 10:39	02/25/19 10:56
N-NITROSODIETHYLAMINE	0.5880	0.5930	0.5840	0.5640	0.5860	0.6020				
N-NITROSODI-N-BUTYLAMINE	0.2170	0.2270	0.21	0.1880	0.1840	0.1590				
HEXACHLOROPHENE	16.52	23.10	38.40	49.13	76.17	98.26				
PENTACHLOROBENZENE							0.5540	0.4930	0.54	0.53
File ID:	0222_13	0222_14	0222_15	0222_16	0222_17	0222_18	0222_37	0222_38	0222_39	0222_40

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS1

Analyte	**RRF: 5K2**	**RRF: 10K2**	**RRF: 20K2**	**RRF: 40K2**	**RRF. Avg**	**%RSD**	**COD**
Analysis date/time	02/25/19 11:14	02/25/19 11:31	02/25/19 11:48	02/25/19 12:05			
N-NITROSODIETHYLAMINE					0.586254	2.13	
N-NITROSODI-N-BUTYLAMINE					0.197368	12.7	
HEXACHLOROPHENE					50.26509	62.87	0.997
PENTACHLOROBENZENE	0.5070	0.5130	0.5080	0.5130	0.519734	3.82	
File ID:	0222_41	0222_42	0222_43	0222_44			

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS19

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 40K1**	**RRF: 04K2**	**RRF: .2K2**	**RRF: 1K2**	**RRF: 2K2**
Analysis date/time	04/30/19 17:52	04/30/19 18:13	04/30/19 18:33	04/30/19 18:54	04/30/19 19:15	04/30/19 19:36	04/30/19 19:56	04/30/19 20:17	04/30/19 20:37	04/30/19 20:58
N-NITROSODIETHYLAMINE	0.6390	0.60	0.5780	0.6070	0.5790	0.5830				
N-NITROSODI-N-BUTYLAMINE	0.2150	0.1960	0.1860	0.1810	0.1580					
HEXACHLOROPHENE	41.40	46.70	60.40	81.40	97.80	115.60				
PENTACHLOROBENZENE							0.5520	0.5310	0.5260	0.5140
File ID:	0430_03	0430_04	0430_05	0430_06	0430_07	0430_08	0430_09	0430_10	0430_11	0430_12

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS19

Analyte	**RRF: 5K2**	**RRF: 10K2**	**RRF: 20K2**	**RRF: 40K2**	**RRF. Avg**	**%RSD**	**COD**
Analysis date/time	04/30/19 21:19	04/30/19 21:40	04/30/19 22:00	04/30/19 22:21			
N-NITROSODIETHYLAMINE					0.597627	3.9	
N-NITROSODI-N-BUTYLAMINE					0.187038	11.22	
HEXACHLOROPHENE					73.8689	39.9	0.998
PENTACHLOROBENZENE	0.49	0.5080	0.4660	0.44	0.503056	7.27	
File ID:	0430_13	0430_14	0430_15	0430_16			

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS20

Analyte	RRF: 40	RRF: 200	RRF: 1000	RRF: 2000	RRF: 5000	RRF: 10000	RRF: 20000	RRF: 30000	RRF: 40000	RRF: 50000
Analysis date/time	04/20/19 13:42	04/20/19 14:03	04/20/19 14:24	04/20/19 14:45	04/20/19 15:06	05/01/19 03:12	04/20/19 15:49	04/20/19 16:10	04/20/19 16:31	04/20/19 16:52
NAPHTHALENE	1.0770	1.0330	1.0480	1.0630	1.0460	1.08	0.9440	0.9590	0.9220	0.85
2-METHYLNAPHTHALENE	0.6610	0.6330	0.6640	0.6930	0.6860	0.7120	0.6350	0.6460	0.6230	0.5930
1-METHYLNAPHTHALENE	0.68	0.6230	0.6260	0.6620	0.6560	0.6740	0.6050	0.6190	0.5950	0.5610
2-CHLORONAPHTHALENE	1.1740	1.1340	1.1730	1.2010	1.2060	1.2730	1.1270	1.1710	1.11	1.0810
ACENAPHTHYLENE	1.8120	1.7410	1.7930	1.8910	1.9070	1.97	1.7520	1.7590	1.6870	1.5780
ACENAPHTHENE	1.2680	1.2080	1.2020	1.23	1.2410	1.2770	1.13	1.1570	1.1110	1.0520
FLUORENE	1.4060	1.3110	1.3270	1.3930	1.3860	1.4210	1.2560	1.2820	1.2420	1.15
PHENANTHRENE	1.2180	1.1280	1.0990	1.1260	1.1030	1.1530	1.0020	1.02	0.9820	0.9130
ANTHRACENE	1.0790	1.0450	1.0840	1.1470	1.1490	1.1850	1.0460	1.0510	1.0050	0.9280
FLUORANTHENE	1.0250	0.9570	1.0170	1.0890	1.1070	1.1650	1.0280	1.0520	1.0250	0.9630
PYRENE	1.2040	1.1360	1.2570	1.3170	1.3210	1.4160	1.3040	1.3470	1.3160	1.3050
BENZO(A)ANTHRACENE	1.5250	1.0390	1.0060	1.0450	1.0660	1.1430	1.0430	1.0960	1.0990	1.0870
CHRYSENE	1.1230	1.0770	1.1060	1.1430	1.1210	1.1820	1.0640	1.1130	1.0960	1.0680
BENZO(B)FLUORANTHENE	0.9740	0.9010	1.0380	1.1410	1.1690	1.2830	1.2160	1.2820	1.3080	1.27
BENZO(K)FLUORANTHENE	1.0170	1.0250	1.1420	1.2080	1.2640	1.3330	1.2150	1.2890	1.2790	1.2820
BENZO(A)PYRENE	0.75	0.8170	1.02	1.0840	1.1320	1.2210	1.1340	1.1990	1.2020	1.2010
INDENO(1,2,3-CD)PYRENE	0.5350	0.6060	0.6910	0.7520	0.8080	0.9160	0.8370	0.9160	0.9390	
DIBENZ(A,H)ANTHRACENE	0.5140	0.7090	0.8040	0.84	0.88	0.9640	0.8750	0.9320	0.94	
PYRIDINE		1.41	1.3080	1.4020	1.4350	1.4650	1.3430	1.4270	1.4260	1.3850
ANILINE		0.7510	0.6540	0.7180	0.7450	0.7460	0.6950	0.7430	0.7340	0.7150
BIS(2-CHLOROETHYL)ETHER		0.9690	0.8660	0.9530	0.9240	0.96	0.8860	0.9520	0.9260	0.9010
PHENOL		1.4840	1.4790	1.6040	1.6340	1.6750	1.5410	1.62	1.5960	1.5610
2-CHLOROPHENOL		1.2140	1.2730	1.3570	1.38	1.4430	1.3160	1.3680	1.36	1.3070
N-DECANE		0.8450	0.65	0.6840	0.6920	0.6860	0.5970	0.6120	0.5790	0.5370
BENZYL ALCOHOL		0.9250	0.8960	1.0230	1.0580	1.0770	1.0190	1.0720	1.0510	1.0410
BIS(2-CHLOROISOPROPYL)ETHER		0.44	0.4560	0.4940	0.4950	0.5070	0.4660	0.4820	0.4780	0.4760
2-METHYLPHENOL		1.1270	1.1330	1.2190	1.2280	1.25	1.1610	1.2030	1.1950	1.1650
HEXACHLOROETHANE		0.5760	0.5510	0.5840	0.5930	0.61	0.5550	0.5770	0.57	0.5530
N-NITROSODI-N-PROPYLAMINE		0.8670	0.8220	0.9330	0.9690	0.9630	0.9180	0.9580	0.9350	0.9090
3&4-METHYL PHENOL		1.1790	1.2340	1.3560	1.3580	1.3910	1.2870	1.3430	1.3180	1.3060
NITROBENZENE		0.3380	0.3260	0.3480	0.3520	0.3630	0.3340	0.3490	0.3430	0.3340
ISOPHORONE		0.6360	0.6230	0.67	0.6780	0.70	0.64	0.6720	0.6610	0.6430
2-NITROPHENOL		0.1380	0.1550	0.17	0.18	0.1970	0.1850	0.1980	0.1970	0.1980
2,4-DIMETHYLPHENOL		0.2960	0.3160	0.3420	0.3410	0.3540	0.3220	0.3420	0.3360	0.3280
BIS(2-CHLORETHOXY)METHANE		0.41	0.3880	0.4240	0.4260	0.44	0.3970	0.4160	0.4080	0.3890
2,4-DICHLOROPHENOL		0.24	0.2540	0.2730	0.2760	0.2940	0.2720	0.2860	0.2870	0.2850
4-CHLOROANILINE		0.12	0.1110	0.1230	0.1240	0.1250	0.1170	0.1230	0.1210	0.1140
HEXACHLORO-1,3-BUTADIENE		0.1440	0.1570	0.1620	0.1570	0.1650	0.1490	0.1570	0.1550	0.1560
4-CHLORO-3-METHYLPHENOL		0.26	0.2490	0.28	0.2870	0.3030	0.2790	0.2950	0.29	0.2820
HEXACHLOROCYCLOPENTADIENE		0.2970	0.3390	0.3480	0.3740	0.4210	0.3870	0.4150	0.4150	0.4220
2,4,6-TRICHLOROPHENOL		0.30	0.3410	0.3580	0.3710	0.4020	0.40	0.4120	0.4020	0.40
2,4,5-TRICHLOROPHENOL		0.3160	0.3540	0.3810	0.3940	0.4310	0.37	0.4070	0.41	0.4130
BIPHENYL		1.5490	1.5570	1.6130	1.6120	1.6730	1.4680	1.5130	1.4360	1.2960
2-NITROANILINE		0.3090	0.3540	0.3970	0.4330	0.4690	0.4360	0.4720	0.4660	0.4570
DIMETHYL PHTHALATE		1.3490	1.3620	1.4430	1.4220	1.4620	1.28	1.3210	1.28	1.21
2,6-DINITROTOLUENE		0.2510	0.2950	0.3310	0.3440	0.3590	0.3280	0.3460	0.3410	0.3310
3-NITROANILINE		0.2830	0.3390	0.3780	0.3920	0.4090	0.3730	0.40	0.3860	0.3790
DIBENZOFURAN		1.6450	1.6460	1.6980	1.6950	1.7360	1.5220	1.5770	1.48	1.4140
2,4-DINITROTOLUENE		0.2910	0.3670	0.42	0.4410	0.47	0.4320	0.4610	0.4580	0.4420
4-NITROPHENOL		0.2130	0.2530	0.3030	0.3240	0.35	0.3230	0.3510	0.3440	0.3190

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS20

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/20/19 13:42	04/20/19 14:03	04/20/19 14:24	04/20/19 14:45	04/20/19 15:06	05/01/19 03:12	04/20/19 15:49	04/20/19 16:10	04/20/19 16:31	04/20/19 16:52
DIETHYL PHTHALATE		1.38	1.3510	1.4750	1.4580	1.4910	1.3260	1.3610	1.3060	1.2090
4-NITROANILINE		0.3180	0.3660	0.41	0.4270	0.4520	0.3990	0.4280	0.4220	0.4040
AZOBENZENE		1.4650	1.3440	1.47	1.4770	1.4850	1.3230	1.3560	1.3070	1.3310
N-NITROSODIPHENYLAMINE		0.5940	0.6460	0.6750	0.6910	0.7220	0.6570	0.6630	0.6510	0.6380
HEXACHLOROBENZENE		0.2120	0.2210	0.2320	0.23	0.2410	0.2250	0.2360	0.2360	0.2360
N-OCTADECANE		0.1290	0.11	0.1230	0.13	0.1330	0.1250	0.1250	0.1190	0.1160
PENTACHLOROPHENOL		0.0740	0.1020	0.1210	0.13	0.15	0.1440	0.1540	0.1550	0.16
CARBAZOLE		0.9620	0.9880	1.0450	1.0550	1.1030	0.9740	1.0060	0.9580	0.8970
DI-N-BUTYL PHTHALATE		1.1440	1.1680	1.3050	1.3450	1.4080	1.23	1.2280	1.1320	1.0410
BENZYLBUTYL PHTHALATE		0.4530	0.5360	0.6020	0.6520	0.70	0.6730	0.72	0.7150	0.7080
BIS(2-ETHYLHEXYL)PHTHALATE		0.6490	0.7350	0.8370	0.8920	0.98	0.9290	0.9780	0.95	0.9120
2-FLUOROPHENOL		1.0630	1.1150	1.1990	1.2310	1.2850	1.1670	1.2270	1.23	1.2030
PHENOL-D5		1.4830	1.4110	1.5660	1.6090	1.6520	1.5360	1.6160	1.6070	1.5780
NITROBENZENE-D5		0.3690	0.3570	0.3750	0.3880	0.4080	0.3720	0.3970	0.3920	0.3840
2-FLUOROBIPHENYL		1.3410	1.3580	1.3990	1.4060	1.4670	1.2880	1.3340	1.2820	1.2130
P-TERPHENYL-D14		0.7990	0.9090	0.9580	0.9560	1.0220	0.96	0.9920	0.98	0.9620
N-NITROSODIMETHYLAMINE			0.7190	0.6920	0.6840	0.6790	0.6130	0.6450	0.63	0.6170
2,4,6-TRIBROMOPHENOL			0.0970	0.1060	0.1110	0.1240	0.1180	0.1250	0.1270	0.13
2,4-DINITROPHENOL				0.1110	0.1440	0.1820	0.1880	0.2110	0.2140	0.2130
4,6-DINITRO-2-METHYLPHENOL				0.0890	0.1130	0.1330	0.1330	0.1450	0.1470	0.1510
BENZALDEHYDE										
ACETOPHENONE										
BENZOIC ACID										
CAPROLACTAM										
1,2,4,5-TETRACHLOROBENZENE										
ATRAZINE										
BENZIDINE										
3,3-DICHLOROBENZIDINE										
File ID:	0420_05	0420_06	0420_07	0420_08	0420_09	0430B_03	0420_11	0420_12	0420_13	0420_14

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS20

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/20/19 17:13	04/20/19 17:34	04/20/19 17:55	05/01/19 03:33	04/20/19 18:38	04/20/19 18:59	04/20/19 19:20	04/20/19 19:41
NAPHTHALENE								
2-METHYLNAPHTHALENE								
1-METHYLNAPHTHALENE								
2-CHLORONAPHTHALENE								
ACENAPHTHYLENE								
ACENAPHTHENE								
FLUORENE								
PHENANTHRENE								
ANTHRACENE								
FLUORANTHENE								
PYRENE								
BENZO(A)ANTHRACENE								
CHRYSENE								
BENZO(B)FLUORANTHENE								
BENZO(K)FLUORANTHENE								
BENZO(A)PYRENE								
INDENO(1,2,3-CD)PYRENE								
DIBENZ(A,H)ANTHRACENE								
PYRIDINE								
ANILINE								
BIS(2-CHLOROETHYL)ETHER								
PHENOL								
2-CHLOROPHENOL								
N-DECANE								
BENZYL ALCOHOL								
BIS(2-CHLOROISOPROPYL)ETHER								
2-METHYLPHENOL								
HEXACHLOROETHANE								
N-NITROSODI-N-PROPYLAMINE								
3&4-METHYL PHENOL								
NITROBENZENE								
ISOPHORONE								
2-NITROPHENOL								
2,4-DIMETHYLPHENOL								
BIS(2-CHLORETHOXY)METHANE								
2,4-DICHLOROPHENOL								
4-CHLOROANILINE								
HEXACHLORO-1,3-BUTADIENE								
4-CHLORO-3-METHYLPHENOL								
HEXACHLOROCYCLOPENTADIENE								
2,4,6-TRICHLOROPHENOL								
2,4,5-TRICHLOROPHENOL								
BIPHENYL								
2-NITROANILINE								
DIMETHYL PHTHALATE								
2,6-DINITROTOLUENE								
3-NITROANILINE								
DIBENZOFURAN								
2,4-DINITROTOLUENE								
4-NITROPHENOL								

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS20

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/20/19 17:13	04/20/19 17:34	04/20/19 17:55	05/01/19 03:33	04/20/19 18:38	04/20/19 18:59	04/20/19 19:20	04/20/19 19:41
DIETHYL PHTHALATE								
4-NITROANILINE								
AZOBENZENE								
N-NITROSODIPHENYLAMINE								
HEXACHLOROBENZENE								
N-OCTADECANE								
PENTACHLOROPHENOL								
CARBAZOLE								
DI-N-BUTYL PHTHALATE								
BENZYLBUTYL PHTHALATE								
BIS(2-ETHYLHEXYL)PHTHALATE								
2-FLUOROPHENOL								
PHENOL-D5								
NITROBENZENE-D5								
2-FLUOROBIPHENYL								
P-TERPHENYL-D14								
N-NITROSODIMETHYLAMINE								
2,4,6-TRIBROMOPHENOL								
2,4-DINITROPHENOL								
4,6-DINITRO-2-METHYLPHENOL								
BENZALDEHYDE	0.7040	0.7130	0.7180	0.7280	0.7310	0.7240	0.7010	0.6890
ACETOPHENONE	1.67	1.6920	1.6890	1.7070	1.7140	1.7060	1.61	1.5780
BENZOIC ACID	0.1620	0.1730	0.1990	0.2150	0.2080	0.1960	0.1780	0.1730
CAPROLACTAM	0.1080	0.1080	0.1140	0.1120	0.10	0.09	0.08	0.0740
1,2,4,5-TETRACHLOROBENZENE	0.2790	0.2780	0.2660	0.2610	0.2280	0.2010		
ATRAZINE	0.3390	0.3450	0.3760	0.3980	0.3970	0.4010	0.3930	0.3810
BENZIDINE	0.6310	0.6940	0.7940	0.8620	0.8990	0.8860	0.8830	0.8470
3,3-DICHLOROBENZIDINE	0.3830	0.3890	0.4210	0.4550	0.46	0.4620	0.4660	0.4570
File ID:	0420_15	0420_16	0420_17	0430B_04	0420_19	0420_20	0420_21	0420_22

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS20

Analyte Analysis date/time	RRF. Avg	%RSD	COD
NAPHTHALENE	1.002202	7.81	
2-METHYLNAPHTHALENE	0.654623	5.51	
1-METHYLNAPHTHALENE	0.630056	5.98	
2-CHLORONAPHTHALENE	1.165021	4.74	
ACENAPHTHYLENE	1.788928	6.37	
ACENAPHTHENE	1.18756	6.15	
FLUORENE	1.31728	6.6	
PHENANTHRENE	1.074487	8.58	
ANTHRACENE	1.071932	7.07	
FLUORANTHENE	1.042766	6.11	
PYRENE	1.292223	5.99	
BENZO(A)ANTHRACENE	1.114805	13.39	
CHRYSENE	1.10935	3.26	
BENZO(B)FLUORANTHENE	1.158223	12.35	
BENZO(K)FLUORANTHENE	1.205394	9.18	
BENZO(A)PYRENE	1.075837	15.51	0.999
INDENO(1,2,3-CD)PYRENE	0.777656	18.49	0.997
DIBENZ(A,H)ANTHRACENE	0.828661	17.06	0.999
PYRIDINE	1.400208	3.46	
ANILINE	0.722341	4.36	
BIS(2-CHLOROETHYL)ETHER	0.92646	3.85	
PHENOL	1.577069	4.23	
2-CHLOROPHENOL	1.335373	4.99	
N-DECANE	0.653479	13.7	
BENZYL ALCOHOL	1.017976	6.31	
BIS(2-CHLOROISOPROPYL)ETHER	0.477251	4.36	
2-METHYLPHENOL	1.186765	3.61	
HEXACHLOROETHANE	0.574203	3.45	
N-NITROSODI-N-PROPYLAMINE	0.919471	5.25	
3&4-METHYL PHENOL	1.308018	5.08	
NITROBENZENE	0.34292	3.32	
ISOPHORONE	0.658186	3.7	
2-NITROPHENOL	0.179699	12.04	
2,4-DIMETHYLPHENOL	0.330795	5.25	
BIS(2-CHLORETHOXY)METHANE	0.410809	4.26	
2,4-DICHLOROPHENOL	0.274079	6.35	
4-CHLOROANILINE	0.119891	3.97	
HEXACHLORO-1,3-BUTADIENE	0.155639	4.08	
4-CHLORO-3-METHYLPHENOL	0.280533	5.97	
HEXACHLOROCYCLOPENTADIENE	0.379841	11.63	
2,4,6-TRICHLOROPHENOL	0.37607	9.95	
2,4,5-TRICHLOROPHENOL	0.386272	9.14	
BIPHENYL	1.524235	7.42	
2-NITROANILINE	0.421474	13.54	
DIMETHYL PHTHALATE	1.347595	6.25	
2,6-DINITROTOLUENE	0.325116	10.16	
3-NITROANILINE	0.370988	10.36	
DIBENZOFURAN	1.601315	6.87	
2,4-DINITROTOLUENE	0.420131	13.57	
4-NITROPHENOL	0.3089	15.14	
DIETHYL PHTHALATE	1.372993	6.61	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1
Instrument ID: BNAMS20

Analyte Analysis date/time	RRF. Avg	%RSD	COD
4-NITROANILINE	0.402822	9.84	
AZOBENZENE	1.395352	5.47	
N-NITROSODIPHENYLAMINE	0.659854	5.42	
HEXACHLOROBENZENE	0.229865	3.91	
N-OCTADECANE	0.12324	6.01	
PENTACHLOROPHENOL	0.132288	21.84	0.998
CARBAZOLE	0.998675	6.15	
DI-N-BUTYL PHTHALATE	1.222419	9.44	
BENZYLBUTYL PHTHALATE	0.639877	14.48	
BIS(2-ETHYLHEXYL)PHTHALATE	0.873457	13.05	
2-FLUOROPHENOL	1.191047	5.63	
PHENOL-D5	1.561908	4.82	
NITROBENZENE-D5	0.382392	4.09	
2-FLUOROBIPHENYL	1.343223	5.68	
P-TERPHENYL-D14	0.948803	6.73	
N-NITROSODIMETHYLAMINE	0.659847	5.9	
2,4,6-TRIBROMOPHENOL	0.117229	9.95	
2,4-DINITROPHENOL	0.180455	21.84	0.998
4,6-DINITRO-2-METHYLPHENOL	0.130058	17.14	0.999
BENZALDEHYDE	0.713559	2.06	
ACETOPHENONE	1.670776	2.99	
BENZOIC ACID	0.187791	10.15	
CAPROLACTAM	0.098556	15.32	
1,2,4,5-TETRACHLOROBENZENE	0.252273	12.46	
ATRAZINE	0.378652	6.43	
BENZIDINE	0.812023	12.2	
3,3-DICHLOROBENZIDINE	0.436677	7.86	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	RRF: 40	RRF: 200	RRF: 1000	RRF: 2000	RRF: 5000	RRF: 10000	RRF: 20000	RRF: 30000	RRF: 40000	RRF: 50000
Analysis date/time	04/16/19 10:31	04/16/19 10:52	04/16/19 11:14	04/16/19 11:35	04/16/19 11:56	04/16/19 12:17	04/16/19 12:38	04/16/19 13:00	04/16/19 13:21	04/16/19 13:42
NAPHTHALENE	1.1470	1.0990	1.0650	1.0840	1.0880	1.1890	1.1370	0.9910	0.7730	0.7960
2-METHYLNAPHTHALENE	0.6250	0.6250	0.6170	0.6310	0.6560	0.7310	0.73	0.7040	0.5840	0.5920
1-METHYLNAPHTHALENE	0.5740	0.5910	0.5890	0.6060	0.62	0.6960	0.6940	0.68	0.57	0.5780
2-CHLORONAPHTHALENE	0.9970	1.0780	1.0980	1.1140	1.1340	1.3280	1.3420	1.3410	1.21	1.1940
ACENAPHTHYLENE	1.6440	1.7250	1.7980	1.85	1.8690	2.1590	2.0740	1.9160	1.6110	1.6740
ACENAPHTHENE	1.1490	1.2690	1.2080	1.2420	1.2770	1.4820	1.4960	1.4220	1.2050	1.2510
FLUORENE	1.1770	1.2430	1.2280	1.2770	1.3430	1.6290	1.6660	1.5870	1.3670	1.3690
PHENANTHRENE	1.1130	1.0350	1.0170	1.0710	1.0970	1.2130	1.19	1.10	0.9360	0.9430
ANTHRACENE	0.9480	0.9620	1.0230	1.0630	1.1320	1.2640	1.2250	1.1670	0.9010	0.9290
FLUORANTHENE	0.8940	0.9210	0.9380	1.0280	1.0430	1.1970	1.2290	1.2030	1.02	1.0460
PYRENE	1.1010	1.1780	1.1470	1.2130	1.2060	1.3090	1.2680	1.2070	1.0910	1.0460
BENZO(A)ANTHRACENE	1.55	1.0770	1.0120	1.0270	1.0320	1.1220	1.1190	1.1120	1.0730	1.0650
CHRYSENE	1.0790	1.0490	1.0450	1.09	1.0840	1.19	1.2010	1.17	1.1040	1.0920
BIS(2-ETHYLHEXYL)PHTHALATE	0.6960	0.6190	0.7220	0.7740	0.8660	0.9950	1.0130	1.0440	0.9770	0.9430
BENZO(B)FLUORANTHENE	0.99	0.9530	0.9930	1.0350	1.0570	1.19	1.2360	1.2840	1.3130	1.3330
BENZO(K)FLUORANTHENE	0.88	0.9690	1.0160	1.0890	1.1350	1.2850	1.3150	1.3240	1.3190	1.3180
BENZO(A)PYRENE	0.7550	0.8340	0.9420	0.9910	1.0390	1.1850	1.2230	1.2410	1.2650	1.2750
INDENO(1,2,3-CD)PYRENE	0.74	0.8460	0.8570	0.9110	0.9330	1.0260	1.0460	1.0830	1.2040	
DIBENZ(A,H)ANTHRACENE	0.6880	0.8620	0.9060	0.9640	0.9950	1.1050	1.16	1.1980	1.2670	1.28
PYRIDINE		1.3220	1.2670	1.3260	1.3170	1.4720	1.4350	1.4370	1.3940	1.4070
N-NITROSODIMETHYLAMINE		0.8170	0.6220	0.6220	0.6010	0.6520	0.6450	0.6180	0.62	0.6150
ANILINE		0.5560	0.5740	0.6180	0.6250	0.7010	0.7010	0.6990	0.7140	0.7070
BIS(2-CHLOROETHYL)ETHER		0.8440	0.8140	0.8530	0.8580	0.9450	0.95	0.9370	0.9770	0.95
PHENOL		1.5770	1.5850	1.6490	1.6850	1.8890	1.9040	1.9150	1.8960	1.8350
2-CHLOROPHENOL		1.2870	1.3060	1.3660	1.3950	1.5930	1.6320	1.6530	1.5470	1.5420
N-DECANE		0.6520	0.62	0.6510	0.67	0.7670	0.7610	0.7460	0.7030	0.7040
BENZYL ALCOHOL		0.8950	0.9330	0.9620	0.9990	1.12	1.1230	1.1260	1.1570	1.1190
BIS(2-CHLOROISOPROPYL)ETHER		0.5010	0.4660	0.4710	0.4790	0.5250	0.5260	0.53	0.5490	0.5370
2-METHYLPHENOL		1.1450	1.18	1.2470	1.2790	1.43	1.44	1.4240	1.3840	1.38
HEXACHLOROETHANE		0.6170	0.58	0.60	0.6320	0.7060	0.7110	0.7280	0.7180	0.7150
N-NITROSODI-N-PROPYLAMINE		0.8810	0.8290	0.8270	0.8730	0.9620	0.97	0.9710	1.0310	0.9740
3&4-METHYL PHENOL		1.3810	1.3720	1.4580	1.4970	1.6570	1.67	1.6290	1.6280	1.58
NITROBENZENE		0.3230	0.3240	0.34	0.3380	0.3810	0.3870	0.3880	0.3750	0.3760
ISOPHORONE		0.5590	0.5730	0.5990	0.63	0.6960	0.69	0.6880	0.6690	0.6550
2,4-DIMETHYLPHENOL		0.3030	0.3220	0.3340	0.3470	0.3970	0.4110	0.4170	0.4030	0.3990
BIS(2-CHLORETHOXY)METHANE		0.3820	0.3790	0.4010	0.4080	0.45	0.4530	0.4580	0.4330	0.4270
2,4-DICHLOROPHENOL		0.2370	0.2320	0.2430	0.2530	0.2770	0.2880	0.2970	0.2950	0.2880
4-CHLOROANILINE		0.0920	0.0930	0.1030	0.1040	0.12	0.1230	0.1280	0.1320	0.1280
HEXACHLORO-1,3-BUTADIENE		0.1260	0.1190	0.1240	0.1240	0.1430	0.1480	0.1580	0.1650	0.1610
4-CHLORO-3-METHYLPHENOL		0.2250	0.2460	0.2550	0.27	0.3060	0.3210	0.3320	0.3360	0.3270
BIPHENYL		1.5030	1.4970	1.56	1.5480	1.7930	1.79	1.6840	1.3180	1.37
DIMETHYL PHTHALATE		1.1720	1.1960	1.2380	1.2460	1.4270	1.4440	1.40	1.2750	1.2770
3-NITROANILINE		0.2980	0.34	0.3660	0.3770	0.4320	0.4380	0.4470	0.4670	0.4590
DIBENZOFURAN		1.5490	1.5260	1.5920	1.5860	1.80	1.7940	1.7130	1.4270	1.4760
DIETHYL PHTHALATE		1.1770	1.2250	1.2710	1.3010	1.4750	1.5120	1.4870	1.2970	1.3250
AZOBENZENE		1.3010	1.3780	1.4610	1.4850	1.6790	1.71	1.6080	1.3920	1.3680
N-NITROSODIPHENYLAMINE		0.5530	0.5850	0.6130	0.6380	0.7190	0.7140	0.7310	0.6510	0.6570
HEXACHLOROBENZENE		0.1820	0.1780	0.1830	0.1880	0.2160	0.2340	0.2540		
N-OCTADECANE		0.1010	0.1050	0.1110	0.1150	0.1320	0.1370			
CARBAZOLE		0.9040	0.9820	1.0380	1.0670	1.22	1.1840	1.1210	0.9460	0.9630

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/16/19 10:31	04/16/19 10:52	04/16/19 11:14	04/16/19 11:35	04/16/19 11:56	04/16/19 12:17	04/16/19 12:38	04/16/19 13:00	04/16/19 13:21	04/16/19 13:42
DI-N-BUTYL PHTHALATE		1.0090	1.0810	1.1980	1.2620	1.4830	1.4250	1.2790	0.9830	
BENZYLBUTYL PHTHALATE		0.4480	0.5290	0.5530	0.5970	0.6660	0.6830	0.6930	0.6910	0.6760
2-FLUOROPHENOL		1.1790	1.1720	1.2240	1.2380	1.3660	1.3460	1.3540	1.2980	1.3050
PHENOL-D5		1.5590	1.5380	1.6220	1.6510	1.8210	1.8450	1.8520	1.8840	1.8380
NITROBENZENE-D5		0.3640	0.3640	0.38	0.3860	0.4290	0.4320	0.4370	0.3810	0.3650
2-FLUOROBIPHENYL		1.2760	1.2560	1.3110	1.3180	1.5220	1.4980	1.4450	1.2030	1.23
P-TERPHENYL-D14		0.74	0.74	0.79	0.8040	0.8940	0.9150	0.91	0.8410	0.8240
2-NITROPHENOL			0.1530	0.1680	0.1780	0.2070	0.2160	0.2240	0.2250	0.2220
2-NITROANILINE			0.3920	0.4160	0.4360	0.5070	0.5250	0.54	0.5580	0.5430
2,6-DINITROTOLUENE			0.27	0.2810	0.2870	0.3260	0.3370	0.35	0.3880	0.3690
2,4-DINITROTOLUENE			0.3370	0.36	0.3720	0.4240	0.44	0.4570	0.4970	0.4940
4-NITROPHENOL			0.2640	0.2920	0.3040	0.3570	0.3740	0.3780	0.3910	0.3980
4,6-DINITRO-2-METHYLPHENOL			0.0710	0.0820	0.0940	0.1110	0.1190	0.1290	0.1470	0.1440
PENTACHLOROPHENOL			0.0830	0.0930	0.1020	0.12	0.1280	0.1430		
HEXACHLOROCYCLOPENTADIENE				0.3240	0.3380	0.4040	0.4310	0.4630	0.4620	0.4660
2,4,6-TRICHLOROPHENOL				0.3020	0.3180	0.3710	0.4160	0.4170		
2,4,5-TRICHLOROPHENOL				0.3180	0.3270	0.3830	0.3740	0.4210	0.4190	0.4420
2,4-DINITROPHENOL				0.1130	0.1340	0.1820	0.2150	0.24	0.2470	
4-NITROANILINE				0.4170	0.4580	0.5670	0.5870	0.5670	0.5540	0.5570
2,4,6-TRIBROMOPHENOL				0.0880	0.0940	0.1150	0.12	0.1350		
BENZALDEHYDE										
ACETOPHENONE										
BENZOIC ACID										
CAPROLACTAM										
1,2,4,5-TETRACHLOROBENZENE										
ATRAZINE										
BENZIDINE										
3,3-DICHLOROBENZIDINE										
File ID:	0416_06	0416_07	0416_08	0416_09	0416_10	0416_11	0416_12	0416_13	0416_14	0416_15

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/16/19 14:03	04/16/19 14:24	04/16/19 14:46	04/16/19 15:07	04/16/19 15:28	04/16/19 15:49	04/16/19 16:10	04/16/19 16:32
NAPHTHALENE								
2-METHYLNAPHTHALENE								
1-METHYLNAPHTHALENE								
2-CHLORONAPHTHALENE								
ACENAPHTHYLENE								
ACENAPHTHENE								
FLUORENE								
PHENANTHRENE								
ANTHRACENE								
FLUORANTHENE								
PYRENE								
BENZO(A)ANTHRACENE								
CHRYSENE								
BIS(2-ETHYLHEXYL)PHTHALATE								
BENZO(B)FLUORANTHENE								
BENZO(K)FLUORANTHENE								
BENZO(A)PYRENE								
INDENO(1,2,3-CD)PYRENE								
DIBENZ(A,H)ANTHRACENE								
PYRIDINE								
N-NITROSODIMETHYLAMINE								
ANILINE								
BIS(2-CHLOROETHYL)ETHER								
PHENOL								
2-CHLOROPHENOL								
N-DECANE								
BENZYL ALCOHOL								
BIS(2-CHLOROISOPROPYL)ETHER								
2-METHYLPHENOL								
HEXACHLOROETHANE								
N-NITROSODI-N-PROPYLAMINE								
3&4-METHYL PHENOL								
NITROBENZENE								
ISOPHORONE								
2,4-DIMETHYLPHENOL								
BIS(2-CHLORETHOXY)METHANE								
2,4-DICHLOROPHENOL								
4-CHLOROANILINE								
HEXACHLORO-1,3-BUTADIENE								
4-CHLORO-3-METHYLPHENOL								
BIPHENYL								
DIMETHYL PHTHALATE								
3-NITROANILINE								
DIBENZOFURAN								
DIETHYL PHTHALATE								
AZOBENZENE								
N-NITROSODIPHENYLAMINE								
HEXACHLOROBENZENE								
N-OCTADECANE								
CARBAZOLE								

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/16/19 14:03	04/16/19 14:24	04/16/19 14:46	04/16/19 15:07	04/16/19 15:28	04/16/19 15:49	04/16/19 16:10	04/16/19 16:32
DI-N-BUTYL PHTHALATE								
BENZYLBUTYL PHTHALATE								
2-FLUOROPHENOL								
PHENOL-D5								
NITROBENZENE-D5								
2-FLUOROBIPHENYL								
P-TERPHENYL-D14								
2-NITROPHENOL								
2-NITROANILINE								
2,6-DINITROTOLUENE								
2,4-DINITROTOLUENE								
4-NITROPHENOL								
4,6-DINITRO-2-METHYLPHENOL								
PENTACHLOROPHENOL								
HEXACHLOROCYCLOPENTADIENE								
2,4,6-TRICHLOROPHENOL								
2,4,5-TRICHLOROPHENOL								
2,4-DINITROPHENOL								
4-NITROANILINE								
2,4,6-TRIBROMOPHENOL								
BENZALDEHYDE	0.7570	0.7610	0.7440	0.8240	0.8380	0.8690	0.92	0.92
ACETOPHENONE	1.8270	1.8430	1.9040	2.11	2.14	2.2330	2.1680	2.2230
BENZOIC ACID	0.1910	0.1860	0.1990	0.1990	0.1750	0.16	0.1550	0.1420
CAPROLACTAM	0.1060	0.1040	0.1080	0.1040	0.09	0.08	0.0720	
1,2,4,5-TETRACHLOROBENZENE	0.2270	0.2220	0.2210	0.2140	0.1880	0.1740	0.1630	
ATRAZINE		0.2880	0.3120	0.3590	0.38	0.4060	0.4290	
BENZIDINE		0.6110	0.71	0.8420	0.8940	0.97	0.9460	0.9530
3,3-DICHLOROBENZIDINE		0.0630	0.0720	0.0810	0.0850	0.0940	0.1020	0.1050
File ID:	0416_16	0416_17	0416_18	0416_19	0416_20	0416_21	0416_22	0416_23

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1
Instrument ID: BNAMS23

Analyte Analysis date/time	RRF. Avg	%RSD	COD
NAPHTHALENE	1.036904	13.8	
2-METHYLNAPHTHALENE	0.649426	8.35	
1-METHYLNAPHTHALENE	0.619905	8.19	
2-CHLORONAPHTHALENE	1.183795	10.23	
ACENAPHTHYLENE	1.831859	9.9	
ACENAPHTHENE	1.300169	9.39	
FLUORENE	1.388442	12.74	
PHENANTHRENE	1.071696	8.6	
ANTHRACENE	1.061432	12.23	
FLUORANTHENE	1.051793	11.51	
PYRENE	1.176635	6.94	
BENZO(A)ANTHRACENE	1.118993	13.97	
CHRYSENE	1.110404	5.08	
BIS(2-ETHYLHEXYL)PHTHALATE	0.864903	17.55	0.997
BENZO(B)FLUORANTHENE	1.138536	12.97	
BENZO(K)FLUORANTHENE	1.164881	14.53	
BENZO(A)PYRENE	1.074977	17.67	0.998
INDENO(1,2,3-CD)PYRENE	0.960718	14.79	
DIBENZ(A,H)ANTHRACENE	1.042455	18.47	0.996
PYRIDINE	1.375299	5.04	
N-NITROSODIMETHYLAMINE	0.645631	10.25	
ANILINE	0.655076	9.51	
BIS(2-CHLOROETHYL)ETHER	0.90295	6.64	
PHENOL	1.770643	8.15	
2-CHLOROPHENOL	1.480093	9.6	
N-DECANE	0.697191	7.57	
BENZYL ALCOHOL	1.047936	9.56	
BIS(2-CHLOROISOPROPYL)ETHER	0.509472	6.1	
2-METHYLPHENOL	1.323366	8.54	
HEXACHLOROETHANE	0.66733	8.86	
N-NITROSODI-N-PROPYLAMINE	0.924281	7.87	
3&4-METHYL PHENOL	1.541321	7.59	
NITROBENZENE	0.358925	7.65	
ISOPHORONE	0.639798	8.14	
2,4-DIMETHYLPHENOL	0.370388	11.76	
BIS(2-CHLORETHOXY)METHANE	0.421141	7.14	
2,4-DICHLOROPHENOL	0.267648	9.85	
4-CHLOROANILINE	0.113683	13.7	
HEXACHLORO-1,3-BUTADIENE	0.140862	12.9	
4-CHLORO-3-METHYLPHENOL	0.291071	14.47	
BIPHENYL	1.562679	10.72	
DIMETHYL PHTHALATE	1.297185	7.8	
3-NITROANILINE	0.40256	14.8	
DIBENZOFURAN	1.607065	8.33	
DIETHYL PHTHALATE	1.340898	9.04	
AZOBENZENE	1.486889	9.85	
N-NITROSODIPHENYLAMINE	0.651138	9.5	
HEXACHLOROBENZENE	0.205161	14.53	
N-OCTADECANE	0.116779	12.49	
CARBAZOLE	1.047274	10.49	
DI-N-BUTYL PHTHALATE	1.215082	15.14	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1095644 **Analytical Method:** 625.1
Instrument ID: BNAMS23

Analyte Analysis date/time	RRF. Avg	%RSD	COD
BENZYLBUTYL PHTHALATE	0.615006	14.32	
2-FLUOROPHENOL	1.27561	5.87	
PHENOL-D5	1.734388	8.04	
NITROBENZENE-D5	0.392969	7.82	
2-FLUOROBIPHENYL	1.340042	8.84	
P-TERPHENYL-D14	0.828816	8.13	
2-NITROPHENOL	0.199126	14.37	
2-NITROANILINE	0.489833	13.24	
2,6-DINITROTOLUENE	0.326228	13.29	
2,4-DINITROTOLUENE	0.422598	14.37	
4-NITROPHENOL	0.344819	14.73	
4,6-DINITRO-2-METHYLPHENOL	0.112128	24.84	0.992
PENTACHLOROPHENOL	0.111538	20.29	0.993
HEXACHLOROCYCLOPENTADIENE	0.41257	14.52	
2,4,6-TRICHLOROPHENOL	0.364775	14.74	
2,4,5-TRICHLOROPHENOL	0.383431	12.45	
2,4-DINITROPHENOL	0.188528	29.45	0.993
4-NITROANILINE	0.529689	12.25	
2,4,6-TRIBROMOPHENOL	0.110431	17.27	0.994
BENZALDEHYDE	0.829204	8.56	
ACETOPHENONE	2.055843	8.27	
BENZOIC ACID	0.175817	12.23	
CAPROLACTAM	0.094785	15.1	
1,2,4,5-TETRACHLOROBENZENE	0.201136	12.87	
ATRAZINE	0.362229	14.91	
BENZIDINE	0.846735	16.21	0.999
3,3-DICHLOROBENZIDINE	0.085927	17.92	0.994

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/22/19 13:19
Instrument ID:	BNAMS1	**Calibration (end) date/time:**	02/25/19 12:05
Lab File ID:	0222_45-2	**Analysis date/time:**	02/25/19 13:32
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROPHENE	50.265090	0.05894185		99.90		20	21.28	106	70 - 130
N-NITROSODI-N-BUTYLAMINE	0.197368	0.19279470		2.32		10	9.768	97.70	70 - 130
N-NITROSODIETHYLAMINE	0.586254	0.28918570		50.70		10	4.933	49.30	70 - 130

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/22/19 13:19
Instrument ID:	BNAMS1	**Calibration (end) date/time:**	02/25/19 12:05
Lab File ID:	0222_45A-2	**Analysis date/time:**	02/25/19 13:32
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
PENTACHLOROBENZENE	0.519734	0.49761850		4.26		10	9.574	95.70	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/22/19 13:19
Instrument ID:	BNAMS1	**Calibration (end) date/time:**	02/25/19 12:05
Lab File ID:	0222_46-2	**Analysis date/time:**	02/25/19 15:27
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
N-NITROSODIETHYLAMINE	0.586254	0.54041090		7.82		10	9.218	92.20	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/22/19 13:19
Instrument ID:	BNAMS1	**Calibration (end) date/time:**	02/25/19 12:05
Lab File ID:	0222_47-2	**Analysis date/time:**	02/25/19 15:44
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
HEXACHLOROPHENE	50.265090	0.06029795		99.90		20	21.65	108	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/22/19 13:19
Instrument ID:	BNAMS1	**Calibration (end) date/time:**	02/25/19 12:05
Lab File ID:	0508B_02-1	**Analysis date/time:**	05/08/19 14:51
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
HEXACHLOROPHENE	50.265090	0.0014092110		100		20	2.309	11.50	70 - 130
N-NITROSODI-N-BUTYLAMINE	0.197368	0.20098370		1.83		10	10.18	102	70 - 130
N-NITROSODIETHYLAMINE	0.586254	0.56287390		3.99		10	9.601	96	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	02/22/19 13:19
Instrument ID:	BNAMS1	**Calibration (end) date/time:**	02/25/19 12:05
Lab File ID:	0508B_04-1	**Analysis date/time:**	05/08/19 15:26
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
PENTACHLOROBENZENE	0.519734	0.60459520		16.30		10	11.63	116	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/30/19 17:52
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	05/01/19 00:25
Lab File ID:	0430_23-2	**Analysis date/time:**	05/01/19 00:45
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROPHENE	73.8689	0.06311401		99.90		20	16.26	81.30	70 - 130
N-NITROSODI-N-BUTYLAMINE	0.187038	0.17421160		6.86		10	9.314	93.10	70 - 130
N-NITROSODIETHYLAMINE	0.597627	0.59040110		1.21		10	9.879	98.80	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/30/19 17:52
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	05/01/19 00:25
Lab File ID:	0430_23A-2	**Analysis date/time:**	05/01/19 00:45
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
PENTACHLOROBENZENE	0.503056	0.49814630		0.9760		10	9.902	99	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/30/19 17:52
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	05/01/19 00:25
Lab File ID:	0509_10-1	**Analysis date/time:**	05/09/19 12:09
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROPHENE	73.8689	0.05374274		99.90		20	14.20	71	70 - 130
N-NITROSODI-N-BUTYLAMINE	0.187038	0.18422140		1.51		10	9.849	98.50	70 - 130
N-NITROSODIETHYLAMINE	0.597627	0.60227470		0.7780		10	10.08	101	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/01/19 03:33
Lab File ID:	0420_23-2	**Analysis date/time:**	04/20/19 20:02
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.630056	0.67139590		6.56		10	10.66	107	70 - 130
2,4,5-TRICHLOROPHENOL	0.386272	0.41512770		7.47		10	10.75	108	70 - 130
2,4,6-TRICHLOROPHENOL	0.376070	0.39264470		4.41		10	10.44	104	70 - 130
2,4-DICHLOROPHENOL	0.274079	0.28948650		5.62		10	10.56	106	70 - 130
2,4-DIMETHYLPHENOL	0.330795	0.36817250		11.30		10	11.13	111	70 - 130
2,4-DINITROPHENOL	0.180455	0.17287170		4.20		10	9.243	92.40	70 - 130
2,4-DINITROTOLUENE	0.420131	0.47070350		12		10	11.20	112	70 - 130
2,6-DINITROTOLUENE	0.325116	0.35781910		10.10		10	11.01	110	70 - 130
2-CHLORONAPHTHALENE	1.165021	1.239891		6.43		10	10.64	106	70 - 130
2-CHLOROPHENOL	1.335373	1.418437		6.22		10	10.62	106	70 - 130
2-METHYLNAPHTHALENE	0.654623	0.67791010		3.56		10	10.36	104	70 - 130
2-METHYLPHENOL	1.186765	1.251092		5.42		10	10.54	105	70 - 130
2-NITROANILINE	0.421474	0.46458540		10.20		10	11.02	110	70 - 130
2-NITROPHENOL	0.179699	0.19158660		6.62		10	10.66	107	70 - 130
3&4-METHYL PHENOL	1.308018	1.382205		5.67		10	10.57	106	70 - 130
3-NITROANILINE	0.370988	0.39955150		7.70		10	10.77	108	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.130058	0.131760		1.31		10	9.784	97.80	70 - 130
4-CHLORO-3-METHYLPHENOL	0.280533	0.294199		4.87		10	10.49	105	70 - 130
4-CHLOROANILINE	0.119891	0.12121110		1.10		10	10.11	101	70 - 130
4-NITROANILINE	0.402822	0.42608820		5.78		10	10.58	106	70 - 130
4-NITROPHENOL	0.3089	0.33881390		9.68		10	10.97	110	70 - 130
ACENAPHTHENE	1.187560	1.293457		8.92		10	10.89	109	70 - 130
ACENAPHTHYLENE	1.788928	1.976102		10.50		10	11.05	111	70 - 130
ANILINE	0.722341	0.74077740		2.55		10	10.26	103	70 - 130
ANTHRACENE	1.071932	1.173827		9.51		10	10.95	110	70 - 130
AZOBENZENE	1.395352	1.430468		2.52		10	10.25	103	70 - 130
BENZO(A)ANTHRACENE	1.114805	1.167016		4.68		10	10.47	105	70 - 130
BENZO(A)PYRENE	1.075837	1.166101		8.39		10	9.827	98.30	70 - 130
BENZO(B)FLUORANTHENE	1.158223	1.285146		11		10	11.10	111	70 - 130
BENZO(K)FLUORANTHENE	1.205394	1.322550		9.72		10	10.97	110	70 - 130
BENZYL ALCOHOL	1.017976	1.109866		9.03		10	10.90	109	70 - 130
BENZYLBUTYL PHTHALATE	0.639877	0.684179		6.92		10	10.69	107	70 - 130
BIPHENYL	1.524235	1.532502		0.5420		10	10.05	101	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.410809	0.44161180		7.50		10	10.75	108	70 - 130
BIS(2-CHLOROETHYL)ETHER	0.926460	0.93400730		0.8150		10	10.08	101	70 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.477251	0.50875390		6.60		10	10.66	107	70 - 130
BIS(2-ETHYLHEXYL)PHTHALATE	0.873457	0.96008610		9.92		10	10.99	110	70 - 130
CARBAZOLE	0.998675	1.057906		5.93		10	10.59	106	70 - 130
CHRYSENE	1.109350	1.170647		5.53		10	10.55	106	70 - 130
DI-N-BUTYL PHTHALATE	1.222419	1.349316		10.40		10	11.04	110	70 - 130
DIBENZ(A,H)ANTHRACENE	0.828661	0.93600830		13		10	10.16	102	70 - 130
DIBENZOFURAN	1.601315	1.682179		5.05		10	10.50	105	70 - 130
DIETHYL PHTHALATE	1.372993	1.479458		7.75		10	10.78	108	70 - 130
DIMETHYL PHTHALATE	1.347595	1.439604		6.83		10	10.68	107	70 - 130
FLUORANTHENE	1.042766	1.120752		7.48		10	10.75	108	70 - 130
FLUORENE	1.317280	1.442101		9.48		10	10.95	110	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.155639	0.181199		16.40		10	11.64	116	70 - 130
HEXACHLOROBENZENE	0.229865	0.24558420		6.84		10	10.68	107	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/01/19 03:33
Lab File ID:	0420_23-2	**Analysis date/time:**	04/20/19 20:02
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.379841	0.37812780		0.4510		10	9.955	99.60	70 - 130
HEXACHLOROETHANE	0.574203	0.59262690		3.21		10	10.32	103	70 - 130
INDENO(1,2,3-CD)PYRENE	0.777656	0.83540790		7.43		10	9.302	93	70 - 130
ISOPHORONE	0.658186	0.68651170		4.30		10	10.43	104	70 - 130
N-DECANE	0.653479	0.58644390		10.30		10	8.974	89.70	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.919471	0.94005910		2.24		10	10.22	102	70 - 130
N-NITROSODIMETHYLAMINE	0.659847	0.60606770		8.15		10	9.185	91.90	70 - 130
N-NITROSODIPHENYLAMINE	0.659854	0.70072310		6.19		10	10.62	106	70 - 130
N-OCTADECANE	0.123240	0.11835020		3.97		10	9.603	96	70 - 130
NAPHTHALENE	1.002202	1.061525		5.92		10	10.59	106	70 - 130
NITROBENZENE	0.342920	0.36083940		5.23		10	10.52	105	70 - 130
PENTACHLOROPHENOL	0.132288	0.17241930		30.30		10	11.33	113	70 - 130
PHENANTHRENE	1.074487	1.122887		4.50		10	10.45	105	70 - 130
PHENOL	1.577069	1.626431		3.13		10	10.31	103	70 - 130
PYRENE	1.292223	1.374452		6.36		10	10.64	106	70 - 130
PYRIDINE	1.400208	1.423577		1.67		10	10.17	102	70 - 130
2,4,6-TRIBROMOPHENOL	0.117229	0.11671850		0.4350		10	9.956	99.60	70 - 130
2-FLUOROBIPHENYL	1.343223	1.341960		0.0940		10	9.991	99.90	70 - 130
2-FLUOROPHENOL	1.191047	1.148007		3.61		10	9.639	96.40	70 - 130
NITROBENZENE-D5	0.382392	0.36554360		4.41		10	9.559	95.60	70 - 130
P-TERPHENYL-D14	0.948803	0.95438570		0.5880		10	10.06	101	70 - 130
PHENOL-D5	1.561908	1.516634		2.90		10	9.710	97.10	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/01/19 03:33
Lab File ID:	0420_24-2	**Analysis date/time:**	04/20/19 20:23
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	**Avg. RRF**	**RRF**	**Min. RRF**	**Diff.**	**Max Diff.**	**True Value**	**Result**	**Result**	**Limits**
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
1,2,4,5-TETRACHLOROBENZENE	0.252273	0.26445890		4.83		10	10.48	105	70 - 130
3,3-DICHLOROBENZIDINE	0.436677	0.40558510		7.12		10	9.288	92.90	70 - 130
ACETOPHENONE	1.670776	1.862436		11.50		10	11.15	112	70 - 130
ATRAZINE	0.378652	0.40798930		7.75		10	10.77	108	70 - 130
BENZIDINE	0.812023	0.58155280		28.40		10	7.162	71.60	70 - 130
BENZOIC ACID	0.187791	0.07946376		57.70		10	4.232	42.30	70 - 130
CAPROLACTAM	0.098556	0.11723360		19		10	11.90	119	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/01/19 03:33
Lab File ID:	0507A_03-1	**Analysis date/time:**	05/07/19 23:35
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.630056	0.68397320		8.56		10	10.86	109	70 - 130
2,4,5-TRICHLOROPHENOL	0.386272	0.43580660		12.80		10	11.28	113	70 - 130
2,4,6-TRICHLOROPHENOL	0.376070	0.416708		10.80		10	11.08	111	69 - 130
2,4-DICHLOROPHENOL	0.274079	0.31010380		13.10		10	11.31	113	64 - 130
2,4-DIMETHYLPHENOL	0.330795	0.30031110		9.22		10	9.078	90.80	58 - 130
2,4-DINITROPHENOL	0.180455	0.19171620		6.24		10	10.11	101	39 - 173
2,4-DINITROTOLUENE	0.420131	0.44779240		6.58		10	10.66	107	53 - 130
2,6-DINITROTOLUENE	0.325116	0.33702320		3.66		10	10.37	104	68 - 137
2-CHLORONAPHTHALENE	1.165021	1.242004		6.61		10	10.66	107	70 - 130
2-CHLOROPHENOL	1.335373	1.428318		6.96		10	10.70	107	55 - 130
2-METHYLNAPHTHALENE	0.654623	0.71951670		9.91		10	10.99	110	70 - 130
2-METHYLPHENOL	1.186765	1.238633		4.37		10	10.44	104	70 - 130
2-NITROANILINE	0.421474	0.45515050		7.99		10	10.80	108	70 - 130
2-NITROPHENOL	0.179699	0.20332680		13.10		10	11.31	113	61 - 163
3&4-METHYL PHENOL	1.308018	1.379779		5.49		10	10.55	106	70 - 130
3-NITROANILINE	0.370988	0.38530710		3.86		10	10.39	104	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.130058	0.13235640		1.77		10	9.824	98.20	56 - 130
4-CHLORO-3-METHYLPHENOL	0.280533	0.30708270		9.46		10	10.95	110	68 - 130
4-CHLOROANILINE	0.119891	0.13026730		8.65		10	10.87	109	70 - 130
4-NITROANILINE	0.402822	0.41723610		3.58		10	10.36	104	70 - 130
4-NITROPHENOL	0.3089	0.28673910		7.17		10	9.283	92.80	35 - 130
ACENAPHTHENE	1.187560	1.224918		3.15		10	10.31	103	70 - 130
ACENAPHTHYLENE	1.788928	1.934564		8.14		10	10.81	108	60 - 130
ANILINE	0.722341	0.68601970		5.03		10	9.497	95	70 - 130
ANTHRACENE	1.071932	1.071067		0.0807		10	9.992	99.90	58 - 130
AZOBENZENE	1.395352	1.481845		6.20		10	10.62	106	70 - 130
BENZO(A)ANTHRACENE	1.114805	1.138781		2.15		10	10.22	102	42 - 133
BENZO(A)PYRENE	1.075837	1.268803		17.90		10	10.69	107	32 - 148
BENZO(B)FLUORANTHENE	1.158223	1.322452		14.20		10	11.42	114	42 - 140
BENZO(K)FLUORANTHENE	1.205394	1.305914		8.34		10	10.83	108	25 - 146
BENZYL ALCOHOL	1.017976	1.081160		6.21		10	10.62	106	70 - 130
BENZYLBUTYL PHTHALATE	0.639877	0.61869120		3.31		10	9.669	96.70	43 - 140
BIPHENYL	1.524235	1.621026		6.35		10	10.64	106	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.410809	0.422953		2.96		10	10.30	103	52 - 164
BIS(2-CHLOROETHYL)ETHER	0.926460	0.93008960		0.3920		10	10.04	100	52 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.477251	0.49368940		3.44		10	10.34	103	63 - 139
BIS(2-ETHYLHEXYL)PHTHALATE	0.873457	0.81728920		6.43		10	9.357	93.60	43 - 137
CARBAZOLE	0.998675	1.045288		4.67		10	10.47	105	70 - 130
CHRYSENE	1.109350	1.178266		6.21		10	10.62	106	44 - 140
DI-N-BUTYL PHTHALATE	1.222419	1.249822		2.24		10	10.22	102	52 - 130
DIBENZ(A,H)ANTHRACENE	0.828661	1.114223		34.50		10	12.09	121	13 - 200
DIBENZOFURAN	1.601315	1.721197		7.49		10	10.75	108	70 - 130
DIETHYL PHTHALATE	1.372993	1.390204		1.25		10	10.13	101	47 - 130
DIMETHYL PHTHALATE	1.347595	1.412846		4.84		10	10.48	105	50 - 130
FLUORANTHENE	1.042766	1.154703		10.70		10	11.07	111	47 - 130
FLUORENE	1.317280	1.366362		3.73		10	10.37	104	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.155639	0.18272220		17.40		10	11.74	117	68 - 130
HEXACHLOROBENZENE	0.229865	0.248159		7.96		10	10.80	108	38 - 142

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/01/19 03:33
Lab File ID:	0507A_03-1	**Analysis date/time:**	05/07/19 23:35
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.379841	0.31866250		16.10		10	8.389	83.90	70 - 130
HEXACHLOROETHANE	0.574203	0.62046960		8.06		10	10.81	108	55 - 130
INDENO(1,2,3-CD)PYRENE	0.777656	1.067469		37.30		10	11.87	119	13 - 151
ISOPHORONE	0.658186	0.70809760		7.58		10	10.76	108	52 - 180
N-DECANE	0.653479	0.72286130		10.60		10	11.06	111	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.919471	0.95635340		4.01		10	10.40	104	59 - 170
N-NITROSODIMETHYLAMINE	0.659847	0.76585480		16.10		10	11.61	116	70 - 130
N-NITROSODIPHENYLAMINE	0.659854	0.68776120		4.23		10	10.42	104	70 - 130
N-OCTADECANE	0.123240	0.116863		5.17		10	9.483	94.80	70 - 130
NAPHTHALENE	1.002202	1.082327		7.99		10	10.80	108	70 - 130
NITROBENZENE	0.342920	0.38331690		11.80		10	11.18	112	54 - 158
PENTACHLOROPHENOL	0.132288	0.14041240		6.14		10	9.258	92.60	42 - 152
PHENANTHRENE	1.074487	1.092785		1.70		10	10.17	102	67 - 130
PHENOL	1.577069	1.724547		9.35		10	10.94	109	48 - 130
PYRENE	1.292223	1.350717		4.53		10	10.45	105	70 - 130
PYRIDINE	1.400208	1.450846		3.62		10	10.36	104	70 - 130
2,4,6-TRIBROMOPHENOL	0.117229	0.12963590		10.60		10	11.06	111	70 - 130
2-FLUOROBIPHENYL	1.343223	1.476612		9.93		10	10.99	110	70 - 130
2-FLUOROPHENOL	1.191047	1.279988		7.47		10	10.75	108	70 - 130
NITROBENZENE-D5	0.382392	0.38429420		0.4970		10	10.05	101	46 - 219
P-TERPHENYL-D14	0.948803	0.97812830		3.09		10	10.31	103	70 - 130
PHENOL-D5	1.561908	1.651444		5.73		10	10.57	106	48 - 208

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/01/19 03:33
Lab File ID:	0507A_04-1	**Analysis date/time:**	05/07/19 23:56
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,2,4,5-TETRACHLOROBENZENE	0.252273	0.27907930		10.60		10	11.06	111	70 - 130
3,3-DICHLOROBENZIDINE	0.436677	0.47932260		9.77		10	10.98	110	18 - 213
ACETOPHENONE	1.670776	1.786319		6.92		10	10.69	107	70 - 130
ATRAZINE	0.378652	0.400905		5.88		10	10.59	106	70 - 130
BENZALDEHYDE	0.713559	0.78148180		9.52		10	10.95	110	70 - 130
BENZIDINE	0.812023	0.84274750		3.78		10	10.38	104	70 - 130
BENZOIC ACID	0.187791	0.24577420		30.90		10	13.09	131	70 - 130
CAPROLACTAM	0.098556	0.10727880		8.85		10	10.89	109	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0416_24-3	**Analysis date/time:**	04/16/19 16:53
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.619905	0.66117930		6.66		10	10.67	107	70 - 130
2,4,5-TRICHLOROPHENOL	0.383431	0.37780020		1.47		10	9.853	98.50	70 - 130
2,4,6-TRICHLOROPHENOL	0.364775	0.35379040		3.01		10	9.699	97	70 - 130
2,4-DICHLOROPHENOL	0.267648	0.27470370		2.64		10	10.26	103	70 - 130
2,4-DIMETHYLPHENOL	0.370388	0.35408060		4.40		10	9.560	95.60	70 - 130
2,4-DINITROPHENOL	0.188528	0.15973730		15.30		10	8.033	80.30	70 - 130
2,4-DINITROTOLUENE	0.422598	0.42326620		0.1580		10	10.02	100	70 - 130
2,6-DINITROTOLUENE	0.326228	0.31703950		2.82		10	9.718	97.20	70 - 130
2-CHLORONAPHTHALENE	1.183795	1.244481		5.13		10	10.51	105	70 - 130
2-CHLOROPHENOL	1.480093	1.433785		3.13		10	9.687	96.90	70 - 130
2-METHYLNAPHTHALENE	0.649426	0.65269520		0.5030		10	10.05	101	70 - 130
2-METHYLPHENOL	1.323366	1.211076		8.49		10	9.151	91.50	70 - 130
2-NITROANILINE	0.489833	0.46804890		4.45		10	9.555	95.60	70 - 130
2-NITROPHENOL	0.199126	0.186709		6.24		10	9.376	93.80	70 - 130
3&4-METHYL PHENOL	1.541321	1.402372		9.01		10	9.099	91	70 - 130
3-NITROANILINE	0.402560	0.39458660		1.98		10	9.802	98	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.112128	0.10533460		6.06		10	8.365	83.70	70 - 130
4-CHLORO-3-METHYLPHENOL	0.291071	0.28137090		3.33		10	9.667	96.70	70 - 130
4-CHLOROANILINE	0.113683	0.09276997		18.40		10	8.160	81.60	70 - 130
4-NITROANILINE	0.529689	0.46803410		11.60		10	8.836	88.40	70 - 130
4-NITROPHENOL	0.344819	0.32350330		6.18		10	9.382	93.80	70 - 130
ACENAPHTHENE	1.300169	1.332204		2.46		10	10.25	103	70 - 130
ACENAPHTHYLENE	1.831859	2.027158		10.70		10	11.07	111	70 - 130
ANILINE	0.655076	0.55354560		15.50		10	8.450	84.50	70 - 130
ANTHRACENE	1.061432	1.105591		4.16		10	10.42	104	70 - 130
AZOBENZENE	1.486889	1.296303		12.80		10	8.718	87.20	70 - 130
BENZO(A)ANTHRACENE	1.118993	1.130044		0.9880		10	10.10	101	70 - 130
BENZO(A)PYRENE	1.074977	1.099013		2.24		10	8.882	88.80	70 - 130
BENZO(B)FLUORANTHENE	1.138536	1.184915		4.07		10	10.41	104	70 - 130
BENZO(K)FLUORANTHENE	1.164881	1.179439		1.25		10	10.12	101	70 - 130
BENZYL ALCOHOL	1.047936	0.94416710		9.90		10	9.010	90.10	70 - 130
BENZYLBUTYL PHTHALATE	0.615006	0.61692460		0.3120		10	10.03	100	70 - 130
BIPHENYL	1.562679	1.513318		3.16		10	9.684	96.80	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.421141	0.39364050		6.53		10	9.347	93.50	70 - 130
BIS(2-CHLOROETHYL)ETHER	0.902950	0.74573980		17.40		10	8.259	82.60	70 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.509472	0.47646630		6.48		10	9.352	93.50	70 - 130
BIS(2-ETHYLHEXYL)PHTHALATE	0.864903	0.87987120		1.73		10	9.026	90.30	70 - 130
CARBAZOLE	1.047274	1.015993		2.99		10	9.701	97	70 - 130
CHRYSENE	1.110404	1.144116		3.04		10	10.30	103	70 - 130
DI-N-BUTYL PHTHALATE	1.215082	1.201315		1.13		10	9.887	98.90	70 - 130
DIBENZ(A,H)ANTHRACENE	1.042455	1.084750		4.06		10	8.921	89.20	70 - 130
DIBENZOFURAN	1.607065	1.668791		3.84		10	10.38	104	70 - 130
DIETHYL PHTHALATE	1.340898	1.371550		2.29		10	10.23	102	70 - 130
DIMETHYL PHTHALATE	1.297185	1.312092		1.15		10	10.11	101	70 - 130
FLUORANTHENE	1.051793	1.063582		1.12		10	10.11	101	70 - 130
FLUORENE	1.388442	1.454151		4.73		10	10.47	105	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.140862	0.16637340		18.10		10	11.81	118	70 - 130
HEXACHLOROBENZENE	0.205161	0.19854770		3.22		10	9.678	96.80	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0416_24-3	**Analysis date/time:**	04/16/19 16:53
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.412570	0.35243370		14.60		10	8.542	85.40	70 - 130
HEXACHLOROETHANE	0.667330	0.60331680		9.59		10	9.041	90.40	70 - 130
INDENO(1,2,3-CD)PYRENE	0.960718	1.039058		8.15		10	10.82	108	70 - 130
ISOPHORONE	0.639798	0.57759340		9.72		10	9.028	90.30	70 - 130
N-DECANE	0.697191	0.49835550		28.50		10	7.148	71.50	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.924281	0.742641		19.70		10	8.035	80.30	70 - 130
N-NITROSODIMETHYLAMINE	0.645631	0.46359390		28.20		10	7.180	71.80	70 - 130
N-NITROSODIPHENYLAMINE	0.651138	0.63368010		2.68		10	9.732	97.30	70 - 130
N-OCTADECANE	0.116779	0.08189979		29.90		10	7.013	70.10	70 - 130
NAPHTHALENE	1.036904	1.070848		3.27		10	10.33	103	70 - 130
NITROBENZENE	0.358925	0.31048950		13.50		10	8.651	86.50	70 - 130
PENTACHLOROPHENOL	0.111538	0.13951860		25.10		10	10.78	108	70 - 130
PHENANTHRENE	1.071696	1.087645		1.49		10	10.15	102	70 - 130
PHENOL	1.770643	1.517992		14.30		10	8.573	85.70	70 - 130
PYRENE	1.176635	1.226578		4.24		10	10.42	104	70 - 130
PYRIDINE	1.375299	1.179363		14.20		10	8.575	85.70	70 - 130
2,4,6-TRIBROMOPHENOL	0.110431	0.09522175		13.80		10	8.136	81.40	70 - 130
2-FLUOROBIPHENYL	1.340042	1.282699		4.28		10	9.572	95.70	70 - 130
2-FLUOROPHENOL	1.275610	1.094579		14.20		10	8.581	85.80	70 - 130
NITROBENZENE-D5	0.392969	0.31801710		19.10		10	8.093	80.90	70 - 130
P-TERPHENYL-D14	0.828816	0.76129510		8.15		10	9.185	91.90	70 - 130
PHENOL-D5	1.734388	1.415215		18.40		10	8.160	81.60	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0416_25-3	**Analysis date/time:**	04/16/19 17:14
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
1,2,4,5-TETRACHLOROBENZENE	0.201136	0.20193030		0.3950		10	10.04	100	70 - 130
3,3-DICHLOROBENZIDINE	0.085927	0.07366348		14.30		10	8.413	84.10	70 - 130
ACETOPHENONE	2.055843	2.229326		8.44		10	10.84	108	70 - 130
ATRAZINE	0.362229	0.36403010		0.4970		10	10.05	101	70 - 130
BENZALDEHYDE	0.829204	0.93606420		12.90		10	11.29	113	70 - 130
BENZIDINE	0.846735	0.82823270		2.19		10	9.498	95	70 - 130
BENZOIC ACID	0.175817	0.20115540		14.40		10	11.44	114	70 - 130
CAPROLACTAM	0.094785	0.11515870		21.50		10	12.15	121	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0507_03	**Analysis date/time:**	05/07/19 23:35
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.619905	0.71471290		15.30		10	11.53	115	70 - 130
2,4,5-TRICHLOROPHENOL	0.383431	0.44199960		15.30		10	11.53	115	70 - 130
2,4,6-TRICHLOROPHENOL	0.364775	0.40369330		10.70		10	11.07	111	69 - 130
2,4-DICHLOROPHENOL	0.267648	0.31510340		17.70		10	11.77	118	64 - 130
2,4-DIMETHYLPHENOL	0.370388	0.35801730		3.34		10	9.666	96.70	58 - 130
2,4-DINITROPHENOL	0.188528	0.16381130		13.10		10	8.198	82	39 - 173
2,4-DINITROTOLUENE	0.422598	0.46341630		9.66		10	10.97	110	53 - 130
2,6-DINITROTOLUENE	0.326228	0.33966140		4.12		10	10.41	104	68 - 137
2-CHLORONAPHTHALENE	1.183795	1.217865		2.88		10	10.29	103	70 - 130
2-CHLOROPHENOL	1.480093	1.361037		8.04		10	9.196	92	55 - 130
2-METHYLNAPHTHALENE	0.649426	0.75239910		15.90		10	11.59	116	70 - 130
2-METHYLPHENOL	1.323366	1.290044		2.52		10	9.748	97.50	70 - 130
2-NITROANILINE	0.489833	0.446724		8.80		10	9.120	91.20	70 - 130
2-NITROPHENOL	0.199126	0.205727		3.31		10	10.33	103	61 - 163
3&4-METHYL PHENOL	1.541321	1.478323		4.09		10	9.591	95.90	70 - 130
3-NITROANILINE	0.402560	0.35203210		12.60		10	8.745	87.40	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.112128	0.138646		23.60		10	10.75	108	56 - 130
4-CHLORO-3-METHYLPHENOL	0.291071	0.33783580		16.10		10	11.61	116	68 - 130
4-CHLOROANILINE	0.113683	0.11902840		4.70		10	10.47	105	70 - 130
4-NITROANILINE	0.529689	0.37912220		28.40		10	7.157	71.60	70 - 130
4-NITROPHENOL	0.344819	0.26053150		24.40		10	7.556	75.60	35 - 130
ACENAPHTHENE	1.300169	1.249971		3.86		10	9.614	96.10	70 - 130
ACENAPHTHYLENE	1.831859	1.943255		6.08		10	10.61	106	60 - 130
ANILINE	0.655076	0.71089760		8.52		10	10.85	109	70 - 130
ANTHRACENE	1.061432	1.128169		6.29		10	10.63	106	58 - 130
AZOBENZENE	1.486889	1.680714		13		10	11.30	113	70 - 130
BENZO(A)ANTHRACENE	1.118993	1.235242		10.40		10	11.04	110	42 - 133
BENZO(A)PYRENE	1.074977	1.202161		11.80		10	9.711	97.10	32 - 148
BENZO(B)FLUORANTHENE	1.138536	1.260243		10.70		10	11.07	111	42 - 140
BENZO(K)FLUORANTHENE	1.164881	1.211917		4.04		10	10.40	104	25 - 146
BENZYL ALCOHOL	1.047936	0.88692460		15.40		10	8.464	84.60	70 - 130
BENZYLBUTYL PHTHALATE	0.615006	0.59560960		3.15		10	9.685	96.80	43 - 140
BIPHENYL	1.562679	1.542165		1.31		10	9.869	98.70	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.421141	0.43605630		3.54		10	10.35	104	52 - 164
BIS(2-CHLOROETHYL)ETHER	0.902950	1.067152		18.20		10	11.82	118	52 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.509472	0.47756910		6.26		10	9.374	93.70	63 - 139
BIS(2-ETHYLHEXYL)PHTHALATE	0.864903	0.83388380		3.59		10	8.556	85.60	43 - 137
CARBAZOLE	1.047274	1.033658		1.30		10	9.870	98.70	70 - 130
CHRYSENE	1.110404	1.158653		4.35		10	10.43	104	44 - 140
DI-N-BUTYL PHTHALATE	1.215082	1.279062		5.27		10	10.53	105	52 - 130
DIBENZ(A,H)ANTHRACENE	1.042455	1.113917		6.86		10	9.159	91.60	13 - 200
DIBENZOFURAN	1.607065	1.759190		9.47		10	10.95	110	70 - 130
DIETHYL PHTHALATE	1.340898	1.447046		7.92		10	10.79	108	47 - 130
DIMETHYL PHTHALATE	1.297185	1.455601		12.20		10	11.22	112	50 - 130
FLUORANTHENE	1.051793	1.231131		17.10		10	11.71	117	47 - 130
FLUORENE	1.388442	1.429707		2.97		10	10.30	103	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.140862	0.20304510		44.10		10	14.41	144	68 - 130
HEXACHLOROBENZENE	0.205161	0.25562210		24.60		10	12.46	125	38 - 142

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0507_03	**Analysis date/time:**	05/07/19 23:35
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.412570	0.38684930		6.23		10	9.377	93.80	70 - 130
HEXACHLOROETHANE	0.667330	0.59649530		10.60		10	8.939	89.40	55 - 130
INDENO(1,2,3-CD)PYRENE	0.960718	1.1032		14.80		10	11.48	115	13 - 151
ISOPHORONE	0.639798	0.74817890		16.90		10	11.69	117	52 - 180
N-DECANE	0.697191	0.681433		2.26		10	9.774	97.70	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.924281	1.106276		19.70		10	11.97	120	59 - 170
N-NITROSODIMETHYLAMINE	0.645631	0.69961660		8.36		10	10.84	108	70 - 130
N-NITROSODIPHENYLAMINE	0.651138	0.65244130		0.20		10	10.02	100	70 - 130
N-OCTADECANE	0.116779	0.10574370		9.45		10	9.055	90.60	70 - 130
NAPHTHALENE	1.036904	1.059848		2.21		10	10.22	102	70 - 130
NITROBENZENE	0.358925	0.40398170		12.60		10	11.26	113	54 - 158
PENTACHLOROPHENOL	0.111538	0.09410296		15.60		10	7.462	74.60	42 - 152
PHENANTHRENE	1.071696	1.094366		2.12		10	10.21	102	67 - 130
PHENOL	1.770643	1.701231		3.92		10	9.608	96.10	48 - 130
PYRENE	1.176635	1.241304		5.50		10	10.55	106	70 - 130
PYRIDINE	1.375299	1.499102		9		10	10.90	109	70 - 130
2,4,6-TRIBROMOPHENOL	0.110431	0.12937120		17.20		10	10.72	107	70 - 130
2-FLUOROBIPHENYL	1.340042	1.387747		3.56		10	10.36	104	70 - 130
2-FLUOROPHENOL	1.275610	1.208352		5.27		10	9.473	94.70	70 - 130
NITROBENZENE-D5	0.392969	0.40068520		1.96		10	10.20	102	46 - 219
P-TERPHENYL-D14	0.828816	0.92292480		11.40		10	11.14	111	70 - 130
PHENOL-D5	1.734388	1.709373		1.44		10	9.856	98.60	48 - 208

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1095644	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0507_04	**Analysis date/time:**	05/07/19 23:56
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,2,4,5-TETRACHLOROBENZENE	0.201136	0.297844		48.10		10	14.81	148	70 - 130
3,3-DICHLOROBENZIDINE	0.085927	0.082690		3.77		10	9.301	93	18 - 213
ACETOPHENONE	2.055843	1.930799		6.08		10	9.392	93.90	70 - 130
ATRAZINE	0.362229	0.45699070		26.20		10	12.62	126	70 - 130
BENZALDEHYDE	0.829204	0.86234380		4		10	10.40	104	70 - 130
BENZIDINE	0.846735	0.61929760		26.90		10	7.343	73.40	70 - 130
BENZOIC ACID	0.175817	0.241418		37.30		10	13.73	137	70 - 130
CAPROLACTAM	0.094785	0.11421970		20.50		10	12.05	121	70 - 130

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409130-2

Lab Sample ID:	R3409130-2	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507A_06	**Received Date/Time:**	_____
Instrument ID:	BNAMS20	**Preparation Date/Time:**	05/07/19 16:44
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 00:39
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.15	U		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	0	U		0.000309	0.0010	0.00100
Acetophenone	98-86-2	3.55	U		0.00271	0.01	0.0100
Aniline	62-53-3	3.13	U		0.00243	0.01	0.0100
Anthracene	120-12-7	6.12	U		0.000291	0.0010	0.00100
Azobenzene	103-33-3	5.59	U		0.000318	0.01	0.0100
Atrazine	1912-24-9	0	U		0.000260	0.01	0.0100
Benzaldehyde	100-52-7	3.09	U		0.00140	0.01	0.0100
Benzidine	92-87-5	0	U		0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.64	U		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.43	U		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	0	U		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.16	U		0.000340	0.0010	0.00100
Biphenyl	92-52-4	4.79	U		0.000325	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	0	U		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	0	U		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	0	U		0.000445	0.01	0.0100
Caprolactam	105-60-2	0	U		0.00259	0.01	0.0100
Carbazole	86-74-8	0	U		0.000260	0.01	0.0100
4-Chloroaniline	106-47-8	0	U		0.000382	0.01	0.0100
2-Chloronaphthalene	91-58-7	0	U		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.64	U		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	0	U		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	0	U		0.000338	0.01	0.0100
3,3-Dichlorobenzidine	91-94-1	0	U		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	0	U		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.99	U		0.000279	0.01	0.0100
Fluoranthene	206-44-0	7.02	U		0.000310	0.0010	0.00100
Fluorene	86-73-7	0	U		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	0	U		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	0	U		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	0	U		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	0	U		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.79	U		0.000272	0.01	0.0100
2-Methylnaphthalene	91-57-6	4.57	U		0.000311	0.0010	0.00100
Naphthalene	91-20-3	4.09	U		0.000372	0.0010	0.00100
2-Nitroaniline	88-74-4	0	U		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	0	U		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	0	U		0.000349	0.01	0.0100
Benzoic Acid	65-85-0	3.93	U		0.00440	0.01	0.0100
Nitrobenzene	98-95-3	3.65	U		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.05	U		0.00126	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409130-2

Lab Sample ID:	R3409130-2	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507A_06	**Received Date/Time:**	_____
Instrument ID:	BNAMS20	**Preparation Date/Time:**	05/07/19 16:44
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 00:39
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
n-Nitrosodiphenylamine	86-30-6	0	U		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	0	U		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.12	U		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.89	U		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.69	U		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.49	U		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.40	U		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.96	U		0.000283	0.0030	0.00300
Pyrene	129-00-0	0	U		0.000330	0.0010	0.00100
Pyridine	110-86-1	2.08	U		0.00137	0.01	0.0100
n-Decane	124-18-5	3.22	U		0.000596	0.01	0.0100
n-Octadecane	593-45-3	5.98	U		0.000377	0.01	0.0100
Benzyl Alcohol	100-51-6	0	U		0.000393	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	0	U		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.23	U		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	0	U		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.57	U		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	0	U		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	0	U		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	0	U		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	0	U		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	0	U		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	0	U		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	0	U		0.000313	0.01	0.0100
Phenol	108-95-2	3.14	U		0.000334	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	0	U		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	0	U		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	0	U		0.000297	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.57	U		0.000332	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409650-2

Lab Sample ID:	R3409650-2	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0508B_09	**Received Date/Time:**	_____
Instrument ID:	BNAMS1	**Preparation Date/Time:**	05/07/19 16:44
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 16:52
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
Pentachlorobenzene	608-93-5	0	U		0.000369	0.01	0.0100
n-Nitrosodiethylamine	55-18-5	0	U		0.000497	0.01	0.0100
Hexachlorophene	70-30-4	0	U		0.00144	0.05	0.0500
n-Nitrosodi-n-butylamine	924-16-3	0	U		0.000331	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409130-1

Lab Sample ID:	R3409130-1	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507A_05	**Received Date/Time:**	_____
Instrument ID:	BNAMS20	**Preparation Date/Time:**	05/07/19 16:44
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 00:19
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.17	0.0268		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	5.07	0.0292		0.000309	0.0010	0.00100
Acetophenone	98-86-2	3.55	0.0281		0.00271	0.01	0.0100
Aniline	62-53-3	3.16	0.0137		0.00243	0.01	0.0100
Anthracene	120-12-7	6.18	0.0281		0.000291	0.0010	0.00100
Azobenzene	103-33-3	5.60	0.0291		0.000318	0.01	0.0100
Atrazine	1912-24-9	5.91	0.0283		0.00153	0.01	0.0100
Benzaldehyde	100-52-7	3.10	0.0375		0.00140	0.01	0.0100
Benzidine	92-87-5	7.15	ND	J4	0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.65	0.0306		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.45	0.0296		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.50	0.0291		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.06	0.0270		0.000340	0.0010	0.00100
Biphenyl	92-52-4	4.79	0.0263		0.000325	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	3.90	0.0238		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.17	0.0253		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.47	0.0252		0.000445	0.01	0.0100
Caprolactam	105-60-2	4.31	0.0104		0.00259	0.01	0.0100
Carbazole	86-74-8	6.29	0.0290		0.00162	0.01	0.0100
4-Chloroaniline	106-47-8	4.11	0.0229		0.000382	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.80	0.0269	J4	0.000330	0.0010	0.00100
Chrysene	218-01-9	8.70	0.0282		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	13.09	0.0307		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.29	0.0281		0.000338	0.01	0.0100
3,3-Dichlorobenzidine	91-94-1	8.62	0.0520		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.26	0.0281		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	5.01	0.0273		0.000279	0.01	0.0100
Fluoranthene	206-44-0	7.04	0.0306		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.50	0.0282	J4	0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.87	0.0289		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	4.16	0.0270		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.60	0.0225		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	3.63	0.0255		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	13.05	0.0305		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.79	0.0265		0.000272	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.57	0.0246		0.000217	0.0010	0.00100
2-Methylnaphthalene	91-57-6	4.50	0.0249		0.000311	0.0010	0.00100
Naphthalene	91-20-3	4.09	0.0252		0.000372	0.0010	0.00100
2-Nitroaniline	88-74-4	4.86	0.0294		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.12	0.0274		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	5.51	0.0283		0.000349	0.01	0.0100
Nitrobenzene	98-95-3	3.66	0.0260		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.07	0.0190		0.00126	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409130-1

Lab Sample ID:	R3409130-1	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507A_05	**Received Date/Time:**	_____
Instrument ID:	BNAMS20	**Preparation Date/Time:**	05/07/19 16:44
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 00:19
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
n-Nitrosodiphenylamine	86-30-6	5.57	0.0266		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.55	0.0269		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.15	0.0276		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.90	0.0267		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.70	0.0267		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.51	0.0290		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.41	0.0277		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.96	0.0286		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.25	0.0289		0.000330	0.0010	0.00100
Pyridine	110-86-1	2.10	0.00746		0.00137	0.01	0.0100
Benzoic Acid	65-85-0	3.89	ND	J4	0.00440	0.01	0.0100
Benzyl Alcohol	100-51-6	3.40	0.0223		0.000393	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.40	0.0271		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.23	0.0259		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.46	0.0234		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.55	0.0249		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.99	0.0270		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.86	0.0259		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.53	0.0294		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.19	0.0186		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.85	0.0273		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.24	0.0114		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	6	0.0185		0.000313	0.01	0.0100
Phenol	108-95-2	3.13	0.0124		0.000334	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.60	0.0301		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.70	0.0302		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.67	0.0294		0.000297	0.01	0.0100
n-Decane	124-18-5	3.23	0.0259		0.000596	0.01	0.0100
n-Octadecane	593-45-3	6.02	0.0254		0.000377	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409650-1

Lab Sample ID:	R3409650-1	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0508B_07	**Received Date/Time:**	_____
Instrument ID:	BNAMS1	**Preparation Date/Time:**	05/07/19 16:44
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 16:18
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Pentachlorobenzene	608-93-5	6.86	0.0405		0.000369	0.01	0.0100
n-Nitrosodiethylamine	55-18-5	4.32	0.0313		0.000497	0.01	0.0100
n-Nitrosodi-n-butylamine	924-16-3	5.93	0.0386		0.000331	0.01	0.0100
Hexachlorophene	70-30-4	10.27	0.00876	J4	0.00144	0.05	0.0500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409130-3

Lab Sample ID:	R3409130-3	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/01/19 17:25
Lab File ID:	0507A_09	**Received Date/Time:**	05/02/19 08:45
Instrument ID:	BNAMS20	**Preparation Date/Time:**	05/07/19 16:46
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 01:42
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
n-Decane	124-18-5	3.23	0.0323		0.000596	0.01	0.0100
n-Octadecane	593-45-3	6	0.0311		0.000377	0.01	0.0100
Acenaphthene	83-32-9	5.17	0.0331		0.000316	0.0010	0.00100
Benzoic Acid	65-85-0	3.89	0.00516	J6	0.00440	0.01	0.0100
Acenaphthylene	208-96-8	5.06	0.0364		0.000309	0.0010	0.00100
Acetophenone	98-86-2	3.56	0.0362		0.00271	0.01	0.0100
Aniline	62-53-3	3.16	0.0186		0.00243	0.01	0.0100
Anthracene	120-12-7	6.16	0.0343		0.000291	0.0010	0.00100
Azobenzene	103-33-3	5.59	0.0363		0.000318	0.01	0.0100
Atrazine	1912-24-9	5.90	0.0350		0.00153	0.01	0.0100
Benzaldehyde	100-52-7	3.10	0.0472		0.00140	0.01	0.0100
Benzidine	92-87-5	7.12	0.0115		0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.62	0.0371		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.43	0.0366		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.48	0.0360		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.05	0.0331		0.000340	0.0010	0.00100
Biphenyl	92-52-4	4.79	0.0328		0.000325	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	3.90	0.0289		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.18	0.0324		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.48	0.0317		0.000445	0.01	0.0100
Caprolactam	105-60-2	4.31	0.0109		0.00259	0.01	0.0100
Carbazole	86-74-8	6.27	0.0361		0.00162	0.01	0.0100
4-Chloroaniline	106-47-8	4.11	0.0271		0.000382	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.80	0.0335		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.67	0.0346		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	13.08	0.0371		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.28	0.0342		0.000338	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.56	0.0299		0.000217	0.0010	0.00100
3,3-Dichlorobenzidine	91-94-1	8.59	0.0672		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.26	0.0352		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	5	0.0334		0.000279	0.01	0.0100
Fluoranthene	206-44-0	7.02	0.0371		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.50	0.0351		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.86	0.0352		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	4.16	0.0329		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.60	0.0270		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	3.63	0.0323		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	13.04	0.0361		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.79	0.0323		0.000272	0.01	0.0100
2-Methylnaphthalene	91-57-6	4.50	0.0302		0.000311	0.0010	0.00100
Naphthalene	91-20-3	4.09	0.0308		0.000372	0.0010	0.00100
2-Nitroaniline	88-74-4	4.86	0.0361		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.12	0.0313		0.000308	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409130-3

Lab Sample ID:	R3409130-3	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/01/19 17:25
Lab File ID:	0507A_09	**Received Date/Time:**	05/02/19 08:45
Instrument ID:	BNAMS20	**Preparation Date/Time:**	05/07/19 16:46
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 01:42
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
4-Nitroaniline	100-01-6	5.50	0.0334		0.000349	0.01	0.0100
Nitrobenzene	98-95-3	3.66	0.0321		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.07	0.0237		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.56	0.0327		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.55	0.0341		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.13	0.0341		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.88	0.0334		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.68	0.0326		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.49	0.0358		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.40	0.0342		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.96	0.0348		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.22	0.0350		0.000330	0.0010	0.00100
Pyridine	110-86-1	2.10	0.0130		0.00137	0.01	0.0100
Benzyl Alcohol	100-51-6	3.40	0.0273		0.000393	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.40	0.0322		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.23	0.0320		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.46	0.0288		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.55	0.0311		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.99	0.0327		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.86	0.0314		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.52	0.0360		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.18	0.0236		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.85	0.0333		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.23	0.0138		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	5.99	0.0255		0.000313	0.01	0.0100
Phenol	108-95-2	3.13	0.0150		0.000334	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.60	0.0369		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.70	0.0369		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.67	0.0361		0.000297	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409130-4

Lab Sample ID:	R3409130-4	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/01/19 17:25
Lab File ID:	0507A_10	**Received Date/Time:**	05/02/19 08:45
Instrument ID:	BNAMS20	**Preparation Date/Time:**	05/07/19 16:46
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 02:03
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
n-Decane	124-18-5	3.22	0.0233		0.000596	0.01	0.0100
n-Octadecane	593-45-3	6	0.0263		0.000377	0.01	0.0100
Acenaphthene	83-32-9	5.17	0.0271		0.000316	0.0010	0.00100
Benzoic Acid	65-85-0	3.89	ND	J3 J6	0.00440	0.01	0.0100
Acenaphthylene	208-96-8	5.06	0.0292		0.000309	0.0010	0.00100
Acetophenone	98-86-2	3.55	0.0285		0.00271	0.01	0.0100
Aniline	62-53-3	3.15	0.0165		0.00243	0.01	0.0100
Anthracene	120-12-7	6.16	0.0292		0.000291	0.0010	0.00100
Azobenzene	103-33-3	5.59	0.0312		0.000318	0.01	0.0100
Atrazine	1912-24-9	5.90	0.0305		0.00153	0.01	0.0100
Benzaldehyde	100-52-7	3.10	0.0347	J3	0.00140	0.01	0.0100
Benzidine	92-87-5	7.13	0.00495	J3	0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.62	0.0319		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.43	0.0311		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.48	0.0309		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.05	0.0277		0.000340	0.0010	0.00100
Biphenyl	92-52-4	4.79	0.0261		0.000325	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	3.90	0.0254		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.18	0.0249		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.48	0.0234		0.000445	0.01	0.0100
Caprolactam	105-60-2	4.31	0.0113		0.00259	0.01	0.0100
Carbazole	86-74-8	6.27	0.0318		0.00162	0.01	0.0100
4-Chloroaniline	106-47-8	4.11	0.0277		0.000382	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.80	0.0262	J3 J6	0.000330	0.0010	0.00100
Chrysene	218-01-9	8.67	0.0298		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	13.08	0.0321		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.28	0.0286		0.000338	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.56	0.0237	J3	0.000217	0.0010	0.00100
3,3-Dichlorobenzidine	91-94-1	8.59	0.0550		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.26	0.0308		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	5	0.0288		0.000279	0.01	0.0100
Fluoranthene	206-44-0	7.02	0.0323		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.50	0.0290	J6	0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.86	0.0292		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	4.15	0.0239		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.60	0.0190	J3	0.00233	0.01	0.0100
Hexachloroethane	67-72-1	3.63	0.0223		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	13.04	0.0314		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.79	0.0276		0.000272	0.01	0.0100
2-Methylnaphthalene	91-57-6	4.50	0.0239		0.000311	0.0010	0.00100
Naphthalene	91-20-3	4.09	0.0238		0.000372	0.0010	0.00100
2-Nitroaniline	88-74-4	4.86	0.0320		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.12	0.0295		0.000308	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409130-4

Lab Sample ID:	R3409130-4	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/01/19 17:25
Lab File ID:	0507A_10	**Received Date/Time:**	05/02/19 08:45
Instrument ID:	BNAMS20	**Preparation Date/Time:**	05/07/19 16:46
Analytical Batch:	WG1276393	**Analysis Date/Time:**	05/08/19 02:03
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
4-Nitroaniline	100-01-6	5.50	0.0296		0.000349	0.01	0.0100
Nitrobenzene	98-95-3	3.66	0.0254		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.07	0.0199		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.56	0.0273		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.55	0.0284		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.13	0.0291		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.88	0.0285		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.69	0.0281		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.49	0.0304		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.40	0.0299		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.96	0.0308		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.22	0.0304		0.000330	0.0010	0.00100
Pyridine	110-86-1	2.10	0.0120		0.00137	0.01	0.0100
Benzyl Alcohol	100-51-6	3.40	0.0227		0.000393	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.40	0.0283		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.23	0.0238		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.46	0.0233		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.55	0.0255		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.99	0.0265		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.86	0.0264		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.52	0.0312		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.18	0.0235		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.84	0.0269		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.24	0.0117		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	5.99	0.0224		0.000313	0.01	0.0100
Phenol	108-95-2	3.13	0.0124		0.000334	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.60	0.0281		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.70	0.0317		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.67	0.0307		0.000297	0.01	0.0100

8015M SVOC-GC-GLYCOLS

2A-OR

SURROGATE RECOVERY

Analytical Method: 8015M **SDG:** L1095644
Matrix: GW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 *% Rec.*	TOT Out
WW-20190503-002 DAY 5-A	L1095644-03	SVGC10	0507_15b	74.8	0
WW-20190503-002 DAY 5-B	L1095644-04	SVGC10	0507_16b	75.7	0
WW-20190503-002 DAY 5-C	L1095644-05	SVGC10	0507_17b	78.8	0
WW-20190503-002 DAY 5-D	L1095644-06	SVGC10	0507_18b	78.3	0
OS	L1095789-06	SVGC10	0507_25b	81.9	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	1,3-Propanediol	28.0 - 145

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR SURROGATE RECOVERY

Analytical Method: 8015M **SDG:** L1095644
Matrix: GW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
MS	R3409191-4	SVGC10	0507_26b	80.4	0
MSD	R3409191-5	SVGC10	0507_27b	83.6	0
BLANK	R3409191-1	SVGC10	0507_06b	78.0	0
LCS	R3409191-2	SVGC10	0507_07b	73.0	0
LCSD	R3409191-3	SVGC10	0507_08b	78.4	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	1,3-Propanediol	28.0 - 145

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-03,04,05,06

SAMPLE NO.:
R3409191-4
R3409191-5

MS Sample / File ID:	R3409191-4 / 0507_26b	**SDG:**	L1095644
MSD Sample / File ID:	R3409191-5 / 0507_27b	**Analytical Batch:**	WG1276824
OS Sample / File ID:	L1095789-06 / 0507_25b	**Matrix:**	GW
Instrument ID:	SVGC10		
Analytical Method:	8015M		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Ethylene glycol	90.0	U	92.4	96.5	103	107	1	62.0 - 136	4.34	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-03,04,05,06

SAMPLE NO.:
R3409191-2
R3409191-3

LCS Sample / File ID:	R3409191-2 / 0507_07b	**SDG:**	L1095644
LCSD Sample / File ID:	R3409191-3 / 0507_08b	**Analytical Batch:**	WG1276824
Instrument ID:	SVGC10	**Dilution Factor:**	1
Analytical Method:	8015M	**Matrix:**	GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Ethylene glycol	90.0	93.2	94.7	104	105	80.0 - 120	1.60	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3409191-1

Lab Sample ID:	R3409191-1	**SDG:**	L1095644
Lab File ID:	0507_06b	**Preparation Date/Time:**	05/07/19 18:06
Instrument ID:	SVGC10	**Analysis Date/Time:**	05/07/19 22:56
Analytical Batch:	WG1276824	**Dilution Factor:**	1
Analytical Method:	8015M	**Matrix:**	GW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3409191-2	SVGC10	0507_07b	05/07/19 23:14
LCSD	R3409191-3	SVGC10	0507_08b	05/07/19 23:32
WW-20190503-002 DAY 5-A	L1095644-03	SVGC10	0507_15b	05/08/19 01:37
WW-20190503-002 DAY 5-B	L1095644-04	SVGC10	0507_16b	05/08/19 01:55
WW-20190503-002 DAY 5-C	L1095644-05	SVGC10	0507_17b	05/08/19 02:13
WW-20190503-002 DAY 5-D	L1095644-06	SVGC10	0507_18b	05/08/19 02:31
OS	L1095789-06	SVGC10	0507_25b	05/08/19 04:36
MS	R3409191-4	SVGC10	0507_26b	05/08/19 04:53
MSD	R3409191-5	SVGC10	0507_27b	05/08/19 05:11

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-A

Lab Sample ID:	L1095644-03	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-A	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_15b	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/07/19 18:07
Analytical Batch:	WG1276824	**Analysis Date/Time:**	05/08/19 01:37
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	0	U		0.492	5.00	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-B

Lab Sample ID:	L1095644-04	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-B	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_16b	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/07/19 18:07
Analytical Batch:	WG1276824	**Analysis Date/Time:**	05/08/19 01:55
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	0	U		0.492	5.00	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-C

Lab Sample ID:	L1095644-05	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-C	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_17b	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/07/19 18:07
Analytical Batch:	WG1276824	**Analysis Date/Time:**	05/08/19 02:13
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	0	U		0.492	5.00	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5-D

Lab Sample ID:	L1095644-06	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5-D	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_18b	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/07/19 18:07
Analytical Batch:	WG1276824	**Analysis Date/Time:**	05/08/19 02:31
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	0	U		0.492	5.00	5.00

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10 - 1	**Calibration (end) date/time:**	01/15/19 01:16
Analytical Method:	8015M		

Analyte	**CS: 1.5**	**CS: 15**	**CS: 30**	**CS: 45**	**CS: 60**
ETHYLENE GLYCOL	5.86	5.81	5.76	5.79	5.79
1,3-PROPANEDIOL	7.86	7.82	7.76	7.81	7.81
File ID:	0114_04	0114_05	0114_06	0114_07	0114_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10 - 1	**Calibration (end) date/time:**	01/15/19 01:16
Analytical Method:	8015M		

Analyte	**RRF: 1.5**	**RRF: 15**	**RRF: 30**	**RRF: 45**	**RRF: 60**	**RRF. Avg**	**%RSD**	**COD**
ETHYLENE GLYCOL	128700	144600	142400	141900	142500	140041.5	4.59	
1,3-PROPANEDIOL	180500	193100	187700	189100	190100	188099.5	2.49	
File ID:	0114_04	0114_05	0114_06	0114_07	0114_08			

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0114_09	**Analysis date/time:**	01/15/19 01:34
Analytical Method:	8015M	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	30.91	103	80 - 120

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0507_04b	**Analysis date/time:**	05/07/19 22:21
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	31.36	105	80 - 120
1,3-PROPANEDIOL	30	30.31	101	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0507_09b	**Analysis date/time:**	05/07/19 23:50
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	30.65	102	80 - 120
1,3-PROPANEDIOL	30	29.32	97.70	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0507_20b	**Analysis date/time:**	05/08/19 03:06
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	29.97	99.90	80 - 120
1,3-PROPANEDIOL	30	29.38	97.90	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0507_29b	**Analysis date/time:**	05/08/19 05:47
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	30.21	101	80 - 120
1,3-PROPANEDIOL	30	29.16	97.20	50 - 150

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1095644	**Analytical Method:**	8015M
Instrument ID:	SVGC10	**Calibration Start Date:**	01/15/19 00:04
		Calibration End Date:	01/15/19 01:16

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	1.5	0114_04	01/15/19 00:04	1	
CAL	15	0114_05	01/15/19 00:22	1	
CAL	30	0114_06	01/15/19 00:40	1	
CAL	45	0114_07	01/15/19 00:58	1	
CAL	60	0114_08	01/15/19 01:16	1	
SSCV	SVGC100114190114_09465874	0114_09	01/15/19 01:34	1	
CCV	SVGC10050719b0507_04b465874	0507_04b	05/07/19 22:21	1	
BLANK	R3409191-1	0507_06b	05/07/19 22:56	1	WG1276824
LCS	R3409191-2	0507_07b	05/07/19 23:14	1	WG1276824
LCSD	R3409191-3	0507_08b	05/07/19 23:32	1	WG1276824
CCV	SVGC10050719b0507_09b465874	0507_09b	05/07/19 23:50	1	
WW-20190503-002 DAY 5-A	L1095644-03	0507_15b	05/08/19 01:37	1	WG1276824
WW-20190503-002 DAY 5-B	L1095644-04	0507_16b	05/08/19 01:55	1	WG1276824
WW-20190503-002 DAY 5-C	L1095644-05	0507_17b	05/08/19 02:13	1	WG1276824
WW-20190503-002 DAY 5-D	L1095644-06	0507_18b	05/08/19 02:31	1	WG1276824
CCV	SVGC10050719b0507_20b465874	0507_20b	05/08/19 03:06	1	
OS	L1095789-06	0507_25b	05/08/19 04:36	1	WG1276824
MS	R3409191-4	0507_26b	05/08/19 04:53	1	WG1276824
MSD	R3409191-5	0507_27b	05/08/19 05:11	1	WG1276824
CCV	SVGC10050719b0507_29b465874	0507_29b	05/08/19 05:47	1	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409191-1

Lab Sample ID:	R3409191-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507_06b	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/07/19 18:06
Analytical Batch:	WG1276824	**Analysis Date/Time:**	05/07/19 22:56
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	0	U		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409191-2

Lab Sample ID:	R3409191-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507_07b	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/07/19 18:06
Analytical Batch:	WG1276824	**Analysis Date/Time:**	05/07/19 23:14
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	5.73	93.2		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409191-3

Lab Sample ID:	R3409191-3	**SDG:**	L1095644
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0507_08b	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/07/19 18:06
Analytical Batch:	WG1276824	**Analysis Date/Time:**	05/07/19 23:32
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	5.70	94.7		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409191-4

Lab Sample ID:	R3409191-4	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/04/19 14:00
Lab File ID:	0507_26b	**Received Date/Time:**	05/07/19 08:45
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/07/19 18:07
Analytical Batch:	WG1276824	**Analysis Date/Time:**	05/08/19 04:53
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	5.73	92.4		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409191-5

Lab Sample ID:	R3409191-5	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/04/19 14:00
Lab File ID:	0507_27b	**Received Date/Time:**	05/07/19 08:45
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/07/19 18:07
Analytical Batch:	WG1276824	**Analysis Date/Time:**	05/08/19 05:11
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	5.69	96.5		0.492	5	5.00

8151 Chlorinated Acid Herbicides (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: 8151 **SDG:** L1095644
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
WW-20190503-002 DAY 5	L1095644-01	SVGC11	0507A_56	192*	1
BLANK	R3409299-1	SVGC11	0507A_52	109	0
LCS	R3409299-2	SVGC11	0507A_53	123	0
LCSD	R3409299-3	SVGC11	0507A_54	123	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	2,4-Dichlorophenyl Acetic Acid	14.0 - 158

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409299-2
R3409299-3

LCS Sample / File ID:	R3409299-2 / 0507A_53	**SDG:**	L1095644
LCSD Sample / File ID:	R3409299-3 / 0507A_54	**Analytical Batch:**	WG1276935
Instrument ID:	SVGC11	**Dilution Factor:**	1
Analytical Method:	8151	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
2,4,5-TP (Silvex)	0.00500	0.00657	0.00622	131*	124	50.0 - 125	5.47	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3409299-1

Lab Sample ID:	R3409299-1	**SDG:**	L1095644
Lab File ID:	0507A_52	**Preparation Date/Time:**	05/07/19 07:48
Instrument ID:	SVGC11	**Analysis Date/Time:**	05/07/19 23:51
Analytical Batch:	WG1276935	**Dilution Factor:**	1
Analytical Method:	8151	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3409299-2	SVGC11	0507A_53	05/08/19 00:05
LCSD	R3409299-3	SVGC11	0507A_54	05/08/19 00:18
WW-20190503-002 DAY 5	L1095644-01	SVGC11	0507A_56	05/08/19 00:45

Sample Narrative:

Recovery buas high, sample is BDL, data not impacted.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507A_56	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/07/19 07:48
Analytical Batch:	WG1276935	**Analysis Date/Time:**	05/08/19 00:45
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	1000 mL
Total Solids (%):	_____	**Final Wt/Vol:**	10 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
2,4,5-TP (Silvex)	93-72-1	0	U	J4	0.000845	0.00200	0.00200

Sample Narrative:

Recovery buas high, sample is BDL, data not impacted.

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/07/19 12:57
Analytical Method:	8151		

Analyte	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	5.12	5.12	5.12	5.12	5.12	5.12
2,4,5-TP (SILVEX)	6.09	6.09	6.08	6.09	6.08	6.08
File ID:	0423A_04	0423A_05	0423A_06	0507A_03	0423A_07	0423A_08

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/07/19 12:57
Analytical Method:	8151		

Analyte	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	5.32	5.31	5.31	5.28	5.31	5.31
2,4,5-TP (SILVEX)	6.29	6.29	6.29	6.26	6.29	6.28
File ID:	0423A_04	0423A_05	0423A_06	0507A_03	0423A_07	0423A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/07/19 12:57
Analytical Method:	8151		

Analyte	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	3818000	4036000	3729000	3637000	3441000	3533000
2,4,5-TP (SILVEX)	26610000	28850000	27740000	28710000	23750000	26190000
File ID:	0423A_04	0423A_05	0423A_06	0507A_03	0423A_07	0423A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/07/19 12:57
Analytical Method:	8151		

Analyte	RRF. Avg	%RSD	COD
2,4-DICHLOROPHENYL ACETIC ACID	3699244	5.75	
2,4,5-TP (SILVEX)	26974930	7.08	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/07/19 12:57
Analytical Method:	8151		

Analyte	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	2851000	4131000	4329000	4399000	4606000	4996000
2,4,5-TP (SILVEX)	25430000	28490000	29800000	30080000	28200000	30060000
File ID:	0423A_04	0423A_05	0423A_06	0507A_03	0423A_07	0423A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/07/19 12:57
Analytical Method:	8151		

Analyte	RRF. Avg	%RSD	COD
2,4-DICHLOROPHENYL ACETIC ACID	4218705	17.35	
2,4,5-TP (SILVEX)	28674070	6.23	

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/07/19 12:57
Lab File ID:	0423A_10	**Analysis date/time:**	04/23/19 15:02
Analytical Method:	8151	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.1829	91.40	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/07/19 12:57
Lab File ID:	0423A_10	**Analysis date/time:**	04/23/19 15:02
Analytical Method:	8151	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2112	106	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/07/19 12:57
Lab File ID:	0507A_49	**Analysis date/time:**	05/07/19 23:10
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.3126	148	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.1903	95.20	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/07/19 12:57
Lab File ID:	0507A_49	**Analysis date/time:**	05/07/19 23:10
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.3126	156	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2637	132	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/07/19 12:57
Lab File ID:	0507A_59	**Analysis date/time:**	05/08/19 01:26
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.3066	151	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.1913	95.70	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/23/19 13:34
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/07/19 12:57
Lab File ID:	0507A_59	**Analysis date/time:**	05/08/19 01:26
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.3066	153	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2541	127	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1095644	**Analytical Method:**	8151
Instrument ID:	SVGC11	**Calibration Start Date:**	04/23/19 13:34
		Calibration End Date:	05/07/19 12:57

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	20	0423A_04	04/23/19 13:34	1	
CAL	50	0423A_05	04/23/19 13:49	1	
CAL	100	0423A_06	04/23/19 14:03	1	
CAL	500	0423A_07	04/23/19 14:18	1	
CAL	1000	0423A_08	04/23/19 14:32	1	
SSCV	SVGC11042319A0423A_10471356	0423A_10	04/23/19 15:02	1	
CAL	200	0507A_03	05/07/19 12:57	1	
CCV	SVGC11050719A0507A_49471356	0507A_49	05/07/19 23:10	1	
BLANK	R3409299-1	0507A_52	05/07/19 23:51	1	WG1276935
LCS	R3409299-2	0507A_53	05/08/19 00:05	1	WG1276935
LCSD	R3409299-3	0507A_54	05/08/19 00:18	1	WG1276935
WW-20190503-002 DAY 5	L1095644-01	0507A_56	05/08/19 00:45	1	WG1276935
CCV	SVGC11050719A0507A_59471356	0507A_59	05/08/19 01:26	1	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409299-1

Lab Sample ID:	R3409299-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507A_52	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/07/19 07:48
Analytical Batch:	WG1276935	**Analysis Date/Time:**	05/07/19 23:51
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	1000 mL
Total Solids (%):	_____	**Final Wt/Vol:**	10 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
2,4,5-TP (Silvex)	93-72-1	0	U		0.000845	0.0020	0.00200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409299-2

Lab Sample ID:	R3409299-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507A_53	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/07/19 07:48
Analytical Batch:	WG1276935	**Analysis Date/Time:**	05/08/19 00:05
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	1000 mL
Total Solids (%):	_____	**Final Wt/Vol:**	10 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
2,4,5-TP (Silvex)	93-72-1	6.25	0.00657	J4	0.000845	0.0020	0.00200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409299-3

Lab Sample ID:	R3409299-3	**SDG:**	L1095644
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0507A_54	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/07/19 07:48
Analytical Batch:	WG1276935	**Analysis Date/Time:**	05/08/19 00:18
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	1000 mL
Total Solids (%):	_____	**Final Wt/Vol:**	10 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
2,4,5-TP (Silvex)	93-72-1	6.25	0.00622		0.000845	0.0020	0.00200

Calc. Calculated Results

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	NONE	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	NONE	**Preparation Date/Time:**	05/08/19 10:27
Analytical Batch:	WG1277364	**Analysis Date/Time:**	05/08/19 10:27
Dilution Factor:	1	**Prep Method:**	Calc.
Analytical Method:	Calc.	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Organic Nitrogen	7727-37-9	0.476		0.0317	0.100	0.100

EPA 608.3 Pesticides (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA 608.3 **SDG:** L1095644
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
WW-20190503-002 DAY 5	L1095644-01	SVGC29	0507A_49	80.4	92.2	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Decachlorobiphenyl	10.0 - 144
DMC-2	Tetrachloro-m-xylene	10.0 - 135

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR SURROGATE RECOVERY

Analytical Method: EPA 608.3 **SDG:** L1095644
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
MS	R3409102-3	SVGC29	0507A_35	86.3	90.4	0
MSD	R3409102-4	SVGC29	0507A_36	89.3	84.1	0
BLANK	R3409102-2	SVGC29	0507A_33	95.8	97.3	0
LCS	R3409102-1	SVGC29	0507A_32	88.3	80.2	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Decachlorobiphenyl	10.0 - 144
DMC-2	Tetrachloro-m-xylene	10.0 - 135

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409102-3
R3409102-4

MS Sample / File ID:	R3409102-3 / 0507A_35	**SDG:**	L1095644
MSD Sample / File ID:	R3409102-4 / 0507A_36	**Analytical Batch:**	WG1276791
OS Sample / File ID:	L1095395-01 / 0507A_34	**Matrix:**	WW
Instrument ID:	SVGC29		
Analytical Method:	EPA 608.3		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Aldrin	0.00100	ND	0.000937	0.000905	93.7	90.5	1	42.0 - 140	3.47	35
Alpha BHC	0.00100	ND	0.00107	0.00109	107	109	1	37.0 - 140	1.85	36
Beta BHC	0.00100	ND	0.00104	0.00110	104	110	1	17.0 - 147	5.61	44
Gamma BHC	0.00100	ND	0.00105	0.00108	105	108	1	32.0 - 140	2.82	39
4,4-DDD	0.00100	ND	0.00110	0.00117	110	117	1	31.0 - 141	6.17	39
4,4-DDE	0.00100	ND	0.00108	0.00114	108	114	1	30.0 - 145	5.41	35
4,4-DDT	0.00100	ND	0.00111	0.00120	111	120	1	25.0 - 160	7.79	42
Dieldrin	0.00100	ND	0.00114	0.00121	114	121	1	36.0 - 146	5.96	49
Endosulfan I	0.00100	ND	0.00110	0.00116	110	116	1	45.0 - 153	5.31	28
Endosulfan II	0.00100	ND	0.00107	0.00114	107	114	1	1.00 - 202	6.33	53
Endosulfan sulfate	0.00100	ND	0.00107	0.00115	107	115	1	26.0 - 144	7.21	38
Endrin	0.00100	ND	0.00111	0.00118	111	118	1	30.0 - 147	6.11	48
Heptachlor	0.00100	ND	0.000990	0.00102	99.0	102	1	34.0 - 140	2.99	43
Heptachlor epoxide	0.00100	ND	0.00108	0.00114	108	114	1	37.0 - 142	5.41	26
Methoxychlor	0.00100	ND	0.00102	0.00108	102	108	1	44.0 - 160	5.71	22

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1095644-01

SAMPLE NO.:
R3409102-1

LCS Sample / File ID:	R3409102-1 / 0507A_32	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1276791
Instrument ID:	SVGC29	**Dilution Factor:**	1
Analytical Method:	EPA 608.3	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Aldrin	0.00100	0.000856		85.6		42.0 - 140		
Alpha BHC	0.00100	0.000984		98.4		37.0 - 140		
Beta BHC	0.00100	0.00101		101		17.0 - 147		
Gamma BHC	0.00100	0.000988		98.8		32.0 - 140		
4,4-DDD	0.00100	0.00108		108		31.0 - 141		
4,4-DDE	0.00100	0.00107		107		30.0 - 145		
4,4-DDT	0.00100	0.00109		109		25.0 - 160		
Dieldrin	0.00100	0.00108		108		36.0 - 146		
Endosulfan I	0.00100	0.00107		107		45.0 - 153		
Endosulfan II	0.00100	0.00105		105		1.00 - 202		
Endosulfan sulfate	0.00100	0.00106		106		26.0 - 144		
Endrin	0.00100	0.00106		106		30.0 - 147		
Heptachlor	0.00100	0.000941		94.1		34.0 - 140		
Heptachlor epoxide	0.00100	0.00106		106		37.0 - 142		
Methoxychlor	0.00100	0.00100		100		44.0 - 160		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3409102-2

Lab Sample ID:	R3409102-2	**SDG:**	L1095644
Lab File ID:	0507A_33	**Preparation Date/Time:**	05/07/19 06:41
Instrument ID:	SVGC29	**Analysis Date/Time:**	05/07/19 16:38
Analytical Batch:	WG1276791	**Dilution Factor:**	1
Analytical Method:	EPA 608.3	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3409102-1	SVGC29	0507A_32	05/07/19 16:25
OS	L1095395-01	SVGC29	0507A_34	05/07/19 16:50
MS	R3409102-3	SVGC29	0507A_35	05/07/19 17:02
MSD	R3409102-4	SVGC29	0507A_36	05/07/19 17:15
WW-20190503-002 DAY 5	L1095644-01	SVGC29	0507A_49	05/07/19 19:56

Sample Narrative:

Dilution due to sample volume.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	EPA 608.3
Instrument ID:	SVGC29	**Calibration Start Date:**	04/28/19 13:16
Std File:	AVG	**Calibration End Date:**	04/28/19 18:02
		Std Analysis Date:	AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE	
		Response	*RT*
STANDARD		607182000	2.51
UPPER LIMIT		1246714000	
LOWER LIMIT		311678500	
LCS R3409102-1 WG1276791 1x	0507A_32	559967400	2.51
BLANK R3409102-2 WG1276791 1x	0507A_33	559215500	2.51
OS L1095395-01 WG1276791 1x	0507A_34	566143100	2.51
MS R3409102-3 WG1276791 1x	0507A_35	564513900	2.50
MSD R3409102-4 WG1276791 1x	0507A_36	546605200	2.51
L1095644-01 WG1276791 1.05x	0507A_49	593265600	2.51

1-BROMO-2-DINITROBENZENE - 1-BROMO-2-DINITROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507A_49	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC29	**Preparation Date/Time:**	05/07/19 06:43
Analytical Batch:	WG1276791	**Analysis Date/Time:**	05/07/19 19:56
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
Aldrin	309-00-2	0	U		0.00000854	0.0000500	0.0000525
Alpha BHC	319-84-6	0	U		0.0000174	0.0000500	0.0000525
Beta BHC	319-85-7	0	U		0.0000193	0.0000500	0.0000525
Gamma BHC	58-89-9	0	U		0.0000185	0.0000500	0.0000525
Chlordane	57-74-9	0	U		0.000103	0.000500	0.000525
4,4-DDD	72-54-8	0	U		0.0000179	0.0000500	0.0000525
4,4-DDE	72-55-9	0	U		0.0000172	0.0000500	0.0000525
4,4-DDT	50-29-3	0	U		0.0000186	0.0000500	0.0000525
Dieldrin	60-57-1	0	U		0.00000789	0.0000500	0.0000525
Endosulfan I	959-98-8	0	U		0.0000188	0.0000500	0.0000525
Endosulfan II	33213-65-9	0	U		0.0000185	0.0000500	0.0000525
Endosulfan sulfate	1031-07-8	0	U		0.0000206	0.0000500	0.0000525
Endrin	72-20-8	0	U		0.0000198	0.0000500	0.0000525
Heptachlor	76-44-8	0	U		0.0000113	0.0000500	0.0000525
Heptachlor epoxide	1024-57-3	0	U		0.0000184	0.0000500	0.0000525
Methoxychlor	72-43-5	0	U		0.0000203	0.0000500	0.0000525
Toxaphene	8001-35-2	0	U		0.000176	0.000500	0.000525

Sample Narrative:

Dilution due to sample volume.

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 1	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	**CS: 0.4**	**CS: 1**	**CS: 5**	**CS: 10**	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 10T**	**CS: 50T**
TETRACHLORO-M-XYLENE	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.52		
ALPHA BHC	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23		
GAMMA BHC	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59		
BETA BHC	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70		
HEPTACHLOR	5	5	5	5	5	5	5	5		
ALDRIN	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28		
HEPTACHLOR EPOXIDE	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78		
ENDOSULFAN I	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10		
4,4-DDE	6.22	6.22	6.21	6.21	6.21	6.22	6.22	6.22		
DIELDRIN	6.33	6.32	6.32	6.32	6.32	6.32	6.32	6.32		
ENDRIN	6.57	6.56	6.56	6.56	6.56	6.56	6.56	6.56		
4,4-DDD	6.67	6.67	6.67	6.67	6.67	6.67	6.67	6.67		
ENDOSULFAN II	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.74		
4,4-DDT	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91		
ENDOSULFAN SULFATE	7.22	7.22	7.22	7.22	7.22	7.22	7.22	7.22		
DECACHLOROBIPHENYL	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57		
METHOXYCHLOR		7.45	7.45	7.45	7.45	7.45	7.45	7.45		
TOXAPHENE									6.31	6.31
CHLORDANE										
File ID:	0428A_04	0428A_05	0428A_06	0428A_07	0428A_08	0428A_09	0428A_10	0428A_11	0428A_15	0428A_16

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 1	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	**CS: 100T**	**CS: 200T**	**CS: 500T**	**CS: 1KT**	**CS: 10C**	**CS: 50C**	**CS: 100C**	**CS: 200C**	**CS: 500C**	**CS: 1KC**
TETRACHLORO-M-XYLENE										
ALPHA BHC										
GAMMA BHC										
BETA BHC										
HEPTACHLOR										
ALDRIN										
HEPTACHLOR EPOXIDE										
ENDOSULFAN I										
4,4-DDE										
DIELDRIN										
ENDRIN										
4,4-DDD										
ENDOSULFAN II										
4,4-DDT										
ENDOSULFAN SULFATE										
DECACHLOROBIPHENYL										
METHOXYCHLOR										
TOXAPHENE	6.31	6.31	6.31	6.31						
CHLORDANE					4.83	4.74	4.74	4.74	4.74	4.74
File ID:	0428A_17	0428A_18	0428A_19	0428A_20	0428A_22	0428A_23	0428A_24	0428A_25	0428A_26	0428A_27

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 2	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	**CS: 0.4**	**CS: 1**	**CS: 5**	**CS: 10**	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 10T**	**CS: 50T**
TETRACHLORO-M-XYLENE	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60		
ALPHA BHC	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25		
GAMMA BHC	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58		
BETA BHC	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68		
HEPTACHLOR	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04		
ALDRIN	5.32	5.31	5.31	5.32	5.32	5.32	5.32	5.32		
HEPTACHLOR EPOXIDE	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85		
ENDOSULFAN I	6.17	6.17	6.17	6.17	6.17	6.17	6.17	6.17		
4,4-DDE	6.14	6.14	6.14	6.14	6.14	6.14	6.14	6.14		
DIELDRIN	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.37		
ENDRIN	6.55	6.55	6.55	6.55	6.55	6.55	6.55	6.55		
4,4-DDD	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61		
ENDOSULFAN II	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73		
4,4-DDT	6.83	6.83	6.83	6.83	6.83	6.83	6.83	6.83		
ENDOSULFAN SULFATE	7.40	7.39	7.40	7.39	7.40	7.40	7.40	7.40		
METHOXYCHLOR	7.21	7.21	7.21	7.21	7.21	7.21	7.21	7.21		
DECACHLOROBIPHENYL	8.38	8.37	8.37	8.37	8.37	8.38	8.37	8.38		
TOXAPHENE									6.31	6.31
CHLORDANE										
File ID:	0428A_04	0428A_05	0428A_06	0428A_07	0428A_08	0428A_09	0428A_10	0428A_11	0428A_15	0428A_16

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 2	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	**CS: 100T**	**CS: 200T**	**CS: 500T**	**CS: 1KT**	**CS: 10C**	**CS: 50C**	**CS: 100C**	**CS: 200C**	**CS: 500C**	**CS: 1KC**
TETRACHLORO-M-XYLENE										
ALPHA BHC										
GAMMA BHC										
BETA BHC										
HEPTACHLOR										
ALDRIN										
HEPTACHLOR EPOXIDE										
ENDOSULFAN I										
4,4-DDE										
DIELDRIN										
ENDRIN										
4,4-DDD										
ENDOSULFAN II										
4,4-DDT										
ENDOSULFAN SULFATE										
METHOXYCHLOR										
DECACHLOROBIPHENYL										
TOXAPHENE	6.31	6.31	6.31	6.31						
CHLORDANE					4.83	4.83	4.83	4.83	4.83	4.83
File ID:	0428A_17	0428A_18	0428A_19	0428A_20	0428A_22	0428A_23	0428A_24	0428A_25	0428A_26	0428A_27

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 1	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	**RRF: 0.4**	**RRF: 1**	**RRF: 5**	**RRF: 10**	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**
TETRACHLORO-M-XYLENE	1.2970	1.2770	1.2250	1.1820	1.0570	1.0310	1.02	1.0630
ALPHA BHC	1.7550	1.6730	1.7320	1.7290	1.5850	1.5990	1.5990	1.6920
GAMMA BHC	1.5690	1.5310	1.5480	1.5380	1.4050	1.4150	1.4110	1.4920
BETA BHC	0.7860	0.7530	0.6960	0.6650	0.5890	0.5660	0.5570	0.5810
HEPTACHLOR	1.3840	1.3280	1.3010	1.2750	1.1560	1.1480	1.1370	1.1950
ALDRIN	1.6230	1.5440	1.4880	1.4620	1.3210	1.3050	1.2840	1.3330
HEPTACHLOR EPOXIDE	1.4880	1.3870	1.3270	1.2870	1.1490	1.1140	1.0850	1.1240
ENDOSULFAN I	1.3940	1.3190	1.2440	1.2070	1.0750	1.0390	1.0090	1.0420
4,4-DDE	1.3820	1.3240	1.3020	1.2840	1.1650	1.1560	1.1460	1.20
DIELDRIN	1.4750	1.3810	1.3330	1.3060	1.1750	1.1470	1.1220	1.1660
ENDRIN	1.3590	1.2840	1.2320	1.1980	1.0710	1.0390	1.0130	1.0520
4,4-DDD	1.1090	1.0510	1.0030	0.9820	0.8830	0.8720	0.8660	0.9130
ENDOSULFAN II	1.2890	1.2490	1.18	1.1390	1.0080	0.9730	0.9490	0.9850
4,4-DDT	0.9430	0.9370	0.8960	0.8880	0.8050	0.8110	0.82	0.8810
ENDOSULFAN SULFATE	1.3180	1.2580	1.1570	1.11	0.9850	0.95	0.93	0.9660
DECACHLOROBIPHENYL	1.1910	1.15	1.0320	0.9890	0.87	0.8450	0.8360	0.8790
METHOXYCHLOR		0.5270	0.4720	0.4450	0.3880	0.3680	0.3610	0.3810
TOXAPHENE								
CHLORDANE								
File ID:	0428A_04	0428A_05	0428A_06	0428A_07	0428A_08	0428A_09	0428A_10	0428A_11

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 1	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	**RRF: 10T**	**RRF: 50T**	**RRF: 100T**	**RRF: 200T**	**RRF: 500T**	**RRF: 1KT**	**RRF: 10C**	**RRF: 50C**
TETRACHLORO-M-XYLENE								
ALPHA BHC								
GAMMA BHC								
BETA BHC								
HEPTACHLOR								
ALDRIN								
HEPTACHLOR EPOXIDE								
ENDOSULFAN I								
4,4-DDE								
DIELDRIN								
ENDRIN								
4,4-DDD								
ENDOSULFAN II								
4,4-DDT								
ENDOSULFAN SULFATE								
DECACHLOROBIPHENYL								
METHOXYCHLOR								
TOXAPHENE	0.83	0.9010	0.7820	0.7270	0.6660	0.6710		
CHLORDANE							1.3770	1.0590
File ID:	0428A_15	0428A_16	0428A_17	0428A_18	0428A_19	0428A_20	0428A_22	0428A_23

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 1	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	**RRF: 100C**	**RRF: 200C**	**RRF: 500C**	**RRF: 1KC**	**RRF. Avg**	**%RSD**	**COD**
TETRACHLORO-M-XYLENE					1.143978	9.99	
ALPHA BHC					1.67039	4.08	
GAMMA BHC					1.488859	4.57	
BETA BHC					0.649164	13.74	
HEPTACHLOR					1.240352	7.56	
ALDRIN					1.419839	8.93	
HEPTACHLOR EPOXIDE					1.245295	11.93	
ENDOSULFAN I					1.166141	12.45	
4,4-DDE					1.244911	7.19	
DIELDRIN					1.263018	10.2	
ENDRIN					1.155972	11.18	
4,4-DDD					0.959732	9.44	
ENDOSULFAN II					1.096631	12.25	
4,4-DDT					0.872518	6.27	
ENDOSULFAN SULFATE					1.084237	13.79	
DECACHLOROBIPHENYL					0.974132	14.37	
METHOXYCHLOR					0.420312	14.91	
TOXAPHENE					0.762806	12.14	
CHLORDANE	0.9430	0.8980	0.8420	0.8440	0.993828	20.55	0.999
File ID:	0428A_24	0428A_25	0428A_26	0428A_27			

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 2	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	**RRF: 0.4**	**RRF: 1**	**RRF: 5**	**RRF: 10**	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**
TETRACHLORO-M-XYLENE	1.0150	1.0760	1.1250	1.1380	1.06	1.0840	1.0870	1.1420
ALPHA BHC	1.2860	1.3410	1.5650	1.6730	1.6180	1.7120	1.7460	1.87
GAMMA BHC	1.1970	1.2680	1.4530	1.5280	1.4640	1.5330	1.5570	1.6640
BETA BHC	0.6390	0.6520	0.6650	0.6560	0.5990	0.6040	0.6060	0.6370
HEPTACHLOR	1.2380	1.2920	1.4360	1.49	1.4130	1.4580	1.4620	1.5440
ALDRIN	1.2090	1.2630	1.4390	1.5110	1.4470	1.5030	1.5150	1.5970
HEPTACHLOR EPOXIDE	1.1980	1.2420	1.3360	1.3650	1.2770	1.2960	1.2920	1.36
ENDOSULFAN I	1.1340	1.1720	1.2780	1.3090	1.2280	1.2540	1.2490	1.3080
4,4-DDE	1.0280	1.0780	1.2430	1.3090	1.2590	1.32	1.3380	1.4190
DIELDRIN	1.1520	1.19	1.3350	1.3840	1.3160	1.3630	1.37	1.4470
ENDRIN	1.0810	1.12	1.2450	1.2950	1.2230	1.2560	1.2610	1.3310
4,4-DDD	0.8150	0.8640	0.98	1.0320	0.9860	1.0360	1.0520	1.1180
ENDOSULFAN II	1.0730	1.1030	1.1770	1.20	1.1210	1.1430	1.1430	1.2050
4,4-DDT	0.93	0.97	1.0730	1.1130	1.0620	1.1150	1.1380	1.2150
ENDOSULFAN SULFATE	1.1730	1.1780	1.2250	1.2320	1.1410	1.1580	1.1610	1.2240
METHOXYCHLOR	0.5660	0.58	0.5880	0.5790	0.5260	0.5210	0.5180	0.5460
DECACHLOROBIPHENYL	1.4230	1.3380	1.30	1.27	1.1450	1.1380	1.1380	1.2070
TOXAPHENE								
CHLORDANE								
File ID:	0428A_04	0428A_05	0428A_06	0428A_07	0428A_08	0428A_09	0428A_10	0428A_11

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 2	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	**RRF: 10T**	**RRF: 50T**	**RRF: 100T**	**RRF: 200T**	**RRF: 500T**	**RRF: 1KT**	**RRF: 10C**	**RRF: 50C**
TETRACHLORO-M-XYLENE								
ALPHA BHC								
GAMMA BHC								
BETA BHC								
HEPTACHLOR								
ALDRIN								
HEPTACHLOR EPOXIDE								
ENDOSULFAN I								
4,4-DDE								
DIELDRIN								
ENDRIN								
4,4-DDD								
ENDOSULFAN II								
4,4-DDT								
ENDOSULFAN SULFATE								
METHOXYCHLOR								
DECACHLOROBIPHENYL								
TOXAPHENE	1.0430	0.9730	0.8420	0.8050	0.7890	0.8310		
CHLORDANE							1.3070	1.02
File ID:	0428A_15	0428A_16	0428A_17	0428A_18	0428A_19	0428A_20	0428A_22	0428A_23

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 2	**Calibration (end) date/time:**	04/28/19 18:02
Analytical Method:	EPA 608.3		

Analyte	RRF: 100C	RRF: 200C	RRF: 500C	RRF: 1KC	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					1.090816	3.96	
ALPHA BHC					1.601338	12.47	
GAMMA BHC					1.45804	10.58	
BETA BHC					0.63225	4.08	
HEPTACHLOR					1.416582	7.21	
ALDRIN					1.435602	9.27	
HEPTACHLOR EPOXIDE					1.295802	4.47	
ENDOSULFAN I					1.241459	5	
4,4-DDE					1.249357	10.63	
DIELDRIN					1.319561	7.57	
ENDRIN					1.226453	6.92	
4,4-DDD					0.985394	10.18	
ENDOSULFAN II					1.145489	4.07	
4,4-DDT					1.076866	8.5	
ENDOSULFAN SULFATE					1.18652	2.98	
METHOXYCHLOR					0.552948	5.23	
DECACHLOROBIPHENYL					1.244877	8.5	
TOXAPHENE					0.880426	11.69	
CHLORDANE	0.9530	0.9590	0.96	1.0060	1.034179	13.22	
File ID:	0428A_24	0428A_25	0428A_26	0428A_27			

7B-OR

PESTICIDE BREAKDOWN

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29	**Calibration (end) date/time:**	04/28/19 18:02
Lab File ID:	0507A_02	**Analysis date/time:**	05/07/19 09:57
Analytical Method:	EPA 608.3		

Analyte	Column 2 Response	Column 2 %Breakdown
ENDRIN ALDEHYDE	384378	
ENDRIN KETONE	2067675	
ENDRIN	146324700	1.68
4,4-DDE	675961	
4,4-DDD	1363650	
4,4-DDT	250199000	0.8150

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 1	**Calibration (end) date/time:**	04/28/19 18:02
Lab File ID:	0428A_13-1	**Analysis date/time:**	04/28/19 15:08
Analytical Method:	EPA 608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.05	0.04535	90.70	80 - 120
4,4-DDE	0.05	0.04530	90.60	80 - 120
4,4-DDT	0.05	0.04635	92.70	80 - 120
ALDRIN	0.05	0.04457	89.10	80 - 120
ALPHA BHC	0.05	0.04783	95.70	80 - 120
BETA BHC	0.05	0.04502	90	80 - 120
DECACHLOROBIPHENYL	0.05	0.04475	89.50	10 - 144
DIELDRIN	0.05	0.04479	89.60	80 - 120
ENDOSULFAN I	0.05	0.04345	86.90	80 - 120
ENDOSULFAN II	0.05	0.04447	88.90	80 - 120
ENDOSULFAN SULFATE	0.05	0.04094	81.90	80 - 120
ENDRIN	0.05	0.04418	88.40	80 - 120
GAMMA BHC	0.05	0.04658	93.20	80 - 120
HEPTACHLOR	0.05	0.04580	91.60	80 - 120
HEPTACHLOR EPOXIDE	0.05	0.04384	87.70	80 - 120
HEXACHLOROBENZENE	0.05	0.04324	86.50	80 - 120
METHOXYCHLOR	0.05	0.04412	88.20	80 - 120
TETRACHLORO-M-XYLENE	0.05	0.04484	89.70	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 2	**Calibration (end) date/time:**	04/28/19 18:02
Lab File ID:	0428A_13-1	**Analysis date/time:**	04/28/19 15:08
Analytical Method:	EPA 608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.05	0.05265	105	80 - 120
4,4-DDE	0.05	0.05169	103	80 - 120
4,4-DDT	0.05	0.05130	103	80 - 120
ALDRIN	0.05	0.05100	102	80 - 120
ALPHA BHC	0.05	0.05351	107	80 - 120
BETA BHC	0.05	0.04941	98.80	80 - 120
DECACHLOROBIPHENYL	0.05	0.04699	94	10 - 144
DIELDRIN	0.05	0.05090	102	80 - 120
ENDOSULFAN I	0.05	0.04953	99.10	80 - 120
ENDOSULFAN II	0.05	0.04993	99.90	80 - 120
ENDOSULFAN SULFATE	0.05	0.04548	91	80 - 120
ENDRIN	0.05	0.05044	101	80 - 120
GAMMA BHC	0.05	0.05157	103	80 - 120
HEPTACHLOR	0.05	0.05077	102	80 - 120
HEPTACHLOR EPOXIDE	0.05	0.04924	98.50	80 - 120
HEXACHLOROBENZENE	0.05	0.04650	93	80 - 120
METHOXYCHLOR	0.05	0.04718	94.40	80 - 120
TETRACHLORO-M-XYLENE	0.05	0.04956	99.10	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 1	**Calibration (end) date/time:**	04/28/19 18:02
Lab File ID:	0507A_03-1	**Analysis date/time:**	05/07/19 10:09
Analytical Method:	EPA 608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.02	0.02177	119	75 - 125
4,4-DDE	0.02	0.02302	135	75 - 125
4,4-DDT	0.02	0.02005	116	75 - 125
ALDRIN	0.02	0.02337	134	75 - 125
ALPHA BHC	0.02	0.02283	129	69 - 125
BETA BHC	0.02	0.02102	122	75 - 125
DECACHLOROBIPHENYL	0.02	0.02357	118	70 - 130
DIELDRIN	0.02	0.02117	134	48 - 125
ENDOSULFAN I	0.02	0.02141	131	75 - 125
ENDOSULFAN II	0.02	0.02136	130	75 - 125
ENDOSULFAN SULFATE	0.02	0.02168	128	70 - 125
ENDRIN	0.02	0.02046	129	5 - 125
GAMMA BHC	0.02	0.02212	125	75 - 125
HEPTACHLOR	0.02	0.02073	124	75 - 125
HEPTACHLOR EPOXIDE	0.02	0.02106	128	75 - 125
HEXACHLOROBENZENE	0.02	0.01942	115	75 - 125
METHOXYCHLOR	0.02	0.01915	116	75 - 125
TETRACHLORO-M-XYLENE	0.02	0.02691	135	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 2	**Calibration (end) date/time:**	04/28/19 18:02
Lab File ID:	0507A_03-1	**Analysis date/time:**	05/07/19 10:09
Analytical Method:	EPA 608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.02	0.02177	109	75 - 125
4,4-DDE	0.02	0.02302	115	75 - 125
4,4-DDT	0.02	0.02005	100	75 - 125
ALDRIN	0.02	0.02337	117	75 - 125
ALPHA BHC	0.02	0.02283	114	69 - 125
BETA BHC	0.02	0.02102	105	75 - 125
DECACHLOROBIPHENYL	0.02	0.01872	93.60	70 - 130
DIELDRIN	0.02	0.02117	106	48 - 125
ENDOSULFAN I	0.02	0.02141	107	75 - 125
ENDOSULFAN II	0.02	0.02136	107	75 - 125
ENDOSULFAN SULFATE	0.02	0.02168	108	70 - 125
ENDRIN	0.02	0.02046	102	5 - 125
GAMMA BHC	0.02	0.02212	111	75 - 125
HEPTACHLOR	0.02	0.02073	104	75 - 125
HEPTACHLOR EPOXIDE	0.02	0.02106	105	75 - 125
HEXACHLOROBENZENE	0.02	0.01942	97.10	75 - 125
METHOXYCHLOR	0.02	0.01915	95.80	75 - 125
TETRACHLORO-M-XYLENE	0.02	0.02246	112	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 1	**Calibration (end) date/time:**	04/28/19 18:02
Lab File ID:	0507A_04-1	**Analysis date/time:**	05/07/19 10:22
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
TOXAPHENE	0.10	0.1018	139	68 - 134

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 2	**Calibration (end) date/time:**	04/28/19 18:02
Lab File ID:	0507A_04-1	**Analysis date/time:**	05/07/19 10:22
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
TOXAPHENE	0.10	0.1018	102	68 - 134

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 1	**Calibration (end) date/time:**	04/28/19 18:02
Lab File ID:	0507A_05-1	**Analysis date/time:**	05/07/19 10:34
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
CHLORDANE	0.10	0.1022	148	75 - 125

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/28/19 13:16
Instrument ID:	SVGC29 - 2	**Calibration (end) date/time:**	04/28/19 18:02
Lab File ID:	0507A_05-1	**Analysis date/time:**	05/07/19 10:34
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
CHLORDANE	0.10	0.1022	102	75 - 125

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1095644	**Analytical Method:**	EPA 608.3
Instrument ID:	SVGC29	**Calibration Start Date:**	04/28/19 13:16
		Calibration End Date:	04/28/19 18:02

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.4	0428A_04	04/28/19 13:16	1	
CAL	1	0428A_05	04/28/19 13:28	1	
CAL	5	0428A_06	04/28/19 13:41	1	
CAL	10	0428A_07	04/28/19 13:53	1	
CAL	20	0428A_08	04/28/19 14:06	1	
CAL	50	0428A_09	04/28/19 14:18	1	
CAL	100	0428A_10	04/28/19 14:31	1	
CAL	200	0428A_11	04/28/19 14:43	1	
SSCV	SVGC29042819A0428A_13-1470798	0428A_13-1	04/28/19 15:08	20	
CAL	10T	0428A_15	04/28/19 15:33	1	
CAL	50T	0428A_16	04/28/19 15:45	1	
CAL	100T	0428A_17	04/28/19 15:58	1	
CAL	200T	0428A_18	04/28/19 16:10	1	
CAL	500T	0428A_19	04/28/19 16:22	1	
CAL	1KT	0428A_20	04/28/19 16:35	1	
CAL	10C	0428A_22	04/28/19 17:00	1	
CAL	50C	0428A_23	04/28/19 17:12	1	
CAL	100C	0428A_24	04/28/19 17:24	1	
CAL	200C	0428A_25	04/28/19 17:37	1	
CAL	500C	0428A_26	04/28/19 17:49	1	
CAL	1KC	0428A_27	04/28/19 18:02	1	
BREAKDOWN	SVGC29050719A0507A_02470798	0507A_02	05/07/19 09:57	10	
ICV	SVGC29050719A0507A_03-1470798	0507A_03-1	05/07/19 10:09	10	
CCV	SVGC29050719A0507A_04-1470798	0507A_04-1	05/07/19 10:22	10	
CCV	SVGC29050719A0507A_05-1470798	0507A_05-1	05/07/19 10:34	10	
LCS	R3409102-1	0507A_32	05/07/19 16:25	1	WG1276791
BLANK	R3409102-2	0507A_33	05/07/19 16:38	1	WG1276791
OS	L1095395-01	0507A_34	05/07/19 16:50	1	WG1276791
MS	R3409102-3	0507A_35	05/07/19 17:02	1	WG1276791
MSD	R3409102-4	0507A_36	05/07/19 17:15	1	WG1276791
WW-20190503-002 DAY 5	L1095644-01	0507A_49	05/07/19 19:56	1.05	WG1276791

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409102-2

Lab Sample ID:	R3409102-2	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507A_33	**Received Date/Time:**	_____
Instrument ID:	SVGC29	**Preparation Date/Time:**	05/07/19 06:41
Analytical Batch:	WG1276791	**Analysis Date/Time:**	05/07/19 16:38
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Aldrin	309-00-2	0	U		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	0	U		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	0	U		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	0	U		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	0	U		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	0	U		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	0	U		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	0	U		0.00000751	0.000050	0.0000500
Endosulfan I	959-98-8	0	U		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	0	U		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	0	U		0.0000196	0.000050	0.0000500
Endrin	72-20-8	0	U		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	0	U		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	0	U		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	0	U		0.0000193	0.000050	0.0000500
Chlordane	57-74-9	0	U		0.0000977	0.0005	0.000500
Toxaphene	8001-35-2	0	U		0.000168	0.0005	0.000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409102-1

Lab Sample ID:	R3409102-1	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507A_32	**Received Date/Time:**	_____
Instrument ID:	SVGC29	**Preparation Date/Time:**	05/07/19 06:41
Analytical Batch:	WG1276791	**Analysis Date/Time:**	05/07/19 16:25
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Aldrin	309-00-2	5.32	0.000856		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.25	0.000984		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.68	0.00101		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.58	0.000988		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	6.61	0.00108		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	6.14	0.00107		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	6.83	0.00109		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	6.37	0.00108		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.17	0.00107		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	6.73	0.00105		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	7.40	0.00106		0.0000196	0.000050	0.0000500
Endrin	72-20-8	6.55	0.00106		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.04	0.000941		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	5.85	0.00106		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	7.21	0.00100		0.0000193	0.000050	0.0000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409102-3

Lab Sample ID:	R3409102-3	**SDG:**	L1095644
Client Sample ID:	MS	**Collected Date/Time:**	05/03/19 09:00
Lab File ID:	0507A_35	**Received Date/Time:**	05/04/19 08:45
Instrument ID:	SVGC29	**Preparation Date/Time:**	05/07/19 06:43
Analytical Batch:	WG1276791	**Analysis Date/Time:**	05/07/19 17:02
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Aldrin	309-00-2	5.32	0.000937		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.25	0.00107		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.68	0.00104		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.58	0.00105		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	6.61	0.00110		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	6.14	0.00108		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	6.83	0.00111		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	6.37	0.00114		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.17	0.00110		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	6.73	0.00107		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	7.40	0.00107		0.0000196	0.000050	0.0000500
Endrin	72-20-8	6.55	0.00111		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.04	0.000990		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	5.85	0.00108		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	7.21	0.00102		0.0000193	0.000050	0.0000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409102-4

Lab Sample ID:	R3409102-4	**SDG:**	L1095644
Client Sample ID:	MSD	**Collected Date/Time:**	05/03/19 09:00
Lab File ID:	0507A_36	**Received Date/Time:**	05/04/19 08:45
Instrument ID:	SVGC29	**Preparation Date/Time:**	05/07/19 06:43
Analytical Batch:	WG1276791	**Analysis Date/Time:**	05/07/19 17:15
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Aldrin	309-00-2	5.32	0.000905		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.25	0.00109		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.68	0.00110		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.58	0.00108		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	6.61	0.00117		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	6.14	0.00114		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	6.83	0.00120		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	6.37	0.00121		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.17	0.00116		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	6.73	0.00114		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	7.40	0.00115		0.0000196	0.000050	0.0000500
Endrin	72-20-8	6.55	0.00118		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.04	0.00102		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	5.85	0.00114		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	7.21	0.00108		0.0000193	0.000050	0.0000500

EPA-608.3 Polychlorinated Biphenyls (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA-608.3 **SDG:** L1095644
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
WW-20190503-002 DAY 5	L1095644-01	SVGC14	0507_43	81.8	81.7	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Decachlorobiphenyl	10.0 - 144
DMC-2	Tetrachloro-m-xylene	10.0 - 135

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA-608.3 **SDG:** L1095644
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
BLANK	R3409250-1	SVGC14	0507_37	106	83.1	0
LCS	R3409250-2	SVGC14	0507_38	84.5	66.5	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Decachlorobiphenyl	10.0 - 144
DMC-2	Tetrachloro-m-xylene	10.0 - 135

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1095644-01

SAMPLE NO.:
R3409250-2

LCS Sample / File ID:	R3409250-2 / 0507_38	**SDG:**	L1095644
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1276791
Instrument ID:	SVGC14	**Dilution Factor:**	1
Analytical Method:	EPA-608.3	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
PCB 1260	0.00250	0.00189		75.6		8.00 - 140		
PCB 1016	0.00250	0.00167		66.8		50.0 - 140		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3409250-1

Lab Sample ID:	R3409250-1	**SDG:**	L1095644
Lab File ID:	0507_37	**Preparation Date/Time:**	05/07/19 06:41
Instrument ID:	SVGC14	**Analysis Date/Time:**	05/07/19 18:41
Analytical Batch:	WG1276791	**Dilution Factor:**	1
Analytical Method:	EPA-608.3	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3409250-2	SVGC14	0507_38	05/07/19 18:55
WW-20190503-002 DAY 5	L1095644-01	SVGC14	0507_43	05/07/19 20:03

Sample Narrative:

Dilution due to sample volume.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1095644	**Analytical Method:**	EPA-608.3
Instrument ID:	SVGC14	**Calibration Start Date:**	04/19/19 12:24
Std File:	AVG	**Calibration End Date:**	04/19/19 15:21
		Std Analysis Date:	AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE	
		Response	*RT*
STANDARD		51450986	2.18
UPPER LIMIT		103066000	
LOWER LIMIT		25766500	
BLANK R3409250-1 WG1276791 1x	0507_37	53092820	2.18
LCS R3409250-2 WG1276791 1x	0507_38	60838770	2.18
L1095644-01 WG1276791 1.05x	0507_43	66556380	2.18

1-BROMO-2-DINITROBENZENE - 1-BROMO-2-DINITROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190503-002 DAY 5

Lab Sample ID:	L1095644-01	**SDG:**	L1095644
Client Sample ID:	WW-20190503-002 DAY 5	**Collected Date/Time:**	05/03/19 14:00
Lab File ID:	0507_43	**Received Date/Time:**	05/06/19 09:45
Instrument ID:	SVGC14	**Preparation Date/Time:**	05/07/19 06:43
Analytical Batch:	WG1276791	**Analysis Date/Time:**	05/07/19 20:03
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	EPA-608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
PCB 1016	12674-11-2	0	U		0.000105	0.000500	0.000525
PCB 1221	11104-28-2	0	U		0.0000766	0.000500	0.000525
PCB 1232	11141-16-5	0	U		0.0000441	0.000500	0.000525
PCB 1242	53469-21-9	0	U		0.0000494	0.000500	0.000525
PCB 1248	12672-29-6	0	U		0.0000903	0.000500	0.000525
PCB 1254	11097-69-1	0	U		0.0000494	0.000500	0.000525
PCB 1260	11096-82-5	0	U		0.000126	0.000500	0.000525
Total PCBs	1336-36-3	0	U		0.0000441	0.000500	0.000525

Sample Narrative:

Dilution due to sample volume.

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	04/19/19 15:21
Analytical Method:	EPA-608.3		

Analyte	**CS: 5**	**CS: 10**	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1221**	**CS: 1232**	**CS: 1242**
TETRACHLORO-M-XYLENE	*3.14*	*3.14*	*3.14*	*3.14*	*3.14*	*3.14*				
AROCLOR 1016(1)	*3.67*	*3.67*	*3.67*	*3.67*	*3.67*	*3.67*	*3.67*			
AROCLOR 1016(2)	*4.05*	*4.05*	*4.05*	*4.05*	*4.05*	*4.05*	*4.05*			
AROCLOR 1016(3)	*4.44*	*4.43*	*4.43*	*4.43*	*4.43*	*4.43*	*4.43*			
AROCLOR 1016(4)	*4.91*	*4.92*	*4.91*	*4.91*	*4.91*	*4.91*	*4.91*			
AROCLOR 1016(5)	*5.01*	*5.01*	*5.01*	*5.01*	*5.01*	*5.01*	*5.01*			
AROCLOR 1260(1)	*6.01*	*6.01*	*6.01*	*6.01*	*6.01*	*6.01*	*6.01*			
AROCLOR 1260(2)	*6.26*	*6.26*	*6.26*	*6.26*	*6.26*	*6.26*	*6.26*			
AROCLOR 1260(3)	*6.54*	*6.54*	*6.54*	*6.54*	*6.54*	*6.54*				
AROCLOR 1260(4)	*6.72*	*6.72*	*6.72*	*6.72*	*6.72*	*6.72*	*6.72*			
AROCLOR 1260(5)	*6.97*	*6.97*	*6.97*	*6.97*	*6.97*	*6.97*	*6.97*			
DECACHLOROBIPHENYL	*7.78*	*7.78*	*7.78*	*7.78*	*7.79*	*7.79*				
AROCLOR 1221(1)								*2.63*		
AROCLOR 1221(2)								*3.48*		
AROCLOR 1221(3)								*3.62*		
AROCLOR 1221(4)								*3.67*		
AROCLOR 1221(5)								*4.43*		
PCB 1221								*3.5660*		
AROCLOR 1232(1)									*3.67*	
AROCLOR 1232(2)									*4.05*	
AROCLOR 1232(3)									*4.54*	
AROCLOR 1232(4)									*5.01*	
AROCLOR 1232(5)									*5.40*	
AROCLOR 1242(1)										*3.67*
AROCLOR 1242(2)										*4.05*
AROCLOR 1242(3)										*4.43*
AROCLOR 1242(4)										*4.91*
AROCLOR 1242(5)										*5.40*
AROCLOR 1248(1)										
AROCLOR 1248(2)										
AROCLOR 1248(3)										
AROCLOR 1248(4)										
AROCLOR 1248(5)										
AROCLOR 1254(1)										
AROCLOR 1254(2)										
AROCLOR 1254(3)										
AROCLOR 1254(4)										
AROCLOR 1254(5)										
AROCLOR 1262(1)										
AROCLOR 1262(2)										
AROCLOR 1262(3)										
AROCLOR 1262(4)										
AROCLOR 1262(5)										
AROCLOR 1268(1)										
AROCLOR 1268(2)										
AROCLOR 1268(3)										
AROCLOR 1268(4)										
AROCLOR 1268(5)										
File ID:	0419A_10	0419A_09	0419A_08	0419A_07	0419A_06	0419A_05	0419A_04	0419A_11	0419A_12	0419A_13

6D-OR

RETENTION TIME INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	04/19/19 15:21
Analytical Method:	EPA-608.3		

Analyte	**CS: 1248**	**CS: 1254**	**CS: 1262**	**CS: 1268**
TETRACHLORO-M-XYLENE				
AROCLOR 1016(1)				
AROCLOR 1016(2)				
AROCLOR 1016(3)				
AROCLOR 1016(4)				
AROCLOR 1016(5)				
AROCLOR 1260(1)				
AROCLOR 1260(2)				
AROCLOR 1260(3)				
AROCLOR 1260(4)				
AROCLOR 1260(5)				
DECACHLOROBIPHENYL				
AROCLOR 1221(1)				
AROCLOR 1221(2)				
AROCLOR 1221(3)				
AROCLOR 1221(4)				
AROCLOR 1221(5)				
PCB 1221				
AROCLOR 1232(1)				
AROCLOR 1232(2)				
AROCLOR 1232(3)				
AROCLOR 1232(4)				
AROCLOR 1232(5)				
AROCLOR 1242(1)				
AROCLOR 1242(2)				
AROCLOR 1242(3)				
AROCLOR 1242(4)				
AROCLOR 1242(5)				
AROCLOR 1248(1)	*4.05*			
AROCLOR 1248(2)	*4.91*			
AROCLOR 1248(3)	*5.24*			
AROCLOR 1248(4)	*5.71*			
AROCLOR 1248(5)	*6.13*			
AROCLOR 1254(1)		*5.23*		
AROCLOR 1254(2)		*5.71*		
AROCLOR 1254(3)		*5.88*		
AROCLOR 1254(4)		*6.01*		
AROCLOR 1254(5)		*6.26*		
AROCLOR 1262(1)			*6.01*	
AROCLOR 1262(2)			*6.33*	
AROCLOR 1262(3)			*6.54*	
AROCLOR 1262(4)			*6.72*	
AROCLOR 1262(5)			*7.38*	
AROCLOR 1268(1)				*6.54*
AROCLOR 1268(2)				*6.97*
AROCLOR 1268(3)				*7.17*
AROCLOR 1268(4)				*7.38*
AROCLOR 1268(5)				*7.61*
File ID:	0419A_14	0419A_15	0419A_16	0419A_17

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	04/19/19 15:21
Analytical Method:	EPA-608.3		

Analyte	**CS: 5**	**CS: 10**	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1221**	**CS: 1232**	**CS: 1242**
TETRACHLORO-M-XYLENE	*3.15*	*3.15*	*3.15*	*3.15*	*3.15*	*3.15*	*3.15*			
AROCLOR 1016(1)	*3.56*	*3.56*	*3.57*	*3.57*	*3.57*	*3.57*	*3.56*			
AROCLOR 1016(2)	*3.91*	*3.91*	*3.91*	*3.91*	*3.91*	*3.91*	*3.91*			
AROCLOR 1016(3)	*4.32*	*4.32*	*4.32*	*4.32*	*4.32*	*4.31*	*4.31*			
AROCLOR 1016(4)	*4.76*	*4.76*	*4.76*	*4.76*	*4.76*	*4.76*	*4.76*			
AROCLOR 1016(5)	*4.42*	*4.43*	*4.43*	*4.43*	*4.42*	*4.42*	*4.42*			
AROCLOR 1260(1)	*5.87*	*5.87*	*5.87*	*5.87*	*5.87*	*5.87*	*5.87*			
AROCLOR 1260(2)	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*			
AROCLOR 1260(3)	*6.33*	*6.33*	*6.33*	*6.33*	*6.33*	*6.33*	*6.32*			
AROCLOR 1260(4)	*6.54*	*6.54*	*6.54*	*6.54*	*6.54*	*6.54*	*6.54*			
AROCLOR 1260(5)	*6.74*	*6.74*	*6.74*	*6.74*	*6.74*	*6.74*	*6.74*			
DECACHLOROBIPHENYL	*7.50*	*7.50*	*7.50*	*7.50*	*7.50*	*7.50*				
AROCLOR 1221(1)								*2.55*		
AROCLOR 1221(2)								*3.38*		
AROCLOR 1221(3)								*3.53*		
AROCLOR 1221(4)								*3.57*		
AROCLOR 1221(5)								*4.02*		
AROCLOR 1232(1)									*3.57*	
AROCLOR 1232(2)									*3.91*	
AROCLOR 1232(3)									*4.42*	
AROCLOR 1232(4)									*4.76*	
AROCLOR 1232(5)									*5.25*	
AROCLOR 1242(1)										*3.57*
AROCLOR 1242(2)										*3.91*
AROCLOR 1242(3)										*4.32*
AROCLOR 1242(4)										*4.76*
AROCLOR 1242(5)										*5.25*
AROCLOR 1248(1)										
AROCLOR 1248(2)										
AROCLOR 1248(3)										
AROCLOR 1248(4)										
AROCLOR 1248(5)										
AROCLOR 1254(1)										
AROCLOR 1254(2)										
AROCLOR 1254(3)										
AROCLOR 1254(4)										
AROCLOR 1254(5)										
AROCLOR 1262(1)										
AROCLOR 1262(2)										
AROCLOR 1262(3)										
AROCLOR 1262(4)										
AROCLOR 1262(5)										
AROCLOR 1268(1)										
AROCLOR 1268(2)										
AROCLOR 1268(3)										
AROCLOR 1268(4)										
AROCLOR 1268(5)										
File ID:	0419A_10	0419A_09	0419A_08	0419A_07	0419A_06	0419A_05	0419A_04	0419A_11	0419A_12	0419A_13

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	04/19/19 15:21
Analytical Method:	EPA-608.3		

Analyte	**CS: 1248**	**CS: 1254**	**CS: 1262**	**CS: 1268**
TETRACHLORO-M-XYLENE				
AROCLOR 1016(1)				
AROCLOR 1016(2)				
AROCLOR 1016(3)				
AROCLOR 1016(4)				
AROCLOR 1016(5)				
AROCLOR 1260(1)				
AROCLOR 1260(2)				
AROCLOR 1260(3)				
AROCLOR 1260(4)				
AROCLOR 1260(5)				
DECACHLOROBIPHENYL				
AROCLOR 1221(1)				
AROCLOR 1221(2)				
AROCLOR 1221(3)				
AROCLOR 1221(4)				
AROCLOR 1221(5)				
AROCLOR 1232(1)				
AROCLOR 1232(2)				
AROCLOR 1232(3)				
AROCLOR 1232(4)				
AROCLOR 1232(5)				
AROCLOR 1242(1)				
AROCLOR 1242(2)				
AROCLOR 1242(3)				
AROCLOR 1242(4)				
AROCLOR 1242(5)				
AROCLOR 1248(1)	*3.91*			
AROCLOR 1248(2)	*4.76*			
AROCLOR 1248(3)	*5.10*			
AROCLOR 1248(4)	*5.54*			
AROCLOR 1248(5)	*5.94*			
AROCLOR 1254(1)		*5.25*		
AROCLOR 1254(2)		*5.54*		
AROCLOR 1254(3)		*5.74*		
AROCLOR 1254(4)		*5.87*		
AROCLOR 1254(5)		*6.07*		
AROCLOR 1262(1)			*5.87*	
AROCLOR 1262(2)			*6.15*	
AROCLOR 1262(3)			*6.33*	
AROCLOR 1262(4)			*6.54*	
AROCLOR 1262(5)			*7.17*	
AROCLOR 1268(1)				*6.32*
AROCLOR 1268(2)				*6.77*
AROCLOR 1268(3)				*6.93*
AROCLOR 1268(4)				*7.17*
AROCLOR 1268(5)				*7.37*
File ID:	0419A_14	0419A_15	0419A_16	0419A_17

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	04/19/19 15:21
Analytical Method:	EPA-608.3		

Analyte	**RRF: 5**	**RRF: 10**	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1221**	**RRF: 1232**	**RRF: 1242**
TETRACHLORO-M-XYLENE	0.6670	0.6080	0.6150	0.7170	0.6520	0.7340				
AROCLOR 1016(1)	0.0120	0.0130	0.0150	0.0180	0.0140	0.0130	0.0110			
AROCLOR 1016(2)	0.0220	0.0270	0.0260	0.0230	0.02	0.0180	0.0160			
AROCLOR 1016(3)	0.0520	0.0450	0.0460	0.0520	0.0450	0.0460	0.0410			
AROCLOR 1016(4)	0.0150	0.0130	0.0160	0.0150	0.0130	0.0140	0.0110			
AROCLOR 1016(5)	0.0250	0.0170	0.0190	0.0190	0.0160	0.0160	0.0140			
AROCLOR 1260(1)	0.1330	0.0940	0.0850	0.0840	0.0790	0.0780	0.0650			
AROCLOR 1260(2)	0.0930	0.0920	0.0970	0.0980	0.0910	0.0890	0.0740			
AROCLOR 1260(3)	0.0610	0.0730	0.0640	0.0590	0.0570	0.0530				
AROCLOR 1260(4)	0.1440	0.1650	0.1550	0.17	0.1710	0.1720	0.1460			
AROCLOR 1260(5)	0.10	0.1110	0.0990	0.1030	0.1020	0.0990	0.0820			
DECACHLOROBIPHENYL	1.1060	1.2460	1.1120	1.3190	1.4730	1.5820				
AROCLOR 1221(1)								0.0030		
AROCLOR 1221(2)								0.0060		
AROCLOR 1221(3)								0.0050		
AROCLOR 1221(4)								0.0160		
AROCLOR 1221(5)								0.0030		
PCB 1221								0.0010		
AROCLOR 1232(1)									0.0120	
AROCLOR 1232(2)									0.0070	
AROCLOR 1232(3)									0.0090	
AROCLOR 1232(4)									0.0060	
AROCLOR 1232(5)									0.0080	
AROCLOR 1242(1)										0.0090
AROCLOR 1242(2)										0.0130
AROCLOR 1242(3)										0.0330
AROCLOR 1242(4)										0.01
AROCLOR 1242(5)										0.0190
AROCLOR 1248(1)										
AROCLOR 1248(2)										
AROCLOR 1248(3)										
AROCLOR 1248(4)										
AROCLOR 1248(5)										
AROCLOR 1254(1)										
AROCLOR 1254(2)										
AROCLOR 1254(3)										
AROCLOR 1254(4)										
AROCLOR 1254(5)										
AROCLOR 1262(1)										
AROCLOR 1262(2)										
AROCLOR 1262(3)										
AROCLOR 1262(4)										
AROCLOR 1262(5)										
AROCLOR 1268(1)										
AROCLOR 1268(2)										
AROCLOR 1268(3)										
AROCLOR 1268(4)										
AROCLOR 1268(5)										
File ID:	0419A_10	0419A_09	0419A_08	0419A_07	0419A_06	0419A_05	0419A_04	0419A_11	0419A_12	0419A_13

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	04/19/19 15:21
Analytical Method:	EPA-608.3		

Analyte	RRF: 1248	RRF: 1254	RRF: 1262	RRF: 1268	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					0.665427	7.77	
AROCLOR 1016(1)					0.01378	15.9	0.995
AROCLOR 1016(2)					0.021638	18.83	0.995
AROCLOR 1016(3)					0.046559	8.58	
AROCLOR 1016(4)					0.013856	9.89	
AROCLOR 1016(5)					0.017932	20.31	0.998
AROCLOR 1260(1)					0.088211	24.5	0.994
AROCLOR 1260(2)					0.090504	8.93	
AROCLOR 1260(3)					0.0611	10.96	
AROCLOR 1260(4)					0.160483	7.37	
AROCLOR 1260(5)					0.099301	8.91	
DECACHLOROBIPHENYL					1.306562	14.74	
AROCLOR 1221(1)					0.003362		
AROCLOR 1221(2)					0.005584		
AROCLOR 1221(3)					0.004745		
AROCLOR 1221(4)					0.015761		
AROCLOR 1221(5)					0.002657		
PCB 1221					0.001487		
AROCLOR 1232(1)					0.011933		
AROCLOR 1232(2)					0.007415		
AROCLOR 1232(3)					0.00887		
AROCLOR 1232(4)					0.006417		
AROCLOR 1232(5)					0.008394		
AROCLOR 1242(1)					0.008643		
AROCLOR 1242(2)					0.013204		
AROCLOR 1242(3)					0.032888		
AROCLOR 1242(4)					0.009733		
AROCLOR 1242(5)					0.018636		
AROCLOR 1248(1)	0.0070				0.006771		
AROCLOR 1248(2)	0.0150				0.014503		
AROCLOR 1248(3)	0.0250				0.025258		
AROCLOR 1248(4)	0.0140				0.014149		
AROCLOR 1248(5)	0.0140				0.013892		
AROCLOR 1254(1)		0.0210			0.020927		
AROCLOR 1254(2)		0.0470			0.04666		
AROCLOR 1254(3)		0.0510			0.051366		
AROCLOR 1254(4)		0.0340			0.033872		
AROCLOR 1254(5)		0.0610			0.06068		
AROCLOR 1262(1)			0.0540		0.053923		
AROCLOR 1262(2)			0.0940		0.093881		
AROCLOR 1262(3)			0.0630		0.063028		
AROCLOR 1262(4)			0.1730		0.172644		
AROCLOR 1262(5)			0.0570		0.056572		
AROCLOR 1268(1)				0.0520	0.052232		
AROCLOR 1268(2)				0.2170	0.217261		
AROCLOR 1268(3)				0.1460	0.145946		
AROCLOR 1268(4)				0.0710	0.070683		
AROCLOR 1268(5)				0.5350	0.535481		
File ID:	0419A_14	0419A_15	0419A_16	0419A_17			

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	04/19/19 15:21
Analytical Method:	EPA-608.3		

Analyte	**RRF: 5**	**RRF: 10**	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1221**	**RRF: 1232**	**RRF: 1242**
TETRACHLORO-M-XYLENE	0.6570	0.6310	0.6250	0.7270	0.6450	0.6970	0.81			
AROCLOR 1016(1)	0.0240	0.0220	0.0230	0.0260	0.02	0.0190	0.02			
AROCLOR 1016(2)	0.0240	0.02	0.03	0.0320	0.0260	0.0230	0.0230			
AROCLOR 1016(3)	0.0530	0.0440	0.0440	0.0480	0.04	0.04	0.0430			
AROCLOR 1016(4)	0.0130	0.0190	0.0220	0.0230	0.02	0.0170	0.0180			
AROCLOR 1016(5)	0.0160	0.0170	0.0190	0.0210	0.0170	0.0170	0.0180			
AROCLOR 1260(1)	0.0670	0.0570	0.0580	0.0640	0.05	0.0540	0.0650			
AROCLOR 1260(2)	0.0610	0.0650	0.0670	0.0730	0.0580	0.0640	0.0780			
AROCLOR 1260(3)	0.0370	0.0440	0.0390	0.0440	0.0340	0.0380	0.0470			
AROCLOR 1260(4)	0.1470	0.1350	0.1280	0.1580	0.1190	0.14	0.1750			
AROCLOR 1260(5)	0.0610	0.0580	0.0640	0.07	0.0530	0.0630	0.0820			
DECACHLOROBIPHENYL	1.1760	1.08	1.1620	1.2850	0.9380	1.20				
AROCLOR 1221(1)								0.0060		
AROCLOR 1221(2)								0.0070		
AROCLOR 1221(3)								0.0040		
AROCLOR 1221(4)								0.0180		
AROCLOR 1221(5)								0.0020		
AROCLOR 1232(1)									0.0120	
AROCLOR 1232(2)									0.0070	
AROCLOR 1232(3)									0.0070	
AROCLOR 1232(4)									0.0060	
AROCLOR 1232(5)									0.0030	
AROCLOR 1242(1)										0.01
AROCLOR 1242(2)										0.0140
AROCLOR 1242(3)										0.0330
AROCLOR 1242(4)										0.0150
AROCLOR 1242(5)										0.0090
AROCLOR 1248(1)										
AROCLOR 1248(2)										
AROCLOR 1248(3)										
AROCLOR 1248(4)										
AROCLOR 1248(5)										
AROCLOR 1254(1)										
AROCLOR 1254(2)										
AROCLOR 1254(3)										
AROCLOR 1254(4)										
AROCLOR 1254(5)										
AROCLOR 1262(1)										
AROCLOR 1262(2)										
AROCLOR 1262(3)										
AROCLOR 1262(4)										
AROCLOR 1262(5)										
AROCLOR 1268(1)										
AROCLOR 1268(2)										
AROCLOR 1268(3)										
AROCLOR 1268(4)										
AROCLOR 1268(5)										
File ID:	0419A_10	0419A_09	0419A_08	0419A_07	0419A_06	0419A_05	0419A_04	0419A_11	0419A_12	0419A_13

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	04/19/19 15:21
Analytical Method:	EPA-608.3		

Analyte	RRF: 1248	RRF: 1254	RRF: 1262	RRF: 1268	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					0.684649	9.7	
AROCLOR 1016(1)					0.022025	11.49	
AROCLOR 1016(2)					0.025353	17.29	0.998
AROCLOR 1016(3)					0.044598	10.33	
AROCLOR 1016(4)					0.018989	16.92	0.998
AROCLOR 1016(5)					0.017727	9.02	
AROCLOR 1260(1)					0.059473	10.78	
AROCLOR 1260(2)					0.06661	10.56	
AROCLOR 1260(3)					0.040398	11.12	
AROCLOR 1260(4)					0.143368	13.18	
AROCLOR 1260(5)					0.064348	14.26	
DECACHLOROBIPHENYL					1.140191	10.44	
AROCLOR 1221(1)					0.005537		
AROCLOR 1221(2)					0.007452		
AROCLOR 1221(3)					0.004423		
AROCLOR 1221(4)					0.01773		
AROCLOR 1221(5)					0.002092		
AROCLOR 1232(1)					0.012418		
AROCLOR 1232(2)					0.007113		
AROCLOR 1232(3)					0.007242		
AROCLOR 1232(4)					0.006138		
AROCLOR 1232(5)					0.003457		
AROCLOR 1242(1)					0.009765		
AROCLOR 1242(2)					0.013758		
AROCLOR 1242(3)					0.032923		
AROCLOR 1242(4)					0.01471		
AROCLOR 1242(5)					0.00888		
AROCLOR 1248(1)	0.0060				0.006198		
AROCLOR 1248(2)	0.02				0.019967		
AROCLOR 1248(3)	0.0180				0.017881		
AROCLOR 1248(4)	0.0120				0.01159		
AROCLOR 1248(5)	0.01				0.009544		
AROCLOR 1254(1)		0.0240			0.023875		
AROCLOR 1254(2)		0.0370			0.03679		
AROCLOR 1254(3)		0.03			0.030073		
AROCLOR 1254(4)		0.0290			0.028643		
AROCLOR 1254(5)		0.0460			0.046413		
AROCLOR 1262(1)			0.0360		0.035938		
AROCLOR 1262(2)			0.0630		0.063426		
AROCLOR 1262(3)			0.0450		0.045284		
AROCLOR 1262(4)			0.1420		0.141892		
AROCLOR 1262(5)			0.0480		0.048252		
AROCLOR 1268(1)				0.0380	0.037853		
AROCLOR 1268(2)				0.1740	0.174303		
AROCLOR 1268(3)				0.1340	0.133978		
AROCLOR 1268(4)				0.0620	0.061511		
AROCLOR 1268(5)				0.4060	0.406169		
File ID:	0419A_14	0419A_15	0419A_16	0419A_17			

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	04/19/19 15:21
Lab File ID:	0419A_19-1	**Analysis date/time:**	04/19/19 15:52
Analytical Method:	EPA-608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.1082	108	80 - 120
PCB 1016	0.10	0.1034	103	80 - 120
PCB 1260	0.10	0.09942	99.40	80 - 120
TETRACHLORO-M-XYLENE	0.10	0.09499	95	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	04/19/19 15:21
Lab File ID:	0419A_19-1	**Analysis date/time:**	04/19/19 15:52
Analytical Method:	EPA-608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.08526	85.30	80 - 120
PCB 1016	0.10	0.09410	94.10	80 - 120
PCB 1260	0.10	0.08636	86.40	80 - 120
TETRACHLORO-M-XYLENE	0.10	0.09664	96.60	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	04/19/19 15:21
Lab File ID:	0507_35-1	**Analysis date/time:**	05/07/19 18:14
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.09842	98.40	70 - 130
PCB 1016	0.10	0.08965	126	75 - 125
PCB 1260	0.10	0.09069	90.60	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.09753	97.50	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	04/19/19 15:21
Lab File ID:	0507_35-1	**Analysis date/time:**	05/07/19 18:14
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.1023	102	70 - 130
PCB 1016	0.10	0.08965	89.60	75 - 125
PCB 1260	0.10	0.09069	90.70	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.09105	91	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	04/19/19 15:21
Lab File ID:	0507_49-1	**Analysis date/time:**	05/07/19 21:25
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.1243	124	70 - 130
PCB 1016	0.10	0.09940	136	75 - 125
PCB 1260	0.10	0.09107	103	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.1058	106	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1095644	**Calibration (begin) date/time:**	04/19/19 12:24
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	04/19/19 15:21
Lab File ID:	0507_49-1	**Analysis date/time:**	05/07/19 21:25
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.1021	102	70 - 130
PCB 1016	0.10	0.09940	99.40	75 - 125
PCB 1260	0.10	0.09107	91.10	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.1009	101	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1095644	**Analytical Method:**	EPA-608.3
Instrument ID:	SVGC14	**Calibration Start Date:**	04/19/19 12:24
		Calibration End Date:	04/19/19 15:21

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	500	0419A_04	04/19/19 12:24	1	
CAL	200	0419A_05	04/19/19 12:37	1	
CAL	100	0419A_06	04/19/19 12:51	1	
CAL	50	0419A_07	04/19/19 13:05	1	
CAL	20	0419A_08	04/19/19 13:18	1	
CAL	10	0419A_09	04/19/19 13:32	1	
CAL	5	0419A_10	04/19/19 13:46	1	
CAL	1221	0419A_11	04/19/19 13:59	1	
CAL	1232	0419A_12	04/19/19 14:13	1	
CAL	1242	0419A_13	04/19/19 14:27	1	
CAL	1248	0419A_14	04/19/19 14:40	1	
CAL	1254	0419A_15	04/19/19 14:54	1	
CAL	1262	0419A_16	04/19/19 15:08	1	
CAL	1268	0419A_17	04/19/19 15:21	1	
SSCV	SVGC14041919A0419A_19-1470194	0419A_19-1	04/19/19 15:52	5	
ICV	SVGC140507190507_35-1470194	0507_35-1	05/07/19 18:14	5	
BLANK	R3409250-1	0507_37	05/07/19 18:41	1	WG1276791
LCS	R3409250-2	0507_38	05/07/19 18:55	1	WG1276791
WW-20190503-002 DAY 5	L1095644-01	0507_43	05/07/19 20:03	1.05	WG1276791
ICV	SVGC140507190507_49-1470194	0507_49-1	05/07/19 21:25	5	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409250-1

Lab Sample ID:	R3409250-1	**SDG:**	L1095644
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0507_37	**Received Date/Time:**	_____
Instrument ID:	SVGC14	**Preparation Date/Time:**	05/07/19 06:41
Analytical Batch:	WG1276791	**Analysis Date/Time:**	05/07/19 18:41
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA-608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
PCB 1260	11096-82-5	0	U		0.000120	0.0005	0.000500
PCB 1016	12674-11-2	0	U		0.000100	0.0005	0.000500
PCB 1221	11104-28-2	0	U		0.0000730	0.0005	0.000500
PCB 1232	11141-16-5	0	U		0.0000420	0.0005	0.000500
PCB 1242	53469-21-9	0	U		0.0000470	0.0005	0.000500
PCB 1248	12672-29-6	0	U		0.0000860	0.0005	0.000500
PCB 1254	11097-69-1	0	U		0.0000470	0.0005	0.000500
Total PCBs	1336-36-3	0	U		0.0000420	0.0005	0.000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3409250-2

Lab Sample ID:	R3409250-2	**SDG:**	L1095644
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0507_38	**Received Date/Time:**	_____
Instrument ID:	SVGC14	**Preparation Date/Time:**	05/07/19 06:41
Analytical Batch:	WG1276791	**Analysis Date/Time:**	05/07/19 18:55
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA-608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
PCB 1260	11096-82-5	6.3080	0.00189		0.0000146	0.0005	0.000500
PCB 1016	12674-11-2	4.1960	0.00167		0.0000198	0.0005	0.000500

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Su
7 Gl
8 Al
9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MQL	Method Quantitation Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

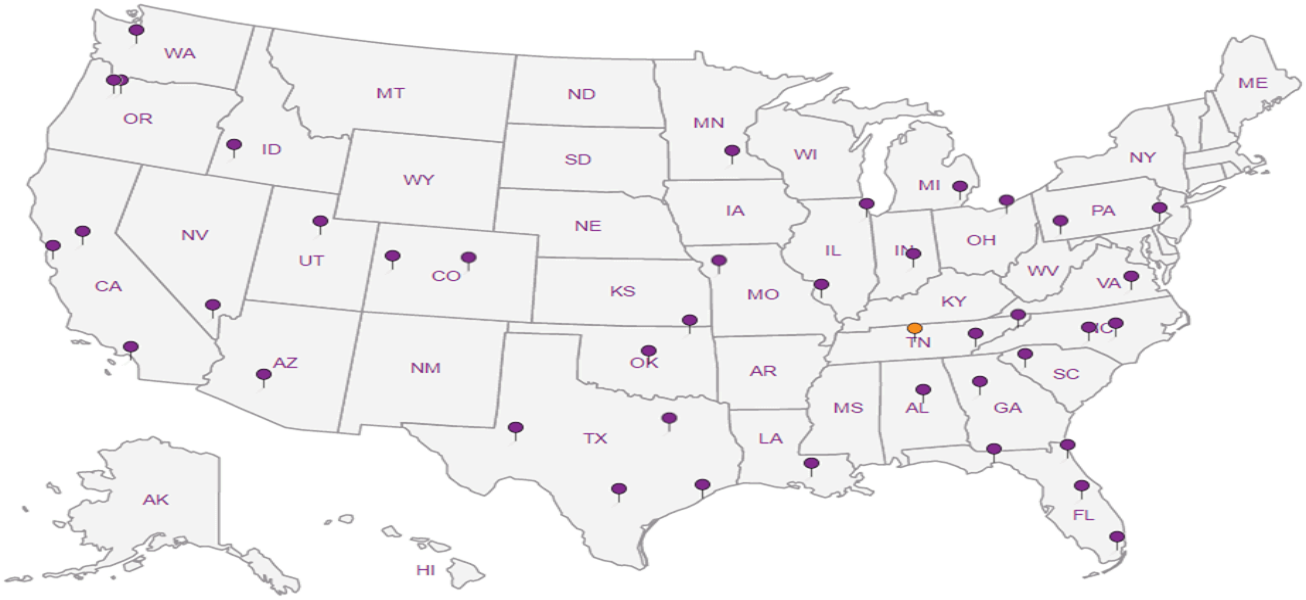
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Cardno - Newark, DE

121 Continental Drive Suite 308
Newark, DE 19713

Billing Information:
Accounts Payable
121 Continental Drive Suite 308
Newark, DE 19713

Report to: Art Saunders

Email To: Art.Saunders@cardno.com

Project Description:

City/State Collected:

Phone: 610-220-3957
Fax:

Client Project #

Lab Project # CARDNONDE-ITC

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 1 of 3

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 109 5644

Table #

Acctnum: CARDNONDE

Template: T149278

Prelogin: P704877

TSR: 034 - Craig Cothron

PB:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Extra Volume 40mlAmb-NoPres	Metals 250mlHDPE-HNO3	OGHEX 1L-Clr-Add HCl	PFAS/PFOS- ~~Sub 1L~~ 250ML HDPE-NoPres	SV8151 1L-Amb-No Pres	SV8290 1L-Amb-NoPres	Sulfide 125mlAmb-S-NaOH+ZnAc	TOC 250mlAmb-HCl	TSS 1L-HDPE-NoPres	Total Cyanide 250mlHDPEAmb-NaOH	Remarks	Sample # (lab only)
~~WW-20190502-002-Day4~~	~~Comp~~	~~WW~~		~~5/2/19~~	~~14:10~~	~~36~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		
WW-20190503-002-Day5	Comp	WW		5/3/19	14:00	10		X		X	X	X	X	X	X			01
WW-20190503-002-Day5	Grab	WW		5/3/19	14:00	2			X							X		02

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	5/3/19	0955			
Relinquished by : (Signature)	Date: 5/5/19	Time: 1930	Received by: (Signature)	Temp: °C 4.2, 0, 4.2	Bottles Received: 24
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/6/19	Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Cardno - Newark, DE

121 Continental Drive Suite 308
Newark, DE 19713

Billing Information:
Accounts Payable
121 Continental Drive Suite 308
Newark, DE 19713

Pres Chk

Report to: Art Saunders

Email To: Art.Saunders@cardno.com

Project Description:

City/State Collected:

Phone: 610-220-3957
Fax:

Client Project #

Lab Project # CARDNONDE-ITC

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1095444

Table #

Acctnum: CARDNONDE
Template: T149278
Prelogin: P704877
TSR: 034 - Craig Cothron
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	***CBOD*** 500mlHDPE-NoPres	***CR6, TDS*** 250mlHDPE-NoPres	8081/8082 100ml Amb-NoPres	8141 100ml Amb NoPres	8270AP9 100ml Amb NoPres	COD, NH3, PT, TKN 250mlHDPE-H2SO4	COLILERT Microbiological	Chloride, pH, CHLORR 250mlHDPE-NoPres	Ethylene Glycol 40mlAmb-NoPres	Extra Volume 1L-Amb-No Pres	Remarks	Sample # (lab only)
~~GW~~						~~36~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		
WW-20190503-002-DAYS	Comp	WW		5/3/19	14:00	10		X	X	X	X	X		X				61

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	5/4/19	0955			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
	5/5/19	1930		4.2 24	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: / Condition: NCF / OK
				5/6/19 0945	

Cardno - Newark, DE

121 Continental Drive Suite 308
Newark, DE 19713

Billing Information:
Accounts Payable
121 Continental Drive Suite 308
Newark, DE 19713

Pres Chk

Report to: Art Saunders

Email To: Art.Saunders@cardno.com

Project Description:

City/State Collected:

Phone: 610-220-3957
Fax:

Client Project #

Lab Project # CARDNONDE-ITC

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 3 of 3

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1095644

Table #

Acctnum: CARDNONDE
Template: T149278
Prelogin: P704877
TSR: 034 - Craig Cothron
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260AP9 40mlAmb-HCl	Ethylene Glycol 40mL Amb No PRES	1,2-Dibromoethane, 8011 40mL Amb No PRES							Remarks	Sample # (lab only)
		GW				36	X										
WW-20190503-002-Day5-A	Comp	WW		5/3/19	14:00	3	X	X	X								03
WW-20190503-002-Day5-B	Comp	WW		5/3/19	14:00	3	X	X	X								04
WW-20190503-002-Day5-C	Comp	WW		5/3/19	14:00	3	X	X	X								05
WW-20190503-002-Day5-D	Comp	WW		5/3/19	14:00	3	X	X	X								06

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N

Relinquished by : (Signature)	Date: 5/6/19	Time: 0955	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature)	Date: 5/5/19	Time: 1930	Received by: (Signature)	Temp: 4.2 °C Bottles Received: 24	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/6/19 Time: 0945	Hold: Condition: NCF / OK