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National Center for Testing & Innovation

ANALYTICAL REPORT

May 30, 2019

Cardno - Newark, DE

Sample Delivery Group:	L1098374
Samples Received:	05/14/2019
Project Number:	
Description:	
Report To:	Art Saunders 121 Continental Drive Suite 308 Newark, DE 19713

Entire Report Reviewed By:

Craig Cothron
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

90016276

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LCS(R3412206-2) WG1282468 05/16/19 16:20 BNAMS19 414
LCSD(R3412206-3) WG1282468 05/16/19 16:41 BNAMS19 416
8015M SVOC-GC-GLYCOLS 419
Surrogate Recovery 419
GW Surrogate Summary 419
WW Surrogate Summary 420
Laboratory Control Sample / Duplicate 421
WG1281711 LCS(R3411978-2) LCSD(R3411978-3) 421
Method Blank 422
WG1281711 R3411978-1 SVGC10 05/16/19 11:47 422

Sample Result Summary Organic Analysis Data Sheet **423**

L1098374-01 05/16/19 17:58 SVGC10 423

Retention Time of Single Component Analytes **424**

SVGC10 01/15/19 00:04 424

Calibration Factor of Single Component Analytes **425**

SVGC10 01/15/19 00:04 425

Calibration Verification Single Component Analytes **426**

SVGC10 01/15/19 01:34 426

SVGC10 05/16/19 11:11 427

SVGC10 05/16/19 12:40 428

SVGC10 05/16/19 15:03 429

SVGC10 05/16/19 17:22 430

SVGC10 05/16/19 18:34 431

Analytical Sequence **432**

SVGC10 01/15/19 00:04 432

QC Result Summary Organic Analysis Data Sheet **433**

BLANK(R3411978-1) WG1281711 05/16/19 11:47 SVGC10 433

LCS(R3411978-2) WG1281711 05/16/19 12:04 SVGC10 434

LCSD(R3411978-3) WG1281711 05/16/19 12:22 SVGC10 435

8151 Chlorinated Acid Herbicides (GC) **437**

Surrogate Recovery **437**

WW Surrogate Summary 437

Laboratory Control Sample / Duplicate **438**

WG1281335 LCS(R3412833-2) LCSD(R3412833-3) 438

Method Blank **439**

WG1281335 R3412833-1 SVGC11 05/17/19 21:26 439

Sample Result Summary Organic Analysis Data Sheet **440**

L1098374-01 05/17/19 22:36 SVGC11 440

Retention Time of Single Component Analytes **441**

SVGC11-1 05/17/19 19:36 441

SVGC11-2 05/17/19 19:36 442

Calibration Factor of Single Component Analytes **443**

SVGC11-1 05/17/19 19:36 443

SVGC11-2 05/17/19 19:36 445

Calibration Verification of Dual Column Analytes **447**

SVGC11-1 05/17/19 20:58 447

SVGC11-2 05/17/19 20:58 448

SVGC11-1 05/18/19 00:26 449

SVGC11-2 05/18/19 00:26 450

Analytical Sequence **451**

SVGC11 05/17/19 19:36 451

Single Component Analysis Identification 452

BLANK(R3412833-1) WG1281335 05/17/19 21:26 SVGC11 452

LCS(R3412833-2) WG1281335 05/17/19 21:40 SVGC11 453

LCSD(R3412833-3) WG1281335 05/17/19 21:54 SVGC11 454

QC Result Summary Organic Analysis Data Sheet 455

BLANK(R3412833-1) WG1281335 05/17/19 21:26 SVGC11 455

LCS(R3412833-2) WG1281335 05/17/19 21:40 SVGC11 456

LCSD(R3412833-3) WG1281335 05/17/19 21:54 SVGC11 457

Calc. Calculated Results 459

Sample Result Inorganic Analysis Data Sheet 459

L1098374-01 05/23/19 05:57 NONE 459

EPA 608.3 Pesticides (GC) 461

Surrogate Recovery 461

WW Surrogate Summary 461

GW Surrogate Summary 462

Matrix Spike / Duplicate 463

WG1280965 MS(R3411789-3) MSD(R3411789-4) 463

Laboratory Control Sample / Duplicate 464

WG1280965 LCS(R3411789-1) 464

Method Blank 465

WG1280965 R3411789-2 SVGC24 05/15/19 15:38 465

Internal Standard & Retention Time 466

SVGC24 AVG 466

Sample Result Summary Organic Analysis Data Sheet 467

L1098374-01 05/15/19 17:21 SVGC24 467

Retention Time of Single Component Analytes 468

SVGC24-1 05/14/19 15:05 468

SVGC24-2 05/14/19 15:05 470

Calibration Factor of Single Component Analytes 472

SVGC24-1 05/14/19 15:05 472

SVGC24-2 05/14/19 15:05 475

Pesticides Breakdown 478

SVGC24 05/15/19 14:09 478

Calibration Verification of Dual Column Analytes 479

SVGC24-1 05/14/19 17:18 479

SVGC24-2 05/14/19 17:18 480

SVGC24-1 05/15/19 14:24 481

SVGC24-2 05/15/19 14:24 482

SVGC24-1 05/15/19 14:39 483

SVGC24-2 05/15/19 14:39 484
SVGC24-1 05/15/19 14:54 485
SVGC24-2 05/15/19 14:54 486
Analytical Sequence 487
SVGC24 05/14/19 15:05 487
Single Component Analysis Identification 488
BLANK(R3411789-2) WG1280965 05/15/19 15:38 SVGC24 488
LCS(R3411789-1) WG1280965 05/15/19 15:23 SVGC24 489
MS(R3411789-3) WG1280965 05/15/19 17:51 SVGC24 490
MSD(R3411789-4) WG1280965 05/15/19 18:05 SVGC24 491
QC Result Summary Organic Analysis Data Sheet 492
BLANK(R3411789-2) WG1280965 05/15/19 15:38 SVGC24 492
LCS(R3411789-1) WG1280965 05/15/19 15:23 SVGC24 493
MS(R3411789-3) WG1280965 05/15/19 17:51 SVGC24 494
MSD(R3411789-4) WG1280965 05/15/19 18:05 SVGC24 495
EPA-608.3 Polychlorinated Biphenyls (GC) 497
Surrogate Recovery 497
WW Surrogate Summary 497
GW Surrogate Summary 498
Laboratory Control Sample / Duplicate 499
WG1280965 LCS(R3411824-2) 499
Method Blank 500
WG1280965 R3411824-1 SVGC14 05/15/19 18:48 500
Internal Standard & Retention Time 501
SVGC14 AVG 501
Sample Result Summary Organic Analysis Data Sheet 502
L1098374-01 05/15/19 21:18 SVGC14 502
Retention Time of Multicomponent Analytes 503
SVGC14-1 05/08/19 13:41 503
SVGC14-2 05/08/19 13:41 505
Calibration Factor of Multicomponent Analytes 507
SVGC14-1 05/08/19 13:41 507
SVGC14-2 05/08/19 13:41 509
Calibration Verification of Dual Column Analytes 511
SVGC14-1 05/08/19 17:05 511
SVGC14-2 05/08/19 17:05 512
SVGC14-1 05/15/19 18:21 513
SVGC14-2 05/15/19 18:21 514
Analytical Sequence 515
SVGC14 05/08/19 13:41 515

QC Result Summary Organic Analysis Data Sheet 516
BLANK(R3411824-1) WG1280965 05/15/19 18:48 SVGC14 516
LCS(R3411824-2) WG1280965 05/15/19 19:01 SVGC14 517
Gl: Glossary of Terms 518
Al: Accreditations & Locations 519
Sc: Sample Chain of Custody 520

WW-20190512-002-DAY 10 L1098374-01 WW

Collected by	Collected date/time	Received date/time
CP / BF	05/12/19 11:30	05/14/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1282738	1	05/23/19 05:57	05/23/19 05:57	BRJ	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG1280963	1	05/16/19 15:46	05/16/19 18:26	MMF	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG1282034	1	05/16/19 14:47	05/16/19 16:06	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1280643	10	05/14/19 14:11	05/14/19 14:11	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1285025	1	05/23/19 05:57	05/23/19 05:57	BRJ	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG1281798	1	05/14/19 15:46	05/17/19 10:27	SDL	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG1280857	1	05/14/19 15:46	05/15/19 18:35	SDL	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG1281275	1	05/15/19 09:00	05/15/19 14:09	BAM	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1280557	1	05/14/19 15:59	05/14/19 15:59	BAM	Mt. Juliet, TN
Wet Chemistry by Method 5310 B-2011	WG1280564	1	05/14/19 19:43	05/14/19 19:43	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1280972	1	05/15/19 13:42	05/16/19 23:19	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1280881	1	05/14/19 21:44	05/14/19 21:44	DWR	Mt. Juliet, TN
EDB / DBCP by Method 504.1	WG1281300	1	05/15/19 09:07	05/16/19 03:56	HMH	Mt. Juliet, TN
SVOC-GC-GLYCOLS by Method 8015M	WG1281711	1	05/16/19 09:53	05/16/19 17:58	ADF	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG1281335	1.02	05/15/19 12:06	05/17/19 22:36	KLM	Mt. Juliet, TN
OP Pesticides by Method 1657M	WG1280946	1	05/15/19 07:31	05/15/19 15:27	KLM	Mt. Juliet, TN
Pesticides (GC) by Method EPA 608.3	WG1280965	1	05/15/19 07:16	05/15/19 17:21	LEL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG1280965	1	05/15/19 07:16	05/15/19 21:18	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1282468	1	05/16/19 07:05	05/16/19 17:43	ADF	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1282468	1	05/16/19 07:05	05/16/19 17:43	SNR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1282468	1	05/16/19 07:05	05/17/19 11:02	SNR	Mt. Juliet, TN

WW-20190512-002-DAY 10 L1098374-02 WW

Collected by	Collected date/time	Received date/time
CP / BF	05/12/19 11:30	05/14/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 1664A	WG1281725	1	05/16/19 11:05	05/16/19 15:38	DAD	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1281033	1	05/15/19 13:57	05/15/19 19:24	SDL	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: 05/30/2019 10:51
Project Name:	Laboratory Job Number: L1098374-01 and 02
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1280557, WG1280564, WG1280643, WG1281275, WG1280881, WG1280857, WG1281033, WG1280946, WG1280965, WG1281300, WG1281711, WG1281725, WG1280972, WG1281798, WG1282468, WG1282034, WG1280963, WG1281335, WG1285025 and WG1282738

#[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			1
		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				
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				
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			4
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: 05/30/2019 10:51
Project Name:	Laboratory Job Number: L1098374-01 and 02
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1280557, WG1280564, WG1280643, WG1281275, WG1280881, WG1280857, WG1281033, WG1280946, WG1280965, WG1281300, WG1281711, WG1281725, WG1280972, WG1281798, WG1282468, WG1282034, WG1280963, WG1281335, WG1285025 and WG1282738

#[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				
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: 05/30/2019 10:51
Project Name:	Laboratory Job Number: L1098374-01 and 02
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1280557, WG1280564, WG1280643, WG1281275, WG1280881, WG1280857, WG1281033, WG1280946, WG1280965, WG1281300, WG1281711, WG1281725, WG1280972, WG1281798, WG1282468, WG1282034, WG1280963, WG1281335, WG1285025 and WG1282738

ER #[1]	Description
1	WG1285025 R3413959-6 and 7: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
2	625.1 WG1282468 Hexachlorophene: Percent Recovery is outside of established control limits. 200.8 WG1280972 Antimony: Percent Recovery is outside of established control limits.
3	350.1 WG1285025 Ammonia Nitrogen: Percent Recovery is outside of established control limits.
4	351.2 WG1281798 Kjeldahl Nitrogen, TKN: Relative Percent Difference is outside of established control limits. 2540 C-2011 WG1282034 Suspended Solids: Relative Percent Difference is 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).

1657M OP Pesticides

2A-OR

SURROGATE RECOVERY

Analytical Method: 1657M **SDG:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
WW-20190512-002 -DAY 10	L1098374-01	SVGC12	0515_07	95.6	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Triphenyl Phosphate	42.0 - 129

*: 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: 1657M **SDG:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
MS	R3411764-3	SVGC12	0515_08	103	0
MSD	R3411764-4	SVGC12	0515_09	96.6	0
BLANK	R3411764-1	SVGC12	0515_03	81.2	0
LCS	R3411764-2	SVGC12	0515_05	97.6	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Triphenyl Phosphate	42.0 - 129

*: 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

L1098374-01

SAMPLE NO.:
R3411764-3
R3411764-4

MS Sample / File ID:	R3411764-3 / 0515_08	**SDG:**	L1098374
MSD Sample / File ID:	R3411764-4 / 0515_09	**Analytical Batch:**	WG1280946
OS Sample / File ID:	L1098374-01 / 0515_07	**Matrix:**	WW
Instrument ID:	SVGC12		
Analytical Method:	1657M		

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*	*%*	*%*		*%*	*%*	*%*
Azinphos-Methyl	0.00500	U	0.00472	0.00449	94.4	89.8	1	29.0 - 157	4.99	20
Chlorpyrifos	0.00500	U	0.00475	0.00457	95.0	91.4	1	42.0 - 131	3.86	20
Demeton,-O and -S	0.00250	U	0.00237	0.00220	94.8	88.0	1	30.0 - 152	7.44	20
Diazinon	0.00500	U	0.00495	0.00461	99.0	92.2	1	47.0 - 134	7.11	20
Malathion	0.00500	U	0.00467	0.00464	93.4	92.8	1	39.0 - 126	0.644	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

L1098374-01

SAMPLE NO.:
R3411764-2

LCS Sample / File ID:	R3411764-2 / 0515_05	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280946
Instrument ID:	SVGC12	**Dilution Factor:**	1
Analytical Method:	1657M	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Azinphos-Methyl	0.00500	0.00436		87.2		43.0 - 142		
Chlorpyrifos	0.00500	0.00445		89.0		50.0 - 126		
Demeton,-O and -S	0.00250	0.00217		86.8		22.0 - 150		
Diazinon	0.00500	0.00464		92.8		54.0 - 130		
Malathion	0.00500	0.00449		89.8		47.0 - 121		

*: 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.:
R3411764-1

Lab Sample ID:	R3411764-1	**SDG:**	L1098374
Lab File ID:	0515_03	**Preparation Date/Time:**	05/15/19 07:28
Instrument ID:	SVGC12	**Analysis Date/Time:**	05/15/19 13:20
Analytical Batch:	WG1280946	**Dilution Factor:**	1
Analytical Method:	1657M	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3411764-2	SVGC12	0515_05	05/15/19 14:24
WW-20190512-002-DAY 10	L1098374-01	SVGC12	0515_07	05/15/19 15:27
WW-20190512-002-DAY 10	L1098374-01	SVGC12	0515_07	05/15/19 15:27
MS	R3411764-3	SVGC12	0515_08	05/15/19 15:59
MSD	R3411764-4	SVGC12	0515_09	05/15/19 16:30

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1098374	**Analytical Method:**	1657M
Instrument ID:	SVGC12	**Calibration Start Date:**	05/14/19 22:09
Std File:	AVG	**Calibration End Date:**	05/15/19 01:51
		Std Analysis Date:	AVG

Sample ID	File ID	TBP	
		Response	*RT*
STANDARD		1648888750	15.17
UPPER LIMIT		64690800	
LOWER LIMIT		21563600	
BLANK R3411764-1 WG1280946 1x	0515_03	1161608000	15.19
LCS R3411764-2 WG1280946 1x	0515_05	1293828000	15.19
L1098374-01 WG1280946 1x	0515_07	1373127000	15.19
OS L1098374-01 WG1280946 1x	0515_07	1373127000	15.19
MS R3411764-3 WG1280946 1x	0515_08	1297806000	15.19
MSD R3411764-4 WG1280946 1x	0515_09	1271601000	15.19

TBP - TRIBUTYL PHOSPHATE

*: 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-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0515_07	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/15/19 07:31
Analytical Batch:	WG1280946	**Analysis Date/Time:**	05/15/19 15:27
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
Azinphos-Methyl	86-50-0	0	U		0.000140	0.00100	0.00100
Chlorpyrifos	2921-88-2	0	U		0.000133	0.00100	0.00100
Diazinon	333-41-5	0	U		0.000377	0.00100	0.00100
Demeton,-O and -S	8065-48-3	0	U		0.0000680	0.00200	0.00200
Malathion	121-75-5	0	U		0.000116	0.00100	0.00100

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/15/19 01:51
Analytical Method:	1657M		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	15.86	15.86	15.85	15.85	15.85	15.86	15.86	15.87
DEMETON,-O AND -S	16.76	16.76	16.75	16.75	16.75	16.75	16.75	16.76
CHLORPYRIFOS	20.18	20.18	20.18	20.18	20.17	20.18	20.18	20.19
MALATHION	22.12	22.12	22.11	22.11	22.11	22.12	22.12	22.13
AZINPHOS-METHYL	26.99	26.99	26.99	26.99	26.99	26.99	26.99	26.99
TRIPHENYL PHOSPHATE	26.13	26.13	26.12	26.13	26.12	26.12	26.13	26.13
File ID:	0514A_02	0514A_03	0514A_04	0514A_05	0514A_06	0514A_07	0514A_08	0514A_09

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/15/19 01:51
Analytical Method:	1657M		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	18.15	18.15	18.15	18.15	18.15	18.16	18.16	18.17
DEMETON,-O AND -S	16.84	16.83	16.83	16.83	16.82	16.83	16.83	
CHLORPYRIFOS	22.64	22.64	22.64	22.64	22.64	22.64	22.65	22.66
MALATHION	22.48	22.49	22.48	22.49	22.49	22.50	22.50	22.53
AZINPHOS-METHYL	27.41	27.41	27.41	27.41	27.41	27.41	27.41	27.41
TRIPHENYL PHOSPHATE	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.71
File ID:	0514A_02	0514A_03	0514A_04	0514A_05	0514A_06	0514A_07	0514A_08	0514A_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/15/19 01:51
Analytical Method:	1657M		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	0.7920	0.9070	0.81	1.0430	0.8730	0.7690	0.7450	0.6880
DEMETON,-O AND -S	1.2050	1.2890	1.2320	1.6460	1.4340	1.3520	1.4240	1.3740
CHLORPYRIFOS	0.6950	0.8530	0.75	0.98	0.8190	0.7290	0.71	0.6260
MALATHION	0.5960	0.6580	0.6030	0.7810	0.6690	0.5990	0.60	0.6130
AZINPHOS-METHYL	0.4290	0.5130	0.4870	0.6740	0.57	0.5250	0.5140	0.4420
TRIPHENYL PHOSPHATE	0.5720	0.6380	0.5890	0.7590	0.6450	0.5820	0.5840	0.5310
File ID:	0514A_02	0514A_03	0514A_04	0514A_05	0514A_06	0514A_07	0514A_08	0514A_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/15/19 01:51
Analytical Method:	1657M		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.828285	13.4	
DEMETON,-O AND -S	1.36952	10.2	
CHLORPYRIFOS	0.770158	14.33	
MALATHION	0.6398	9.94	
AZINPHOS-METHYL	0.519153	14.88	
TRIPHENYL PHOSPHATE	0.612714	11.33	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/15/19 01:51
Analytical Method:	1657M		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	0.8960	1.0280	0.7960	1.0260	0.88	0.7860	0.8210	0.8280
DEMETON,-O AND -S	3.0340	1.7960	1.4340	1.5950	1.3450	1.3270	1.2980	
CHLORPYRIFOS	0.9980	0.9190	0.7260	0.9380	0.8130	0.7660	0.7950	0.7920
MALATHION	0.8690	0.7820	0.6330	0.7870	0.6760	0.6560	0.6810	0.69
AZINPHOS-METHYL	0.6560	0.7970	0.7650	0.94	0.7940	0.7240	0.7530	0.7590
TRIPHENYL PHOSPHATE	1.1210	1.1790	0.9470	1.2140	1.0320	0.98	1.0150	1.0240
File ID:	0514A_02	0514A_03	0514A_04	0514A_05	0514A_06	0514A_07	0514A_08	0514A_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/15/19 01:51
Analytical Method:	1657M		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.882616	10.98	
DEMETON,-O AND -S	1.689925	36.6	0.998
CHLORPYRIFOS	0.843277	11.35	
MALATHION	0.72178	11.28	
AZINPHOS-METHYL	0.773571	10.42	
TRIPHENYL PHOSPHATE	1.063928	9.03	

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/15/19 01:51
Lab File ID:	0514A_11-1	**Analysis date/time:**	05/15/19 02:54
Analytical Method:	1657M	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.039	102	70 - 130
CHLORPYRIFOS	2	2.031	102	70 - 130
DEMETON,-O AND -S	1	1.116	112	70 - 130
DIAZINON	2	2.053	103	70 - 130
MALATHION	2	2.057	103	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/15/19 01:51
Lab File ID:	0514A_11-1	**Analysis date/time:**	05/15/19 02:54
Analytical Method:	1657M	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.054	103	70 - 130
CHLORPYRIFOS	2	2.065	103	70 - 130
DEMETON,-O AND -S	1	1.093	109	70 - 130
DIAZINON	2	2.024	101	70 - 130
MALATHION	2	2.019	101	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/15/19 01:51
Lab File ID:	0515_02-1	**Analysis date/time:**	05/15/19 12:49
Analytical Method:	1657M	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.324	116	85 - 115
CHLORPYRIFOS	2	2.267	113	85 - 115
DEMETON,-O AND -S	1	1.081	108	85 - 115
DIAZINON	2	2.235	112	85 - 115
MALATHION	2	2.201	110	85 - 115
TRIPHENYL PHOSPHATE	2	2.242	112	85 - 115

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 22:09
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/15/19 01:51
Lab File ID:	0515_02-1	**Analysis date/time:**	05/15/19 12:49
Analytical Method:	1657M	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.039	102	85 - 115
CHLORPYRIFOS	2	1.936	96.80	85 - 115
DEMETON,-O AND -S	1	1.006	101	85 - 115
DIAZINON	2	2.073	104	85 - 115
MALATHION	2	1.967	98.30	85 - 115
TRIPHENYL PHOSPHATE	2	1.914	95.70	85 - 115

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1098374	**Analytical Method:**	1657M
Instrument ID:	SVGC12	**Calibration Start Date:**	05/14/19 22:09
		Calibration End Date:	05/15/19 01:51

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	100	0514A_02	05/14/19 22:09	1	
CAL	200	0514A_03	05/14/19 22:41	1	
CAL	500	0514A_04	05/14/19 23:12	1	
CAL	1000	0514A_05	05/14/19 23:44	1	
CAL	2000	0514A_06	05/15/19 00:16	1	
CAL	5000	0514A_07	05/15/19 00:47	1	
CAL	10000	0514A_08	05/15/19 01:19	1	
CAL	20000	0514A_09	05/15/19 01:51	1	
SSCV	SVGC12051419A0514A_11-1471967	0514A_11-1	05/15/19 02:54	1	
ICV	SVGC120515190515_02-1471967	0515_02-1	05/15/19 12:49	1	
BLANK	R3411764-1	0515_03	05/15/19 13:20	1	WG1280946
LCS	R3411764-2	0515_05	05/15/19 14:24	1	WG1280946
WW-20190512-002-DAY 10	L1098374-01	0515_07	05/15/19 15:27	1	WG1280946
MS	R3411764-3	0515_08	05/15/19 15:59	1	WG1280946
MSD	R3411764-4	0515_09	05/15/19 16:30	1	WG1280946

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3411764-1

Lab Sample ID:	R3411764-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0515_03	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/15/19 07:28
Analytical Batch:	WG1280946	**Analysis Date/Time:**	05/15/19 13:20
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Azinphos-Methyl	1	0	U	0
Chlorpyrifos	1	0	U	0
Demeton,-O and -S	1	0	U	0
Diazinon	1	0	U	0
Malathion	1	0	U	0

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3411764-2

Lab Sample ID:	R3411764-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0515_05	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/15/19 07:28
Analytical Batch:	WG1280946	**Analysis Date/Time:**	05/15/19 14:24
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Azinphos-Methyl	1	26.99	0.00436	10.5
Chlorpyrifos	1	20.21	0.00445	6.26
Demeton,-O and -S	1	16.78	0.00217	28.3
Diazinon	1	15.88	0.00464	1.3
Malathion	1	22.14	0.00449	3.63

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3411764-3

Lab Sample ID:	R3411764-3	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0515_08	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/15/19 07:31
Analytical Batch:	WG1280946	**Analysis Date/Time:**	05/15/19 15:59
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Azinphos-Methyl	1	26.99	0.00472	8.99
	2	27.41	0.00431	
Chlorpyrifos	1	20.21	0.00475	9.62
	2	22.66	0.00431	
Demeton,-O and -S	1	16.78	0.00237	40.6
	2	16.85	0.00157	
Diazinon	1	15.88	0.00495	6.96
	2	18.18	0.00462	
Malathion	1	22.14	0.00467	2.34
	2	22.52	0.00456	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3411764-4

Lab Sample ID:	R3411764-4	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0515_09	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/15/19 07:31
Analytical Batch:	WG1280946	**Analysis Date/Time:**	05/15/19 16:30
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Azinphos-Methyl	1	26.99	0.00449	9.39
	2	27.41	0.00409	
Chlorpyrifos	1	20.21	0.00457	9.3
	2	22.66	0.00416	
Demeton,-O and -S	1	16.78	0.00220	27.4
	2	16.86	0.00167	
Diazinon	1	15.88	0.00461	.674
	2	18.18	0.00458	
Malathion	1	22.14	0.00464	11.3
	2	22.51	0.00414	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411764-1

Lab Sample ID:	R3411764-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0515_03	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/15/19 07:28
Analytical Batch:	WG1280946	**Analysis Date/Time:**	05/15/19 13:20
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Azinphos-Methyl	86-50-0	0	U		0.000140	0.0010	0.00100
Chlorpyrifos	2921-88-2	0	U		0.000133	0.0010	0.00100
Demeton,-O and -S	8065-48-3	0	U		0.0000680	0.0020	0.00200
Diazinon	333-41-5	0	U		0.000377	0.0010	0.00100
Malathion	121-75-5	0	U		0.000116	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411764-2

Lab Sample ID:	R3411764-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0515_05	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/15/19 07:28
Analytical Batch:	WG1280946	**Analysis Date/Time:**	05/15/19 14:24
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Azinphos-Methyl	86-50-0	26.99	0.00436		0.000140	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.21	0.00445		0.000133	0.0010	0.00100
Demeton,-O and -S	8065-48-3	16.78	0.00217		0.0000680	0.0020	0.00200
Diazinon	333-41-5	15.88	0.00464		0.000377	0.0010	0.00100
Malathion	121-75-5	22.14	0.00449		0.000116	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411764-3

Lab Sample ID:	R3411764-3	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0515_08	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/15/19 07:31
Analytical Batch:	WG1280946	**Analysis Date/Time:**	05/15/19 15:59
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Azinphos-Methyl	86-50-0	26.99	0.00472		0.000140	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.21	0.00475		0.000133	0.0010	0.00100
Demeton,-O and -S	8065-48-3	16.78	0.00237		0.0000680	0.0020	0.00200
Diazinon	333-41-5	15.88	0.00495		0.000377	0.0010	0.00100
Malathion	121-75-5	22.14	0.00467		0.000116	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411764-4

Lab Sample ID:	R3411764-4	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0515_09	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/15/19 07:31
Analytical Batch:	WG1280946	**Analysis Date/Time:**	05/15/19 16:30
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Azinphos-Methyl	86-50-0	26.99	0.00449		0.000140	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.21	0.00457		0.000133	0.0010	0.00100
Demeton,-O and -S	8065-48-3	16.78	0.00220		0.0000680	0.0020	0.00200
Diazinon	333-41-5	15.88	0.00461		0.000377	0.0010	0.00100
Malathion	121-75-5	22.14	0.00464		0.000116	0.0010	0.00100

1664A Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-02	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/16/19 11:05
Analytical Batch:	WG1281725	**Analysis Date/Time:**	05/16/19 15:38
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	880 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		1.32	5.68	5.68

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411981-1

Lab Sample ID:	R3411981-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/16/19 11:03
Analytical Batch:	WG1281725	**Analysis Date/Time:**	05/16/19 15:38
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.:
R3411981-2

Lab Sample ID:	R3411981-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	04	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/16/19 11:03
Analytical Batch:	WG1281725	**Analysis Date/Time:**	05/16/19 14:57
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)		36.9		1.16	5	5.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411981-3

Lab Sample ID:	R3411981-3	**SDG:**	L1098374
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	05	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/16/19 11:03
Analytical Batch:	WG1281725	**Analysis Date/Time:**	05/16/19 14:57
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)		35.2		1.16	5	5.00

3-IN BLANKS

SDG:	L1098374	**Calibration (begin) date/time:**	_____
Instrument ID:	OGBAL1	**Calibration (end) date/time:**	_____
Analytical Method:	1664A	**Analytical Run:**	WG1281725

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

L1098374-02

SAMPLE NO.:
R3411981-2
R3411981-3

LCS Sample / File ID:	R3411981-2 / 04	**SDG:**	L1098374
LCSD Sample / File ID:	R3411981-3 / 05	**Analytical Batch:**	WG1281725
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	36.9	35.2	92.3	88.0	78.0 - 114	4.72	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:	L1098374	**Analytical Method:**	1664A
Instrument ID:	OGBAL1	**Calibration Start Date:**	_____
Analytical Run:	WG1281725	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
LCS	R3411981-2	04	05/16/19 14:57	1	WG1281725
LCSD	R3411981-3	05	05/16/19 14:57	1	WG1281725
BLANK	R3411981-1	01	05/16/19 15:38	1	WG1281725
WW-20190512-002-DAY 10	L1098374-02	20	05/16/19 15:38	1	WG1281725

200.8 Metals (ICPMS)

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190516231901	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/15/19 13:42
Analytical Batch:	WG1280972	**Analysis Date/Time:**	05/16/19 23:19
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	0.00109	J J4	0.000754	0.00200	0.00200
Arsenic	7440-38-2	0.00264		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	0.000740	J	0.000270	0.00200	0.00200
Copper	7440-50-8	0.00558		0.000270	0.00100	0.00100
Lead	7439-92-1	U		0.000260	0.00100	0.00100
Nickel	7440-02-0	0.00348		0.000320	0.00100	0.00100
Selenium	7782-49-2	U		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	0.000242	J	0.000240	0.00100	0.00100
Zinc	7440-66-6	0.00663	J	0.00191	0.0100	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412176-1

Lab Sample ID:	R3412176-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190516192906	**Received Date/Time:**	_____
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/15/19 13:41
Analytical Batch:	WG1280972	**Analysis Date/Time:**	05/16/19 19:29
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
Copper	7440-50-8	U		0.000270	0.0010	0.00100
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.:
R3412176-2

Lab Sample ID:	R3412176-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190516193340	**Received Date/Time:**	_____
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/15/19 13:41
Analytical Batch:	WG1280972	**Analysis Date/Time:**	05/16/19 19:33
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	0.0611	J4	0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0485		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0545		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0459		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0462		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0454		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0505		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0465		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0515		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0534		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0500		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0521		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0488		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412176-3

Lab Sample ID:	R3412176-3	**SDG:**	L1098374
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	20190516193815	**Received Date/Time:**	_____
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/15/19 13:41
Analytical Batch:	WG1280972	**Analysis Date/Time:**	05/16/19 19:38
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	0.0609	J4	0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0456		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0537		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0432		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0440		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0450		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0503		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0432		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0492		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0530		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0494		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0522		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0472		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412176-5

Lab Sample ID:	R3412176-5	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/08/19 10:30
Lab File ID:	20190516195214	**Received Date/Time:**	05/09/19 08:00
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/15/19 13:42
Analytical Batch:	WG1280972	**Analysis Date/Time:**	05/16/19 19:52
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	0.0945		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0462		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0547		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0428		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0434		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0517		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0508		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0436		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0552		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0543		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0490		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0541		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0648		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412176-7

Lab Sample ID:	R3412176-7	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 09:25
Lab File ID:	20190516200614	**Received Date/Time:**	05/10/19 08:45
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/15/19 13:42
Analytical Batch:	WG1280972	**Analysis Date/Time:**	05/16/19 20:06
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	0.0620		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0448		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0531		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0435		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0412		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0445		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0496		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0420		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0554		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0522		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0496		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0538		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0439		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412176-6

Lab Sample ID:	R3412176-6	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/08/19 10:30
Lab File ID:	20190516195649	**Received Date/Time:**	05/09/19 08:00
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/15/19 13:42
Analytical Batch:	WG1280972	**Analysis Date/Time:**	05/16/19 19:56
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	0.0913		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0445		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0521		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0418		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0418		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0494		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0496		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0429		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0531		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0527		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0473		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0531		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0633		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412176-8

Lab Sample ID:	R3412176-8	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 09:25
Lab File ID:	20190516201049	**Received Date/Time:**	05/10/19 08:45
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/15/19 13:42
Analytical Batch:	WG1280972	**Analysis Date/Time:**	05/16/19 20:10
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	0.0616		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0442		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0515		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0424		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0406		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0426		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0485		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0414		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0592		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0522		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0488		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0533		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0448		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412176-4

Lab Sample ID:	R3412176-4	**SDG:**	L1098374
Client Sample ID:	SD	**Collected Date/Time:**	05/08/19 10:30
Lab File ID:	20190516194724	**Received Date/Time:**	05/09/19 08:00
Instrument ID:	ICPMS10	**Preparation Date/Time:**	05/15/19 13:42
Analytical Batch:	WG1280972	**Analysis Date/Time:**	05/16/19 19:47
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	0.0289		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	ND		0.00135	0.0020	0.0100
Copper	7440-50-8	0.00698		0.00135	0.0010	0.00500
Lead	7439-92-1	ND		0.00130	0.0010	0.00500
Nickel	7440-02-0	ND		0.00160	0.0010	0.00500
Selenium	7782-49-2	ND		0.00160	0.0020	0.0100
Silver	7440-22-4	0.00110		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	0.0232		0.00955	0.01	0.0500

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A
Concentration Units:	mg/l		

	ICV				**ICVLL**				**CCV**			
Sample ID:	ICPMS100516190957-2				ICPMS100516191025-2				ICPMS100516191841			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ANTIMONY	0.10	0.1011974	101	1.830000	0.0010	0.00172938	173	8.940000	0.10	0.1032278	103	1.060000
ARSENIC	0.10	0.09889188	98.90	2.820000	0.0010	0.001064467	106	12.900000	0.10	0.1054772	105	0.690000
CADMIUM	0.10	0.09894148	98.90	2.180000	0.0010	0.000943669	94.40	7.470000	0.10	0.1042394	104	1.080000
CHROMIUM	0.10	0.09992022	99.90	1.670000	0.0010	0.000960511	96.10	12.000000	0.10	0.1015242	102	0.850000
COBALT	0.10	0.09981129	99.80	2.800000	0.0010	0.000952572	95.30	2.350000	0.10	0.1008202	101	0.280000
COPPER	0.10	0.09832889	98.30	0.620000	0.0010	0.001068803	107	5.440000	0.10	0.1003715	100	1.690000
LEAD	0.10	0.0987846	98.80	2.380000	0.0010	0.000948661	94.90	2.680000	0.10	0.1010117	101	0.170000
NICKEL	0.10	0.1003234	100	1.270000	0.0010	0.001067184	107	5.290000	0.10	0.1022346	102	1.980000
SELENIUM	0.10	0.09961039	99.60	0.730000	0.0010	0.00076931	76.90	86.300000	0.10	0.09921454	99.20	3.690000
SILVER	0.10	0.09921631	99.20	1.940000	0.0010	0.0010153	102	8.580000	0.10	0.1032097	103	1.790000
THALLIUM	0.10	0.09990319	99.90	0.720000	0.0010	0.0009851611	98.50	5.640000	0.10	0.1008673	101	0.880000
TIN	0.10	0.09929608	99.30	1.310000	0.0010	0.001110657	111	16.200000	0.10	0.1022864	102	2.240000
ZINC	0.10	0.09787954	97.90	1.850000	0.01	0.009805294	98.10	0.120000	0.10	0.1047379	105	0.320000

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A
Concentration Units:	mg/l		

	CCV				**CCV**				**CCV**			
Sample ID:	ICPMS100516192028				ICPMS100516192209				ICPMS100516192341			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ANTIMONY	0.10	0.102572	103	1.410000	0.10	0.1040252	104	1.770000	0.10	0.1056795	106	2.110000
ARSENIC	0.10	0.1021466	102	1.410000	0.10	0.1050208	105	5.130000	0.10	0.1037458	104	3.880000
CADMIUM	0.10	0.1054623	105	1.100000	0.10	0.1051517	105	1.570000	0.10	0.1029884	103	0.770000
CHROMIUM	0.10	0.0981165	98.10	0.720000	0.10	0.1025045	103	4.530000	0.10	0.1010979	101	3.450000
COBALT	0.10	0.09858639	98.60	0.470000	0.10	0.1014009	101	4.150000	0.10	0.09937492	99.40	3.430000
COPPER	0.10	0.1011899	101	1.220000	0.10	0.1012134	101	2.160000	0.10	0.09923648	99.20	2.160000
LEAD	0.10	0.1022152	102	0.480000	0.10	0.1014747	101	0.710000	0.10	0.1017227	102	1.410000
NICKEL	0.10	0.09870299	98.70	1.990000	0.10	0.1007079	101	3.290000	0.10	0.1000492	100	3.450000
SELENIUM	0.10	0.1009135	101	3.340000	0.10	0.103366	103	2.140000	0.10	0.1043625	104	3.980000
SILVER	0.10	0.1019193	102	0.420000	0.10	0.1035952	104	1.480000	0.10	0.1022348	102	0.750000
THALLIUM	0.10	0.1018081	102	1.300000	0.10	0.1018819	102	1.790000	0.10	0.1018299	102	0.660000
TIN	0.10	0.1047245	105	2.060000	0.10	0.1036344	104	1.590000	0.10	0.1030854	103	1.470000
ZINC	0.10	0.1034962	103	3.380000	0.10	0.1044995	104	1.870000	0.10	0.1029263	103	3.980000

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

3-IN BLANKS

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20190516101125-2		20190516184626		20190516192906		20190516203252	
Analyte	mg/l		mg/l		mg/l		mg/l	
ANTIMONY	0.000596129	U	0.001299926		U		0.001234762	
ARSENIC	0.000046784	U	0.000014212	U	U		0.00004511	U
CADMIUM	-0.000004223	U	-0.000012411	U	U		0.000025429	U
CHROMIUM	-0.000094033	U	0.000015395	U	U		-0.000002951	U
COBALT	-0.000001732	U	-0.000002687	U	U		0.000008527	U
COPPER	-0.000007478	U	0.000024293	U	U		0.000036142	U
LEAD	0.000012798	U	-0.000015464	U	U		0.000012628	U
NICKEL	0.000028103	U	0.000002481	U	U		0.000072219	U
SELENIUM	0.000044167	U	-0.000408416	U	U		0.000378419	U
SILVER	0.000006641	U	0.00003693	U	U		0.000045986	U
THALLIUM	0.000003799	U	0.000016951	U	U		0.000029316	U
TIN	0.000067874	U	0.000161821	U	U		0.000073829	U
ZINC	-0.000107604	U	-0.000355168	U	U		-0.000467053	U

3-IN BLANKS

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190516221350		20190516234605	
Analyte	mg/l		mg/l	
ANTIMONY	0.001177645		0.001184276	
ARSENIC	0.000018593	U	-0.00001393	U
CADMIUM	0.0000007370	U	-0.000016765	U
CHROMIUM	0.00003136	U	0.000023237	U
COBALT	0.000001353	U	-0.000001078	U
COPPER	0.000023207	U	0.000066013	U
LEAD	-0.000029117	U	-0.000018909	U
NICKEL	0.000004973	U	0.000075377	U
SELENIUM	-0.000414227	U	-0.000221187	U
SILVER	0.000040898	U	0.000018973	U
THALLIUM	0.000019822	U	0.000018014	U
TIN	0.00010963	U	0.00007274	U
ZINC	-0.0004393	U	-0.000528177	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Date:**	05/16/19 10:30
Instrument Run:	051619ICPMS10A		

Analyte	**True**	**Found**		**True**	**Found**	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	100.4581	100	100	99.12222	99.10
ANTIMONY	0	0.000645224		0.02	0.02454416	123
ARSENIC	0	0.000025423		0.02	0.01857645	92.90
BARIUM	0	0.000172993		0.02	0.02020455	101
BERYLLIUM	0	0.000037089		0.02	0.02007946	100
BISMUTH (NO HE)		467215.8	102		477153.9	104
BORON	0	0.008168624		0.02	0.02695984	135
CADMIUM	0	0.000211625		0.02	0.02004696	100
CALCIUM	100	98.15458	98.20	100	97.15414	97.20
CHROMIUM	0	0.000297785		0.02	0.01920055	96
COBALT	0	0.000289844		0.02	0.02005599	100
COPPER	0	0.001366835		0.02	0.02005416	100
GERMANIUM		2693.04	107		2636.373	105
GERMANIUM (NO HE)		15154.29	101		15174.31	102
IRON	100	115.3496	115	100	114.0075	114
LEAD	0	0.00007443		0.02	0.01922159	96.10
LITHIUM	0	0.00068184		0	0.000797711	
MAGNESIUM	100	107.7861	108	100	109.5201	110
MANGANESE	0	0.000305721		0.02	0.01906094	95.30
MOLYBDENUM	2	2.063209	103	2	2.025202	101
NICKEL	0	0.000390754		0.02	0.01930291	96.50
POTASSIUM	100	101.6149	102	100	97.62578	97.60
RHODIUM		68972.74	102		68375.93	101
SCANDIUM		31405.76	99.90		30717.19	97.70
SCANDIUM (NO HE)		669535.6	99.50		658680.7	97.90
SELENIUM	0	0.000234013		0.02	0.020202	101
SILVER	0	0.000024083		0.02	0.01982039	99.10
SODIUM	100	100.0594	100	100	101.2849	101
STRONTIUM	0	0.000843776		0.02	0.01996946	99.80
TELLURIUM		13439.2	99.40		13188.49	97.60
TELLURIUM (HIGH HE)		25141.9	98.90		27585.02	109
TELLURIUM (NO HE)		68636.83	95.60		68878.95	95.90
THALLIUM	0	0.000010056		0.02	0.01891783	94.60
THORIUM	0	0.000116774		0.02	0.01901942	95.10
TIN	0	0.000295155		0.02	0.02093418	105
TITANIUM	2	2.059697	103	2	2.021594	101
URANIUM	0	0.000003922		0.02	0.01945811	97.30
VANADIUM	0	0.000051409		0.02	0.01895344	94.80
ZINC	0	-0.000018851		0.02	0.01950503	97.50

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

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Date:**	05/16/19 18:53
Instrument Run:	051619ICPMS10A		

Analyte	**True**	**Found**		**True**	**Found**	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	103.6481	104	100	102.3545	102
ANTIMONY	0	0.000494937		0.02	0.02566678	128
ARSENIC	0	0.00001589		0.02	0.01948602	97.40
BARIUM	0	0.000074171		0.02	0.01983765	99.20
BERYLLIUM	0	0.00004160		0.02	0.02135588	107
BISMUTH (NO HE)		456256.5	99.90		454339.3	99.50
BORON	0	0.009263817		0.02	0.02948892	147
CADMIUM	0	0.000202326		0.02	0.02065129	103
CALCIUM	100	99.85331	99.90	100	99.51596	99.50
CHROMIUM	0	0.00028804		0.02	0.01988919	99.40
COBALT	0	0.000285562		0.02	0.02002122	100
COPPER	0	0.001335642		0.02	0.02060297	103
GERMANIUM		2564.377	102		2510.377	99.80
GERMANIUM (NO HE)		14790.6	99		14342.4	96
IRON	100	118.1149	118	100	118.3869	118
LEAD	0	0.000041198		0.02	0.01953774	97.70
LITHIUM	0	0.00070516		0	0.000791791	
MAGNESIUM	100	113.6016	114	100	107.8139	108
MANGANESE	0	0.000397983		0.02	0.02015829	101
MOLYBDENUM	2	2.117094	106	2	2.058081	103
NICKEL	0	0.000305548		0.02	0.01994607	99.70
POTASSIUM	100	101.6517	102	100	100.7515	101
RHODIUM		64261.55	95.20		65014.85	96.30
SCANDIUM		30329.79	96.50		29913.73	95.10
SCANDIUM (NO HE)		639050.2	95		626763.5	93.10
SELENIUM	0	-0.000548948		0.02	0.02113934	106
SILVER	0	0.000041568		0.02	0.02020448	101
SODIUM	100	102.9101	103	100	100.7259	101
STRONTIUM	0	0.001006037		0.02	0.02123348	106
TELLURIUM		13258.7	98.10		13343.94	98.70
TELLURIUM (HIGH HE)		25622.88	101		25961.63	102
TELLURIUM (NO HE)		69171.82	96.40		68806.45	95.80
THALLIUM	0	0.000007791		0.02	0.01902935	95.10
THORIUM	0	0.000345677		0.02	0.01930574	96.50
TIN	0	0.000311573		0.02	0.02060705	103
TITANIUM	2	2.094544	105	2	2.092558	105
URANIUM	0	0.000000006000		0.02	0.02024601	101
VANADIUM	0	0.000029308		0.02	0.01947389	97.40
ZINC	0	-0.000054028		0.02	0.01945864	97.30

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

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Date:**	05/16/19 20:44
Instrument Run:	051619ICPMS10A		

Analyte	**True**	**Found**		**True**	**Found**	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	103.7247	104	100	101.5512	102
ANTIMONY	0	0.000470392		0.02	0.02488473	124
ARSENIC	0	0.00008126		0.02	0.0193154	96.60
BARIUM	0	0.000182439		0.02	0.01969543	98.50
BERYLLIUM	0	0.000033384		0.02	0.02085882	104
BISMUTH (NO HE)		449789.2	98.50		470810.4	103
BORON	0	0.01927336		0.02	0.03707975	185
CADMIUM	0	0.000196584		0.02	0.02053168	103
CALCIUM	100	98.96573	99	100	98.1651	98.20
CHROMIUM	0	0.000325491		0.02	0.01953243	97.70
COBALT	0	0.000331089		0.02	0.02012263	101
COPPER	0	0.001325774		0.02	0.02054233	103
GERMANIUM		2587.043	103		2583.04	103
GERMANIUM (NO HE)		15180.99	102		14720.53	98.60
IRON	100	121.5191	122	100	117.6636	118
LEAD	0	0.000028845		0.02	0.01942682	97.10
LITHIUM	0	0.000807105		0	0.000843252	
MAGNESIUM	100	109.0575	109	100	105.1721	105
MANGANESE	0	0.000338913		0.02	0.01975532	98.80
MOLYBDENUM	2	2.107276	105	2	2.047274	102
NICKEL	0	0.000351056		0.02	0.02008347	100
POTASSIUM	100	102.341	102	100	99.82555	99.80
RHODIUM		65998.01	97.80		66283.73	98.20
SCANDIUM		31027.69	98.70		30470.03	96.90
SCANDIUM (NO HE)		650416.4	96.60		642668	95.50
SELENIUM	0	0.000063579		0.02	0.02073192	104
SILVER	0	0.000040819		0.02	0.02006398	100
SODIUM	100	102.8426	103	100	98.0959	98.10
STRONTIUM	0	0.001068775		0.02	0.02125344	106
TELLURIUM		13842.38	102		13452.37	99.50
TELLURIUM (HIGH HE)		26485.7	104		26078.99	103
TELLURIUM (NO HE)		70575.98	98.30		71694.34	99.90
THALLIUM	0	0.000009370		0.02	0.0192275	96.10
THORIUM	0	0.000288806		0.02	0.01920388	96
TIN	0	0.000417417		0.02	0.02097798	105
TITANIUM	2	2.115673	106	2	2.031304	102
URANIUM	0	0.000002077		0.02	0.01956289	97.80
VANADIUM	0	-0.000007728		0.02	0.01924697	96.20
ZINC	0	0.000098492		0.02	0.0202166	101

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

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Date:**	05/16/19 22:20
Instrument Run:	051619ICPMS10A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	102.7607	103	100	100.1054	100
ANTIMONY	0	0.000524255		0.02	0.0263219	132
ARSENIC	0	0.000047335		0.02	0.01950905	97.50
BARIUM	0	0.000176944		0.02	0.02173711	109
BERYLLIUM	0	0.000036023		0.02	0.02060964	103
BISMUTH (NO HE)		448097.9	98.10		467607.8	102
BORON	0	0.01589895		0.02	0.03356118	168
CADMIUM	0	0.000132426		0.02	0.02093788	105
CALCIUM	100	98.52417	98.50	100	98.22612	98.20
CHROMIUM	0	0.000352095		0.02	0.01969044	98.50
COBALT	0	0.000244905		0.02	0.02048566	102
COPPER	0	0.001317842		0.02	0.02050002	103
GERMANIUM		2559.043	102		2511.71	99.90
GERMANIUM (NO HE)		14701.63	98.40		14662.7	98.20
IRON	100	118.251	118	100	118.8611	119
LEAD	0	0.000003832		0.02	0.01944909	97.20
LITHIUM	0	0.000765421		0	0.000726479	
MAGNESIUM	100	109.5398	110	100	106.833	107
MANGANESE	0	0.000407836		0.02	0.0197662	98.80
MOLYBDENUM	2	2.127601	106	2	2.067636	103
NICKEL	0	0.000365381		0.02	0.02060995	103
POTASSIUM	100	101.8735	102	100	98.43075	98.40
RHODIUM		63514.99	94.10		65061.68	96.40
SCANDIUM		29850.94	94.90		30673.06	97.50
SCANDIUM (NO HE)		636309.3	94.50		628110.2	93.30
SELENIUM	0	-0.000001929		0.02	0.02047797	102
SILVER	0	0.000020261		0.02	0.02052331	103
SODIUM	100	104.5365	105	100	100.0604	100
STRONTIUM	0	0.000661931		0.02	0.02137336	107
TELLURIUM		13178.63	97.50		13374.8	99
TELLURIUM (HIGH HE)		25520.04	100		25843.42	102
TELLURIUM (NO HE)		69135.49	96.30		70966.99	98.90
THALLIUM	0	0.000004089		0.02	0.01902097	95.10
THORIUM	0	0.000292269		0.02	0.01939867	97
TIN	0	0.000301452		0.02	0.02133084	107
TITANIUM	2	2.093133	105	2	2.026802	101
URANIUM	0	0.000003148		0.02	0.01997727	99.90
VANADIUM	0	-0.000025465		0.02	0.01967478	98.40
ZINC	0	-0.000032106		0.02	0.01999967	100

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

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Date:**	05/16/19 23:56
Instrument Run:	051619ICPMS10A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	103.6492	104	100	101.9164	102
ANTIMONY	0	0.000513417		0.02	0.02582818	129
ARSENIC	0	0.000029478		0.02	0.01962085	98.10
BARIUM	0	0.000257668		0.02	0.02002777	100
BERYLLIUM	0	0.00001803		0.02	0.02046099	102
BISMUTH (NO HE)		436124.7	95.50		464573.3	102
BORON	0	0.01368417		0.02	0.03184912	159
CADMIUM	0	0.000182209		0.02	0.02081834	104
CALCIUM	100	97.44547	97.40	100	98.68141	98.70
CHROMIUM	0	0.00027918		0.02	0.0197355	98.70
COBALT	0	0.000327795		0.02	0.02018612	101
COPPER	0	0.001283281		0.02	0.02023191	101
GERMANIUM		2491.047	99.10		2495.043	99.20
GERMANIUM (NO HE)		14830.64	99.30		14637.11	98
IRON	100	120.5922	121	100	118.9782	119
LEAD	0	0.00004029		0.02	0.0192376	96.20
LITHIUM	0	0.000676634		0	0.000752336	
MAGNESIUM	100	107.8296	108	100	107.5619	108
MANGANESE	0	0.000440515		0.02	0.01989487	99.50
MOLYBDENUM	2	2.15202	108	2	2.092473	105
NICKEL	0	0.000337566		0.02	0.02042816	102
POTASSIUM	100	101.8874	102	100	100.5065	101
RHODIUM		62069.94	92		63503.91	94.10
SCANDIUM		29326.06	93.30		29663.95	94.30
SCANDIUM (NO HE)		629553.1	93.50		618716.7	91.90
SELENIUM	0	-0.000183347		0.02	0.02102084	105
SILVER	0	0.000009374		0.02	0.02026437	101
SODIUM	100	102.9274	103	100	100.2317	100
STRONTIUM	0	0.001057623		0.02	0.02160861	108
TELLURIUM		12977.13	96		13059.19	96.60
TELLURIUM (HIGH HE)		25250.08	99.40		24707.35	97.20
TELLURIUM (NO HE)		66916.13	93.20		69803.98	97.20
THALLIUM	0	0.000005627		0.02	0.01957142	97.90
THORIUM	0	0.000292461		0.02	0.01930726	96.50
TIN	0	0.000443523		0.02	0.02062552	103
TITANIUM	2	2.115835	106	2	2.045974	102
URANIUM	0	0.000002172		0.02	0.02022619	101
VANADIUM	0	0.000013856		0.02	0.01961051	98.10
ZINC	0	0.000034074		0.02	0.02094407	105

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

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1098374-01

SAMPLE NO.:
R3412176-5
R3412176-6

MS Sample / File ID:	R3412176-5 / 20190516195214	**SDG:**	L1098374
MSD Sample / File ID:	R3412176-6 / 20190516195649	**Analytical Batch:**	WG1280972
OS Sample / File ID:	L1096864-01 / 20190516194249	**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*	*%*	*%*		*%*	*%*	*%*
Antimony	0.0500	0.0301	0.0945	0.0913	129	122	1	70.0 - 130	3.42	20
Arsenic	0.0500	ND	0.0462	0.0445	91.9	88.4	1	70.0 - 130	3.84	20
Cadmium	0.0500	ND	0.0547	0.0521	109	104	1	70.0 - 130	4.86	20
Chromium	0.0500	ND	0.0428	0.0418	84.7	82.5	1	70.0 - 130	2.52	20
Cobalt	0.0500	ND	0.0434	0.0418	86.8	83.7	1	70.0 - 130	3.71	20
Copper	0.0500	0.00605	0.0517	0.0494	91.4	86.7	1	70.0 - 130	4.66	20
Lead	0.0500	ND	0.0508	0.0496	101	98.6	1	70.0 - 130	2.36	20
Nickel	0.0500	ND	0.0436	0.0429	85.5	84.1	1	70.0 - 130	1.65	20
Selenium	0.0500	ND	0.0552	0.0531	108	104	1	70.0 - 130	3.81	20
Silver	0.0500	ND	0.0543	0.0527	107	104	1	70.0 - 130	3.07	20
Thallium	0.0500	ND	0.0490	0.0473	98.1	94.6	1	70.0 - 130	3.63	20
Tin	0.0500	ND	0.0541	0.0531	107	105	1	70.0 - 130	1.95	20
Zinc	0.0500	0.0206	0.0648	0.0633	88.3	85.5	1	70.0 - 130	2.19	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

L1098374-01

SAMPLE NO.:
R3412176-7
R3412176-8

MS Sample / File ID:	R3412176-7 / 20190516200614	**SDG:**	L1098374
MSD Sample / File ID:	R3412176-8 / 20190516201049	**Analytical Batch:**	WG1280972
OS Sample / File ID:	L1097799-01 / 20190516200123	**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*	*%*	*%*		*%*	*%*	*%*
Antimony	0.0500	U	0.0620	0.0616	124	123	1	70.0 - 130	0.625	20
Arsenic	0.0500	0.000640	0.0448	0.0442	88.3	87.2	1	70.0 - 130	1.31	20
Cadmium	0.0500	U	0.0531	0.0515	106	103	1	70.0 - 130	3.11	20
Chromium	0.0500	0.00243	0.0435	0.0424	82.2	80.0	1	70.0 - 130	2.48	20
Cobalt	0.0500	0.000386	0.0412	0.0406	81.6	80.3	1	70.0 - 130	1.58	20
Copper	0.0500	0.00198	0.0445	0.0426	85.0	81.2	1	70.0 - 130	4.44	20
Lead	0.0500	U	0.0496	0.0485	99.3	97.0	1	70.0 - 130	2.31	20
Nickel	0.0500	0.00162	0.0420	0.0414	80.8	79.6	1	70.0 - 130	1.38	20
Selenium	0.0500	0.00654	0.0554	0.0592	97.7	105	1	70.0 - 130	6.53	20
Silver	0.0500	U	0.0522	0.0522	104	104	1	70.0 - 130	0.0909	20
Thallium	0.0500	U	0.0496	0.0488	99.2	97.7	1	70.0 - 130	1.60	20
Tin	0.0500	0.000408	0.0538	0.0533	107	106	1	70.0 - 130	0.861	20
Zinc	0.0500	0.00433	0.0439	0.0448	79.2	80.9	1	70.0 - 130	1.91	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

L1098374-01

SAMPLE NO.:
R3412176-2
R3412176-3

LCS Sample / File ID:	R3412176-2 / 20190516193340	**SDG:**	L1098374
LCSD Sample / File ID:	R3412176-3 / 20190516193815	**Analytical Batch:**	WG1280972
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*	*%*	*%*	*%*	*%*	*%*
Antimony	0.0500	0.0611	0.0609	122*	122*	85.0 - 115	0.402	20
Arsenic	0.0500	0.0485	0.0456	96.9	91.2	85.0 - 115	6.07	20
Cadmium	0.0500	0.0545	0.0537	109	107	85.0 - 115	1.49	20
Chromium	0.0500	0.0459	0.0432	91.9	86.3	85.0 - 115	6.25	20
Cobalt	0.0500	0.0462	0.0440	92.5	88.0	85.0 - 115	4.91	20
Copper	0.0500	0.0454	0.0450	90.8	89.9	85.0 - 115	0.946	20
Lead	0.0500	0.0505	0.0503	101	101	85.0 - 115	0.279	20
Nickel	0.0500	0.0465	0.0432	93.1	86.3	85.0 - 115	7.50	20
Selenium	0.0500	0.0515	0.0492	103	98.4	85.0 - 115	4.67	20
Silver	0.0500	0.0534	0.0530	107	106	85.0 - 115	0.832	20
Thallium	0.0500	0.0500	0.0494	100	98.9	85.0 - 115	1.15	20
Tin	0.0500	0.0521	0.0522	104	104	85.0 - 115	0.328	20
Zinc	0.0500	0.0488	0.0472	97.6	94.4	85.0 - 115	3.34	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

L1098374-01

SAMPLE NO.:
R3412176-4

SD Sample / File ID:	R3412176-4 / 20190516194724	**SDG:**	L1098374
OS Sample / File ID:	L1096864-01 / 20190516194249	**Analytical Batch:**	WG1280972
Lab File ID:	20190516194724	**Dilution Factor:**	5
Instrument ID:	ICPMS10	**Matrix:**	WW
Analytical Method:	200.8		

Analyte	**OS Result** *mg/l*	**SD Result** *mg/l*	**RPD** *%*	**RPD Limits** *%*
Antimony	0.0301	0.0289	3.89	10
Arsenic	ND	ND	0.000	10
Cadmium	ND	ND	0.000	10
Chromium	ND	ND	0.000	10
Cobalt	ND	ND	0.000	10
Copper	0.00605	0.00698	15.4	10
Lead	ND	ND	0.000	10
Nickel	ND	ND	0.000	10
Selenium	ND	ND	0.000	10
Silver	ND	0.00110	0.000	10
Thallium	ND	ND	0.000	10
Tin	ND	ND	0.000	10
Zinc	0.0206	0.0232	12.9	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:	L1098374	**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:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Analysis Date:**	05/16/19 09:07
Instrument Run:	051619ICPMS10A		

Analyte	Assoc. Internal Standard 1
CHROMIUM - 52	GERMANIUM - 72
COBALT - 59	GERMANIUM - 72
NICKEL - 60	GERMANIUM - 72
COPPER - 63	GERMANIUM (NO HE) - 72
ZINC - 66	GERMANIUM - 72
ARSENIC - 75	GERMANIUM - 72
SELENIUM - 78	TELLURIUM (HIGH HE) - 125
SILVER - 107	RHODIUM - 103
CADMIUM - 111	RHODIUM - 103
TIN - 118	RHODIUM - 103
ANTIMONY - 121	RHODIUM - 103
THALLIUM - 205	BISMUTH (NO HE) - 209
LEAD - 208	BISMUTH (NO HE) - 209

12-IN

ANALYSIS LOG

SDG:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Calibration Start Date:**	05/16/19 09:29
Analytical Run:	051619ICPMS10A	**Calibration End Date:**	05/16/19 09:52

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	ICPMS10tn05162019907-2	20190516090740-2	05/16/19 09:07	1	
CALBLK	ICPMS100516190924	20190516092455	05/16/19 09:24	1	
CAL	STD1	20190516092930	05/16/19 09:29	1	
CAL	STD2	20190516093405	05/16/19 09:34	1	
CAL	STD3	20190516093841	05/16/19 09:38	1	
CAL	STD4	20190516094316	05/16/19 09:43	1	
CAL	STD5	20190516094752	05/16/19 09:47	1	
CAL	STD6	20190516095227	05/16/19 09:52	1	
ICV	ICPMS100516190957-2	20190516095702-2	05/16/19 09:57	1	
ICB	ICPMS100516191011-2	20190516101125-2	05/16/19 10:11	1	
ICVLL	ICPMS100516191025-2	20190516102539-2	05/16/19 10:25	1	
ICSA	ICPMS100516191030-2	20190516103015-2	05/16/19 10:30	1	
ICSAB	ICPMS100516191034-2	20190516103450-2	05/16/19 10:34	1	
CCV	ICPMS100516191841	20190516184152	05/16/19 18:41	1	
CCB	ICPMS100516191846	20190516184626	05/16/19 18:46	1	
ICSA	ICPMS100516191853	20190516185336	05/16/19 18:53	1	
ICSAB	ICPMS100516191858	20190516185811	05/16/19 18:58	1	
BLANK	R3412176-1	20190516192906	05/16/19 19:29	1	WG1280972
LCS	R3412176-2	20190516193340	05/16/19 19:33	1	WG1280972
LCSD	R3412176-3	20190516193815	05/16/19 19:38	1	WG1280972
OS	L1096864-01	20190516194249	05/16/19 19:42	1	WG1280972
SD	R3412176-4	20190516194724	05/16/19 19:47	5	WG1280972
MS	R3412176-5	20190516195214	05/16/19 19:52	1	WG1280972
MSD	R3412176-6	20190516195649	05/16/19 19:56	1	WG1280972
OS	L1097799-01	20190516200123	05/16/19 20:01	1	WG1280972
MS	R3412176-7	20190516200614	05/16/19 20:06	1	WG1280972
MSD	R3412176-8	20190516201049	05/16/19 20:10	1	WG1280972
CCV	ICPMS100516192028	20190516202818	05/16/19 20:28	1	
CCB	ICPMS100516192032	20190516203252	05/16/19 20:32	1	
ICSA	ICPMS100516192044	20190516204449	05/16/19 20:44	1	
ICSAB	ICPMS100516192049	20190516204924	05/16/19 20:49	1	
CCV	ICPMS100516192209	20190516220916	05/16/19 22:09	1	
CCB	ICPMS100516192213	20190516221350	05/16/19 22:13	1	
ICSA	ICPMS100516192220	20190516222053	05/16/19 22:20	1	
ICSAB	ICPMS100516192225	20190516222529	05/16/19 22:25	1	
WW-20190512-002-DAY 10	L1098374-01	20190516231901	05/16/19 23:19	1	WG1280972
CCV	ICPMS100516192341	20190516234130	05/16/19 23:41	1	
CCB	ICPMS100516192346	20190516234605	05/16/19 23:46	1	
ICSA	ICPMS100516192356	20190516235616	05/16/19 23:56	1	
ICSAB	ICPMS100517190000	20190517000051	05/17/19 00:00	1	

13-IN

ICP/MS TUNE

Lab File ID:	20190516090740-2	**SDG:**	L1098374
Instrument ID:	ICPMS10	**Analysis Date/Time**	05/16/19 09:07
Analytical Method:	200.8		

Element - Mass	Avg. Measured Mass	Avg. Peak Width	Height	RSD
	u	u	%	%
IN - 115	115.05	0.47951770	5	1.013075
PB - 206	206	0.51879910	5	1.770924
PB - 207	206.95	0.48515530	5	0.620704
PB - 208	207.95	0.48629060	5	1.306278
MG - 24	23.95	0.53853550	5	0.90375940
MG - 25	24.95	0.53850390	5	1.875592
MG - 26	25.95	0.53717050	5	0.909225
CO - 59	59	0.52698140	5	0.85610340
BE - 9	9	0.52612770	5	2.699193

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Start Date:**	05/16/19 09:57
Instrument Run:	051619ICPMS10A	**End Date:**	05/17/19 00:00

Client Sample ID	Lab Sample ID	Analysis Date Time	BISMUTH (NO HE)		GERMANIUM		GERMANIUM (NO HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS100516190957-2	05/16/19 09:57	103		103		103	
ICB	ICPMS100516191011-2	05/16/19 10:11	101		102		98.50	
ICVLL	ICPMS100516191025-2	05/16/19 10:25	99.90		107		101	
ICSA	ICPMS100516191030-2	05/16/19 10:30	102		107		101	
ICSAB	ICPMS100516191034-2	05/16/19 10:34	104		105		102	
CCV	ICPMS100516191841	05/16/19 18:41	99.70		101		97.80	
CCB	ICPMS100516191846	05/16/19 18:46	99.40		99.60		95.90	
ICSA	ICPMS100516191853	05/16/19 18:53	99.90		102		99	
ICSAB	ICPMS100516191858	05/16/19 18:58	99.50		99.80		96	
CCV	ICPMS100516192028	05/16/19 20:28	96.10		106		97.50	
CCB	ICPMS100516192032	05/16/19 20:32	101		100		99.50	
ICSA	ICPMS100516192044	05/16/19 20:44	98.50		103		102	
ICSAB	ICPMS100516192049	05/16/19 20:49	103		103		98.60	
CCV	ICPMS100516192209	05/16/19 22:09	95.40		99.80		95.50	
CCB	ICPMS100516192213	05/16/19 22:13	98.40		102		96.50	
ICSA	ICPMS100516192220	05/16/19 22:20	98.10		102		98.40	
ICSAB	ICPMS100516192225	05/16/19 22:25	102		99.90		98.20	
CCV	ICPMS100516192341	05/16/19 23:41	92.40		100		95.30	
CCB	ICPMS100516192346	05/16/19 23:46	94.80		98.40		92.40	
ICSA	ICPMS100516192356	05/16/19 23:56	95.50		99.10		99.30	
OS	L1096864-01	05/16/19 19:42	104		118		110	
OS	L1097799-01	05/16/19 20:01	103		124		115	
WW-20190512-002-DAY 10	L1098374-01	05/16/19 23:19	103		119		115	
BLANK	R3412176-1	05/16/19 19:29	106		112		103	
LCS	R3412176-2	05/16/19 19:33	102		110		106	
LCSD	R3412176-3	05/16/19 19:38	101		112		105	
SD	R3412176-4	05/16/19 19:47	105		103		99.90	
MS	R3412176-5	05/16/19 19:52	101		118		107	
MSD	R3412176-6	05/16/19 19:56	103		122		111	
MS	R3412176-7	05/16/19 20:06	100		120		110	
MSD	R3412176-8	05/16/19 20:10	101		122		113	
ICSAB	ICPMS100517190000	05/17/19 00:00	102		99.20		98	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Start Date:**	05/16/19 09:57
Instrument Run:	051619ICPMS10A	**End Date:**	05/17/19 00:00

Client Sample ID	Lab Sample ID	Analysis Date Time	RHODIUM		SCANDIUM		SCANDIUM (NO HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS100516190957-2	05/16/19 09:57	103		99.80		104	
ICB	ICPMS100516191011-2	05/16/19 10:11	99.70		97.10		101	
ICVLL	ICPMS100516191025-2	05/16/19 10:25	102		100		101	
ICSA	ICPMS100516191030-2	05/16/19 10:30	102		99.90		99.50	
ICSAB	ICPMS100516191034-2	05/16/19 10:34	101		97.70		97.90	
CCV	ICPMS100516191841	05/16/19 18:41	98.90		98.80		96.80	
CCB	ICPMS100516191846	05/16/19 18:46	95.30		95		95.20	
ICSA	ICPMS100516191853	05/16/19 18:53	95.20		96.50		95	
ICSAB	ICPMS100516191858	05/16/19 18:58	96.30		95.10		93.10	
CCV	ICPMS100516192028	05/16/19 20:28	100		101		98.50	
CCB	ICPMS100516192032	05/16/19 20:32	100		101		98.70	
ICSA	ICPMS100516192044	05/16/19 20:44	97.80		98.70		96.60	
ICSAB	ICPMS100516192049	05/16/19 20:49	98.20		96.90		95.50	
CCV	ICPMS100516192209	05/16/19 22:09	97		96.40		96.50	
CCB	ICPMS100516192213	05/16/19 22:13	96.30		96.50		96.90	
ICSA	ICPMS100516192220	05/16/19 22:20	94.10		94.90		94.50	
ICSAB	ICPMS100516192225	05/16/19 22:25	96.40		97.50		93.30	
CCV	ICPMS100516192341	05/16/19 23:41	96.40		97		94.80	
CCB	ICPMS100516192346	05/16/19 23:46	94.10		94.10		93.40	
ICSA	ICPMS100516192356	05/16/19 23:56	92		93.30		93.50	
OS	L1096864-01	05/16/19 19:42	93.40		92.80		89.60	
OS	L1097799-01	05/16/19 20:01	95.50		95.90		91	
WW-20190512-002-DAY 10	L1098374-01	05/16/19 23:19	94.80		94.50		89.60	
BLANK	R3412176-1	05/16/19 19:29	96.40		93.40		90	
LCS	R3412176-2	05/16/19 19:33	96.90		94.60		90.50	
LCSD	R3412176-3	05/16/19 19:38	94		92.60		89.60	
SD	R3412176-4	05/16/19 19:47	98.50		97.30		95	
MS	R3412176-5	05/16/19 19:52	93.20		93		90.70	
MSD	R3412176-6	05/16/19 19:56	96.60		96.10		89.30	
MS	R3412176-7	05/16/19 20:06	95.40		93.90		89.10	
MSD	R3412176-8	05/16/19 20:10	95.90		96		88.50	
ICSAB	ICPMS100517190000	05/17/19 00:00	94.10		94.30		91.90	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1098374	**Analytical Method:**	200.8
Instrument ID:	ICPMS10	**Start Date:**	05/16/19 09:57
Instrument Run:	051619ICPMS10A	**End Date:**	05/17/19 00:00

Client Sample ID	Lab Sample ID	Analysis Date Time	TELLURIUM		TELLURIUM (HIGH HE)		TELLURIUM (NO HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS100516190957-2	05/16/19 09:57	102		104		104	
ICB	ICPMS100516191011-2	05/16/19 10:11	97.60		100		98.40	
ICVLL	ICPMS100516191025-2	05/16/19 10:25	102		104		102	
ICSA	ICPMS100516191030-2	05/16/19 10:30	99.40		98.90		95.60	
ICSAB	ICPMS100516191034-2	05/16/19 10:34	97.60		109		95.90	
CCV	ICPMS100516191841	05/16/19 18:41	104		104		103	
CCB	ICPMS100516191846	05/16/19 18:46	98.60		97.90		99	
ICSA	ICPMS100516191853	05/16/19 18:53	98.10		101		96.40	
ICSAB	ICPMS100516191858	05/16/19 18:58	98.70		102		95.80	
CCV	ICPMS100516192028	05/16/19 20:28	106		105		103	
CCB	ICPMS100516192032	05/16/19 20:32	104		103		103	
ICSA	ICPMS100516192044	05/16/19 20:44	102		104		98.30	
ICSAB	ICPMS100516192049	05/16/19 20:49	99.50		103		99.90	
CCV	ICPMS100516192209	05/16/19 22:09	102		104		100	
CCB	ICPMS100516192213	05/16/19 22:13	99.60		101		98.60	
ICSA	ICPMS100516192220	05/16/19 22:20	97.50		100		96.30	
ICSAB	ICPMS100516192225	05/16/19 22:25	99		102		98.90	
CCV	ICPMS100516192341	05/16/19 23:41	101		101		97.90	
CCB	ICPMS100516192346	05/16/19 23:46	98.30		98		94.40	
ICSA	ICPMS100516192356	05/16/19 23:56	96		99.40		93.20	
OS	L1096864-01	05/16/19 19:42	95		100		98.50	
OS	L1097799-01	05/16/19 20:01	101		104		102	
WW-20190512-002-DAY 10	L1098374-01	05/16/19 23:19	96.40		99.20		97.70	
BLANK	R3412176-1	05/16/19 19:29	98.90		101		100	
LCS	R3412176-2	05/16/19 19:33	101		104		102	
LCSD	R3412176-3	05/16/19 19:38	98		105		100	
SD	R3412176-4	05/16/19 19:47	103		104		103	
MS	R3412176-5	05/16/19 19:52	95.80		101		97.10	
MSD	R3412176-6	05/16/19 19:56	98.90		102		98.90	
MS	R3412176-7	05/16/19 20:06	99.80		103		99.80	
MSD	R3412176-8	05/16/19 20:10	101		107		101	
ICSAB	ICPMS100517190000	05/17/19 00:00	96.60		97.20		97.20	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.0010	.001008883	101	0.0020	.002004997	100
COBALT	0.0010	.000990405	99	0.0020	.0019249	96.20
NICKEL	0.0010	.0010397	104	0.0020	.002128511	106
COPPER	0.0010	.00103895	104	0.0020	.002058959	103
ZINC	0.0010	.001062947	106	0.0020	.001921993	96.10
ARSENIC	0.0010	.000968212	96.80	0.0020	.001991013	99.60
SILVER	0.0010	.001035164	104	0.0020	.002005911	100
CADMIUM	0.0010	.001041955	104	0.0020	.001981953	99.10
TIN	0.0010	.000995755	99.60	0.0020	.002043471	102
ANTIMONY	0.0010	.001018549	102	0.0020	.001952425	97.60
THALLIUM	0.0010	.000939518	94	0.0020	.002113482	106
LEAD	0.0010	.001001457	100	0.0020	.001962686	98.10
File ID:		20190516092930			20190516093405	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.01	.009614269	96.10	0.05	.04843537	96.90
COBALT	0.01	.009741881	97.40	0.05	.04851903	97
NICKEL	0.01	.01001051	100	0.05	.04859305	97.20
COPPER	0.01	.01010842	101	0.05	.04905804	98.10
ZINC	0.01	.009690192	96.90	0.05	.04883897	97.70
ARSENIC	0.01	.009794228	97.90	0.05	.04892762	97.90
SILVER	0.01	.01017114	102	0.05	.05014509	100
CADMIUM	0.01	.009838363	98.40	0.05	.0493217	98.60
TIN	0.01	.009760821	97.60	0.05	.05048232	101
ANTIMONY	0.01	.009947632	99.50	0.05	.04969577	99.40
THALLIUM	0.01	.009745796	97.50	0.05	.04950507	99
LEAD	0.01	.00995916	99.60	0.05	.04903828	98.10
File ID:		20190516093841			20190516094316	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.10	.09918627	99.20	0.20	.2008172	100
COBALT	0.10	.09880855	98.80	0.20	.2009797	100
NICKEL	0.10	.1002783	100	0.20	.2002106	100
COPPER	0.10	.09984557	99.80	0.20	.2003065	100
ZINC	0.10	.09831487	98.30	0.20	.2011488	101
ARSENIC	0.10	.1001775	100	0.20	.2001899	100
SILVER	0.10	.09932347	99.30	0.20	.2002932	100
CADMIUM	0.10	.09941841	99.40	0.20	.2004684	100
TIN	0.10	.1008899	101	0.20	.199446	99.70
ANTIMONY	0.10	.1021782	102	0.20	.19899	99.50
THALLIUM	0.10	.09999115	100	0.20	.20014	100
LEAD	0.10	.09857495	98.60	0.20	.2009554	100
File ID:		20190516094752			20190516095227	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.0010	.000870022	87	0.0020	.002407895	120
File ID:		20190516092930			20190516093405	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.01	.01080702	108	0.05	.04735171	94.70
File ID:		20190516093841			20190516094316	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.10	.1021996	102	0.20	.1995185	99.80
File ID:		20190516094752			20190516095227	

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
CHROMIUM	52	8	5	0.999955	115.2512	0.0687
COBALT	59	8	5	0.999945	185.78	0.002917
NICKEL	60	8	5	0.999971	49.24243	0.008986
COPPER	63	8	5	0.999986	39.49211	0.007184
ZINC	66	8	5	0.999931	20.84978	0.019363
ARSENIC	75	8	5	0.999984	18.73732	0.001331
SILVER	107	8	5	0.999991	8.975014	0.000238
CADMIUM	111	8	5	0.999987	1.160654	0.000025
TIN	118	8	5	0.999981	2.439781	0.000279
ANTIMONY	121	8	5	0.999915	3.047622	0.000082
THALLIUM	205	8	5	0.999996	1.877627	0.000007
LEAD	208	8	5	0.99995	1.36528	0.000139

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/16/19 09:29
Instrument ID:	ICPMS10	**Calibration (end) date/time:**	05/16/19 09:52
Analytical Method:	200.8	**Analytical Run:**	051619ICPMS10A

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
SELENIUM	78	8	5	0.999809	0.143537	0.000085

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

2540 C-2011 Gravimetric Analysis

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	13	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/16/19 15:46
Analytical Batch:	WG1280963	**Analysis Date/Time:**	05/16/19 18:26
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.:
R3412465-1

Lab Sample ID:	R3412465-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/16/19 15:45
Analytical Batch:	WG1280963	**Analysis Date/Time:**	05/16/19 18:26
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.:
R3412465-3

Lab Sample ID:	R3412465-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	02	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/16/19 15:46
Analytical Batch:	WG1280963	**Analysis Date/Time:**	05/16/19 18:26
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	2060		14.1	50	50.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412465-2

Lab Sample ID:	R3412465-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/16/19 15:45
Analytical Batch:	WG1280963	**Analysis Date/Time:**	05/16/19 18:26
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	8730		28.2	100	100

3-IN BLANKS

SDG:	L1098374	**Calibration (begin) date/time:**	_____
Instrument ID:	WETBAL10	**Calibration (end) date/time:**	_____
Analytical Method:	2540 C-2011	**Analytical Run:**	WG1280963

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

6-IN

DUPLICATES
L1098374-01

SAMPLE NO.:
R3412465-3

DUP Sample / File ID:	R3412465-3 / 02	**SDG:**	L1098374
OS Sample / File ID:	L1098374-01 / 13	**Analytical Batch:**	WG1280963
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	1990	2060	3.21	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

L1098374-01

SAMPLE NO.:
R3412465-2

LCS Sample / File ID:	R3412465-2 / 03	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280963
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	8730		99.2		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:	L1098374	**Analytical Method:**	2540 C-2011
Instrument ID:	WETBAL10	**Calibration Start Date:**	_____
Analytical Run:	WG1280963	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3412465-1	01	05/16/19 18:26	1	WG1280963
DUP	R3412465-3	02	05/16/19 18:26	1	WG1280963
LCS	R3412465-2	03	05/16/19 18:26	1	WG1280963
WW-20190512-002-DAY 10	L1098374-01	13	05/16/19 18:26	1	WG1280963

2540 D-2011 Gravimetric Analysis

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	17	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/16/19 14:47
Analytical Batch:	WG1282034	**Analysis Date/Time:**	05/16/19 16:06
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	970 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		0.361	2.58	2.58

Sample Narrative:

Used all contents of sample.

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412327-1

Lab Sample ID:	R3412327-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/16/19 14:44
Analytical Batch:	WG1282034	**Analysis Date/Time:**	05/16/19 16:06
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.:
R3412327-3

Lab Sample ID:	R3412327-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/10/19 12:35
Lab File ID:	02	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/16/19 14:47
Analytical Batch:	WG1282034	**Analysis Date/Time:**	05/16/19 16:06
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	500 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	11.0	P1	0.700	5	5.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412327-4

Lab Sample ID:	R3412327-4	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/14/19 13:05
Lab File ID:	03	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/16/19 14:47
Analytical Batch:	WG1282034	**Analysis Date/Time:**	05/16/19 16:06
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	325 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	34.5	P1	1.08	7.70	7.70

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412327-2

Lab Sample ID:	R3412327-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	04	**Received Date/Time:**	
Instrument ID:	WETBAL10	**Preparation Date/Time:**	05/16/19 14:44
Analytical Batch:	WG1282034	**Analysis Date/Time:**	05/16/19 16:06
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	860		14.0	100	100

3-IN BLANKS

SDG:	L1098374	**Calibration (begin) date/time:**	_____
Instrument ID:	WETBAL10	**Calibration (end) date/time:**	_____
Analytical Method:	2540 D-2011	**Analytical Run:**	WG1282034

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

6-IN

DUPLICATES
L1098374-01

SAMPLE NO.:
R3412327-3

DUP Sample / File ID:	R3412327-3 / 02	**SDG:**	L1098374
OS Sample / File ID:	L1097915-01 / 11	**Analytical Batch:**	WG1282034
Instrument ID:	WETBAL10	**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	9.60	11.0	13.6*	5

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES
L1098374-01

SAMPLE NO.:
R3412327-4

DUP Sample / File ID:	R3412327-4 / 03	**SDG:**	L1098374
OS Sample / File ID:	L1099205-02 / 19	**Analytical Batch:**	WG1282034
Instrument ID:	WETBAL10	**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	37.5	34.5	8.56*	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

L1098374-01

SAMPLE NO.:
R3412327-2

LCS Sample / File ID:	R3412327-2 / 04	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1282034
Instrument ID:	WETBAL10	**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	860		111		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:	L1098374	**Analytical Method:**	2540 D-2011
Instrument ID:	WETBAL10	**Calibration Start Date:**	_____
Analytical Run:	WG1282034	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3412327-1	01	05/16/19 16:06	1	WG1282034
DUP	R3412327-4	03	05/16/19 16:06	1	WG1282034
DUP	R3412327-3	02	05/16/19 16:06	1	WG1282034
LCS	R3412327-2	04	05/16/19 16:06	1	WG1282034
OS	L1099205-02	19	05/16/19 16:06	1	WG1282034
OS	L1097915-01	11	05/16/19 16:06	1	WG1282034
WW-20190512-002-DAY 10	L1098374-01	17	05/16/19 16:06	1	WG1282034

300.0 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20.0000.TXT	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	IC-8	**Preparation Date/Time:**	05/14/19 14:11
Analytical Batch:	WG1280643	**Analysis Date/Time:**	05/14/19 14:11
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	396		0.519	1.00	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411353-1

Lab Sample ID:	R3411353-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	10.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-8	**Preparation Date/Time:**	05/14/19 11:12
Analytical Batch:	WG1280643	**Analysis Date/Time:**	05/14/19 11:12
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.:
R3411353-2

Lab Sample ID:	R3411353-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	11.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-8	**Preparation Date/Time:**	05/14/19 11:30
Analytical Batch:	WG1280643	**Analysis Date/Time:**	05/14/19 11:30
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	40.1		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411353-3

Lab Sample ID:	R3411353-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/10/19 11:30
Lab File ID:	17.0000.TXT	**Received Date/Time:**	05/13/19 18:00
Instrument ID:	IC-8	**Preparation Date/Time:**	05/14/19 13:17
Analytical Batch:	WG1280643	**Analysis Date/Time:**	05/14/19 13:17
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	461		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411353-6

Lab Sample ID:	R3411353-6	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/09/19 15:00
Lab File ID:	36.0000.TXT	**Received Date/Time:**	05/11/19 08:30
Instrument ID:	IC-8	**Preparation Date/Time:**	05/14/19 18:58
Analytical Batch:	WG1280643	**Analysis Date/Time:**	05/14/19 18:58
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	1.11		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411353-4

Lab Sample ID:	R3411353-4	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/13/19 13:50
Lab File ID:	27.0000.TXT	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	IC-8	**Preparation Date/Time:**	05/14/19 16:16
Analytical Batch:	WG1280643	**Analysis Date/Time:**	05/14/19 16:16
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	66.2		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411353-7

Lab Sample ID:	R3411353-7	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 15:00
Lab File ID:	37.0000.TXT	**Received Date/Time:**	05/11/19 08:30
Instrument ID:	IC-8	**Preparation Date/Time:**	05/14/19 19:16
Analytical Batch:	WG1280643	**Analysis Date/Time:**	05/14/19 19:16
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	51.9		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411353-5

Lab Sample ID:	R3411353-5	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/13/19 13:50
Lab File ID:	28.0000.TXT	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	IC-8	**Preparation Date/Time:**	05/14/19 16:34
Analytical Batch:	WG1280643	**Analysis Date/Time:**	05/14/19 16:34
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	66.6		0.0519	1	1.00

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 17:16
Instrument ID:	IC-8	**Calibration (end) date/time:**	05/08/19 18:45
Analytical Method:	300.0	**Analytical Run:**	051419
Concentration Units:	mg/l		

	ICV				**CCV**				**CCV**			
Sample ID:	IC-80514191055				IC-80514191429				IC-80514191804-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHLORIDE	50	51.2287	102		50	51.297	103		50	51.2426	102	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 17:16
Instrument ID:	IC-8	**Calibration (end) date/time:**	05/08/19 18:45
Analytical Method:	300.0	**Analytical Run:**	051419
Concentration Units:	mg/l		

CCV

Sample ID: IC-80514192139-2

Analyte	True	Found	%R	%RSD
CHLORIDE	50	51.4561	103	

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

3-IN BLANKS

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 17:16
Instrument ID:	IC-8	**Calibration (end) date/time:**	05/08/19 18:45
Analytical Method:	300.0	**Analytical Run:**	051419

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		34.0000.TXT-2		46.0000.TXT-2	
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

L1098374-01

SAMPLE NO.:
R3411353-4
R3411353-5

MS Sample / File ID:	R3411353-4 / 27.0000.TXT	**SDG:**	L1098374
MSD Sample / File ID:	R3411353-5 / 28.0000.TXT	**Analytical Batch:**	WG1280643
OS Sample / File ID:	L1098440-03 / 26.0000.TXT	**Matrix:**	WW
Instrument ID:	IC-8		
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	16.4	66.2	66.6	99.7	100	1	80.0 - 120	0.564	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

L1098374-01

SAMPLE NO.:
R3411353-7

MS Sample / File ID:	R3411353-7 / 37.0000.TXT	**SDG:**	L1098374
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1280643
OS Sample / File ID:	L1098001-03 / 35.0000.TXT	**Matrix:**	WW
Instrument ID:	IC-8		
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	1.11	51.9		102		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

L1098374-01

SAMPLE NO.:
R3411353-3

DUP Sample / File ID:	R3411353-3 / 17.0000.TXT	**SDG:**	L1098374
OS Sample / File ID:	L1098203-01 / 16.0000.TXT	**Analytical Batch:**	WG1280643
Instrument ID:	IC-8	**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	457	461	0.837	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1098374-01

SAMPLE NO.:
R3411353-6

DUP Sample / File ID:	R3411353-6 / 36.0000.TXT	**SDG:**	L1098374
OS Sample / File ID:	L1098001-03 / 35.0000.TXT	**Analytical Batch:**	WG1280643
Instrument ID:	IC-8	**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	1.11	1.11	0.0361	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

L1098374-01

SAMPLE NO.:
R3411353-2

LCS Sample / File ID:	R3411353-2 / 11.0000.TXT	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280643
Instrument ID:	IC-8	**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	40.1		100		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:	L1098374	**Analytical Method:**	300.0
Instrument ID:	IC-8	**Calibration Start Date:**	05/08/19 17:16
Analytical Run:	050819_2	**Calibration End Date:**	05/08/19 18:45

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	STD 1	02.0000.TXT	05/08/19 17:16	1	
CAL	STD 2	03.0000.TXT	05/08/19 17:34	1	
CAL	STD 3	04.0000.TXT	05/08/19 17:52	1	
CAL	STD 4	05.0000.TXT	05/08/19 18:10	1	
CAL	STD 5	06.0000.TXT	05/08/19 18:27	1	
CAL	STD 6	07.0000.TXT	05/08/19 18:45	1	

12-IN

ANALYSIS LOG

SDG:	L1098374	**Analytical Method:**	300.0
Instrument ID:	IC-8	**Calibration Start Date:**	05/08/19 17:16
Analytical Run:	051419	**Calibration End Date:**	05/08/19 18:45

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	IC-80514191055	09.0000.TXT	05/14/19 10:55	1	
BLANK	R3411353-1	10.0000.TXT	05/14/19 11:12	1	WG1280643
LCS	R3411353-2	11.0000.TXT	05/14/19 11:30	1	WG1280643
RL	IC-80514191148	12.0000.TXT	05/14/19 11:48	1	
OS	L1098203-01	16.0000.TXT	05/14/19 12:59	10	WG1280643
DUP	R3411353-3	17.0000.TXT	05/14/19 13:17	10	WG1280643
WW-20190512-002-DAY 10	L1098374-01	20.0000.TXT	05/14/19 14:11	10	WG1280643
CCV	IC-80514191429	21.0000.TXT	05/14/19 14:29	1	
CCB	IC-80514191447	22.0000.TXT	05/14/19 14:47	1	
OS	L1098440-03	26.0000.TXT	05/14/19 15:59	1	WG1280643
MS	R3411353-4	27.0000.TXT	05/14/19 16:16	1	WG1280643
MSD	R3411353-5	28.0000.TXT	05/14/19 16:34	1	WG1280643
CCV	IC-80514191804-2	33.0000.TXT-2	05/14/19 18:04	1	
CCB	IC-80514191822-2	34.0000.TXT-2	05/14/19 18:22	1	
OS	L1098001-03	35.0000.TXT	05/14/19 18:40	1	WG1280643
DUP	R3411353-6	36.0000.TXT	05/14/19 18:58	1	WG1280643
MS	R3411353-7	37.0000.TXT	05/14/19 19:16	1	WG1280643
CCV	IC-80514192139-2	45.0000.TXT-2	05/14/19 21:39	1	
CCB	IC-80514192157-2	46.0000.TXT-2	05/14/19 21:57	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 17:16
Instrument ID:	IC-8	**Calibration (end) date/time:**	05/08/19 18:45
Analytical Method:	300.0	**Analytical Run:**	051419

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHLORIDE	1	1.0189	102	5	4.9298	98.60
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 17:16
Instrument ID:	IC-8	**Calibration (end) date/time:**	05/08/19 18:45
Analytical Method:	300.0	**Analytical Run:**	051419

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHLORIDE	10	9.9177	99.20	25	25.3326	101
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 17:16
Instrument ID:	IC-8	**Calibration (end) date/time:**	05/08/19 18:45
Analytical Method:	300.0	**Analytical Run:**	051419

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHLORIDE	50	49.2021	98.40	100	100.5989	101
File ID:		06.0000.TXT			07.0000.TXT	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 17:16
Instrument ID:	IC-8	**Calibration (end) date/time:**	05/08/19 18:45
Analytical Method:	300.0	**Analytical Run:**	051419

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHLORIDE	5	1	0.99993			0.075	0.001	3.596

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-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190523055700	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/23/19 05:57
Analytical Batch:	WG1285025	**Analysis Date/Time:**	05/23/19 05:57
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	0.100	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413959-1

Lab Sample ID:	R3413959-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20190523055400	**Received Date/Time:**	
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/23/19 05:54
Analytical Batch:	WG1285025	**Analysis Date/Time:**	05/23/19 05:54
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.:
R3413959-2

Lab Sample ID:	R3413959-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20190523055600	**Received Date/Time:**	
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/23/19 05:56
Analytical Batch:	WG1285025	**Analysis Date/Time:**	05/23/19 05:56
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	7.42		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413959-3

Lab Sample ID:	R3413959-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/15/19 05:44
Lab File ID:	20190523060200	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/23/19 06:02
Analytical Batch:	WG1285025	**Analysis Date/Time:**	05/23/19 06:02
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.:
R3413959-5

Lab Sample ID:	R3413959-5	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/21/19 10:00
Lab File ID:	20190523064000	**Received Date/Time:**	05/22/19 08:45
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/23/19 06:40
Analytical Batch:	WG1285025	**Analysis Date/Time:**	05/23/19 06:40
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	4.37		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413959-4

Lab Sample ID:	R3413959-4	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/17/19 09:30
Lab File ID:	20190523060500	**Received Date/Time:**	05/18/19 08:45
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/23/19 06:05
Analytical Batch:	WG1285025	**Analysis Date/Time:**	05/23/19 06:05
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	4.99		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413959-6

Lab Sample ID:	R3413959-6	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/21/19 11:45
Lab File ID:	20190523064300	**Received Date/Time:**	05/22/19 08:45
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/23/19 06:43
Analytical Batch:	WG1285025	**Analysis Date/Time:**	05/23/19 06:43
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	32.3	E V	0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413959-7

Lab Sample ID:	R3413959-7	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/21/19 11:45
Lab File ID:	20190523064500	**Received Date/Time:**	05/22/19 08:45
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/23/19 06:45
Analytical Batch:	WG1285025	**Analysis Date/Time:**	05/23/19 06:45
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	32.3	E V	0.0317	0.10	0.100

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052319_1
Concentration Units:	mg/l		

	ICV				**CCV**				**CCV**			
Sample ID:	FS3100-010523190552				FS3100-010523190610				FS3100-010523190630			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
AMMONIA NITROGEN	5	4.801	96		5	5.031	101		5	5.090	102	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052319_1
Concentration Units:	mg/l		

CCV

Sample ID: FS3100-010523190650

Analyte	True	Found	%R	%RSD
AMMONIA NITROGEN	5	4.904	98.10	

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

3-IN BLANKS

SDG:	L1098374	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052319_1

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190523055400		20190523061100		20190523063200		20190523065100	
Analyte	mg/l		mg/l		mg/l		mg/l	
AMMONIA NITROGEN	U		-0.03100		-0.007000		-0.02000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1098374-01

SAMPLE NO.:
R3413959-4

MS Sample / File ID:	R3413959-4 / 20190523060500	**SDG:**	L1098374
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1285025
OS Sample / File ID:	L1100354-01 / 20190523060400	**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	4.99		99.1		1	90.0 - 110		

*: 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

L1098374-01

SAMPLE NO.:
R3413959-6
R3413959-7

MS Sample / File ID:	R3413959-6 / 20190523064300	**SDG:**	L1098374
MSD Sample / File ID:	R3413959-7 / 20190523064500	**Analytical Batch:**	WG1285025
OS Sample / File ID:	L1101317-07 / 20190523064200	**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	32.0	32.3	32.3	7.78*	7.66*	1	90.0 - 110	0.0186	10

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1098374-01

SAMPLE NO.:
R3413959-3

DUP Sample / File ID:	R3413959-3 / 20190523060200	**SDG:**	L1098374
OS Sample / File ID:	L1100121-05 / 20190523060000	**Analytical Batch:**	WG1285025
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

L1098374-01

SAMPLE NO.:
R3413959-5

DUP Sample / File ID:	R3413959-5 / 20190523064000	**SDG:**	L1098374
OS Sample / File ID:	L1101317-06 / 20190523063800	**Analytical Batch:**	WG1285025
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	4.45	4.37	1.77	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

L1098374-01

SAMPLE NO.:
R3413959-2

LCS Sample / File ID:	R3413959-2 / 20190523055600	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1285025
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	7.42		98.9		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:	L1098374	**Analytical Method:**	350.1
Instrument ID:	FS3100-01	**Calibration Start Date:**	05/20/19 14:22
Analytical Run:	052019_2	**Calibration End Date:**	05/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	10.0	20190520142200	05/20/19 14:22	1	
CAL	5.00	20190520142300	05/20/19 14:23	1	
CAL	2.50	20190520142500	05/20/19 14:25	1	
CAL	1.00	20190520142700	05/20/19 14:27	1	
CAL	0.10	20190520142800	05/20/19 14:28	1	
CAL	0.00	20190520143000	05/20/19 14:30	1	

12-IN

ANALYSIS LOG

SDG:	L1098374	**Analytical Method:**	350.1
Instrument ID:	FS3100-01	**Calibration Start Date:**	05/20/19 14:22
Analytical Run:	052319_1	**Calibration End Date:**	05/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	FS3100-010523190552	20190523055200	05/23/19 05:52	1	
BLANK	R3413959-1	20190523055400	05/23/19 05:54	1	WG1285025
LCS	R3413959-2	20190523055600	05/23/19 05:56	1	WG1285025
WW-20190512-002-DAY 10	L1098374-01	20190523055700	05/23/19 05:57	1	WG1285025
OS	L1100121-05	20190523060000	05/23/19 06:00	1	WG1285025
DUP	R3413959-3	20190523060200	05/23/19 06:02	1	WG1285025
OS	L1100354-01	20190523060400	05/23/19 06:04	1	WG1285025
MS	R3413959-4	20190523060500	05/23/19 06:05	1	WG1285025
CCV	FS3100-010523190610	20190523061000	05/23/19 06:10	1	
CCB	FS3100-010523190611	20190523061100	05/23/19 06:11	1	
CCV	FS3100-010523190630	20190523063000	05/23/19 06:30	1	
CCB	FS3100-010523190632	20190523063200	05/23/19 06:32	1	
OS	L1101317-06	20190523063800	05/23/19 06:38	1	WG1285025
DUP	R3413959-5	20190523064000	05/23/19 06:40	1	WG1285025
OS	L1101317-07	20190523064200	05/23/19 06:42	1	WG1285025
MS	R3413959-6	20190523064300	05/23/19 06:43	1	WG1285025
MSD	R3413959-7	20190523064500	05/23/19 06:45	1	WG1285025
CCV	FS3100-010523190650	20190523065000	05/23/19 06:50	1	
CCB	FS3100-010523190651	20190523065100	05/23/19 06:51	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052319_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	10	9.939	99.40	5	5.106	102
File ID:		20190520142200			20190520142300	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052319_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	2.50	2.544	102	1	.969	96.90
File ID:		20190520142500			20190520142700	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052319_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	-.029	
File ID:		20190520142800			20190520143000	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052319_1

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
AMMONIA NITROGEN	0	5	0.99987			77988	2369.7	

Calibration Type

0 = Linear Regression

Weightage

5 = None

351.2 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190517102722	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1281798	**Analysis Date/Time:**	05/17/19 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	0.0423	B J P1	0.0350	0.250	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412193-1

Lab Sample ID:	R3412193-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20190517095033	**Received Date/Time:**	
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1281798	**Analysis Date/Time:**	05/17/19 09:50
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	0.172	J	0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412193-2

Lab Sample ID:	R3412193-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190517095145	**Received Date/Time:**	_____
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1281798	**Analysis Date/Time:**	05/17/19 09:51
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	9.87		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412193-5

Lab Sample ID:	R3412193-5	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190517102835	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1281798	**Analysis Date/Time:**	05/17/19 10:28
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	0.000	P1	0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412193-7

Lab Sample ID:	R3412193-7	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/09/19 10:25
Lab File ID:	20190517103322	**Received Date/Time:**	05/09/19 13:10
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1281798	**Analysis Date/Time:**	05/17/19 10:33
Dilution Factor:	10	**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	79.8		0.350	0.25	2.50

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412193-3

Lab Sample ID:	R3412193-3	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 15:00
Lab File ID:	20190517095409	**Received Date/Time:**	05/10/19 08:45
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1281798	**Analysis Date/Time:**	05/17/19 09:54
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	6.28		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412193-6

Lab Sample ID:	R3412193-6	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190517102947	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1281798	**Analysis Date/Time:**	05/17/19 10:29
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	5.11		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412193-4

Lab Sample ID:	R3412193-4	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 15:00
Lab File ID:	20190517095520	**Received Date/Time:**	05/10/19 08:45
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1281798	**Analysis Date/Time:**	05/17/19 09:55
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	6.13		0.0350	0.25	0.250

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	R051719_1
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT6051719094922				LACHAT6051719100228				LACHAT6051719102349			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
KJELDAHL NITROGEN, TKN	10	10.30	103		10	9.900	99		10	9.960	99.60	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	R051719_1
Concentration Units:	mg/L		

CCV

Sample ID: LACHAT6051719103657

Analyte	True	Found	%R	%RSD
KJELDAHL NITROGEN, TKN	10	10.00	100	

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

3-IN BLANKS

SDG:	L1098374	**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:**	R051719_1

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190517095033		20190517100340		20190517102502		20190517103809	
Analyte	mg/l		mg/L		mg/L		mg/L	
KJELDAHL NITROGEN, TKN	0.172	J	0.003300		-0.05990		-0.04040	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1098374-01

SAMPLE NO.:
R3412193-3
R3412193-4

MS Sample / File ID:	R3412193-3 / 20190517095409	**SDG:**	L1098374
MSD Sample / File ID:	R3412193-4 / 20190517095520	**Analytical Batch:**	WG1281798
OS Sample / File ID:	L1097873-01 / 20190517095257	**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	1.11	6.28	6.13	103	100	1	90.0 - 110	2.42	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

L1098374-01

SAMPLE NO.:
R3412193-6

MS Sample / File ID:	R3412193-6 / 20190517102947	**SDG:**	L1098374
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1281798
OS Sample / File ID:	L1098374-01 / 20190517102722	**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	0.0423	5.11		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

L1098374-01

SAMPLE NO.:
R3412193-5

DUP Sample / File ID:	R3412193-5 / 20190517102835	**SDG:**	L1098374
OS Sample / File ID:	L1098374-01 / 20190517102722	**Analytical Batch:**	WG1281798
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	0.0423	0.000	200*	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1098374-01

SAMPLE NO.:
R3412193-7

DUP Sample / File ID:	R3412193-7 / 20190517103322	**SDG:**	L1098374
OS Sample / File ID:	L1097073-01 / 20190517103210	**Analytical Batch:**	WG1281798
Instrument ID:	LACHAT6	**Dilution Factor:**	10
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	83.2	79.8	4.17	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

L1098374-01

SAMPLE NO.:
R3412193-2

LCS Sample / File ID:	R3412193-2 / 20190517095145	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1281798
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	9.87		98.7		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:	L1098374	**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:	L1098374	**Analytical Method:**	351.2
Instrument ID:	LACHAT6	**Calibration Start Date:**	04/08/19 13:21
Analytical Run:	R051719_1	**Calibration End Date:**	04/08/19 13:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT6051719094922	20190517094922	05/17/19 09:49	1	
BLANK	R3412193-1	20190517095033	05/17/19 09:50	1	WG1281798
LCS	R3412193-2	20190517095145	05/17/19 09:51	1	WG1281798
OS	L1097873-01	20190517095257	05/17/19 09:52	1	WG1281798
MS	R3412193-3	20190517095409	05/17/19 09:54	1	WG1281798
MSD	R3412193-4	20190517095520	05/17/19 09:55	1	WG1281798
CCV	LACHAT6051719100228	20190517100228	05/17/19 10:02	1	
CCB	LACHAT6051719100340	20190517100340	05/17/19 10:03	1	
CCV	LACHAT6051719102349	20190517102349	05/17/19 10:23	1	
CCB	LACHAT6051719102502	20190517102502	05/17/19 10:25	1	
WW-20190512-002-DAY 10	L1098374-01	20190517102722	05/17/19 10:27	1	WG1281798
DUP	R3412193-5	20190517102835	05/17/19 10:28	1	WG1281798
MS	R3412193-6	20190517102947	05/17/19 10:29	1	WG1281798
OS	L1097073-01	20190517103210	05/17/19 10:32	10	WG1281798
DUP	R3412193-7	20190517103322	05/17/19 10:33	10	WG1281798
CCV	LACHAT6051719103657	20190517103657	05/17/19 10:36	1	
CCB	LACHAT6051719103809	20190517103809	05/17/19 10:38	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**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:**	R051719_1

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:	L1098374	**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:**	R051719_1

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:	L1098374	**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:**	R051719_1

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:	L1098374	**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:**	R051719_1

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

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1098374	**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:**	R051719_1

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-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190515183547	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1280857	**Analysis Date/Time:**	05/15/19 18:35
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	0.243		0.0350	0.100	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411580-1

Lab Sample ID:	R3411580-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190515180504	**Received Date/Time:**	_____
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1280857	**Analysis Date/Time:**	05/15/19 18:05
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.:
R3411580-2

Lab Sample ID:	R3411580-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190515180621	**Received Date/Time:**	_____
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1280857	**Analysis Date/Time:**	05/15/19 18:06
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	1.87		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411580-5

Lab Sample ID:	R3411580-5	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190515183704	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1280857	**Analysis Date/Time:**	05/15/19 18:37
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	0.250		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411580-7

Lab Sample ID:	R3411580-7	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/09/19 10:25
Lab File ID:	20190515185107	**Received Date/Time:**	05/09/19 13:10
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1280857	**Analysis Date/Time:**	05/15/19 18:51
Dilution Factor:	5	**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	8.55		0.175	0.10	0.500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411580-3

Lab Sample ID:	R3411580-3	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 15:00
Lab File ID:	20190515182531	**Received Date/Time:**	05/10/19 08:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1280857	**Analysis Date/Time:**	05/15/19 18:25
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	2.64		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411580-6

Lab Sample ID:	R3411580-6	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190515183820	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1280857	**Analysis Date/Time:**	05/15/19 18:38
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	2.67		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411580-4

Lab Sample ID:	R3411580-4	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 15:00
Lab File ID:	20190515182648	**Received Date/Time:**	05/10/19 08:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/14/19 15:46
Analytical Batch:	WG1280857	**Analysis Date/Time:**	05/15/19 18:26
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	2.62		0.0350	0.10	0.100

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R051519_6
Concentration Units:	mg/L		

	CCV				**CCV**				**CCV**			
Sample ID:	LACHAT3051519180347				LACHAT3051519181749				LACHAT3051519183313			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
PHOSPHORUS,TOTAL	2.50	2.700	108		2.50	2.660	106		2.50	2.650	106	

CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R051519_6
Concentration Units:	mg/L		

	CCV				**CCV**			
Sample ID:	LACHAT3051519184054				LACHAT3051519185614			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
PHOSPHORUS,TOTAL	2.50	2.690	108		2.50	2.720	109	

CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R051519_6

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190515180504		20190515181907		20190515183429		20190515184211	
Analyte	mg/l		mg/L		mg/L		mg/L	
PHOSPHORUS,TOTAL	U		0.01270		-0.005340		-0.005230	

3-IN BLANKS

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R051519_6

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20190515185732	
Analyte	mg/L	
PHOSPHORUS,TOTAL	0.002930	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1098374-01

SAMPLE NO.:
R3411580-3
R3411580-4

MS Sample / File ID:	R3411580-3 / 20190515182531	**SDG:**	L1098374
MSD Sample / File ID:	R3411580-4 / 20190515182648	**Analytical Batch:**	WG1280857
OS Sample / File ID:	L1097873-01 / 20190515182414	**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	0.177	2.64	2.62	98.5	97.7	1	90.0 - 110	0.760	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

L1098374-01

SAMPLE NO.:
R3411580-6

MS Sample / File ID:	R3411580-6 / 20190515183820	**SDG:**	L1098374
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1280857
OS Sample / File ID:	L1098374-01 / 20190515183547	**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	0.243	2.67		97.1		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

L1098374-01

SAMPLE NO.:
R3411580-5

DUP Sample / File ID:	R3411580-5 / 20190515183704	**SDG:**	L1098374
OS Sample / File ID:	L1098374-01 / 20190515183547	**Analytical Batch:**	WG1280857
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	0.243	0.250	2.84	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1098374-01

SAMPLE NO.:
R3411580-7

DUP Sample / File ID:	R3411580-7 / 20190515185107	**SDG:**	L1098374
OS Sample / File ID:	L1097073-01 / 20190515184950	**Analytical Batch:**	WG1280857
Instrument ID:	LACHAT3	**Dilution Factor:**	5
Analytical Method:	365.4	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	8.80	8.55	2.88	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

L1098374-01

SAMPLE NO.:
R3411580-2

LCS Sample / File ID:	R3411580-2 / 20190515180621	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280857
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	1.87		93.5		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:	L1098374	**Analytical Method:**	365.4
Instrument ID:	LACHAT3	**Calibration Start Date:**	05/14/19 15:36
Analytical Run:	CAL051419_1	**Calibration End Date:**	05/14/19 15:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL 5.0		20190514153648	05/14/19 15:36	1	
CAL 2.5		20190514153805	05/14/19 15:38	1	
CAL 1.0		20190514153922	05/14/19 15:39	1	
CAL 0.5		20190514154038	05/14/19 15:40	1	
CAL 0.1		20190514154155	05/14/19 15:41	1	
CAL 0.0		20190514154311	05/14/19 15:43	1	

12-IN

ANALYSIS LOG

SDG:	L1098374	**Analytical Method:**	365.4
Instrument ID:	LACHAT3	**Calibration Start Date:**	05/14/19 15:36
Analytical Run:	R051519_6	**Calibration End Date:**	05/14/19 15:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CCV	LACHAT3051519180347	20190515180347	05/15/19 18:03	1	
BLANK	R3411580-1	20190515180504	05/15/19 18:05	1	WG1280857
LCS	R3411580-2	20190515180621	05/15/19 18:06	1	WG1280857
CCV	LACHAT3051519181749	20190515181749	05/15/19 18:17	1	
CCB	LACHAT3051519181907	20190515181907	05/15/19 18:19	1	
OS	L1097873-01	20190515182414	05/15/19 18:24	1	WG1280857
MS	R3411580-3	20190515182531	05/15/19 18:25	1	WG1280857
MSD	R3411580-4	20190515182648	05/15/19 18:26	1	WG1280857
CCV	LACHAT3051519183313	20190515183313	05/15/19 18:33	1	
CCB	LACHAT3051519183429	20190515183429	05/15/19 18:34	1	
WW-20190512-002-DAY 10	L1098374-01	20190515183547	05/15/19 18:35	1	WG1280857
DUP	R3411580-5	20190515183704	05/15/19 18:37	1	WG1280857
MS	R3411580-6	20190515183820	05/15/19 18:38	1	WG1280857
CCV	LACHAT3051519184054	20190515184054	05/15/19 18:40	1	
CCB	LACHAT3051519184211	20190515184211	05/15/19 18:42	1	
OS	L1097073-01	20190515184950	05/15/19 18:49	5	WG1280857
DUP	R3411580-7	20190515185107	05/15/19 18:51	5	WG1280857
CCV	LACHAT3051519185614	20190515185614	05/15/19 18:56	1	
CCB	LACHAT3051519185732	20190515185732	05/15/19 18:57	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R051519_6

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
PHOSPHORUS,TOTAL	5	4.87679	97.50	2.50	2.50139	100
File ID:		20190514153648			20190514153805	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R051519_6

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
PHOSPHORUS,TOTAL	1	1.03397	103	0.50	.53003	106
File ID:		20190514153922			20190514154038	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R051519_6

Analyte	**Std Conc** mg/L	**Result** mg/L	**Rec.** %	**Std Conc** mg/L	**Result** mg/L	**Rec.** %
PHOSPHORUS,TOTAL	0.10	.139976	140	0	-.045616	
File ID:		20190514154155			20190514154311	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R051519_6

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
PHOSPHORUS,TOTAL	5	1	0.99955			0.222	-0.00721	

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-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190515140904	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/15/19 09:00
Analytical Batch:	WG1281275	**Analysis Date/Time:**	05/15/19 14:09
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	13.1		3.00	10.0	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411445-1

Lab Sample ID:	R3411445-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190515140609	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/15/19 09:00
Analytical Batch:	WG1281275	**Analysis Date/Time:**	05/15/19 14:06
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.:
R3411445-2

Lab Sample ID:	R3411445-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190515140617	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/15/19 09:00
Analytical Batch:	WG1281275	**Analysis Date/Time:**	05/15/19 14:06
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	219		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411445-3

Lab Sample ID:	R3411445-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/08/19 00:00
Lab File ID:	20190515140631	**Received Date/Time:**	05/09/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/15/19 09:00
Analytical Batch:	WG1281275	**Analysis Date/Time:**	05/15/19 14:06
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	0.000		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411445-6

Lab Sample ID:	R3411445-6	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/13/19 12:55
Lab File ID:	20190515140940	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/15/19 09:00
Analytical Batch:	WG1281275	**Analysis Date/Time:**	05/15/19 14:09
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	17.5		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411445-4

Lab Sample ID:	R3411445-4	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 15:35
Lab File ID:	20190515140747	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/15/19 09:00
Analytical Batch:	WG1281275	**Analysis Date/Time:**	05/15/19 14:07
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	427		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411445-5

Lab Sample ID:	R3411445-5	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 15:35
Lab File ID:	20190515140753	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/15/19 09:00
Analytical Batch:	WG1281275	**Analysis Date/Time:**	05/15/19 14:07
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	426		3.00	10	10.0

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	WG1281275
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	DR6000-1051519140603				DR6000-1051519140712				DR6000-1051519140834			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
COD	400	406.14	102		400	405.62	101		400	404.83	101	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	WG1281275
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-1051519140948

Analyte	True	Found	%R	%RSD
COD	400	402.66	101	

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

3-IN BLANKS

SDG:	L1098374	**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:**	WG1281275

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190515140609		20190515140718		20190515140847		20190515140956	
Analyte	mg/l		mg/L		mg/L		mg/L	
COD	U		-2.869		-5.798		-5.705	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1098374-01

SAMPLE NO.:
R3411445-4
R3411445-5

MS Sample / File ID:	R3411445-4 / 20190515140747	**SDG:**	L1098374
MSD Sample / File ID:	R3411445-5 / 20190515140753	**Analytical Batch:**	WG1281275
OS Sample / File ID:	L1097906-15 / 20190515140741	**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	427	426	105	105	1	80.0 - 120	0.356	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1098374-01

SAMPLE NO.:
R3411445-3

DUP Sample / File ID:	R3411445-3 / 20190515140631	**SDG:**	L1098374
OS Sample / File ID:	L1096937-06 / 20190515140624	**Analytical Batch:**	WG1281275
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	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.

6-IN

DUPLICATES

L1098374-01

SAMPLE NO.:
R3411445-6

DUP Sample / File ID:	R3411445-6 / 20190515140940	**SDG:**	L1098374
OS Sample / File ID:	L1098686-02 / 20190515140934	**Analytical Batch:**	WG1281275
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	17.6	17.5	0.769	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

L1098374-01

SAMPLE NO.:
R3411445-2

LCS Sample / File ID:	R3411445-2 / 20190515140617	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1281275
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	219		98.8		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:	L1098374	**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:	L1098374	**Analytical Method:**	410.4
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/21/19 11:00
Analytical Run:	WG1281275	**Calibration End Date:**	02/21/19 11:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-1051519140603	20190515140603	05/15/19 14:06	1	
BLANK	R3411445-1	20190515140609	05/15/19 14:06	1	WG1281275
LCS	R3411445-2	20190515140617	05/15/19 14:06	1	WG1281275
OS	L1096937-06	20190515140624	05/15/19 14:06	1	WG1281275
DUP	R3411445-3	20190515140631	05/15/19 14:06	1	WG1281275
CCV	DR6000-1051519140712	20190515140712	05/15/19 14:07	1	
CCB	DR6000-1051519140718	20190515140718	05/15/19 14:07	1	
OS	L1097906-15	20190515140741	05/15/19 14:07	1	WG1281275
MS	R3411445-4	20190515140747	05/15/19 14:07	1	WG1281275
MSD	R3411445-5	20190515140753	05/15/19 14:07	1	WG1281275
CCV	DR6000-1051519140834	20190515140834	05/15/19 14:08	1	
CCB	DR6000-1051519140847	20190515140847	05/15/19 14:08	1	
WW-20190512-002-DAY 10	L1098374-01	20190515140904	05/15/19 14:09	1	WG1281275
OS	L1098686-02	20190515140934	05/15/19 14:09	1	WG1281275
DUP	R3411445-6	20190515140940	05/15/19 14:09	1	WG1281275
CCV	DR6000-1051519140948	20190515140948	05/15/19 14:09	1	
CCB	DR6000-1051519140956	20190515140956	05/15/19 14:09	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**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:**	WG1281275

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:	L1098374	**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:**	WG1281275

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:	L1098374	**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:**	WG1281275

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:	L1098374	**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:**	WG1281275

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-20190512-002-DAY 10

Lab Sample ID:	L1098374-02	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190515192414	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/15/19 13:57
Analytical Batch:	WG1281033	**Analysis Date/Time:**	05/15/19 19:24
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	U		0.00180	0.00500	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411585-1

Lab Sample ID:	R3411585-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190515180922	**Received Date/Time:**	_____
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/15/19 13:57
Analytical Batch:	WG1281033	**Analysis Date/Time:**	05/15/19 18:09
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.:
R3411585-2

Lab Sample ID:	R3411585-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190515181023	**Received Date/Time:**	_____
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/15/19 13:57
Analytical Batch:	WG1281033	**Analysis Date/Time:**	05/15/19 18:10
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	0.0987		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411585-3

Lab Sample ID:	R3411585-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/08/19 07:09
Lab File ID:	20190515181733	**Received Date/Time:**	05/09/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/15/19 13:57
Analytical Batch:	WG1281033	**Analysis Date/Time:**	05/15/19 18:17
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.:
R3411585-6

Lab Sample ID:	R3411585-6	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/06/19 13:10
Lab File ID:	20190515191802	**Received Date/Time:**	05/10/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/15/19 13:57
Analytical Batch:	WG1281033	**Analysis Date/Time:**	05/15/19 19:18
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	0.00195		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411585-4

Lab Sample ID:	R3411585-4	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/08/19 08:30
Lab File ID:	20190515182139	**Received Date/Time:**	05/09/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/15/19 13:57
Analytical Batch:	WG1281033	**Analysis Date/Time:**	05/15/19 18:21
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	0.0972		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411585-7

Lab Sample ID:	R3411585-7	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/06/19 19:10
Lab File ID:	20190515192005	**Received Date/Time:**	05/10/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/15/19 13:57
Analytical Batch:	WG1281033	**Analysis Date/Time:**	05/15/19 19:20
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	0.0857		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411585-5

Lab Sample ID:	R3411585-5	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/08/19 08:30
Lab File ID:	20190515182240	**Received Date/Time:**	05/09/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/15/19 13:57
Analytical Batch:	WG1281033	**Analysis Date/Time:**	05/15/19 18:22
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	0.0956		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411585-8

Lab Sample ID:	R3411585-8	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/06/19 19:10
Lab File ID:	20190515192108	**Received Date/Time:**	05/10/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/15/19 13:57
Analytical Batch:	WG1281033	**Analysis Date/Time:**	05/15/19 19:21
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	0.0972		0.00180	0.0050	0.00500

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	R051519_4
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT4051519180820				LACHAT4051519181935				LACHAT4051519183153			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CYANIDE	0.10	0.09830	98.30		0.10	0.09850	98.50		0.10	0.09990	99.90	
REACTIVE CYANIDE	0.10	0.09830	98.30		0.10	0.09850	98.50		0.10	0.09990	99.90	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	R051519_4
Concentration Units:	mg/L		

	CCV				**CCV**			
Sample ID:	LACHAT4051519191356				LACHAT4051519192617			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
CYANIDE	0.10	0.1000	100		0.10	0.1050	105	
REACTIVE CYANIDE	0.10	0.1000	100		0.10	0.1050	105	

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

3-IN BLANKS

SDG:	L1098374	**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:**	R051519_4

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190515180922		20190515182037		20190515183255		20190515191457	
Analyte	mg/l		mg/L		mg/L		mg/L	
CYANIDE	U		-0.0009640		-0.002110		-0.003080	
REACTIVE CYANIDE			-0.0009640		-0.002110		-0.003080	

3-IN BLANKS

SDG:	L1098374	**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:**	R051519_4

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20190515192719	
Analyte	mg/L	
CYANIDE	0.0005780	
REACTIVE CYANIDE	0.0005780	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1098374-02

SAMPLE NO.:
R3411585-4
R3411585-5

MS Sample / File ID:	R3411585-4 / 20190515182139	**SDG:**	L1098374
MSD Sample / File ID:	R3411585-5 / 20190515182240	**Analytical Batch:**	WG1281033
OS Sample / File ID:	L1096846-01 / 20190515181834	**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	0.0972	0.0956	97.2	95.6	1	75.0 - 125	1.66	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

L1098374-02

SAMPLE NO.:
R3411585-7
R3411585-8

MS Sample / File ID:	R3411585-7 / 20190515192005	**SDG:**	L1098374
MSD Sample / File ID:	R3411585-8 / 20190515192108	**Analytical Batch:**	WG1281033
OS Sample / File ID:	L1097557-04 / 20190515191904	**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	0.0857	0.0972	85.7	97.2	1	75.0 - 125	12.6	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1098374-02

SAMPLE NO.:
R3411585-3

DUP Sample / File ID:	R3411585-3 / 20190515181733	**SDG:**	L1098374
OS Sample / File ID:	L1096838-02 / 20190515181632	**Analytical Batch:**	WG1281033
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

L1098374-02

SAMPLE NO.:
R3411585-6

DUP Sample / File ID:	R3411585-6 / 20190515191802	**SDG:**	L1098374
OS Sample / File ID:	L1097557-03 / 20190515191700	**Analytical Batch:**	WG1281033
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	0.00195	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

L1098374-02

SAMPLE NO.:
R3411585-2

LCS Sample / File ID:	R3411585-2 / 20190515181023	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1281033
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	0.0987		98.7		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:	L1098374	**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:	L1098374	**Analytical Method:**	4500CN E-2011
Instrument ID:	LACHAT4	**Calibration Start Date:**	05/08/19 12:20
Analytical Run:	R051519_4	**Calibration End Date:**	05/08/19 12:26

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT4051519180820	20190515180820	05/15/19 18:08	1	
BLANK	R3411585-1	20190515180922	05/15/19 18:09	1	WG1281033
LCS	R3411585-2	20190515181023	05/15/19 18:10	1	WG1281033
OS	L1096838-02	20190515181632	05/15/19 18:16	1	WG1281033
DUP	R3411585-3	20190515181733	05/15/19 18:17	1	WG1281033
OS	L1096846-01	20190515181834	05/15/19 18:18	1	WG1281033
CCV	LACHAT4051519181935	20190515181935	05/15/19 18:19	1	
CCB	LACHAT4051519182037	20190515182037	05/15/19 18:20	1	
MS	R3411585-4	20190515182139	05/15/19 18:21	1	WG1281033
MSD	R3411585-5	20190515182240	05/15/19 18:22	1	WG1281033
CCV	LACHAT4051519183153	20190515183153	05/15/19 18:31	1	
CCB	LACHAT4051519183255	20190515183255	05/15/19 18:32	1	
CCV	LACHAT4051519191356	20190515191356	05/15/19 19:13	1	
CCB	LACHAT4051519191457	20190515191457	05/15/19 19:14	1	
OS	L1097557-03	20190515191700	05/15/19 19:17	1	WG1281033
DUP	R3411585-6	20190515191802	05/15/19 19:18	1	WG1281033
OS	L1097557-04	20190515191904	05/15/19 19:19	1	WG1281033
MS	R3411585-7	20190515192005	05/15/19 19:20	1	WG1281033
MSD	R3411585-8	20190515192108	05/15/19 19:21	1	WG1281033
WW-20190512-002-DAY 10	L1098374-02	20190515192414	05/15/19 19:24	1	WG1281033
CCV	LACHAT4051519192617	20190515192617	05/15/19 19:26	1	
CCB	LACHAT4051519192719	20190515192719	05/15/19 19:27	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**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:**	R051519_4

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:	L1098374	**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:**	R051519_4

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:	L1098374	**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:**	R051519_4

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

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**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:**	R051519_4

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

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1098374	**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:**	R051519_4

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-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190514155911	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/14/19 15:59
Analytical Batch:	WG1280557	**Analysis Date/Time:**	05/14/19 15:59
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.:
R3411134-1

Lab Sample ID:	R3411134-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190514154742	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/14/19 15:47
Analytical Batch:	WG1280557	**Analysis Date/Time:**	05/14/19 15:47
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	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411134-3

Lab Sample ID:	R3411134-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/09/19 11:30
Lab File ID:	20190514154821	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/14/19 15:48
Analytical Batch:	WG1280557	**Analysis Date/Time:**	05/14/19 15:48
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.:
R3411134-2

Lab Sample ID:	R3411134-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190514154749	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/14/19 15:47
Analytical Batch:	WG1280557	**Analysis Date/Time:**	05/14/19 15:47
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	0.460		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411134-8

Lab Sample ID:	R3411134-8	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/08/19 11:45
Lab File ID:	20190514155535	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/14/19 15:55
Analytical Batch:	WG1280557	**Analysis Date/Time:**	05/14/19 15:55
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.:
R3411134-4

Lab Sample ID:	R3411134-4	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 07:55
Lab File ID:	20190514154918	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/14/19 15:49
Analytical Batch:	WG1280557	**Analysis Date/Time:**	05/14/19 15:49
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	0.873		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411134-6

Lab Sample ID:	R3411134-6	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 14:00
Lab File ID:	20190514155147	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/14/19 15:51
Analytical Batch:	WG1280557	**Analysis Date/Time:**	05/14/19 15:51
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	0.831		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411134-5

Lab Sample ID:	R3411134-5	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 07:55
Lab File ID:	20190514154923	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/14/19 15:49
Analytical Batch:	WG1280557	**Analysis Date/Time:**	05/14/19 15:49
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.:
R3411134-7

Lab Sample ID:	R3411134-7	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 14:00
Lab File ID:	20190514155153	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/14/19 15:51
Analytical Batch:	WG1280557	**Analysis Date/Time:**	05/14/19 15:51
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	0.830		0.00650	0.05	0.0500

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	WG1280557
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	DR6000-1051419154715				DR6000-1051419155035				DR6000-1051419155458			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFIDE	1	0.9950	99.50		1	0.9950	99.50		1	0.9950	99.50	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	WG1280557
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-1051419160147

Analyte	True	Found	%R	%RSD
SULFIDE	1	0.9940	99.40	

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

3-IN BLANKS

SDG:	L1098374	**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:**	WG1280557

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190514154742		20190514155044		20190514155508		20190514160159	
Analyte	mg/l		mg/L		mg/L		mg/L	
SULFIDE	U		-0.02800		-0.03200		-0.03600	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1098374-01

SAMPLE NO.:
R3411134-4
R3411134-5

MS Sample / File ID:	R3411134-4 / 20190514154918	**SDG:**	L1098374
MSD Sample / File ID:	R3411134-5 / 20190514154923	**Analytical Batch:**	WG1280557
OS Sample / File ID:	L1098098-08 / 20190514154900	**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	ND	0.873	0.871	87.3	87.1	1	80.0 - 120	0.229	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

L1098374-01

SAMPLE NO.:
R3411134-6
R3411134-7

MS Sample / File ID:	R3411134-6 / 20190514155147	**SDG:**	L1098374
MSD Sample / File ID:	R3411134-7 / 20190514155153	**Analytical Batch:**	WG1280557
OS Sample / File ID:	L1098098-18 / 20190514155129	**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	ND	0.831	0.830	83.1	83.0	1	80.0 - 120	0.120	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1098374-01

SAMPLE NO.:
R3411134-3

DUP Sample / File ID:	R3411134-3 / 20190514154821	**SDG:**	L1098374
OS Sample / File ID:	L1098098-07 / 20190514154815	**Analytical Batch:**	WG1280557
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

L1098374-01

SAMPLE NO.:
R3411134-8

DUP Sample / File ID:	R3411134-8 / 20190514155535	**SDG:**	L1098374
OS Sample / File ID:	L1098098-22 / 20190514155448	**Analytical Batch:**	WG1280557
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.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1098374-01

SAMPLE NO.:
R3411134-2

LCS Sample / File ID:	R3411134-2 / 20190514154749	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280557
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	0.460		92.0		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:	L1098374	**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:	L1098374	**Analytical Method:**	4500S2 D-2011
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/20/19 14:30
Analytical Run:	WG1280557	**Calibration End Date:**	02/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-1051419154715	20190514154715	05/14/19 15:47	1	
BLANK	R3411134-1	20190514154742	05/14/19 15:47	1	WG1280557
LCS	R3411134-2	20190514154749	05/14/19 15:47	1	WG1280557
OS	L1098098-07	20190514154815	05/14/19 15:48	1	WG1280557
DUP	R3411134-3	20190514154821	05/14/19 15:48	1	WG1280557
OS	L1098098-08	20190514154900	05/14/19 15:49	1	WG1280557
MS	R3411134-4	20190514154918	05/14/19 15:49	1	WG1280557
MSD	R3411134-5	20190514154923	05/14/19 15:49	1	WG1280557
CCV	DR6000-1051419155035	20190514155035	05/14/19 15:50	1	
CCB	DR6000-1051419155044	20190514155044	05/14/19 15:50	1	
OS	L1098098-18	20190514155129	05/14/19 15:51	1	WG1280557
MS	R3411134-6	20190514155147	05/14/19 15:51	1	WG1280557
MSD	R3411134-7	20190514155153	05/14/19 15:51	1	WG1280557
OS	L1098098-22	20190514155448	05/14/19 15:54	1	WG1280557
CCV	DR6000-1051419155458	20190514155458	05/14/19 15:54	1	
CCB	DR6000-1051419155508	20190514155508	05/14/19 15:55	1	
DUP	R3411134-8	20190514155535	05/14/19 15:55	1	WG1280557
WW-20190512-002-DAY 10	L1098374-01	20190514155911	05/14/19 15:59	1	WG1280557
CCV	DR6000-1051419160147	20190514160147	05/14/19 16:01	1	
CCB	DR6000-1051419160159	20190514160159	05/14/19 16:01	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**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:**	WG1280557

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:	L1098374	**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:**	WG1280557

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:	L1098374	**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:**	WG1280557

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:	L1098374	**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:**	WG1280557

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

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1098374-01

SAMPLE NO.:
R3411958-4
R3411958-5

LCS Sample / File ID:	R3411958-4 / 0516_13LFB	**SDG:**	L1098374
LCSD Sample / File ID:	R3411958-5 / 0516_17LFBD	**Analytical Batch:**	WG1281300
Instrument ID:	SVGC23	**Dilution Factor:**	1
Analytical Method:	504.1	**Matrix:**	WW

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	0.000289	0.000292	116	117	70.0 - 130	1.03	20
1,2-Dibromo-3-Chloropropane	0.000250	0.000296	0.000297	118	119	70.0 - 130	0.337	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

L1098374-01

SAMPLE NO.:
R3411958-3

DUP Sample / File ID:	R3411958-3 / 0516_07	**SDG:**	L1098374
OS Sample / File ID:	L1097649-119 / 0516_08	**Analytical Batch:**	WG1281300
Lab File ID:	0516_07	**Dilution Factor:**	1
Instrument ID:	SVGC23	**Matrix:**	WW
Analytical Method:	504.1		

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

4A-OR

METHOD BLANK

SAMPLE NO.:
R3411958-1

Lab Sample ID:	R3411958-1	**SDG:**	L1098374
Lab File ID:	0516_04	**Preparation Date/Time:**	05/15/19 09:05
Instrument ID:	SVGC23	**Analysis Date/Time:**	05/16/19 01:42
Analytical Batch:	WG1281300	**Dilution Factor:**	1
Analytical Method:	504.1	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
DUP	R3411958-3	SVGC23	0516_07	05/16/19 02:19
OS	L1097649-119	SVGC23	0516_08	05/16/19 02:31
LCS	R3411958-4	SVGC23	0516_13LFB	05/16/19 03:32
WW-20190512-002-DAY 10	L1098374-01	SVGC23	0516_15	05/16/19 03:56
LCSD	R3411958-5	SVGC23	0516_17LFBD	05/16/19 04:20

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0516_15	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/15/19 09:07
Analytical Batch:	WG1281300	**Analysis Date/Time:**	05/16/19 03:56
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**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:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
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	1.37	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	0513_03	0507A_08

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
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	1.47	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	0513_03	0507A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
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	0513_03	0507A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
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:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
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	0513_03	0507A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
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:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0516_03-1	**Analysis date/time:**	05/16/19 01:30
Analytical Method:	504.1	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002444	97.80	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002619	105	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0516_03-1	**Analysis date/time:**	05/16/19 01:30
Analytical Method:	504.1	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002171	86.80	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002485	99.40	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0516_13-1	**Analysis date/time:**	05/16/19 03:32
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	0.0002963	119	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002888	116	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0516_13-1	**Analysis date/time:**	05/16/19 03:32
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	0.0002584	103	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002688	108	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0516_17-1	**Analysis date/time:**	05/16/19 04:20
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	0.0002969	119	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002921	117	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0516_17-1	**Analysis date/time:**	05/16/19 04:20
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	0.0002527	101	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002678	107	70 - 130

7F-OR

REPORTING LEVEL VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0516_02-1	**Analysis date/time:**	05/16/19 01:18
Analytical Method:	504.1		

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000010	0.000007373	73.70	60 - 140
ETHYLENE DIBROMIDE	0.000010	0.000008804	88	60 - 140

7F-OR

REPORTING LEVEL VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0516_02-1	**Analysis date/time:**	05/16/19 01:18
Analytical Method:	504.1		

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000010	0.00001056	106	60 - 140
ETHYLENE DIBROMIDE	0.000010	0.00001365	137	60 - 140

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1098374	**Analytical Method:**	504.1
Instrument ID:	SVGC23	**Calibration Start Date:**	05/07/19 17:39
		Calibration End Date:	05/13/19 12:59

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	0.50	0507A_08	05/07/19 18:47	1	
CAL	0.25	0513_03	05/13/19 12:59	1	
RL	SVGC230516190516_02-1471812	0516_02-1	05/16/19 01:18	1	
ICV	SVGC230516190516_03-1471812	0516_03-1	05/16/19 01:30	1	
BLANK	R3411958-1	0516_04	05/16/19 01:42	1	WG1281300
DUP	R3411958-3	0516_07	05/16/19 02:19	1	WG1281300
OS	L1097649-119	0516_08	05/16/19 02:31	1	WG1281300
CCV	SVGC230516190516_13-1471812	0516_13-1	05/16/19 03:32	1	
LCS	R3411958-4	0516_13LFB	05/16/19 03:32	1	WG1281300
WW-20190512-002-DAY 10	L1098374-01	0516_15	05/16/19 03:56	1	WG1281300
CCV	SVGC230516190516_17-1471812	0516_17-1	05/16/19 04:20	1	
LCSD	R3411958-5	0516_17LFBD	05/16/19 04:20	1	WG1281300

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3411958-1

Lab Sample ID:	R3411958-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0516_04	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/15/19 09:05
Analytical Batch:	WG1281300	**Analysis Date/Time:**	05/16/19 01:42
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**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.:
R3411958-3

Lab Sample ID:	R3411958-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/10/19 18:35
Lab File ID:	0516_07	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/15/19 09:07
Analytical Batch:	WG1281300	**Analysis Date/Time:**	05/16/19 02:19
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**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.:
R3411958-4

Lab Sample ID:	R3411958-4	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0516_13LFB	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/15/19 09:05
Analytical Batch:	WG1281300	**Analysis Date/Time:**	05/16/19 03:32
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	1.37	0.000289	7.17
1,2-Dibromo-3-Chloropropane	1	3.12	0.000296	13.7

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3411958-5

Lab Sample ID:	R3411958-5	**SDG:**	L1098374
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0516_17LFBD	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/15/19 09:05
Analytical Batch:	WG1281300	**Analysis Date/Time:**	05/16/19 04:20
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	1.37	0.000292	8.68
1,2-Dibromo-3-Chloropropane	1	3.12	0.000297	16.1

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411958-1

Lab Sample ID:	R3411958-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0516_04	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/15/19 09:05
Analytical Batch:	WG1281300	**Analysis Date/Time:**	05/16/19 01:42
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**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.:
R3411958-3

Lab Sample ID:	R3411958-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/10/19 18:35
Lab File ID:	0516_07	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/15/19 09:07
Analytical Batch:	WG1281300	**Analysis Date/Time:**	05/16/19 02:19
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**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.:
R3411958-4

Lab Sample ID:	R3411958-4	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0516_13LFB	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/15/19 09:05
Analytical Batch:	WG1281300	**Analysis Date/Time:**	05/16/19 03:32
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**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	1.37	0.000289		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.12	0.000296		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411958-5

Lab Sample ID:	R3411958-5	**SDG:**	L1098374
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0516_17LFBD	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/15/19 09:05
Analytical Batch:	WG1281300	**Analysis Date/Time:**	05/16/19 04:20
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**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	1.37	0.000292		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.12	0.000297		0.00000430	0.000020	0.0000200

5310 B-2011 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	20190514194336	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/14/19 19:43
Analytical Batch:	WG1280564	**Analysis Date/Time:**	05/14/19 19:43
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)		1.62	B	0.102	1.00	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411254-1

Lab Sample ID:	R3411254-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20190514113142	**Received Date/Time:**	
Instrument ID:	TOC3	**Preparation Date/Time:**	05/14/19 11:31
Analytical Batch:	WG1280564	**Analysis Date/Time:**	05/14/19 11:31
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)		0.386	J	0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411254-2

Lab Sample ID:	R3411254-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20190514120527	**Received Date/Time:**	
Instrument ID:	TOC3	**Preparation Date/Time:**	05/14/19 12:05
Analytical Batch:	WG1280564	**Analysis Date/Time:**	05/14/19 12:05
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		79.9		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411254-3

Lab Sample ID:	R3411254-3	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/10/19 14:00
Lab File ID:	20190514131507	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/14/19 13:15
Analytical Batch:	WG1280564	**Analysis Date/Time:**	05/14/19 13:15
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		3.40		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411254-6

Lab Sample ID:	R3411254-6	**SDG:**	L1098374
Client Sample ID:	DUP	**Collected Date/Time:**	05/13/19 09:30
Lab File ID:	20190514172951	**Received Date/Time:**	05/14/19 08:00
Instrument ID:	TOC3	**Preparation Date/Time:**	05/14/19 17:29
Analytical Batch:	WG1280564	**Analysis Date/Time:**	05/14/19 17:29
Dilution Factor:	20	**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		90.7		2.04	1	20.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411254-4

Lab Sample ID:	R3411254-4	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/10/19 10:00
Lab File ID:	20190514155932	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/14/19 15:59
Analytical Batch:	WG1280564	**Analysis Date/Time:**	05/14/19 15:59
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		50.7		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411254-7

Lab Sample ID:	R3411254-7	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/13/19 09:00
Lab File ID:	20190514201711	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/14/19 20:17
Analytical Batch:	WG1280564	**Analysis Date/Time:**	05/14/19 20:17
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		52.8		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411254-5

Lab Sample ID:	R3411254-5	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/10/19 10:00
Lab File ID:	20190514161633	**Received Date/Time:**	05/11/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/14/19 16:16
Analytical Batch:	WG1280564	**Analysis Date/Time:**	05/14/19 16:16
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		50.9		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411254-8

Lab Sample ID:	R3411254-8	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/13/19 09:00
Lab File ID:	20190514203401	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/14/19 20:34
Analytical Batch:	WG1280564	**Analysis Date/Time:**	05/14/19 20:34
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		52.4		0.102	1	1.00

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	051419
Concentration Units:	mg/L		

	ICV				**SSCCV**				**CCV**			
Sample ID:	TOC30514191117				TOC30514191402				TOC30514191433			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	50	52.19	104		75	79.62	106		50	51.67	103	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	051419
Concentration Units:	mg/L		

	SSCCV				**CCV**				**SSCCV**			
Sample ID:	TOC30514191751				TOC30514191822				TOC30514192051			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	75	79.88	107		50	51.84	104		75	79.43	106	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1098374	**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:**	051419
Concentration Units:	mg/L		

CCV

Sample ID: TOC30514192122

Analyte	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	50	51.95	104	

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

3-IN BLANKS

SDG:	L1098374	**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:**	051419

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190514113142		20190514151228		20190514183705		20190514213446	
Analyte	mg/l		mg/L		mg/L		mg/L	
TOC (TOTAL ORGANIC CARBON)	0.386	J	0.3703	U	0.3992	U	0.3124	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1098374-01

SAMPLE NO.:
R3411254-4
R3411254-5

MS Sample / File ID:	R3411254-4 / 20190514155932	**SDG:**	L1098374
MSD Sample / File ID:	R3411254-5 / 20190514161633	**Analytical Batch:**	WG1280564
OS Sample / File ID:	L1098069-05 / 20190514154239	**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	ND	50.7	50.9	101	101	1	80.0 - 120	0.335	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

L1098374-01

SAMPLE NO.:
R3411254-7
R3411254-8

MS Sample / File ID:	R3411254-7 / 20190514201711	**SDG:**	L1098374
MSD Sample / File ID:	R3411254-8 / 20190514203401	**Analytical Batch:**	WG1280564
OS Sample / File ID:	L1098383-01 / 20190514195939	**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	2.49	52.8	52.4	101	99.8	1	80.0 - 120	0.875	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1098374-01

SAMPLE NO.:
R3411254-3

DUP Sample / File ID:	R3411254-3 / 20190514131507	**SDG:**	L1098374
OS Sample / File ID:	L1097948-06 / 20190514130142	**Analytical Batch:**	WG1280564
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	3.71	3.40	8.61	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1098374-01

SAMPLE NO.:
R3411254-6

DUP Sample / File ID:	R3411254-6 / 20190514172951	**SDG:**	L1098374
OS Sample / File ID:	L1098315-01 / 20190514171653	**Analytical Batch:**	WG1280564
Instrument ID:	TOC3	**Dilution Factor:**	20
Analytical Method:	5310 B-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
TOC	91.5	90.7	0.900	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

L1098374-01

SAMPLE NO.:
R3411254-2

LCS Sample / File ID:	R3411254-2 / 20190514120527	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280564
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	79.9		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:	L1098374	**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:	L1098374	**Analytical Method:**	5310 B-2011
Instrument ID:	TOC3	**Calibration Start Date:**	01/16/19 13:22
Analytical Run:	051419	**Calibration End Date:**	01/16/19 14:50

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	TOC30514191117	20190514111750	05/14/19 11:17	1	
BLANK	R3411254-1	20190514113142	05/14/19 11:31	1	WG1280564
RL	TOC30514191148	20190514114812	05/14/19 11:48	1	
LCS	R3411254-2	20190514120527	05/14/19 12:05	1	WG1280564
OS	L1097948-06	20190514130142	05/14/19 13:01	1	WG1280564
DUP	R3411254-3	20190514131507	05/14/19 13:15	1	WG1280564
SSCCV	TOC30514191402	20190514140217	05/14/19 14:02	1	
CCV	TOC30514191433	20190514143354	05/14/19 14:33	1	
CCB	TOC30514191512	20190514151228	05/14/19 15:12	1	
OS	L1098069-05	20190514154239	05/14/19 15:42	1	WG1280564
MS	R3411254-4	20190514155932	05/14/19 15:59	1	WG1280564
MSD	R3411254-5	20190514161633	05/14/19 16:16	1	WG1280564
OS	L1098315-01	20190514171653	05/14/19 17:16	20	WG1280564
DUP	R3411254-6	20190514172951	05/14/19 17:29	20	WG1280564
SSCCV	TOC30514191751	20190514175131	05/14/19 17:51	1	
CCV	TOC30514191822	20190514182232	05/14/19 18:22	1	
CCB	TOC30514191837	20190514183705	05/14/19 18:37	1	
WW-20190512-002-DAY 10	L1098374-01	20190514194336	05/14/19 19:43	1	WG1280564
OS	L1098383-01	20190514195939	05/14/19 19:59	1	WG1280564
MS	R3411254-7	20190514201711	05/14/19 20:17	1	WG1280564
MSD	R3411254-8	20190514203401	05/14/19 20:34	1	WG1280564
SSCCV	TOC30514192051	20190514205122	05/14/19 20:51	1	
CCV	TOC30514192122	20190514212245	05/14/19 21:22	1	
CCB	TOC30514192134	20190514213446	05/14/19 21:34	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1098374	**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:**	051419

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:	L1098374	**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:**	051419

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:	L1098374	**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:**	051419

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:	L1098374	**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:**	051419

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:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	TOT Out
WW-20190512-002 -DAY 10	L1098374-01	VOCMS32	0514_31	94.4	117	92.9	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:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	TOT Out
BLANK	R3411533-3	VOCMS32	0514_11	96.4	88.7	109	0
LCS	R3411533-1	VOCMS32	0514_05	98.3	96.5	107	0

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

L1098374-01

SAMPLE NO.:
R3411533-1

LCS Sample / File ID:	R3411533-1 / 0514_05	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280881
Instrument ID:	VOCMS32	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Acetone	0.125	0.0946		75.7		10.0 - 160		
Acrylonitrile	0.125	0.0875		70.0		60.0 - 140		
Benzene	0.0250	0.0215		85.9		65.0 - 135		
Bromobenzene	0.0250	0.0208		83.2		79.0 - 120		
Bromodichloromethane	0.0250	0.0229		91.6		70.0 - 135		
Bromochloromethane	0.0250	0.0237		94.7		76.0 - 122		
Bromoform	0.0250	0.0228		91.2		70.0 - 130		
Bromomethane	0.0250	0.0232		92.7		15.0 - 185		
n-Butylbenzene	0.0250	0.0224		89.5		72.0 - 126		
sec-Butylbenzene	0.0250	0.0217		86.7		74.0 - 121		
tert-Butylbenzene	0.0250	0.0227		90.6		75.0 - 122		
Carbon disulfide	0.0250	0.0199		79.7		55.0 - 127		
Carbon tetrachloride	0.0250	0.0254		102		70.0 - 130		
Chlorobenzene	0.0250	0.0236		94.5		65.0 - 135		
Chlorodibromomethane	0.0250	0.0227		91.0		70.0 - 135		
Chloroethane	0.0250	0.0220		88.0		40.0 - 160		
Chloroform	0.0250	0.0233		93.3		70.0 - 135		
Chloromethane	0.0250	0.0220		88.1		0.100 - 205		
2-Chlorotoluene	0.0250	0.0232		92.8		74.0 - 122		
4-Chlorotoluene	0.0250	0.0225		89.9		79.0 - 120		
Dibromomethane	0.0250	0.0228		91.3		78.0 - 120		
1,2-Dichlorobenzene	0.0250	0.0215		86.0		65.0 - 135		
1,3-Dichlorobenzene	0.0250	0.0209		83.5		70.0 - 130		
1,4-Dichlorobenzene	0.0250	0.0212		84.8		65.0 - 135		
Dichlorodifluoromethane	0.0250	0.0288		115		49.0 - 155		
1,1-Dichloroethane	0.0250	0.0225		90.2		70.0 - 130		
1,2-Dichloroethane	0.0250	0.0231		92.5		70.0 - 130		
1,1-Dichloroethene	0.0250	0.0212		84.9		50.0 - 150		
cis-1,2-Dichloroethene	0.0250	0.0228		91.2		73.0 - 120		
trans-1,2-Dichloroethene	0.0250	0.0241		96.3		70.0 - 130		
1,2-Dichloropropane	0.0250	0.0225		90.0		35.0 - 165		
1,1-Dichloropropene	0.0250	0.0229		91.8		71.0 - 129		
cis-1,3-Dichloropropene	0.0250	0.0220		88.1		25.0 - 175		
trans-1,3-Dichloropropene	0.0250	0.0222		88.8		50.0 - 150		
2,2-Dichloropropane	0.0250	0.0288		115		60.0 - 125		
Ethylbenzene	0.0250	0.0233		93.1		60.0 - 140		
2-Hexanone	0.125	0.0948		75.9		58.0 - 147		
Isopropylbenzene	0.0250	0.0232		92.8		75.0 - 120		
p-Isopropyltoluene	0.0250	0.0221		88.3		74.0 - 126		
2-Butanone (MEK)	0.125	0.0959		76.7		37.0 - 158		
Methylene Chloride	0.0250	0.0235		93.9		60.0 - 140		
4-Methyl-2-pentanone (MIBK)	0.125	0.0962		76.9		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

L1098374-01

SAMPLE NO.:
R3411533-1

LCS Sample / File ID:	R3411533-1 / 0514_05	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280881
Instrument ID:	VOCMS32	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	WW

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	0.0220		88.0		64.0 - 123		
n-Propylbenzene	0.0250	0.0229		91.4		79.0 - 120		
Styrene	0.0250	0.0229		91.5		78.0 - 124		
1,1,1,2-Tetrachloroethane	0.0250	0.0237		94.6		75.0 - 122		
1,1,2,2-Tetrachloroethane	0.0250	0.0200		80.0		60.0 - 140		
1,1,2-Trichlorotrifluoroethane	0.0250	0.0233		93.1		61.0 - 136		
Tetrachloroethene	0.0250	0.0258		103		70.0 - 130		
Toluene	0.0250	0.0216		86.3		70.0 - 130		
1,2,3-Trichlorobenzene	0.0250	0.0229		91.7		61.0 - 133		
1,2,4-Trichlorobenzene	0.0250	0.0243		97.1		69.0 - 129		
1,1,1-Trichloroethane	0.0250	0.0240		96.1		70.0 - 130		
1,1,2-Trichloroethane	0.0250	0.0216		86.2		70.0 - 130		
Trichloroethene	0.0250	0.0220		88.2		65.0 - 135		
Trichlorofluoromethane	0.0250	0.0267		107		50.0 - 150		
1,2,3-Trichloropropane	0.0250	0.0204		81.6		72.0 - 124		
1,2,4-Trimethylbenzene	0.0250	0.0221		88.2		75.0 - 120		
1,3,5-Trimethylbenzene	0.0250	0.0225		90.1		75.0 - 120		
Vinyl chloride	0.0250	0.0243		97.4		5.00 - 195		
Xylenes, Total	0.0750	0.0680		90.7		77.0 - 120		
1,3-Dichloropropene	0.0500	0.0442		88.4		25.0 - 175		
o-Xylene	0.0250	0.0226		90.2		78.0 - 120		
m&p-Xylenes	0.0500	0.0454		90.9		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.:
R3411533-3

Lab Sample ID:	R3411533-3	**SDG:**	L1098374
Lab File ID:	0514_11	**Preparation Date/Time:**	05/14/19 14:02
Instrument ID:	VOCMS32	**Analysis Date/Time:**	05/14/19 14:02
Analytical Batch:	WG1280881	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3411533-1	VOCMS32	0514_05	05/14/19 11:55
WW-20190512-002-DAY 10	L1098374-01	VOCMS32	0514_31	05/14/19 21:44

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0313_05-6	**SDG:**	L1098374
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:**	L1098374
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:	0514_04T-2	**SDG:**	L1098374
Instrument ID:	VOCMS32	**Analytical Method:**	624.1
Analysis Date/Time:	05/14/19 11:35		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	103
96	95	5	9	7
173	174	0	2	1
174	95	50	200	97
175	174	5	9	7
176	174	95	105	97
177	176	5	10	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS320514190514_04-2470434	0514_04-2	05/14/19 11:35
LCS	R3411533-1	0514_05	05/14/19 11:55
BLANK	R3411533-3	0514_11	05/14/19 14:02
WW-20190512-002-DAY 10	L1098374-01	0514_31	05/14/19 21:44

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1098374	**Analytical Method:**	624.1
Instrument ID:	VOCMS32	**Calibration Start Date:**	03/13/19 19:12
Std File:	0514_04-2	**Calibration End Date:**	04/24/19 12:26
		Std Analysis Date:	05/14/19 11:35

Sample ID	File ID	1,4-DCB		8260-CB		8260-FB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		46733	7.92	64711	6.48	152388	4.54
UPPER LIMIT		93466		129422		304776	
LOWER LIMIT		23367		32356		76194	
LCS R3411533-1 WG1280881 1x	0514_05	47245	7.92	64357	6.48	154049	4.54
BLANK R3411533-3 WG1280881 1x	0514_11	38779	7.92	58218	6.48	141844	4.54
L1098374-01 WG1280881 1x	0514_31	35035	7.92	50672	6.48	118196	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-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0514_31	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/14/19 21:44
Analytical Batch:	WG1280881	**Analysis Date/Time:**	05/14/19 21:44
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**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	0.00156		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	U		0.000380	0.00100	0.00100
Bromoform	75-25-2	0	U		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	U		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

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0514_31	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/14/19 21:44
Analytical Batch:	WG1280881	**Analysis Date/Time:**	05/14/19 21:44
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**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	0.00183		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	U		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

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **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: L1098374 **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: L1098374 **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	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **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			

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**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

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**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

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0514_04-2	**Analysis date/time:**	05/14/19 11:35
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	0.85168840		6.15		0.0250	0.02346369	93.90	75 - 122
1,1,1-TRICHLOROETHANE	0.596102	0.59649010		0.0651		0.0250	0.02501627	100	70 - 130
1,1,2,2-TETRACHLOROETHANE	1.864647	1.467249		21.30		0.0250	0.01967194	78.70	60 - 140
1,1,2-TRICHLOROETHANE	0.872095	0.740998		15		0.0250	0.02124191	85	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.336364	0.33442640		0.5760		0.0250	0.02485601	99.40	61 - 136
1,1-DICHLOROETHANE	0.815251	0.75975330		6.81		0.0250	0.02329813	93.20	70 - 130
1,1-DICHLOROETHENE	0.323699	0.30632130		5.37		0.0250	0.02365785	94.60	50 - 150
1,1-DICHLOROPROPENE	0.486261	0.45876160		5.66		0.0250	0.02358618	94.30	71 - 129
1,2,3-TRICHLOROBENZENE	0.970254	0.84392960		13		0.0250	0.02174506	87	61 - 133
1,2,3-TRICHLOROPROPANE	0.534851	0.42762080		20		0.0250	0.01998783	80	72 - 124
1,2,4-TRICHLOROBENZENE	1.036410	0.97801560		5.63		0.0250	0.02359143	94.40	69 - 129
1,2,4-TRIMETHYLBENZENE	4.585439	4.117539		10.20		0.0250	0.02244899	89.80	75 - 120
1,2-DICHLOROBENZENE	1.733674	1.493831		13.80		0.0250	0.0215414	86.20	65 - 135
1,2-DICHLOROETHANE	0.654942	0.60295780		7.94		0.0250	0.02301569	92.10	70 - 130
1,2-DICHLOROPROPANE	0.335604	0.30344440		9.58		0.0250	0.02260431	90.40	35 - 165
1,3,5-TRIMETHYLBENZENE	4.946873	4.496749		9.10		0.0250	0.02272521	90.90	75 - 120
1,3-DICHLOROBENZENE	2.254956	1.921178		14.80		0.0250	0.0212995	85.20	70 - 130
1,4-DICHLOROBENZENE	2.171986	1.842926		15.20		0.0250	0.02121245	84.80	65 - 135
2,2-DICHLOROPROPANE	0.361249	0.43295380		19.80		0.0250	0.0299623	120	60 - 125
2-BUTANONE (MEK)	0.379738	0.28734230		24.30		0.1250	0.09458576	75.70	37 - 158
2-CHLOROTOLUENE	4.395718	4.134083		5.95		0.0250	0.02351199	94	74 - 122
2-HEXANONE	0.715863	0.51849190		27.60		0.1250	0.09053614	72.40	58 - 147
4-CHLOROTOLUENE	4.208669	3.853558		8.44		0.0250	0.0228906	91.60	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.954956	1.471950		24.70		0.1250	0.09411656	75.30	59 - 143
ACETONE	0.229864	0.17367040		24.40		0.1250	0.09444182	75.60	10 - 160
ACRYLONITRILE	0.300324	0.21116290		29.70		0.1250	0.08788949	70.30	60 - 140
BENZENE	1.483708	1.313922		11.40		0.0250	0.02213916	88.60	65 - 135
BROMOBENZENE	2.632167	2.209824		16		0.0250	0.02098863	84	79 - 120
BROMOCHLOROMETHANE	0.266571	0.25424370		4.62		0.0250	0.02384393	95.40	76 - 122
BROMODICHLOROMETHANE	0.545383	0.49333860		9.54		0.0250	0.02261431	90.50	65 - 135
BROMOFORM	0.821149	0.727043		11.50		0.0250	0.02213493	88.50	70 - 130
BROMOMETHANE	0.318304	0.30543510		4.04		0.0250	0.02398926	96	15 - 185
CARBON DISULFIDE	1.087645	0.97784510		10.10		0.0250	0.02247619	89.90	55 - 127
CARBON TETRACHLORIDE	0.578054	0.60958920		5.46		0.0250	0.02636384	105	70 - 130
CHLOROBENZENE	2.465764	2.314359		6.14		0.0250	0.02346492	93.90	65 - 135
CHLORODIBROMOMETHANE	1.048936	0.94601050		9.81		0.0250	0.02254691	90.20	70 - 135
CHLOROETHANE	0.285885	0.26161430		8.49		0.0250	0.02287761	91.50	40 - 160
CHLOROFORM	0.713025	0.67557660		5.25		0.0250	0.02368698	94.70	70 - 130
CHLOROMETHANE	0.734081	0.70709190		3.68		0.0250	0.02408087	96.30	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.404491	0.37741140		6.69		0.0250	0.0233263	93.30	73 - 120
CIS-1,3-DICHLOROPROPENE	0.636558	0.56881750		10.60		0.0250	0.02233958	89.40	25 - 175
CYCLOHEXANE	0.479434	0.44173980		7.86		0.0250	0.02303444	92.10	70 - 130
DIBROMOMETHANE	0.267960	0.24086310		10.10		0.0250	0.02247191	89.90	78 - 120
DICHLORODIFLUOROMETHANE	0.338354	0.41022440		21.20		0.0250	0.03031026	121	49 - 155
ETHYLBENZENE	1.297099	1.217663		6.12		0.0250	0.02346896	93.90	60 - 140
ISOPROPYLBENZENE	4.104152	3.802220		7.36		0.0250	0.02316081	92.60	75 - 120
M&P-XYLENE	1.625318	1.490808		8.28		0.05	0.04586204	91.70	77 - 120

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0514_04-2	**Analysis date/time:**	05/14/19 11:35
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	0.43846650		22.70		0.1250	0.09657547	77.30	70 - 130
METHYL CYCLOHEXANE	0.573608	0.49485890		13.70		0.0250	0.02156783	86.30	70 - 130
METHYL TERT-BUTYL ETHER	0.994075	0.88089260		11.40		0.0250	0.02215358	88.60	64 - 123
METHYLENE CHLORIDE	0.367772	0.35604280		3.19		0.0250	0.02420266	96.80	60 - 140
N-BUTYLBENZENE	2.917578	2.611931		10.50		0.0250	0.02238099	89.50	72 - 126
N-PROPYLBENZENE	6.795190	6.391304		5.94		0.0250	0.02351407	94.10	79 - 120
O-XYLENE	1.607269	1.429361		11.10		0.0250	0.02223275	88.90	78 - 120
P-ISOPROPYLTOLUENE	4.213964	3.730455		11.50		0.0250	0.02213151	88.50	74 - 126
SEC-BUTYLBENZENE	5.282131	4.605103		12.80		0.0250	0.02179566	87.20	74 - 121
STYRENE	2.653591	2.434326		8.26		0.0250	0.02293426	91.70	78 - 124
TERT-BUTYLBENZENE	3.881309	3.534072		8.95		0.0250	0.0227634	91.10	75 - 122
TETRACHLOROETHENE	0.778550	0.79367290		1.94		0.0250	0.02548562	102	70 - 130
TOLUENE	4.032941	3.492689		13.40		0.0250	0.021651	86.60	70 - 130
TRANS-1,2-DICHLOROETHENE	0.343442	0.34017590		0.9510		0.0250	0.02476225	99	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.459769	1.272414		12.80		0.0250	0.02179136	87.20	50 - 150
TRICHLOROETHENE	0.420146	0.38274510		8.90		0.0250	0.02277452	91.10	65 - 135
TRICHLOROFLUOROMETHANE	0.603299	0.66461930		10.20		0.0250	0.02754106	110	50 - 150
VINYL CHLORIDE	0.529583	0.56089250		5.91		0.0250	0.026478	106	5 - 195
XYLENES, TOTAL	0	2.035954		0		0.0750	0.06809479	90.80	77 - 120
1,2-DICHLOROETHANE-D4	0.357974	0.375187		4.81		0.0160	0.01676938	105	70 - 130
4-BROMOFLUOROBENZENE	0.902858	0.84925280		5.94		0.0160	0.01505004	94.10	70 - 130
TOLUENE-D8	2.383499	2.305466		3.27		0.0160	0.01547618	96.70	70 - 130

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411533-3

Lab Sample ID:	R3411533-3	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0514_11	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/14/19 14:02
Analytical Batch:	WG1280881	**Analysis Date/Time:**	05/14/19 14:02
Dilution Factor:	1	**Prep Method:**	624.1/8260B/8260C
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**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
Bromodichloromethane	75-27-4	0	U		0.000380	0.0010	0.00100
Bromochloromethane	74-97-5	0	U		0.000520	0.0050	0.00500
Bromoform	75-25-2	0	U		0.000469	0.0010	0.00100
Bromomethane	74-83-9	0	U		0.000866	0.0050	0.00500
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 disulfide	75-15-0	0	U		0.000275	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
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
Cyclohexane	110-82-7	0	U		0.000390	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
Isopropylbenzene	98-82-8	0	U		0.000326	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
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

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411533-3

Lab Sample ID:	R3411533-3	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0514_11	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/14/19 14:02
Analytical Batch:	WG1280881	**Analysis Date/Time:**	05/14/19 14:02
Dilution Factor:	1	**Prep Method:**	624.1/8260B/8260C
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**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 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
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000303	0.0010	0.00100
Tetrachloroethene	127-18-4	0	U		0.000372	0.0010	0.00100
Methyl Acetate	79-20-9	0	U		0.00430	0.02	0.0200
Toluene	108-88-3	0	U		0.000412	0.0010	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.0010	0.00100
Methyl Cyclohexane	108-87-2	0	U		0.000380	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
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000387	0.0010	0.00100
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
o-Xylene	95-47-6	0	U		0.000341	0.0010	0.00100
m&p-Xylenes	1330-20-7	0	U		0.000719	0.0020	0.00200
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.:
R3411533-1

Lab Sample ID:	R3411533-1	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0514_05	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/14/19 11:55
Analytical Batch:	WG1280881	**Analysis Date/Time:**	05/14/19 11:55
Dilution Factor:	1	**Prep Method:**	624.1/8260B/8260C
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**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	0.0946		0.0100	0.05	0.0500
Acrylonitrile	107-13-1	3.56	0.0875		0.00187	0.01	0.0100
Benzene	71-43-2	4.32	0.0215		0.000331	0.0010	0.00100
Bromobenzene	108-86-1	7.39	0.0208		0.000352	0.0010	0.00100
Bromodichloromethane	75-27-4	4.97	0.0229		0.000380	0.0010	0.00100
Bromochloromethane	74-97-5	3.95	0.0237		0.000520	0.0010	0.00100
Bromoform	75-25-2	6.97	0.0228		0.000469	0.0010	0.00100
Bromomethane	74-83-9	2.20	0.0232		0.000866	0.0050	0.00500
n-Butylbenzene	104-51-8	7.99	0.0224		0.000361	0.0010	0.00100
sec-Butylbenzene	135-98-8	7.78	0.0217		0.000365	0.0010	0.00100
tert-Butylbenzene	98-06-6	7.69	0.0227		0.000399	0.0010	0.00100
Carbon disulfide	75-15-0	2.77	0.0199		0.000275	0.0010	0.00100
Carbon tetrachloride	56-23-5	4.07	0.0254		0.000379	0.0010	0.00100
Chlorobenzene	108-90-7	6.50	0.0236		0.000348	0.0010	0.00100
Chlorodibromomethane	124-48-1	5.98	0.0227		0.000327	0.0010	0.00100
Chloroethane	75-00-3	2.30	0.0220		0.000453	0.0050	0.00500
Chloroform	67-66-3	3.97	0.0233		0.000324	0.0050	0.00500
Chloromethane	74-87-3	1.89	0.0220		0.000276	0.0025	0.00250
2-Chlorotoluene	95-49-8	7.50	0.0232		0.000375	0.0010	0.00100
4-Chlorotoluene	106-43-4	7.60	0.0225		0.000351	0.0010	0.00100
Dibromomethane	74-95-3	4.90	0.0228		0.000346	0.0010	0.00100
1,2-Dichlorobenzene	95-50-1	8.06	0.0215		0.000349	0.0010	0.00100
1,3-Dichlorobenzene	541-73-1	7.89	0.0209		0.000220	0.0010	0.00100
1,4-Dichlorobenzene	106-46-7	7.93	0.0212		0.000274	0.0010	0.00100
Dichlorodifluoromethane	75-71-8	1.71	0.0288		0.000551	0.0050	0.00500
1,1-Dichloroethane	75-34-3	3.53	0.0225		0.000259	0.0010	0.00100
1,2-Dichloroethane	107-06-2	4.43	0.0231		0.000361	0.0010	0.00100
1,1-Dichloroethene	75-35-4	2.73	0.0212		0.000398	0.0010	0.00100
cis-1,2-Dichloroethene	156-59-2	3.84	0.0228		0.000260	0.0010	0.00100
trans-1,2-Dichloroethene	156-60-5	3.18	0.0241		0.000396	0.0010	0.00100
1,2-Dichloropropane	78-87-5	4.95	0.0225		0.000306	0.0010	0.00100
1,1-Dichloropropene	563-58-6	4.17	0.0229		0.000352	0.0010	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.35	0.0220		0.000418	0.0010	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.75	0.0222		0.000419	0.0010	0.00100
2,2-Dichloropropane	594-20-7	3.90	0.0288		0.000321	0.0010	0.00100
Ethylbenzene	100-41-4	6.49	0.0233		0.000384	0.0010	0.00100
2-Hexanone	591-78-6	6.24	0.0948		0.00382	0.01	0.0100
Isopropylbenzene	98-82-8	7.10	0.0232		0.000326	0.0010	0.00100
p-Isopropyltoluene	99-87-6	7.84	0.0221		0.000350	0.0010	0.00100
2-Butanone (MEK)	78-93-3	4.14	0.0959		0.00393	0.01	0.0100
Methylene Chloride	75-09-2	3.08	0.0235		0.00100	0.0050	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.70	0.0962		0.00214	0.01	0.0100
Methyl tert-butyl ether	1634-04-4	3.22	0.0220		0.000367	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411533-1

Lab Sample ID:	R3411533-1	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0514_05	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/14/19 11:55
Analytical Batch:	WG1280881	**Analysis Date/Time:**	05/14/19 11:55
Dilution Factor:	1	**Prep Method:**	624.1/8260B/8260C
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**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*
n-Propylbenzene	103-65-1	7.38	0.0229		0.000349	0.0010	0.00100
Styrene	100-42-5	6.93	0.0229		0.000307	0.0010	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.53	0.0237		0.000385	0.0010	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.42	0.0200		0.000130	0.0010	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.75	0.0233		0.000303	0.0010	0.00100
Tetrachloroethene	127-18-4	5.75	0.0258		0.000372	0.0010	0.00100
Toluene	108-88-3	5.50	0.0216		0.000412	0.0010	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.65	0.0229		0.000230	0.0010	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.49	0.0243		0.000355	0.0010	0.00100
1,1,1-Trichloroethane	71-55-6	4.11	0.0240		0.000319	0.0010	0.00100
1,1,2-Trichloroethane	79-00-5	5.86	0.0216		0.000383	0.0010	0.00100
Trichloroethene	79-01-6	4.64	0.0220		0.000398	0.0010	0.00100
Trichlorofluoromethane	75-69-4	2.39	0.0267		0.00120	0.0050	0.00500
1,2,3-Trichloropropane	96-18-4	7.52	0.0204		0.000807	0.0010	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.73	0.0221		0.000373	0.0010	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.50	0.0225		0.000387	0.0010	0.00100
Vinyl chloride	75-01-4	1.95	0.0243		0.000259	0.0010	0.00100
Xylenes, Total	1330-20-7	6.89	0.0680		0.00106	0.0030	0.00300
1,3-Dichloropropene	542-75-6	5.75	0.0442		0.000837	0.0020	0.00200
o-Xylene	95-47-6	6.89	0.0226		0.000341	0.0010	0.00100
m&p-Xylenes	1330-20-7	6.58	0.0454		0.000719	0.0020	0.00200

625.1 Semi Volatile Organic Compounds (GC/MS)

2A-OR

SURROGATE RECOVERY

Analytical Method: 625.1 **SDG:** L1098374
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-20190512-002 -DAY 10	L1098374-01	BNAMS19	0516_17	48.4	30.1	65.6	68.7	66.5	76.3	0
WW-20190512-002 -DAY 10	L1098374-01	BNAMS24	0516A_23	46.6	29.3	74.2	64.4	65.5	76.8	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:** L1098374
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.*	
BLANK	R3412206-4	BNAMS19	0516_15	67.9	75.7	81.8	28.3	46.6	72.5	0
LCS	R3412206-2	BNAMS19	0516_13	63.5	75.1	78.9	34.8	47.5	77.0	0
LCSD	R3412206-3	BNAMS19	0516_14	61.9	75.8	81.0	38.6	49.0	75.5	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Nitrobenzene-d5	15.0 - 314
DMC-2	2-Fluorobiphenyl	22.0 - 127
DMC-3	p-Terphenyl-d14	29.0 - 141
DMC-4	Phenol-d5	8.00 - 424
DMC-5	2-Fluorophenol	10.0 - 120
DMC-6	2,4,6-Tribromophenol	10.0 - 153

*: 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

L1098374-01

SAMPLE NO.:
R3412206-1

LCS Sample / File ID:	R3412206-1 / 0516_12	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1282468
Instrument ID:	BNAMS19	**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*		*%*	*%*	*%*	*%*	*%*
Hexachlorophene	0.100	ND		0.000*		50.0 - 150		
n-Nitrosodiethylamine	0.0500	0.0354		70.8		10.0 - 142		
n-Nitrosodi-n-butylamine	0.0500	0.0347		69.4		39.0 - 127		
Pentachlorobenzene	0.0500	0.0353		70.6		10.0 - 151		

*: 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

L1098374-01

SAMPLE NO.:
R3412206-2
R3412206-3

LCS Sample / File ID:	R3412206-2 / 0516_13	**SDG:**	L1098374
LCSD Sample / File ID:	R3412206-3 / 0516_14	**Analytical Batch:**	WG1282468
Instrument ID:	BNAMS19	**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*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Acenaphthene	0.0500	0.0369	0.0373	73.8	74.6	47.0 - 145	1.08	48
Acenaphthylene	0.0500	0.0396	0.0400	79.2	80.0	33.0 - 145	1.01	74
Anthracene	0.0500	0.0387	0.0397	77.4	79.4	27.0 - 133	2.55	66
Benzidine	0.100	0.0249	0.0355	24.9	35.5	1.00 - 120	35.1	36
Biphenyl	0.0500	0.0374	0.0381	74.8	76.2	37.0 - 120	1.85	27
Benzo(a)anthracene	0.0500	0.0396	0.0412	79.2	82.4	33.0 - 143	3.96	53
Benzo(b)fluoranthene	0.0500	0.0412	0.0434	82.4	86.8	24.0 - 159	5.20	71
Benzo(k)fluoranthene	0.0500	0.0405	0.0412	81.0	82.4	11.0 - 162	1.71	63
Benzo(a)pyrene	0.0500	0.0359	0.0382	71.8	76.4	17.0 - 163	6.21	72
Bis(2-chlorethoxy)methane	0.0500	0.0351	0.0352	70.2	70.4	1.00 - 219	0.284	54
Bis(2-chloroethyl)ether	0.0500	0.0800	0.0846	160	169	33.0 - 185	5.59	108
Bis(2-chloroisopropyl)ether	0.0500	0.0344	0.0345	68.8	69.0	36.0 - 166	0.290	76
Carbazole	0.0500	0.0399	0.0412	79.8	82.4	45.0 - 121	3.21	22
2-Chloronaphthalene	0.0500	0.0377	0.0379	75.4	75.8	60.0 - 120	0.529	24
Chrysene	0.0500	0.0372	0.0393	74.4	78.6	17.0 - 168	5.49	87
Dibenz(a,h)anthracene	0.0500	0.0387	0.0416	77.4	83.2	1.00 - 227	7.22	126
3,3-Dichlorobenzidine	0.100	0.0715	0.0755	71.5	75.5	1.00 - 262	5.44	108
2,4-Dinitrotoluene	0.0500	0.0391	0.0406	78.2	81.2	39.0 - 139	3.76	42
2,6-Dinitrotoluene	0.0500	0.0397	0.0411	79.4	82.2	50.0 - 158	3.47	48
Fluoranthene	0.0500	0.0396	0.0414	79.2	82.8	26.0 - 137	4.44	66
Fluorene	0.0500	0.0401	0.0407	80.2	81.4	59.0 - 121	1.49	38
Hexachlorobenzene	0.0500	0.0373	0.0375	74.6	75.0	1.00 - 152	0.535	55
Hexachloro-1,3-butadiene	0.0500	0.0331	0.0315	66.2	63.0	24.0 - 120	4.95	62
Hexachlorocyclopentadiene	0.0500	0.0311	0.0299	62.2	59.8	10.0 - 120	3.93	31
Hexachloroethane	0.0500	0.0336	0.0316	67.2	63.2	40.0 - 120	6.13	52
Indeno(1,2,3-cd)pyrene	0.0500	0.0362	0.0420	72.4	84.0	1.00 - 171	14.8	99
Isophorone	0.0500	0.0346	0.0348	69.2	69.6	21.0 - 196	0.576	93
Naphthalene	0.0500	0.0327	0.0319	65.4	63.8	21.0 - 133	2.48	65
Nitrobenzene	0.0500	0.0415	0.0415	83.0	83.0	35.0 - 180	0.000	62
n-Nitrosodimethylamine	0.0500	0.0159	0.0166	31.8	33.2	10.0 - 120	4.31	34
n-Nitrosodiphenylamine	0.0500	0.0387	0.0394	77.4	78.8	44.0 - 120	1.79	21
n-Nitrosodi-n-propylamine	0.0500	0.0379	0.0376	75.8	75.2	1.00 - 230	0.795	87
Phenanthrene	0.0500	0.0375	0.0385	75.0	77.0	54.0 - 120	2.63	39
Benzylbutyl phthalate	0.0500	0.0406	0.0428	81.2	85.6	1.00 - 152	5.28	60
Bis(2-ethylhexyl)phthalate	0.0500	0.0403	0.0418	80.6	83.6	8.00 - 158	3.65	82
Di-n-butyl phthalate	0.0500	0.0424	0.0450	84.8	90.0	1.00 - 120	5.95	47
Diethyl phthalate	0.0500	0.0389	0.0405	77.8	81.0	1.00 - 120	4.03	100
Dimethyl phthalate	0.0500	0.0388	0.0403	77.6	80.6	1.00 - 120	3.79	183
Pyrene	0.0500	0.0401	0.0420	80.2	84.0	52.0 - 120	4.63	49
Benzoic Acid	0.100	0.0316	0.0306	31.6	30.6	10.0 - 120	3.22	40
Aniline	0.0500	0.0269	0.0308	53.8	61.6	10.0 - 120	13.5	25
1,2-Diphenylhydrazine	0.0500	0.0413	0.0424	82.6	84.8	37.0 - 125	2.63	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

L1098374-01

SAMPLE NO.:
R3412206-2
R3412206-3

LCS Sample / File ID:	R3412206-2 / 0516_13	**SDG:**	L1098374
LCSD Sample / File ID:	R3412206-3 / 0516_14	**Analytical Batch:**	WG1282468
Instrument ID:	BNAMS19	**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*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Benzyl Alcohol	0.0500	0.0363	0.0390	72.6	78.0	20.0 - 120	7.17	22
4-Chloroaniline	0.0500	0.0277	0.0299	55.4	59.8	23.0 - 120	7.64	28
4-Chloro-3-methylphenol	0.0500	0.0354	0.0369	70.8	73.8	22.0 - 147	4.15	73
2-Chlorophenol	0.0500	0.0345	0.0345	69.0	69.0	23.0 - 134	0.000	61
Dibenzofuran	0.0500	0.0374	0.0387	74.8	77.4	42.0 - 120	3.42	21
2,4-Dichlorophenol	0.0500	0.0359	0.0358	71.8	71.6	39.0 - 135	0.279	50
2,4-Dimethylphenol	0.0500	0.0322	0.0328	64.4	65.6	32.0 - 120	1.85	58
4,6-Dinitro-2-methylphenol	0.0500	0.0350	0.0381	70.0	76.2	1.00 - 181	8.48	203
2,4-Dinitrophenol	0.0500	0.0257	0.0276	51.4	55.2	1.00 - 191	7.13	132
2-Methylnaphthalene	0.0500	0.0332	0.0345	66.4	69.0	35.0 - 120	3.84	25
2-Methylphenol	0.0500	0.0310	0.0322	62.0	64.4	26.0 - 120	3.80	27
3&4-Methyl Phenol	0.0500	0.0327	0.0351	65.4	70.2	27.0 - 120	7.08	28
2-Nitroaniline	0.0500	0.0406	0.0429	81.2	85.8	43.0 - 120	5.51	23
3-Nitroaniline	0.0500	0.0327	0.0382	65.4	76.4	35.0 - 123	15.5	25
4-Nitroaniline	0.0500	0.0349	0.0389	69.8	77.8	23.0 - 160	10.8	26
2-Nitrophenol	0.0500	0.0379	0.0372	75.8	74.4	29.0 - 182	1.86	55
4-Nitrophenol	0.0500	0.0154	0.0187	30.8	37.4	1.00 - 132	19.4	131
Pentachlorophenol	0.0500	0.0241	0.0256	48.2	51.2	14.0 - 176	6.04	86
Phenol	0.0500	0.0150	0.0164	30.0	32.8	5.00 - 120	8.92	64
Pyridine	0.0500	0.0169	0.0189	33.8	37.8	10.0 - 120	11.2	39
2,4,6-Trichlorophenol	0.0500	0.0410	0.0413	82.0	82.6	37.0 - 144	0.729	58
n-Decane	0.0500	0.0287	0.0277	57.4	55.4	10.0 - 127	3.55	37
n-Octadecane	0.0500	0.0345	0.0347	69.0	69.4	17.0 - 126	0.578	23
Acetophenone	0.0500	0.0371	0.0370	74.2	74.0	28.0 - 120	0.270	27
1,2,4,5-Tetrachlorobenzene	0.0500	0.0349	0.0349	69.8	69.8	31.0 - 120	0.000	26
2,4,5-Trichlorophenol	0.0500	0.0437	0.0451	87.4	90.2	44.0 - 124	3.15	24
1-Methylnaphthalene	0.0500	0.0341	0.0339	68.2	67.8	33.0 - 120	0.588	23
Atrazine	0.0500	0.0375	0.0401	75.0	80.2	39.0 - 141	6.70	30
Benzaldehyde	0.0500	0.0576	0.0556	115	111	10.0 - 160	3.53	30
Caprolactam	0.0500	0.0131	0.0150	26.2	30.0	10.0 - 120	13.5	30

*: 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.:
R3412206-4

Lab Sample ID:	R3412206-4	**SDG:**	L1098374
Lab File ID:	0516_15	**Preparation Date/Time:**	05/16/19 07:04
Instrument ID:	BNAMS19	**Analysis Date/Time:**	05/16/19 17:01
Analytical Batch:	WG1282468	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3412206-1	BNAMS19	0516_12	05/16/19 15:59
LCS	R3412206-2	BNAMS19	0516_13	05/16/19 16:20
LCSD	R3412206-3	BNAMS19	0516_14	05/16/19 16:41
WW-20190512-002-DAY 10	L1098374-01	BNAMS19	0516_17	05/16/19 17:43
WW-20190512-002-DAY 10	L1098374-01	BNAMS19	0516_17a	05/16/19 17:43
WW-20190512-002-DAY 10	L1098374-01	BNAMS24	0516A_23	05/17/19 11:02

4A-OR

METHOD BLANK

SAMPLE NO.:
R3412206-5

Lab Sample ID:	R3412206-5	**SDG:**	L1098374
Lab File ID:	0516_15a	**Preparation Date/Time:**	05/16/19 07:04
Instrument ID:	BNAMS19	**Analysis Date/Time:**	05/16/19 17:01
Analytical Batch:	WG1282468	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3412206-1	BNAMS19	0516_12	05/16/19 15:59
LCS	R3412206-2	BNAMS19	0516_13	05/16/19 16:20
LCSD	R3412206-3	BNAMS19	0516_14	05/16/19 16:41
WW-20190512-002-DAY 10	L1098374-01	BNAMS19	0516_17	05/16/19 17:43
WW-20190512-002-DAY 10	L1098374-01	BNAMS19	0516_17a	05/16/19 17:43
WW-20190512-002-DAY 10	L1098374-01	BNAMS24	0516A_23	05/17/19 11:02

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0428_02-2	**SDG:**	L1098374
Instrument ID:	BNAMS19	**Analytical Method:**	625.1
Analysis Date/Time:	04/28/19 13:36		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	47
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	52
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	98
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-40	40	0428_03	04/28/19 13:57
STD-200	200	0428_04	04/28/19 14:17
STD-1000	1000	0428_05	04/28/19 14:38
STD-2000	2000	0428_06	04/28/19 14:59
STD-5000	5000	0428_07	04/28/19 15:20
STD-10000	10000	0428_08	04/28/19 15:40
STD-20000	20000	0428_09	04/28/19 16:01
STD-30000	30000	0428_10	04/28/19 16:21
STD-40000	40000	0428_11	04/28/19 16:42
STD-50000	50000	0428_12	04/28/19 17:03
STD-1K1	1K1	0428_13	04/28/19 17:23
STD-2K1	2K1	0428_14	04/28/19 17:44
STD-5K1	5K1	0428_15	04/28/19 18:05
STD-10K1	10K1	0428_16	04/28/19 18:25
STD-20K1	20K1	0428_17	04/28/19 18:46
STD-30K1	30K1	0428_18	04/28/19 19:07
STD-40K1	40K1	0428_19	04/28/19 19:27
STD-50K1	50K1	0428_20	04/28/19 19:48
SSCV	BNAMS190428190428_21-2472076	0428_21-2	04/28/19 20:09
SSCV	BNAMS190428190428_22-2472076	0428_22-2	04/28/19 20:29

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0430_02-2	**SDG:**	L1098374
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_23-2472079	0430_23-2	05/01/19 00:45
SSCV	BNAMS190430190430_23A-2472079	0430_23A-2	05/01/19 00:45
SSCV	BNAMS190430190430_23B-2472079	0430_23B-2	05/01/19 00:45

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0516_02T-2	**SDG:**	L1098374
Instrument ID:	BNAMS19	**Analytical Method:**	625.1
Analysis Date/Time:	05/16/19 12:32		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	28
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	442	10	80	45
197	198	0	2	0
198	442	50	100	96
199	198	5	9	7
275	442	10	60	27
365	198	1	100	4
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
ICV	BNAMS190516190516_03-2472076	0516_03-2	05/16/19 12:52
ICV	BNAMS190516190516_04-2472076	0516_04-2	05/16/19 13:13
ICV	BNAMS190516190516_05-2472079	0516_05-2	05/16/19 13:33
ICV	BNAMS190516190516_06-2472079	0516_06-2	05/16/19 13:54
ICV	BNAMS190516190516_07-2472079	0516_07-2	05/16/19 14:15
LCS	R3412206-1	0516_12	05/16/19 15:59
LCS	R3412206-2	0516_13	05/16/19 16:20
LCSD	R3412206-3	0516_14	05/16/19 16:41
BLANK	R3412206-4	0516_15	05/16/19 17:01
BLANK	R3412206-5	0516_15a	05/16/19 17:01
WW-20190512-002-DAY 10	L1098374-01	0516_17	05/16/19 17:43
WW-20190512-002-DAY 10	L1098374-01	0516_17a	05/16/19 17:43

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0512_02-2	**SDG:**	L1098374
Instrument ID:	BNAMS24	**Analytical Method:**	625.1
Analysis Date/Time:	05/12/19 11:43		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	52
68	69	0	2	2
69	69	100	100	100
70	69	0	2	1
127	198	10	80	53
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	23
365	198	1	100	2
441	442	0.0001	24	15
442	198	50	100	94
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-200	200	0512_03	05/12/19 12:05
STD-40	40	0512_04	05/12/19 12:25
STD-1000	1000	0512_05	05/12/19 12:46
STD-2000	2000	0512_06	05/12/19 13:06
STD-5000	5000	0512_07	05/12/19 13:26
STD-10000	10000	0512_08	05/12/19 13:47
STD-20000	20000	0512_09	05/12/19 14:07
STD-30000	30000	0512_10	05/12/19 14:27
STD-40000	40000	0512_11	05/12/19 14:48
STD-50000	50000	0512_12	05/12/19 15:08
STD-1K1	1K1	0512_13	05/12/19 15:29
STD-2K1	2K1	0512_14	05/12/19 15:49
STD-5K1	5K1	0512_15	05/12/19 16:09
STD-10K1	10K1	0512_16	05/12/19 16:30
STD-20K1	20K1	0512_17	05/12/19 16:50
STD-30K1	30K1	0512_18	05/12/19 17:11
STD-40K1	40K1	0512_19	05/12/19 17:31
STD-50K1	50K1	0512_20	05/12/19 17:52
SSCV	BNAMS240512190512_21-2471878	0512_21-2	05/12/19 18:12
SSCV	BNAMS240512190512_22-2471878	0512_22-2	05/12/19 18:33

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0516A_02T-3	**SDG:**	L1098374
Instrument ID:	BNAMS24	**Analytical Method:**	625.1
Analysis Date/Time:	05/17/19 00:05		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	51
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	51
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	22
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	97
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS24051619A0516A_03-3471878	0516A_03-3	05/17/19 00:25
ICV	BNAMS24051619A0516A_04-3471878	0516A_04-3	05/17/19 00:46
WW-20190512-002-DAY 10	L1098374-01	0516A_23	05/17/19 11:02

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1098374	**Analytical Method:**	625.1
Instrument ID:	BNAMS19	**Calibration Start Date:**	04/30/19 17:52
Std File:	0516_03-2	**Calibration End Date:**	05/01/19 00:25
		Std Analysis Date:	05/16/19 12:52

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		166717	3.29	530007	5.12	883429	8.67	975862	4.03
UPPER LIMIT		333434		1060014		1766858		1951724	
LOWER LIMIT		83359		265004		441715		487931	
LCS R3412206-1 WG1282468 1x	0516_12	272275	3.29	538432	5.11	922797	8.65	1233361	4.03
LCS R3412206-2 WG1282468 1x	0516_13	277136	3.29	556238	5.11	961895	8.65	1149834	4.02
LCSD R3412206-3 WG1282468 1x	0516_14	258775	3.29	519317	5.11	906761	8.65	1081915	4.02
BLANK R3412206-5 WG1282468 1x	0516_15a	273042	3.28	544837	5.11	925690	8.64	1034990	4.02
BLANK R3412206-4 WG1282468 1x	0516_15	273042	3.28	544837	5.11	925548	8.64	1034990	4.02
L1098374-01 WG1282468 1x	0516_17	264907	3.28	542191	5.11	938022	8.64	1006049	4.02

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:	L1098374	**Analytical Method:**	625.1
Instrument ID:	BNAMS19	**Calibration Start Date:**	04/30/19 17:52
Std File:	0516_03-2	**Calibration End Date:**	05/01/19 00:25
		Std Analysis Date:	05/16/19 12:52

Sample ID	**File ID**	**PER**		**PHEN**	
		Response	*RT*	*Response*	*RT*
STANDARD		862263	11.19	951818	6.12
UPPER LIMIT		1724526		1903636	
LOWER LIMIT		431132		475909	
LCS R3412206-1 WG1282468 1x	0516_12	847649	11.17	981302	6.11
LCS R3412206-2 WG1282468 1x	0516_13	888489	11.16	1023125	6.11
LCSD R3412206-3 WG1282468 1x	0516_14	864337	11.16	965149	6.11
BLANK R3412206-5 WG1282468 1x	0516_15a	856800	11.16	986056	6.10
BLANK R3412206-4 WG1282468 1x	0516_15	857904	11.16	989914	6.10
L1098374-01 WG1282468 1x	0516_17	874958	11.16	981696	6.10

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:	L1098374	**Analytical Method:**	625.1
Instrument ID:	BNAMS24	**Calibration Start Date:**	05/12/19 12:05
Std File:	0516A_03-3	**Calibration End Date:**	05/12/19 17:52
		Std Analysis Date:	05/17/19 00:25

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		148804	3.35	302670	5.17	518527	8.72	578960	4.09
UPPER LIMIT		297608		605340		1037054		1157920	
LOWER LIMIT		74402		151335		259264		289480	
L1098374-01 WG1282468 1x	0516A_23	190644	3.35	395471	5.17	563543	8.73	762083	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:	L1098374	**Analytical Method:**	625.1
Instrument ID:	BNAMS24	**Calibration Start Date:**	05/12/19 12:05
Std File:	0516A_03-3	**Calibration End Date:**	05/12/19 17:52
		Std Analysis Date:	05/17/19 00:25

Sample ID	File ID	PER		PHEN	
		Response	*RT*	*Response*	*RT*
STANDARD		492091	11.25	581489	6.16
UPPER LIMIT		984182		1162978	
LOWER LIMIT		246046		290745	
L1098374-01 WG1282468 1x	0516A_23	504292	11.27	719458	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.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0516_17	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:05
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 17:43
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	5.13	U		0.000316	0.00100	0.00100
Acenaphthylene	208-96-8	0	U		0.000309	0.00100	0.00100
Acetophenone	98-86-2	3.50	U		0.00271	0.0100	0.0100
Aniline	62-53-3	3.24	U		0.00243	0.0100	0.0100
Anthracene	120-12-7	6.11	U		0.000291	0.00100	0.00100
Atrazine	1912-24-9	0	U		0.000260	0.0100	0.0100
Benzaldehyde	100-52-7	3.02	U		0.00140	0.0100	0.0100
Benzidine	92-87-5	0	U		0.00432	0.0100	0.0100
Benzo(a)anthracene	56-55-3	8.64	U		0.0000975	0.00100	0.00100
Benzo(b)fluoranthene	205-99-2	0	U		0.0000896	0.00100	0.00100
Benzo(k)fluoranthene	207-08-9	0	U		0.000355	0.00100	0.00100
Benzo(a)pyrene	50-32-8	11.16	U		0.000340	0.00100	0.00100
Benzoic acid	65-85-0	4.08	U		0.00440	0.0100	0.0100
Benzyl alcohol	100-51-6	3.42	U		0.000393	0.0100	0.0100
Biphenyl	92-52-4	4.74	U		0.000325	0.0100	0.0100
Bis(2-chlorethoxy)methane	111-91-1	3.79	U		0.000329	0.0100	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.14	U		0.00162	0.0100	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.43	U		0.000445	0.0100	0.0100
Caprolactam	105-60-2	4.28	U		0.00259	0.0100	0.0100
Carbazole	86-74-8	6.31	U		0.000260	0.0100	0.0100
4-Chloroaniline	106-47-8	4.14	U		0.000382	0.0100	0.0100
2-Chloronaphthalene	91-58-7	4.80	U		0.000330	0.00100	0.00100
Chrysene	218-01-9	8.64	U		0.000332	0.00100	0.00100
n-Decane	124-18-5	3.13	U		0.000596	0.0100	0.0100
Dibenz(a,h)anthracene	53-70-3	13.02	U		0.000279	0.00100	0.00100
Dibenzofuran	132-64-9	0	U		0.000338	0.0100	0.0100
3,3-Dichlorobenzidine	91-94-1	0	U		0.00202	0.0100	0.0100
2,4-Dinitrotoluene	121-14-2	0	U		0.00165	0.0100	0.0100
2,6-Dinitrotoluene	606-20-2	4.97	U		0.000279	0.0100	0.0100
1,2-Diphenylhydrazine	103-33-3	5.57	U		0.000318	0.0100	0.0100
Fluoranthene	206-44-0	7.03	U		0.000310	0.00100	0.00100
Fluorene	86-73-7	0	U		0.000323	0.00100	0.00100
Hexachlorobenzene	118-74-1	0	U		0.000341	0.00100	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000329	0.0100	0.0100
Hexachlorocyclopentadiene	77-47-4	0	U		0.00233	0.0100	0.0100
Hexachloroethane	67-72-1	3.57	U		0.000365	0.0100	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	13.10	U		0.000279	0.00100	0.00100
Isophorone	78-59-1	3.74	U		0.000272	0.0100	0.0100
1-Methylnaphthalene	90-12-0	4.52	U		0.000332	0.00100	0.00100
2-Methylnaphthalene	91-57-6	4.45	U		0.000311	0.00100	0.00100
2-Nitroaniline	88-74-4	0	U		0.00190	0.0100	0.0100
3-Nitroaniline	99-09-2	5.16	U		0.000308	0.0100	0.0100
4-Nitroaniline	100-01-6	0	U		0.000349	0.0100	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0516_17	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:05
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 17:43
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*
Naphthalene	91-20-3	4.03	U		0.000372	0.00100	0.00100
Nitrobenzene	98-95-3	3.62	U		0.000367	0.0100	0.0100
n-Nitrosodiphenylamine	86-30-6	0	U		0.00119	0.0100	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.46	U		0.000403	0.0100	0.0100
Phenanthrene	85-01-8	6.11	U		0.000366	0.00100	0.00100
Pyridine	110-86-1	2.06	U		0.00137	0.0100	0.0100
Benzylbutyl phthalate	85-68-7	0	U		0.000275	0.00300	0.00300
Bis(2-Ethylhexyl)phthalate	117-81-7	8.67	0.000891	J	0.000709	0.00300	0.00300
Di-n-butyl phthalate	84-74-2	6.50	U		0.000266	0.00300	0.00300
Diethyl phthalate	84-66-2	5.37	U		0.000282	0.00300	0.00300
Dimethyl phthalate	131-11-3	4.97	U		0.000283	0.00300	0.00300
n-Octadecane	593-45-3	5.98	U		0.000377	0.0100	0.0100
Pyrene	129-00-0	7.23	U		0.000330	0.00100	0.00100
1,2,4,5-Tetrachlorobenzene	95-94-3	0	U		0.00241	0.0100	0.0100
4-Chloro-3-methylphenol	59-50-7	4.47	U		0.000263	0.0100	0.0100
2-Chlorophenol	95-57-8	3.24	U		0.000283	0.0100	0.0100
2,4-Dichlorophenol	120-83-2	0	U		0.000284	0.0100	0.0100
2,4-Dimethylphenol	105-67-9	3.91	U		0.000624	0.0100	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	0	U		0.00262	0.0100	0.0100
2,4-Dinitrophenol	51-28-5	0	U		0.00325	0.0100	0.0100
2-Methylphenol	95-48-7	3.52	U		0.000312	0.0100	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.62	U		0.000266	0.0100	0.0100
2-Nitrophenol	88-75-5	0	U		0.000320	0.0100	0.0100
4-Nitrophenol	100-02-7	0	U		0.00201	0.0100	0.0100
Pentachlorophenol	87-86-5	0	U		0.000313	0.0100	0.0100
Phenol	108-95-2	3.24	0.000970	J	0.000334	0.0100	0.0100
2,4,5-Trichlorophenol	95-95-4	0	U		0.000236	0.0100	0.0100
2,4,6-Trichlorophenol	88-06-2	0	U		0.000297	0.0100	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0516_17a	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:05
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 17:43
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*
Hexachlorophene	70-30-4	0	U	J4	0.00144	0.0500	0.0500
n-Nitrosodiethylamine	55-18-5	0	U		0.000497	0.0100	0.0100
n-Nitrosodi-n-butylamine	924-16-3	0	U		0.000331	0.0100	0.0100
Pentachlorobenzene	608-93-5	0	U		0.000369	0.0100	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0516A_23	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	BNAMS24	**Preparation Date/Time:**	05/16/19 07:05
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/17/19 11:02
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-Nitrosodimethylamine	62-75-9	2.12	U		0.00126	0.0100	0.0100

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **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: L1098374 **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: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS19

Analyte	RRF: 40	RRF: 200	RRF: 1000	RRF: 2000	RRF: 5000	RRF: 10000	RRF: 20000	RRF: 30000	RRF: 40000	RRF: 50000
Analysis date/time	04/28/19 13:57	04/28/19 14:17	04/28/19 14:38	04/28/19 14:59	04/28/19 15:20	04/28/19 15:40	04/28/19 16:01	04/28/19 16:21	04/28/19 16:42	04/28/19 17:03
NAPHTHALENE	0.9530	0.9840	0.9880	1.0060	0.9950	0.94	0.9760	0.9430	0.9060	0.8450
2-METHYLNAPHTHALENE	0.6570	0.6370	0.6470	0.6710	0.6770	0.6420	0.6640	0.6490	0.6190	0.5920
1-METHYLNAPHTHALENE	0.5540	0.6150	0.6290	0.64	0.6430	0.60	0.6290	0.6150	0.5880	0.5570
2-CHLORONAPHTHALENE	1.1980	1.1440	1.1630	1.1470	1.1740	1.0960	1.1310	1.0960	1.0590	1.0260
ACENAPHTHYLENE	1.7440	1.6650	1.8230	1.8460	1.8850	1.7650	1.8390	1.7640	1.6770	1.5920
ACENAPHTHENE	1.2580	1.1850	1.2160	1.1830	1.2090	1.1210	1.16	1.1250	1.07	1.0290
FLUORENE	1.1680	1.2330	1.3520	1.3340	1.3430	1.2540	1.2890	1.2530	1.1810	1.1440
PHENANTHRENE	1.1560	1.1090	1.0590	1.0630	1.0420	0.9820	0.9930	0.9880	0.9440	0.8910
ANTHRACENE	0.9670	0.9840	1.0560	1.0690	1.08	1.0260	1.0380	1.0190	0.9720	0.9020
FLUORANTHENE	0.9470	0.94	1.0490	1.0620	1.1040	1.0580	1.0860	1.0660	1.0230	0.9780
PYRENE	0.9870	1.0020	1.1160	1.1510	1.1820	1.1360	1.18	1.1620	1.1060	1.0710
BENZO(A)ANTHRACENE	1.4690	0.97	0.9820	1.0160	1.0540	1.0220	1.07	1.0860	1.0550	1.0190
CHRYSENE	1.0610	1.0930	1.0870	1.0950	1.1170	1.0590	1.0920	1.0820	1.0410	1.0030
BENZO(B)FLUORANTHENE	0.7880	0.8660	0.9860	1.06	1.1370	1.0930	1.1740	1.1770	1.1560	1.1350
BENZO(K)FLUORANTHENE	0.8050	0.9090	1.0980	1.0870	1.1360	1.1270	1.1780	1.17	1.1450	1.0670
BENZO(A)PYRENE	0.7060	0.7660	0.9370	1.0380	1.10	1.0790	1.1480	1.1520	1.1330	1.0890
INDENO(1,2,3-CD)PYRENE	0.7420	0.7450	0.8660	0.9040	0.9860	0.9420	1.0250	1.0480	1.0680	1.1810
DIBENZ(A,H)ANTHRACENE	0.7040	0.8120	0.9410	0.9680	1.0510	0.9950	1.0440	1.0470	1.0360	1.1010
ANILINE		0.6310	0.6770	0.6970	0.7020	0.6850	0.7270	0.7290	0.6990	0.7040
BIS(2-CHLOROETHYL)ETHER		1.1480	1.2040	1.1930	1.2010	1.1530	1.1450	1.1740	1.1330	1.0630
PHENOL		1.3260	1.4070	1.45	1.4550	1.4020	1.4770	1.4760	1.4050	1.4010
2-CHLOROPHENOL		1.1140	1.2670	1.2720	1.3090	1.2550	1.3120	1.3220	1.2570	1.2360
BENZYL ALCOHOL		0.82	0.8790	0.9080	0.9460	0.9250	0.9820	1	0.9530	0.9510
BIS(2-CHLOROISOPROPYL)ETHER		0.4430	0.43	0.4240	0.4330	0.4160	0.4320	0.4350	0.4120	0.4080
2-METHYLPHENOL		1.0110	1.0460	1.0990	1.1270	1.0980	1.1510	1.1590	1.1040	1.09
HEXACHLOROETHANE		0.52	0.5540	0.5620	0.5650	0.5280	0.5530	0.5470	0.5250	0.5150
N-NITROSODI-N-PROPYLAMINE		0.7510	0.8040	0.8230	0.8480	0.8090	0.8540	0.8540	0.8110	0.8030
3&4-METHYL PHENOL		1.0090	1.1560	1.2190	1.2650	1.2070	1.2730	1.3020	1.2360	1.2330
NITROBENZENE		0.2990	0.3110	0.3230	0.32	0.3030	0.3210	0.3180	0.3050	0.2990
ISOPHORONE		0.50	0.5630	0.5770	0.5890	0.5570	0.5950	0.5950	0.5770	0.5660
2-NITROPHENOL		0.1480	0.1530	0.1680	0.1760	0.1730	0.1880	0.1890	0.1830	0.1820
2,4-DIMETHYLPHENOL		0.27	0.2840	0.2980	0.3030	0.2880	0.3050	0.3070	0.2950	0.2870
BIS(2-CHLORETHOXY)METHANE		0.3620	0.3660	0.3650	0.3710	0.3490	0.3670	0.3630	0.3450	0.3340
2,4-DICHLOROPHENOL		0.22	0.2460	0.25	0.2620	0.2520	0.2680	0.2710	0.2650	0.2590
4-CHLOROANILINE		0.1120	0.1110	0.1160	0.1190	0.1120	0.1190	0.1180	0.1140	0.11
HEXACHLORO-1,3-BUTADIENE		0.1530	0.1510	0.1540	0.1540	0.1460	0.1520	0.15	0.1480	0.1420
4-CHLORO-3-METHYLPHENOL		0.2080	0.2280	0.2440	0.2550	0.2480	0.27	0.2740	0.2640	0.2560
HEXACHLOROCYCLOPENTADIENE		0.37	0.3650	0.3620	0.3920	0.3680	0.3890	0.3880	0.3730	0.3670
2,4,6-TRICHLOROPHENOL		0.2630	0.3050	0.3490	0.3670	0.3530	0.3780	0.3650	0.3540	0.3490
2,4,5-TRICHLOROPHENOL		0.2870	0.34	0.3220	0.3550	0.3490	0.38	0.3810	0.3720	0.3670
BIPHENYL		1.5330	1.5310	1.52	1.5360	1.4250	1.4640	1.3880	1.3240	1.2860
2-NITROANILINE		0.33	0.3570	0.3850	0.43	0.4130	0.4450	0.4460	0.4310	0.4280
DIMETHYL PHTHALATE		1.2210	1.3030	1.2950	1.3470	1.2640	1.3020	1.2750	1.2190	1.1990
2,6-DINITROTOLUENE		0.2480	0.3020	0.31	0.3290	0.3130	0.3350	0.33	0.3170	0.3120
3-NITROANILINE		0.2850	0.3320	0.3380	0.3740	0.36	0.3840	0.3810	0.3730	0.3690
DIBENZOFURAN		1.6620	1.6790	1.6670	1.6640	1.5620	1.5860	1.5350	1.46	1.3810
2,4-DINITROTOLUENE		0.3060	0.3940	0.4050	0.4320	0.4230	0.4440	0.4370	0.4290	0.4150
DIETHYL PHTHALATE		1.1880	1.3130	1.3090	1.3490	1.2780	1.34	1.2880	1.2310	1.2210
4-NITROANILINE		0.2870	0.37	0.3890	0.41	0.3990	0.4190	0.4140	0.4080	0.40
AZOBENZENE		1.1220	1.2750	1.2850	1.3070	1.2250	1.2740	1.2310	1.1670	1.2440

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GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS19

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/28/19 13:57	04/28/19 14:17	04/28/19 14:38	04/28/19 14:59	04/28/19 15:20	04/28/19 15:40	04/28/19 16:01	04/28/19 16:21	04/28/19 16:42	04/28/19 17:03
N-NITROSODIPHENYLAMINE		0.5370	0.6140	0.62	0.6380	0.6030	0.6180	0.62	0.5940	0.5650
HEXACHLOROBENZENE		0.21	0.22	0.2180	0.2170	0.2060	0.2160	0.2140	0.21	0.2020
N-OCTADECANE		0.0970	0.1130	0.12	0.1230	0.1150	0.1160	0.1160	0.1110	0.1040
PENTACHLOROPHENOL		0.0750	0.1030	0.1130	0.1280	0.13	0.1430	0.1440	0.1440	0.14
CARBAZOLE		0.8570	0.9630	1.0020	1.0010	0.9640	0.9820	0.9750	0.9330	0.8880
DI-N-BUTYL PHTHALATE		0.9030	1.0670	1.1250	1.1920	1.1570	1.1750	1.1460	1.0850	1.0040
BENZYLBUTYL PHTHALATE		0.3190	0.42	0.4810	0.5340	0.5460	0.5920	0.5980	0.5940	0.5740
BIS(2-ETHYLHEXYL)PHTHALATE		0.4210	0.5990	0.6710	0.7560	0.7630	0.8320	0.8370	0.8130	0.7920
2-FLUOROPHENOL		1.0110	1.04	1.0790	1.0850	1.0470	1.0910	1.1150	1.0680	1.0520
PHENOL-D5		1.1980	1.3340	1.41	1.4230	1.3990	1.4680	1.48	1.4140	1.4030
NITROBENZENE-D5		0.3250	0.3370	0.3510	0.35	0.3310	0.3530	0.3470	0.3420	0.3320
2-FLUOROBIPHENYL		1.3060	1.3450	1.3130	1.3570	1.2520	1.2970	1.2490	1.1960	1.1460
2,4,6-TRIBROMOPHENOL		0.0820	0.0960	0.10	0.1070	0.1060	0.1130	0.1150	0.1150	0.11
P-TERPHENYL-D14		0.7380	0.7810	0.8030	0.83	0.8010	0.8330	0.8370	0.7950	0.77
PYRIDINE			1.2130	1.2190	1.2560	1.2150	1.2740	1.2810	1.2320	1.2280
N-NITROSODIMETHYLAMINE			0.74	0.6920	0.7470	0.7030	0.7080	0.7040	0.6730	0.6710
N-DECANE			0.8150	0.8140	0.7710	0.7150	0.7240	0.6910	0.6440	0.6180
2,4-DINITROPHENOL			0.1130	0.1270	0.1580	0.17	0.20	0.2070	0.2090	0.2160
4-NITROPHENOL			0.2590	0.28	0.3150	0.3070	0.34	0.3390	0.3260	0.3160
4,6-DINITRO-2-METHYLPHENOL				0.0930	0.1110	0.1160	0.1310	0.1340	0.1340	0.1310
BENZALDEHYDE										
ACETOPHENONE										
BENZOIC ACID										
CAPROLACTAM										
1,2,4,5-TETRACHLOROBENZENE										
ATRAZINE										
3,3-DICHLOROBENZIDINE										
BENZIDINE										
File ID:	0428_03	0428_04	0428_05	0428_06	0428_07	0428_08	0428_09	0428_10	0428_11	0428_12

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS19

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/28/19 17:23	04/28/19 17:44	04/28/19 18:05	04/28/19 18:25	04/28/19 18:46	04/28/19 19:07	04/28/19 19:27	04/28/19 19:48
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								
ANILINE								
BIS(2-CHLOROETHYL)ETHER								
PHENOL								
2-CHLOROPHENOL								
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								
DIETHYL PHTHALATE								
4-NITROANILINE								
AZOBENZENE								

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS19

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/28/19 17:23	04/28/19 17:44	04/28/19 18:05	04/28/19 18:25	04/28/19 18:46	04/28/19 19:07	04/28/19 19:27	04/28/19 19:48
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								
2,4,6-TRIBROMOPHENOL								
P-TERPHENYL-D14								
PYRIDINE								
N-NITROSODIMETHYLAMINE								
N-DECANE								
2,4-DINITROPHENOL								
4-NITROPHENOL								
4,6-DINITRO-2-METHYLPHENOL								
BENZALDEHYDE	0.6020	0.5930	0.5990	0.57	0.60	0.5840	0.5730	0.5640
ACETOPHENONE	1.6220	1.5670	1.6190	1.52	1.6330	1.5560	1.5380	1.5190
BENZOIC ACID	0.1290	0.1570	0.1830	0.1980	0.2120	0.1940	0.1860	0.1750
CAPROLACTAM	0.0930	0.0990	0.1020	0.10	0.0970	0.0860	0.0790	0.0720
1,2,4,5-TETRACHLOROBENZENE	0.2990	0.2850	0.2730	0.2460	0.2280	0.20		
ATRAZINE	0.3430	0.3310	0.3590	0.3710	0.3980	0.3780	0.3860	0.3670
3,3-DICHLOROBENZIDINE	0.3810	0.3960	0.4360	0.4210	0.4640	0.4560	0.4470	0.4370
BENZIDINE		0.5540	0.6560	0.6830	0.78	0.7770	0.7750	0.7680
File ID:	0428_13	0428_14	0428_15	0428_16	0428_17	0428_18	0428_19	0428_20

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS19

Analyte Analysis date/time	RRF. Avg	%RSD	COD
NAPHTHALENE	0.953391	5.12	
2-METHYLNAPHTHALENE	0.64536	3.93	
1-METHYLNAPHTHALENE	0.606947	5.28	
2-CHLORONAPHTHALENE	1.12337	4.77	
ACENAPHTHYLENE	1.760083	5.28	
ACENAPHTHENE	1.15571	6.05	
FLUORENE	1.255124	5.97	
PHENANTHRENE	1.022663	7.71	
ANTHRACENE	1.011284	5.44	
FLUORANTHENE	1.031188	5.57	
PYRENE	1.10927	6.26	
BENZO(A)ANTHRACENE	1.074359	13.37	
CHRYSENE	1.073205	3.06	
BENZO(B)FLUORANTHENE	1.057188	12.81	
BENZO(K)FLUORANTHENE	1.072111	11.3	
BENZO(A)PYRENE	1.014749	15.79	0.999
INDENO(1,2,3-CD)PYRENE	0.950597	14.8	
DIBENZ(A,H)ANTHRACENE	0.969803	12.71	
ANILINE	0.694525	4.21	
BIS(2-CHLOROETHYL)ETHER	1.15715	3.78	
PHENOL	1.422138	3.37	
2-CHLOROPHENOL	1.260408	4.93	
BENZYL ALCOHOL	0.929349	5.89	
BIS(2-CHLOROISOPROPYL)ETHER	0.425806	2.76	
2-METHYLPHENOL	1.098421	4.3	
HEXACHLOROETHANE	0.54095	3.5	
N-NITROSODI-N-PROPYLAMINE	0.817538	3.99	
3&4-METHYL PHENOL	1.211131	7.15	
NITROBENZENE	0.310967	3.17	
ISOPHORONE	0.5687	5.11	
2-NITROPHENOL	0.173227	8.46	
2,4-DIMETHYLPHENOL	0.293003	4.1	
BIS(2-CHLORETHOXY)METHANE	0.357941	3.43	
2,4-DICHLOROPHENOL	0.254731	6.13	
4-CHLOROANILINE	0.114653	3.09	
HEXACHLORO-1,3-BUTADIENE	0.149879	2.63	
4-CHLORO-3-METHYLPHENOL	0.249775	8.35	
HEXACHLOROCYCLOPENTADIENE	0.374848	3.07	
2,4,6-TRICHLOROPHENOL	0.342615	10.53	
2,4,5-TRICHLOROPHENOL	0.350227	8.73	
BIPHENYL	1.44506	6.6	
2-NITROANILINE	0.407184	10.06	
DIMETHYL PHTHALATE	1.269428	3.82	
2,6-DINITROTOLUENE	0.310595	8.3	
3-NITROANILINE	0.355116	8.96	
DIBENZOFURAN	1.577357	6.64	
2,4-DINITROTOLUENE	0.409432	10.22	
DIETHYL PHTHALATE	1.279621	4.36	
4-NITROANILINE	0.388569	10.49	
AZOBENZENE	1.236695	4.82	
N-NITROSODIPHENYLAMINE	0.601038	5.25	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1
Instrument ID: BNAMS19

Analyte Analysis date/time	RRF. Avg	%RSD	COD
HEXACHLOROBENZENE	0.21256	2.84	
N-OCTADECANE	0.112736	7.09	
PENTACHLOROPHENOL	0.124449	18.98	0.999
CARBAZOLE	0.95163	5.26	
DI-N-BUTYL PHTHALATE	1.094857	8.48	
BENZYLBUTYL PHTHALATE	0.517678	18.36	0.999
BIS(2-ETHYLHEXYL)PHTHALATE	0.720617	19	0.999
2-FLUOROPHENOL	1.065267	2.95	
PHENOL-D5	1.392295	6.04	
NITROBENZENE-D5	0.340896	2.96	
2-FLUOROBIPHENYL	1.273228	5.43	
2,4,6-TRIBROMOPHENOL	0.104962	10.17	
P-TERPHENYL-D14	0.798697	4.1	
PYRIDINE	1.239768	2.17	
N-NITROSODIMETHYLAMINE	0.704816	3.94	
N-DECANE	0.723833	10.08	
2,4-DINITROPHENOL	0.174977	22.49	0.997
4-NITROPHENOL	0.310421	9.08	
4,6-DINITRO-2-METHYLPHENOL	0.121501	12.81	
BENZALDEHYDE	0.585569	2.59	
ACETOPHENONE	1.571593	2.98	
BENZOIC ACID	0.179407	14.46	
CAPROLACTAM	0.090878	12.07	
1,2,4,5-TETRACHLOROBENZENE	0.255139	14.68	
ATRAZINE	0.366666	6.01	
3,3-DICHLOROBENZIDINE	0.429673	6.7	
BENZIDINE	0.713366	12.12	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS24

Analyte	RRF: 40	RRF: 200	RRF: 1000	RRF: 2000	RRF: 5000	RRF: 10000	RRF: 20000	RRF: 30000	RRF: 40000	RRF: 50000
Analysis date/time	05/12/19 12:25	05/12/19 12:05	05/12/19 12:46	05/12/19 13:06	05/12/19 13:26	05/12/19 13:47	05/12/19 14:07	05/12/19 14:27	05/12/19 14:48	05/12/19 15:08
NAPHTHALENE	1.0060	1.0040	1.1470	1.0810	1.0110	0.9990	0.9810	1.0030	0.9180	0.9030
2-METHYLNAPHTHALENE	0.8010	0.63	0.7460	0.7120	0.6780	0.6550	0.6440	0.6480	0.6140	0.6020
1-METHYLNAPHTHALENE	0.6180	0.6210	0.6990	0.6740	0.6290	0.6130	0.6070	0.6190	0.5810	0.5730
2-CHLORONAPHTHALENE	1.5020	1.1580	1.3770	1.2450	1.2010	1.17	1.1370	1.1780	1.08	1.0660
ACENAPHTHYLENE	2.1160	1.9610	2.2650	2.1360	2.0590	2.0080	1.9410	2.0050	1.8220	1.8410
ACENAPHTHENE	1.4510	1.26	1.4090	1.3590	1.2830	1.2190	1.1920	1.2020	1.1240	1.1210
FLUORENE	1.5680	1.2730	1.5920	1.5040	1.4480	1.36	1.3210	1.3710	1.2650	1.2740
PHENANTHRENE	1.2470	1.0190	1.1950	1.1180	1.0660	1.0180	0.9980	1.0320	0.9530	0.9540
ANTHRACENE	1.1350	1.0780	1.2180	1.1580	1.0960	1.0450	1.0370	1.0750	0.99	0.97
FLUORANTHENE	1.0060	1.0170	1.2250	1.1910	1.1440	1.1060	1.0880	1.1270	1.0520	1.0560
PYRENE	1.4910	1.3620	1.5640	1.4150	1.3650	1.3680	1.3860	1.4090	1.3160	1.2940
BENZO(A)ANTHRACENE	1.7480	1.1830	1.2490	1.1710	1.1360	1.1150	1.11	1.1710	1.0880	1.0820
CHRYSENE	1.0670	1.10	1.3110	1.2260	1.1640	1.1320	1.11	1.1590	1.0740	1.0650
BENZO(B)FLUORANTHENE	1.1830	1.0530	1.2250	1.1720	1.1590	1.1410	1.1680	1.2330	1.1790	1.1540
BENZO(K)FLUORANTHENE	1.0610	1.0550	1.3280	1.2540	1.1960	1.1810	1.1870	1.2230	1.1310	1.1730
BENZO(A)PYRENE	0.9830	0.9760	1.2020	1.1760	1.1470	1.13	1.1630	1.2160	1.1350	1.1330
INDENO(1,2,3-CD)PYRENE	0.7950	0.7930	0.9430	0.98	0.9250	0.9420	0.9540	1.03	0.99	1.0140
DIBENZ(A,H)ANTHRACENE	0.7480	0.7480	0.9980	1.0240	0.9610	0.9430	0.9670	1.0330	0.9570	0.9610
DIMETHYL PHTHALATE		1.2460	1.4660	1.3640	1.3410	1.3030	1.2740	1.2910	1.2110	1.2440
DIETHYL PHTHALATE		1.2110	1.4880	1.4320	1.3970	1.3420	1.3150	1.3450	1.2760	1.2970
HEXACHLOROBENZENE		0.1940	0.2190	0.2090	0.2040	0.1980	0.1950	0.2050	0.1890	0.1890
PENTACHLOROPHENOL		0.07	0.0930	0.0970	0.0970	0.1020	0.11	0.1180	0.1110	0.1150
DI-N-BUTYL PHTHALATE		1.1070	1.3130	1.3310	1.2980	1.2320	1.2110	1.2730	1.1880	1.1890
BENZYLBUTYL PHTHALATE		0.5360	0.6670	0.6410	0.6510	0.6590	0.6660	0.6990	0.6610	0.6570
BIS(2-ETHYLHEXYL)PHTHALATE		0.70	0.9010	0.9070	0.9160	0.8990	0.9040	0.9570	0.9120	0.9020
PYRIDINE			1.6340	1.49	1.4170	1.4240	1.4730	1.4930	1.4150	1.3920
N-NITROSODIMETHYLAMINE			0.8020	0.88	0.7320	0.7250	0.7540	0.7750	0.74	0.7260
ANILINE			0.9030	0.8270	0.8030	0.8010	0.8240	0.8480	0.8010	0.80
BIS(2-CHLOROETHYL)ETHER			1.3520	1.2260	1.1610	1.1430	1.1690	1.2150	1.1440	1.1140
PHENOL			1.8430	1.7270	1.6220	1.6020	1.64	1.6760	1.5740	1.5750
2-CHLOROPHENOL			1.4130	1.3350	1.2870	1.2720	1.29	1.29	1.2220	1.2080
N-DECANE			1.0110	0.8690	0.8260	0.8260	0.8160	0.8180	0.7650	0.7510
BENZYL ALCOHOL			1.26	1.1960	1.1020	1.11	1.1210	1.1410	1.0880	1.0810
BIS(2-CHLOROISOPROPYL)ETHER			0.4940	0.4870	0.4390	0.4310	0.4380	0.44	0.4140	0.4160
2-METHYLPHENOL			1.3860	1.3010	1.2180	1.1890	1.20	1.2110	1.1420	1.1230
HEXACHLOROETHANE			0.6350	0.6090	0.5570	0.5420	0.5550	0.5570	0.5270	0.5220
N-NITROSODI-N-PROPYLAMINE			1.1310	1.0440	0.95	0.9490	0.9470	0.9580	0.9250	0.9260
3&4-METHYL PHENOL			1.5270	1.4140	1.3460	1.3070	1.3370	1.3470	1.2720	1.2760
NITROBENZENE			0.4020	0.3740	0.3620	0.3550	0.3610	0.3740	0.3520	0.3430
ISOPHORONE			0.7580	0.7320	0.6920	0.6730	0.6710	0.69	0.6580	0.6540
2-NITROPHENOL			0.17	0.1560	0.1630	0.1680	0.1720	0.1790	0.1710	0.1670
2,4-DIMETHYLPHENOL			0.3830	0.3490	0.3460	0.3390	0.3340	0.3430	0.3210	0.3190
BIS(2-CHLORETHOXY)METHANE			0.4530	0.4410	0.42	0.4070	0.4070	0.4120	0.3920	0.3860
2,4-DICHLOROPHENOL			0.2810	0.2820	0.27	0.2620	0.2640	0.2720	0.2560	0.2530
4-CHLOROANILINE			0.1520	0.1430	0.1380	0.1330	0.1360	0.1360	0.1290	0.13
HEXACHLORO-1,3-BUTADIENE			0.1630	0.1580	0.15	0.1440	0.1450	0.1520	0.1420	0.1380
4-CHLORO-3-METHYLPHENOL			0.3020	0.2930	0.2820	0.2830	0.2850	0.2890	0.2790	0.2750
HEXACHLOROCYCLOPENTADIENE			0.3890	0.3580	0.3690	0.37	0.3820	0.3940	0.3610	0.3680
2,4,6-TRICHLOROPHENOL			0.3810	0.3440	0.3510	0.3460	0.3510	0.3870	0.3510	0.3440
2,4,5-TRICHLOROPHENOL			0.3760	0.3730	0.3640	0.3660	0.3660	0.3620	0.3430	0.3530

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GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS24

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	05/12/19 12:25	05/12/19 12:05	05/12/19 12:46	05/12/19 13:06	05/12/19 13:26	05/12/19 13:47	05/12/19 14:07	05/12/19 14:27	05/12/19 14:48	05/12/19 15:08
BIPHENYL			1.8680	1.7360	1.6710	1.5990	1.5670	1.58	1.46	1.4120
2-NITROANILINE			0.4040	0.4060	0.4160	0.4240	0.4280	0.4520	0.4210	0.4280
2,6-DINITROTOLUENE			0.2990	0.30	0.2990	0.3090	0.3030	0.3170	0.2950	0.3040
3-NITROANILINE			0.3620	0.3590	0.37	0.3690	0.3660	0.3760	0.3590	0.3660
DIBENZOFURAN			1.9510	1.8660	1.7920	1.6910	1.66	1.7220	1.5850	1.6020
2,4-DINITROTOLUENE			0.3630	0.3830	0.3810	0.3960	0.3960	0.4150	0.3940	0.40
4-NITROPHENOL			0.2750	0.2770	0.2880	0.2880	0.2970	0.3140	0.2990	0.2920
4-NITROANILINE			0.3950	0.3920	0.3910	0.3920	0.3880	0.4020	0.3810	0.3890
AZOBENZENE			1.6620	1.5380	1.5050	1.4480	1.4150	1.4480	1.3550	1.3640
N-NITROSODIPHENYLAMINE			0.7330	0.6980	0.6640	0.6360	0.6380	0.6570	0.6070	0.5990
N-OCTADECANE			0.1660	0.1610	0.1550	0.1530	0.1520	0.1570	0.1450	0.1410
CARBAZOLE			1.1550	1.0920	1.0660	1.02	0.9940	1.0360	0.9690	0.9450
2-FLUOROPHENOL			1.2730	1.1990	1.1470	1.1640	1.1790	1.2030	1.1290	1.1320
PHENOL-D5			1.8650	1.6740	1.6130	1.5950	1.6270	1.6620	1.5640	1.5480
NITROBENZENE-D5			0.3760	0.3630	0.3580	0.36	0.3610	0.3770	0.3370	0.34
2-FLUOROBIPHENYL			1.6450	1.5110	1.4410	1.4150	1.3660	1.3960	1.2770	1.2810
2,4,6-TRIBROMOPHENOL			0.0890	0.0890	0.0880	0.0920	0.0940	0.10	0.0940	0.0940
P-TERPHENYL-D14			0.95	0.8830	0.8420	0.85	0.8470	0.8810	0.8170	0.8110
2,4-DINITROPHENOL				0.1010	0.1180	0.1330	0.1530	0.1660	0.1680	0.1780
4,6-DINITRO-2-METHYLPHENOL				0.07	0.0840	0.09	0.1010	0.1120	0.1070	0.1090
BENZALDEHYDE										
ACETOPHENONE										
BENZOIC ACID										
CAPROLACTAM										
1,2,4,5-TETRACHLOROBENZENE										
ATRAZINE										
BENZIDINE										
3,3-DICHLOROBENZIDINE										
File ID:	0512_04	0512_03	0512_05	0512_06	0512_07	0512_08	0512_09	0512_10	0512_11	0512_12

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GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS24

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	05/12/19 15:29	05/12/19 15:49	05/12/19 16:09	05/12/19 16:30	05/12/19 16:50	05/12/19 17:11	05/12/19 17:31	05/12/19 17:52
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								
DIMETHYL PHTHALATE								
DIETHYL PHTHALATE								
HEXACHLOROBENZENE								
PENTACHLOROPHENOL								
DI-N-BUTYL PHTHALATE								
BENZYLBUTYL PHTHALATE								
BIS(2-ETHYLHEXYL)PHTHALATE								
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-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								

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GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS24

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	05/12/19 15:29	05/12/19 15:49	05/12/19 16:09	05/12/19 16:30	05/12/19 16:50	05/12/19 17:11	05/12/19 17:31	05/12/19 17:52
BIPHENYL								
2-NITROANILINE								
2,6-DINITROTOLUENE								
3-NITROANILINE								
DIBENZOFURAN								
2,4-DINITROTOLUENE								
4-NITROPHENOL								
4-NITROANILINE								
AZOBENZENE								
N-NITROSODIPHENYLAMINE								
N-OCTADECANE								
CARBAZOLE								
2-FLUOROPHENOL								
PHENOL-D5								
NITROBENZENE-D5								
2-FLUOROBIPHENYL								
2,4,6-TRIBROMOPHENOL								
P-TERPHENYL-D14								
2,4-DINITROPHENOL								
4,6-DINITRO-2-METHYLPHENOL								
BENZALDEHYDE	1.1320	1.0120	0.9750	1.0030	0.9710	0.9630	0.8990	0.9050
ACETOPHENONE	2.1090	1.8420	1.7460	1.8110	1.7610	1.7590	1.6270	1.6540
BENZOIC ACID	0.2160	0.1880	0.1990	0.2150	0.1850	0.1840	0.1670	0.1610
CAPROLACTAM	0.1230	0.1040	0.1050	0.1020	0.0890	0.0840		
1,2,4,5-TETRACHLOROBENZENE	0.32	0.2710	0.2490	0.2350	0.2040	0.1860		
ATRAZINE	0.4060	0.3490	0.3330	0.3540	0.3380	0.3470	0.3320	0.3390
BENZIDINE	0.8820	0.7930	0.8840	0.9630	0.9860	0.9950	0.9670	0.9760
3,3-DICHLOROBENZIDINE	0.4850	0.4280	0.4260	0.4620	0.4510	0.4550	0.4440	0.4470
File ID:	0512_13	0512_14	0512_15	0512_16	0512_17	0512_18	0512_19	0512_20

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1

Instrument ID: BNAMS24

Analyte Analysis date/time	RRF. Avg	%RSD	COD
NAPHTHALENE	1.00536	7.01	
2-METHYLNAPHTHALENE	0.672963	9.31	
1-METHYLNAPHTHALENE	0.623591	6.13	
2-CHLORONAPHTHALENE	1.211448	11.1	
ACENAPHTHYLENE	2.015494	6.73	
ACENAPHTHENE	1.261804	9.02	
FLUORENE	1.397609	8.83	
PHENANTHRENE	1.059977	9.3	
ANTHRACENE	1.080232	7.04	
FLUORANTHENE	1.101087	6.54	
PYRENE	1.397174	5.73	
BENZO(A)ANTHRACENE	1.205326	16.38	0.999
CHRYSENE	1.140866	6.88	
BENZO(B)FLUORANTHENE	1.166487	4.25	
BENZO(K)FLUORANTHENE	1.178886	7.04	
BENZO(A)PYRENE	1.126243	7.33	
INDENO(1,2,3-CD)PYRENE	0.936605	8.77	
DIBENZ(A,H)ANTHRACENE	0.933849	10.98	
DIMETHYL PHTHALATE	1.304452	5.93	
DIETHYL PHTHALATE	1.344796	6.26	
HEXACHLOROBENZENE	0.200102	5.07	
PENTACHLOROPHENOL	0.101472	14.32	0.998
DI-N-BUTYL PHTHALATE	1.237941	5.83	
BENZYLBUTYL PHTHALATE	0.648747	6.97	
BIS(2-ETHYLHEXYL)PHTHALATE	0.888557	8.22	
PYRIDINE	1.467163	5.26	
N-NITROSODIMETHYLAMINE	0.76667	6.91	
ANILINE	0.825916	4.3	
BIS(2-CHLOROETHYL)ETHER	1.190422	6.32	
PHENOL	1.657392	5.49	
2-CHLOROPHENOL	1.289834	4.97	
N-DECANE	0.835123	9.58	
BENZYL ALCOHOL	1.137446	5.39	
BIS(2-CHLOROISOPROPYL)ETHER	0.44497	6.72	
2-METHYLPHENOL	1.221257	6.99	
HEXACHLOROETHANE	0.562919	6.97	
N-NITROSODI-N-PROPYLAMINE	0.978943	7.35	
3&4-METHYL PHENOL	1.353402	6.19	
NITROBENZENE	0.365391	5.01	
ISOPHORONE	0.690909	5.29	
2-NITROPHENOL	0.168138	4	
2,4-DIMETHYLPHENOL	0.341771	5.79	
BIS(2-CHLORETHOXY)METHANE	0.414653	5.46	
2,4-DICHLOROPHENOL	0.267638	4.04	
4-CHLOROANILINE	0.137298	5.37	
HEXACHLORO-1,3-BUTADIENE	0.148935	5.68	
4-CHLORO-3-METHYLPHENOL	0.286036	3.04	
HEXACHLOROCYCLOPENTADIENE	0.373883	3.57	
2,4,6-TRICHLOROPHENOL	0.35696	4.76	
2,4,5-TRICHLOROPHENOL	0.362963	3	
BIPHENYL	1.611739	9.1	

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1098374 **Analytical Method:** 625.1
Instrument ID: BNAMS24

Analyte Analysis date/time	RRF. Avg	%RSD	COD
2-NITROANILINE	0.422366	3.59	
2,6-DINITROTOLUENE	0.303251	2.37	
3-NITROANILINE	0.365783	1.55	
DIBENZOFURAN	1.733723	7.4	
2,4-DINITROTOLUENE	0.391092	3.94	
4-NITROPHENOL	0.291401	4.3	
4-NITROANILINE	0.391314	1.58	
AZOBENZENE	1.466758	6.88	
N-NITROSODIPHENYLAMINE	0.654008	6.88	
N-OCTADECANE	0.153555	5.2	
CARBAZOLE	1.034615	6.63	
2-FLUOROPHENOL	1.178331	4.04	
PHENOL-D5	1.643406	6.05	
NITROBENZENE-D5	0.358852	4.03	
2-FLUOROBIPHENYL	1.416488	8.54	
2,4,6-TRIBROMOPHENOL	0.092506	4.26	
P-TERPHENYL-D14	0.860142	5.18	
2,4-DINITROPHENOL	0.145192	19.87	0.996
4,6-DINITRO-2-METHYLPHENOL	0.096195	15.8	0.998
BENZALDEHYDE	0.982451	7.4	
ACETOPHENONE	1.788683	8.29	
BENZOIC ACID	0.189541	10.52	
CAPROLACTAM	0.101012	13.86	
1,2,4,5-TETRACHLOROBENZENE	0.244177	19.68	0.991
ATRAZINE	0.349707	6.91	
BENZIDINE	0.930788	7.61	
3,3-DICHLOROBENZIDINE	0.449516	4.21	

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	04/28/19 13:57
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	04/28/19 19:48
Lab File ID:	0428_21-2	**Analysis date/time:**	04/28/19 20:09
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	0.606947	0.64422370		6.14		10	10.61	106	70 - 130
2,4,5-TRICHLOROPHENOL	0.350227	0.36952930		5.51		10	10.55	106	70 - 130
2,4,6-TRICHLOROPHENOL	0.342615	0.38575930		12.60		10	11.26	113	70 - 130
2,4-DICHLOROPHENOL	0.254731	0.273235		7.26		10	10.73	107	70 - 130
2,4-DIMETHYLPHENOL	0.293003	0.32376070		10.50		10	11.05	111	70 - 130
2,4-DINITROPHENOL	0.174977	0.16665570		4.76		10	8.595	86	70 - 130
2,4-DINITROTOLUENE	0.409432	0.43770570		6.91		10	10.69	107	70 - 130
2,6-DINITROTOLUENE	0.310595	0.33846710		8.97		10	10.90	109	70 - 130
2-CHLORONAPHTHALENE	1.123370	1.168291		4		10	10.40	104	70 - 130
2-CHLOROPHENOL	1.260408	1.345341		6.74		10	10.67	107	70 - 130
2-METHYLNAPHTHALENE	0.645360	0.66473840		3		10	10.30	103	70 - 130
2-METHYLPHENOL	1.098421	1.157755		5.40		10	10.54	105	70 - 130
2-NITROANILINE	0.407184	0.44444330		9.15		10	10.92	109	70 - 130
2-NITROPHENOL	0.173227	0.183003		5.64		10	10.56	106	70 - 130
3&4-METHYL PHENOL	1.211131	1.278773		5.59		10	10.56	106	70 - 130
3-NITROANILINE	0.355116	0.38231890		7.66		10	10.77	108	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.121501	0.12880420		6.01		10	10.60	106	70 - 130
4-CHLORO-3-METHYLPHENOL	0.249775	0.26384990		5.64		10	10.56	106	70 - 130
4-CHLOROANILINE	0.114653	0.11716480		2.19		10	10.22	102	70 - 130
4-NITROANILINE	0.388569	0.40279370		3.66		10	10.37	104	70 - 130
4-NITROPHENOL	0.310421	0.33103150		6.64		10	10.66	107	70 - 130
ACENAPHTHENE	1.155710	1.224462		5.95		10	10.59	106	70 - 130
ACENAPHTHYLENE	1.760083	1.901762		8.05		10	10.80	108	70 - 130
ANILINE	0.694525	0.71926350		3.56		10	10.36	104	70 - 130
ANTHRACENE	1.011284	1.057863		4.61		10	10.46	105	70 - 130
AZOBENZENE	1.236695	1.305072		5.53		10	10.55	106	70 - 130
BENZO(A)ANTHRACENE	1.074359	1.128610		5.05		10	10.50	105	70 - 130
BENZO(A)PYRENE	1.014749	1.083220		6.75		10	9.709	97.10	70 - 130
BENZO(B)FLUORANTHENE	1.057188	1.173016		11		10	11.10	111	70 - 130
BENZO(K)FLUORANTHENE	1.072111	1.145516		6.85		10	10.68	107	70 - 130
BENZYL ALCOHOL	0.929349	0.99785290		7.37		10	10.74	107	70 - 130
BENZYLBUTYL PHTHALATE	0.517678	0.56445910		9.04		10	9.791	97.90	70 - 130
BIPHENYL	1.445060	1.446541		0.1020		10	10.01	100	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.357941	0.38064190		6.34		10	10.63	106	70 - 130
BIS(2-CHLOROETHYL)ETHER	1.157150	1.135598		1.86		10	9.814	98.10	70 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.425806	0.42017790		1.32		10	9.868	98.70	70 - 130
BIS(2-ETHYLHEXYL)PHTHALATE	0.720617	0.793571		10.10		10	9.921	99.20	70 - 130
CARBAZOLE	0.951630	1.035501		8.81		10	10.88	109	70 - 130
CHRYSENE	1.073205	1.130102		5.30		10	10.53	105	70 - 130
DI-N-BUTYL PHTHALATE	1.094857	1.157599		5.73		10	10.57	106	70 - 130
DIBENZ(A,H)ANTHRACENE	0.969803	1.048290		8.09		10	10.81	108	70 - 130
DIBENZOFURAN	1.577357	1.664769		5.54		10	10.55	106	70 - 130
DIETHYL PHTHALATE	1.279621	1.301842		1.74		10	10.17	102	70 - 130
DIMETHYL PHTHALATE	1.269428	1.290491		1.66		10	10.17	102	70 - 130
FLUORANTHENE	1.031188	1.098477		6.53		10	10.65	106	70 - 130
FLUORENE	1.255124	1.337364		6.55		10	10.66	107	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.149879	0.168098		12.20		10	11.22	112	70 - 130
HEXACHLOROBENZENE	0.212560	0.22499810		5.85		10	10.59	106	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	04/28/19 13:57
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	04/28/19 19:48
Lab File ID:	0428_21-2	**Analysis date/time:**	04/28/19 20:09
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	0.374848	0.36051370		3.82		10	9.618	96.20	70 - 130
HEXACHLOROETHANE	0.540950	0.55306210		2.24		10	10.22	102	70 - 130
INDENO(1,2,3-CD)PYRENE	0.950597	0.97643960		2.72		10	10.27	103	70 - 130
ISOPHORONE	0.5687	0.56725280		0.2540		10	9.975	99.80	70 - 130
N-DECANE	0.723833	0.686029		5.22		10	9.478	94.80	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.817538	0.85058530		4.04		10	10.40	104	70 - 130
N-NITROSODIMETHYLAMINE	0.704816	0.658118		6.63		10	9.337	93.40	70 - 130
N-NITROSODIPHENYLAMINE	0.601038	0.63265820		5.26		10	10.53	105	70 - 130
N-OCTADECANE	0.112736	0.114136		1.24		10	10.12	101	70 - 130
NAPHTHALENE	0.953391	1.015196		6.48		10	10.65	106	70 - 130
NITROBENZENE	0.310967	0.30886870		0.6750		10	9.933	99.30	70 - 130
PENTACHLOROPHENOL	0.124449	0.16613050		33.50		10	11.87	119	70 - 130
PHENANTHRENE	1.022663	1.044386		2.12		10	10.21	102	70 - 130
PHENOL	1.422138	1.498544		5.37		10	10.54	105	70 - 130
PYRENE	1.109270	1.178994		6.29		10	10.63	106	70 - 130
PYRIDINE	1.239768	1.320125		6.48		10	10.65	106	70 - 130
2,4,6-TRIBROMOPHENOL	0.104962	0.10881160		3.67		10	10.37	104	70 - 130
2-FLUOROBIPHENYL	1.273228	1.294894		1.70		10	10.17	102	70 - 130
2-FLUOROPHENOL	1.065267	1.059941		0.50		10	9.950	99.50	70 - 130
NITROBENZENE-D5	0.340896	0.338402		0.7320		10	9.927	99.30	70 - 130
P-TERPHENYL-D14	0.798697	0.80151020		0.3520		10	10.04	100	70 - 130
PHENOL-D5	1.392295	1.393521		0.0881		10	10.01	100	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	04/28/19 13:57
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	04/28/19 19:48
Lab File ID:	0428_22-2	**Analysis date/time:**	04/28/19 20:29
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	0.255139	0.24480510		4.05		10	9.595	96	70 - 130
3,3-DICHLOROBENZIDINE	0.429673	0.36102740		16		10	8.402	84	70 - 130
ACETOPHENONE	1.571593	1.517046		3.47		10	9.653	96.50	70 - 130
ATRAZINE	0.366666	0.36082580		1.59		10	9.841	98.40	70 - 130
BENZIDINE	0.713366	0.46759160		34.50		10	6.555	65.50	70 - 130
BENZOIC ACID	0.179407	0.20228270		12.80		10	11.28	113	70 - 130
CAPROLACTAM	0.090878	0.09831044		8.18		10	10.82	108	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**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:	L1098374	**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:	L1098374	**Calibration (begin) date/time:**	04/28/19 13:57
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	04/28/19 19:48
Lab File ID:	0516_03-2	**Analysis date/time:**	05/16/19 12:52
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	0.606947	0.69030740		13.70		10	11.37	114	70 - 130
2,4,5-TRICHLOROPHENOL	0.350227	0.41204740		17.70		10	11.77	118	70 - 130
2,4,6-TRICHLOROPHENOL	0.342615	0.38108180		11.20		10	11.12	111	69 - 130
2,4-DICHLOROPHENOL	0.254731	0.29500810		15.80		10	11.58	116	64 - 130
2,4-DIMETHYLPHENOL	0.293003	0.27766790		5.23		10	9.477	94.80	58 - 130
2,4-DINITROPHENOL	0.174977	0.21885450		25.10		10	11.06	111	39 - 173
2,4-DINITROTOLUENE	0.409432	0.44586130		8.90		10	10.89	109	53 - 130
2,6-DINITROTOLUENE	0.310595	0.33812080		8.86		10	10.89	109	68 - 137
2-CHLORONAPHTHALENE	1.123370	1.209584		7.67		10	10.77	108	70 - 130
2-CHLOROPHENOL	1.260408	1.308905		3.85		10	10.38	104	55 - 130
2-METHYLNAPHTHALENE	0.645360	0.71679720		11.10		10	11.11	111	70 - 130
2-METHYLPHENOL	1.098421	1.049208		4.48		10	9.552	95.50	70 - 130
2-NITROANILINE	0.407184	0.46773270		14.90		10	11.49	115	70 - 130
2-NITROPHENOL	0.173227	0.12646950		27		10	7.301	73	61 - 163
3&4-METHYL PHENOL	1.211131	1.206466		0.3850		10	9.961	99.60	70 - 130
3-NITROANILINE	0.355116	0.37114380		4.51		10	10.45	105	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.121501	0.145643		19.90		10	11.99	120	56 - 130
4-CHLORO-3-METHYLPHENOL	0.249775	0.28856290		15.50		10	11.55	116	68 - 130
4-CHLOROANILINE	0.114653	0.10234230		10.70		10	8.926	89.30	70 - 130
4-NITROANILINE	0.388569	0.40083240		3.16		10	10.32	103	70 - 130
4-NITROPHENOL	0.310421	0.33105980		6.65		10	10.66	107	35 - 130
ACENAPHTHENE	1.155710	1.228086		6.26		10	10.63	106	70 - 130
ACENAPHTHYLENE	1.760083	1.910503		8.55		10	10.85	109	60 - 130
ANILINE	0.694525	0.51385760		26		10	7.399	74	70 - 130
ANTHRACENE	1.011284	1.107890		9.55		10	10.96	110	58 - 130
AZOBENZENE	1.236695	1.357256		9.75		10	10.97	110	70 - 130
BENZO(A)ANTHRACENE	1.074359	1.143772		6.46		10	10.65	106	42 - 133
BENZO(A)PYRENE	1.014749	1.198969		18.20		10	10.74	107	32 - 148
BENZO(B)FLUORANTHENE	1.057188	1.233318		16.70		10	11.67	117	42 - 140
BENZO(K)FLUORANTHENE	1.072111	1.206116		12.50		10	11.25	113	25 - 146
BENZYL ALCOHOL	0.929349	1.036401		11.50		10	11.15	112	70 - 130
BENZYLBUTYL PHTHALATE	0.517678	0.63155540		22		10	10.94	109	43 - 140
BIPHENYL	1.445060	1.546147		7		10	10.70	107	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.357941	0.32859160		8.20		10	9.180	91.80	52 - 164
BIS(2-CHLOROETHYL)ETHER	1.157150	1.451087		25.40		10	12.54	125	52 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.425806	0.41900460		1.60		10	9.840	98.40	63 - 139
BIS(2-ETHYLHEXYL)PHTHALATE	0.720617	0.87042190		20.80		10	10.87	109	43 - 137
CARBAZOLE	0.951630	1.051391		10.50		10	11.05	111	70 - 130
CHRYSENE	1.073205	1.121944		4.54		10	10.45	105	44 - 140
DI-N-BUTYL PHTHALATE	1.094857	1.273363		16.30		10	11.63	116	52 - 130
DIBENZ(A,H)ANTHRACENE	0.969803	1.048312		8.10		10	10.81	108	13 - 200
DIBENZOFURAN	1.577357	1.674281		6.14		10	10.61	106	70 - 130
DIETHYL PHTHALATE	1.279621	1.346569		5.23		10	10.52	105	47 - 130
DIMETHYL PHTHALATE	1.269428	1.331786		4.91		10	10.49	105	50 - 130
FLUORANTHENE	1.031188	1.167971		13.30		10	11.33	113	47 - 130
FLUORENE	1.255124	1.362430		8.55		10	10.85	109	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.149879	0.15966030		6.53		10	10.65	106	68 - 130
HEXACHLOROBENZENE	0.212560	0.22759810		7.07		10	10.71	107	38 - 142

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	04/28/19 13:57
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	04/28/19 19:48
Lab File ID:	0516_03-2	**Analysis date/time:**	05/16/19 12:52
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	0.374848	0.35311990		5.80		10	9.420	94.20	70 - 130
HEXACHLOROETHANE	0.540950	0.55750040		3.06		10	10.31	103	55 - 130
INDENO(1,2,3-CD)PYRENE	0.950597	1.051270		10.60		10	11.06	111	13 - 151
ISOPHORONE	0.5687	0.34251150		39.80		10	6.023	60.20	52 - 180
N-DECANE	0.723833	0.53991380		25.40		10	7.459	74.60	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.817538	0.72232590		11.60		10	8.835	88.30	59 - 170
N-NITROSODIMETHYLAMINE	0.704816	0.437052		38		10	6.201	62	70 - 130
N-NITROSODIPHENYLAMINE	0.601038	0.663268		10.40		10	11.04	110	70 - 130
N-OCTADECANE	0.112736	0.10662210		5.42		10	9.458	94.60	70 - 130
NAPHTHALENE	0.953391	1.026265		7.64		10	10.76	108	70 - 130
NITROBENZENE	0.310967	0.24992390		19.60		10	8.037	80.40	54 - 158
PENTACHLOROPHENOL	0.124449	0.11552290		7.17		10	8.303	83	42 - 152
PHENANTHRENE	1.022663	1.086487		6.24		10	10.62	106	67 - 130
PHENOL	1.422138	1.3157		7.48		10	9.252	92.50	48 - 130
PYRENE	1.109270	1.271785		14.70		10	11.47	115	70 - 130
PYRIDINE	1.239768	0.92530450		25.40		10	7.464	74.60	70 - 130
2,4,6-TRIBROMOPHENOL	0.104962	0.12202840		16.30		10	11.63	116	70 - 130
2-FLUOROBIPHENYL	1.273228	1.373725		7.89		10	10.79	108	70 - 130
2-FLUOROPHENOL	1.065267	1.017576		4.48		10	9.552	95.50	70 - 130
NITROBENZENE-D5	0.340896	0.19630810		42.40		10	5.759	57.60	46 - 219
P-TERPHENYL-D14	0.798697	0.87492810		9.54		10	10.95	110	70 - 130
PHENOL-D5	1.392295	1.396071		0.2710		10	10.03	100	48 - 208

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	04/28/19 13:57
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	04/28/19 19:48
Lab File ID:	0516_04-2	**Analysis date/time:**	05/16/19 13:13
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	0.255139	0.28436570		11.50		10	11.15	112	70 - 130
3,3-DICHLOROBENZIDINE	0.429673	0.49289580		14.70		10	11.47	115	18 - 213
ACETOPHENONE	1.571593	1.295528		17.60		10	8.243	82.40	70 - 130
ATRAZINE	0.366666	0.41361590		12.80		10	11.28	113	70 - 130
BENZALDEHYDE	0.585569	0.55553130		5.13		10	9.487	94.90	70 - 130
BENZIDINE	0.713366	0.82315270		15.40		10	11.54	115	70 - 130
BENZOIC ACID	0.179407	0.25732310		43.40		10	14.34	143	70 - 130
CAPROLACTAM	0.090878	0.09973513		9.75		10	10.97	110	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	04/30/19 17:52
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	05/01/19 00:25
Lab File ID:	0516_05-2	**Analysis date/time:**	05/16/19 13:33
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	0.0021910230		100		20	1.832	9.16	70 - 130
N-NITROSODI-N-BUTYLAMINE	0.187038	0.15586140		16.70		10	8.333	83.30	70 - 130
N-NITROSODIETHYLAMINE	0.597627	0.61254840		2.50		10	10.25	103	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	04/30/19 17:52
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	05/01/19 00:25
Lab File ID:	0516_06-2	**Analysis date/time:**	05/16/19 13:54
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	0.503056	0.49348030		1.90		10	9.810	98.10	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0512_21-2	**Analysis date/time:**	05/12/19 18:12
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	0.623591	0.62003450		0.57		10	9.943	99.40	70 - 130
2,4,5-TRICHLOROPHENOL	0.362963	0.33253880		8.38		10	9.162	91.60	70 - 130
2,4,6-TRICHLOROPHENOL	0.356960	0.38266380		7.20		10	10.72	107	70 - 130
2,4-DICHLOROPHENOL	0.267638	0.26380510		1.43		10	9.857	98.60	70 - 130
2,4-DIMETHYLPHENOL	0.341771	0.35837610		4.86		10	10.49	105	70 - 130
2,4-DINITROPHENOL	0.145192	0.13972510		3.77		10	9.279	92.80	70 - 130
2,4-DINITROTOLUENE	0.391092	0.40627590		3.88		10	10.39	104	70 - 130
2,6-DINITROTOLUENE	0.303251	0.31490690		3.84		10	10.38	104	70 - 130
2-CHLORONAPHTHALENE	1.211448	1.154189		4.73		10	9.527	95.30	70 - 130
2-CHLOROPHENOL	1.289834	1.361367		5.55		10	10.55	106	70 - 130
2-METHYLNAPHTHALENE	0.672963	0.64877350		3.59		10	9.641	96.40	70 - 130
2-METHYLPHENOL	1.221257	1.260615		3.22		10	10.32	103	70 - 130
2-NITROANILINE	0.422366	0.43852770		3.83		10	10.38	104	70 - 130
2-NITROPHENOL	0.168138	0.17465820		3.88		10	10.39	104	70 - 130
3&4-METHYL PHENOL	1.353402	1.426061		5.37		10	10.54	105	70 - 130
3-NITROANILINE	0.365783	0.38234760		4.53		10	10.45	105	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.096195	0.10295850		7.03		10	10.30	103	70 - 130
4-CHLORO-3-METHYLPHENOL	0.286036	0.29198130		2.08		10	10.21	102	70 - 130
4-CHLOROANILINE	0.137298	0.13711190		0.1360		10	9.986	99.90	70 - 130
4-NITROANILINE	0.391314	0.39441190		0.7920		10	10.08	101	70 - 130
4-NITROPHENOL	0.291401	0.307539		5.54		10	10.55	106	70 - 130
ACENAPHTHENE	1.261804	1.263745		0.1540		10	10.02	100	70 - 130
ACENAPHTHYLENE	2.015494	1.971413		2.19		10	9.781	97.80	70 - 130
ANILINE	0.825916	0.858234		3.91		10	10.39	104	70 - 130
ANTHRACENE	1.080232	1.053479		2.48		10	9.752	97.50	70 - 130
AZOBENZENE	1.466758	1.502856		2.46		10	10.25	103	70 - 130
BENZO(A)ANTHRACENE	1.205326	1.178955		2.19		10	10.61	106	70 - 130
BENZO(A)PYRENE	1.126243	1.129809		0.3170		10	10.03	100	70 - 130
BENZO(B)FLUORANTHENE	1.166487	1.213809		4.06		10	10.41	104	70 - 130
BENZO(K)FLUORANTHENE	1.178886	1.205115		2.22		10	10.22	102	70 - 130
BENZYL ALCOHOL	1.137446	1.188798		4.51		10	10.45	105	70 - 130
BENZYLBUTYL PHTHALATE	0.648747	0.66463950		2.45		10	10.24	102	70 - 130
BIPHENYL	1.611739	1.578987		2.03		10	9.797	98	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.414653	0.43047630		3.82		10	10.38	104	70 - 130
BIS(2-CHLOROETHYL)ETHER	1.190422	1.176589		1.16		10	9.884	98.80	70 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.444970	0.43691520		1.81		10	9.819	98.20	70 - 130
BIS(2-ETHYLHEXYL)PHTHALATE	0.888557	0.91859560		3.38		10	10.34	103	70 - 130
CARBAZOLE	1.034615	1.077425		4.14		10	10.41	104	70 - 130
CHRYSENE	1.140866	1.160154		1.69		10	10.17	102	70 - 130
DI-N-BUTYL PHTHALATE	1.237941	1.217678		1.64		10	9.836	98.40	70 - 130
DIBENZ(A,H)ANTHRACENE	0.933849	0.97455280		4.36		10	10.44	104	70 - 130
DIBENZOFURAN	1.733723	1.709698		1.39		10	9.861	98.60	70 - 130
DIETHYL PHTHALATE	1.344796	1.313488		2.33		10	9.767	97.70	70 - 130
DIMETHYL PHTHALATE	1.304452	1.242478		4.75		10	9.525	95.30	70 - 130
FLUORANTHENE	1.101087	1.099374		0.1560		10	9.984	99.80	70 - 130
FLUORENE	1.397609	1.385442		0.8710		10	9.913	99.10	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.148935	0.15261560		2.47		10	10.25	103	70 - 130
HEXACHLOROBENZENE	0.200102	0.20421090		2.05		10	10.21	102	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0512_21-2	**Analysis date/time:**	05/12/19 18:12
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	0.373883	0.32723420		12.50		10	8.752	87.50	70 - 130
HEXACHLOROETHANE	0.562919	0.55097680		2.12		10	9.788	97.90	70 - 130
INDENO(1,2,3-CD)PYRENE	0.936605	0.94061630		0.4280		10	10.04	100	70 - 130
ISOPHORONE	0.690909	0.66411240		3.88		10	9.612	96.10	70 - 130
N-DECANE	0.835123	0.83681570		0.2030		10	10.02	100	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.978943	1.020441		4.24		10	10.42	104	70 - 130
N-NITROSODIMETHYLAMINE	0.766670	0.73082070		4.68		10	9.532	95.30	70 - 130
N-NITROSODIPHENYLAMINE	0.654008	0.65647930		0.3780		10	10.04	100	70 - 130
N-OCTADECANE	0.153555	0.15222170		0.8680		10	9.913	99.10	70 - 130
NAPHTHALENE	1.005360	1.006608		0.1240		10	10.01	100	70 - 130
NITROBENZENE	0.365391	0.347095		5.01		10	9.499	95	70 - 130
PENTACHLOROPHENOL	0.101472	0.12890170		27		10	11.56	116	70 - 130
PHENANTHRENE	1.059977	1.042519		1.65		10	9.835	98.30	70 - 130
PHENOL	1.657392	1.722059		3.90		10	10.39	104	70 - 130
PYRENE	1.397174	1.350254		3.36		10	9.664	96.60	70 - 130
PYRIDINE	1.467163	1.538114		4.84		10	10.48	105	70 - 130
2,4,6-TRIBROMOPHENOL	0.092506	0.09270319		0.2130		10	10.02	100	70 - 130
2-FLUOROBIPHENYL	1.416488	1.375287		2.91		10	9.709	97.10	70 - 130
2-FLUOROPHENOL	1.178331	1.176330		0.17		10	9.983	99.80	70 - 130
NITROBENZENE-D5	0.358852	0.36455540		1.59		10	10.16	102	70 - 130
P-TERPHENYL-D14	0.860142	0.85431830		0.6770		10	9.932	99.30	70 - 130
PHENOL-D5	1.643406	1.683346		2.43		10	10.24	102	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0512_22-2	**Analysis date/time:**	05/12/19 18:33
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	0.244177	0.22923820		6.12		10	11.02	110	70 - 130
3,3-DICHLOROBENZIDINE	0.449516	0.36407160		19		10	8.099	81	70 - 130
ACETOPHENONE	1.788683	1.737715		2.85		10	9.715	97.20	70 - 130
ATRAZINE	0.349707	0.33043910		5.51		10	9.449	94.50	70 - 130
BENZIDINE	0.930788	0.52897540		43.20		10	5.683	56.80	70 - 130
BENZOIC ACID	0.189541	0.20131560		6.21		10	10.62	106	70 - 130
CAPROLACTAM	0.101012	0.09746511		3.51		10	9.649	96.50	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0516A_03-3	**Analysis date/time:**	05/17/19 00:25
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	0.623591	0.60634240		2.77		10	9.723	97.20	70 - 130
2,4,5-TRICHLOROPHENOL	0.362963	0.36479070		0.5040		10	10.05	101	70 - 130
2,4,6-TRICHLOROPHENOL	0.356960	0.34578650		3.13		10	9.687	96.90	69 - 130
2,4-DICHLOROPHENOL	0.267638	0.25557410		4.51		10	9.549	95.50	64 - 130
2,4-DIMETHYLPHENOL	0.341771	0.27917090		18.30		10	8.168	81.70	58 - 130
2,4-DINITROPHENOL	0.145192	0.18994680		30.80		10	12.17	122	39 - 173
2,4-DINITROTOLUENE	0.391092	0.41221930		5.40		10	10.54	105	53 - 130
2,6-DINITROTOLUENE	0.303251	0.30092710		0.7660		10	9.923	99.20	68 - 137
2-CHLORONAPHTHALENE	1.211448	1.076941		11.10		10	8.890	88.90	70 - 130
2-CHLOROPHENOL	1.289834	1.242494		3.67		10	9.633	96.30	55 - 130
2-METHYLNAPHTHALENE	0.672963	0.64746990		3.79		10	9.621	96.20	70 - 130
2-METHYLPHENOL	1.221257	1.170329		4.17		10	9.583	95.80	70 - 130
2-NITROANILINE	0.422366	0.43696960		3.46		10	10.35	104	70 - 130
2-NITROPHENOL	0.168138	0.17995580		7.03		10	10.70	107	61 - 163
3&4-METHYL PHENOL	1.353402	1.295089		4.31		10	9.569	95.70	70 - 130
3-NITROANILINE	0.365783	0.36001450		1.58		10	9.842	98.40	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.096195	0.11560940		20.20		10	11.45	115	56 - 130
4-CHLORO-3-METHYLPHENOL	0.286036	0.28714390		0.3870		10	10.04	100	68 - 130
4-CHLOROANILINE	0.137298	0.12747410		7.16		10	9.284	92.80	70 - 130
4-NITROANILINE	0.391314	0.39776920		1.65		10	10.16	102	70 - 130
4-NITROPHENOL	0.291401	0.29691210		1.89		10	10.19	102	35 - 130
ACENAPHTHENE	1.261804	1.169961		7.28		10	9.272	92.70	70 - 130
ACENAPHTHYLENE	2.015494	1.871781		7.13		10	9.287	92.90	60 - 130
ANILINE	0.825916	0.76402250		7.49		10	9.251	92.50	70 - 130
ANTHRACENE	1.080232	0.98958220		8.39		10	9.161	91.60	58 - 130
AZOBENZENE	1.466758	1.422909		2.99		10	9.701	97	70 - 130
BENZO(A)ANTHRACENE	1.205326	1.067666		11.40		10	9.608	96.10	42 - 133
BENZO(A)PYRENE	1.126243	1.152683		2.35		10	10.23	102	32 - 148
BENZO(B)FLUORANTHENE	1.166487	1.141592		2.13		10	9.787	97.90	42 - 140
BENZO(K)FLUORANTHENE	1.178886	1.155825		1.96		10	9.804	98	25 - 146
BENZYL ALCOHOL	1.137446	0.91550230		19.50		10	8.049	80.50	70 - 130
BENZYLBUTYL PHTHALATE	0.648747	0.62479140		3.69		10	9.631	96.30	43 - 140
BIPHENYL	1.611739	1.517566		5.84		10	9.416	94.20	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.414653	0.39670860		4.33		10	9.567	95.70	52 - 164
BIS(2-CHLOROETHYL)ETHER	1.190422	1.154560		3.01		10	9.699	97	52 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.444970	0.43500440		2.24		10	9.776	97.80	63 - 139
BIS(2-ETHYLHEXYL)PHTHALATE	0.888557	0.86163920		3.03		10	9.697	97	43 - 137
CARBAZOLE	1.034615	0.998284		3.51		10	9.649	96.50	70 - 130
CHRYSENE	1.140866	1.076642		5.63		10	9.437	94.40	44 - 140
DI-N-BUTYL PHTHALATE	1.237941	1.209286		2.31		10	9.769	97.70	52 - 130
DIBENZ(A,H)ANTHRACENE	0.933849	0.99712450		6.78		10	10.68	107	13 - 200
DIBENZOFURAN	1.733723	1.663705		4.04		10	9.596	96	70 - 130
DIETHYL PHTHALATE	1.344796	1.337015		0.5790		10	9.942	99.40	47 - 130
DIMETHYL PHTHALATE	1.304452	1.295230		0.7070		10	9.929	99.30	50 - 130
FLUORANTHENE	1.101087	1.094161		0.6290		10	9.937	99.40	47 - 130
FLUORENE	1.397609	1.338088		4.26		10	9.574	95.70	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.148935	0.13940580		6.40		10	9.360	93.60	68 - 130
HEXACHLOROBENZENE	0.200102	0.18669170		6.70		10	9.330	93.30	38 - 142

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0516A_03-3	**Analysis date/time:**	05/17/19 00:25
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	0.373883	0.28121980		24.80		10	7.522	75.20	70 - 130
HEXACHLOROETHANE	0.562919	0.54341550		3.46		10	9.654	96.50	55 - 130
INDENO(1,2,3-CD)PYRENE	0.936605	0.99284080		6		10	10.60	106	13 - 151
ISOPHORONE	0.690909	0.66685920		3.48		10	9.652	96.50	52 - 180
N-DECANE	0.835123	0.82515530		1.19		10	9.881	98.80	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.978943	0.96596870		1.33		10	9.867	98.70	59 - 170
N-NITROSODIMETHYLAMINE	0.766670	0.76018390		0.8460		10	9.915	99.20	70 - 130
N-NITROSODIPHENYLAMINE	0.654008	0.60500410		7.49		10	9.251	92.50	70 - 130
N-OCTADECANE	0.153555	0.14318960		6.75		10	9.325	93.30	70 - 130
NAPHTHALENE	1.005360	0.95119250		5.39		10	9.461	94.60	70 - 130
NITROBENZENE	0.365391	0.34966560		4.30		10	9.570	95.70	54 - 158
PENTACHLOROPHENOL	0.101472	0.10999210		8.40		10	9.879	98.80	42 - 152
PHENANTHRENE	1.059977	0.97821420		7.71		10	9.229	92.30	67 - 130
PHENOL	1.657392	1.588253		4.17		10	9.583	95.80	48 - 130
PYRENE	1.397174	1.254554		10.20		10	8.979	89.80	70 - 130
PYRIDINE	1.467163	1.377479		6.11		10	9.389	93.90	70 - 130
2,4,6-TRIBROMOPHENOL	0.092506	0.09299574		0.5290		10	10.05	101	70 - 130
2-FLUOROBIPHENYL	1.416488	1.291297		8.84		10	9.116	91.20	70 - 130
2-FLUOROPHENOL	1.178331	1.130281		4.08		10	9.592	95.90	70 - 130
NITROBENZENE-D5	0.358852	0.36794390		2.53		10	10.25	103	46 - 219
P-TERPHENYL-D14	0.860142	0.78590930		8.63		10	9.137	91.40	70 - 130
PHENOL-D5	1.643406	1.592807		3.08		10	9.692	96.90	48 - 208

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1098374	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0516A_04-3	**Analysis date/time:**	05/17/19 00:46
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	0.244177	0.23587670		3.40		10	11.36	114	70 - 130
3,3-DICHLOROBENZIDINE	0.449516	0.43873840		2.40		10	9.760	97.60	18 - 213
ACETOPHENONE	1.788683	1.725229		3.55		10	9.645	96.50	70 - 130
ATRAZINE	0.349707	0.36134610		3.33		10	10.33	103	70 - 130
BENZALDEHYDE	0.982451	0.92944070		5.40		10	9.460	94.60	70 - 130
BENZIDINE	0.930788	0.88395110		5.03		10	9.497	95	70 - 130
BENZOIC ACID	0.189541	0.21340480		12.60		10	11.26	113	70 - 130
CAPROLACTAM	0.101012	0.10406790		3.03		10	10.30	103	70 - 130

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412206-4

Lab Sample ID:	R3412206-4	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0516_15	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:04
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 17:01
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	5.13	U		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	0	U		0.000309	0.0010	0.00100
Anthracene	120-12-7	6.16	U		0.000291	0.0010	0.00100
Benzidine	92-87-5	7.16	U		0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	0	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	10.50	U		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.16	U		0.000340	0.0010	0.00100
Bis(2-chlorethoxy)methane	111-91-1	3.79	U		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.12	U		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.43	U		0.000445	0.01	0.0100
Carbazole	86-74-8	6.31	U		0.000260	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	13.09	U		0.000279	0.0010	0.00100
3,3-Dichlorobenzidine	91-94-1	8.63	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	4.97	U		0.000279	0.01	0.0100
Fluoranthene	206-44-0	0	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	3.57	U		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	13.04	U		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.74	U		0.000272	0.01	0.0100
Naphthalene	91-20-3	4.03	U		0.000372	0.0010	0.00100
Nitrobenzene	98-95-3	3.60	U		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.15	U		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	0	U		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.49	U		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.10	U		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	0	U		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	0	U		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.50	U		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.37	U		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.87	U		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.23	U		0.000330	0.0010	0.00100
Benzoic Acid	65-85-0	4.10	U		0.00440	0.01	0.0100
Aniline	62-53-3	3.23	U		0.00243	0.01	0.0100
1,2-Diphenylhydrazine	103-33-3	5.56	U		0.000318	0.01	0.0100
Benzyl Alcohol	100-51-6	3.40	U		0.000393	0.01	0.0100
4-Chloroaniline	106-47-8	4.10	U		0.000382	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412206-4

Lab Sample ID:	R3412206-4	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0516_15	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:04
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 17:01
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-Chloro-3-methylphenol	59-50-7	4.47	U		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.24	U		0.000283	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	3.24	U		0.000334	0.01	0.0100
Pyridine	110-86-1	2.04	U		0.00137	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	0	U		0.000297	0.01	0.0100
n-Decane	124-18-5	3.15	U		0.000596	0.01	0.0100
n-Octadecane	593-45-3	5.99	U		0.000377	0.01	0.0100
Dibenzofuran	132-64-9	5.24	U		0.000338	0.01	0.0100
2,4-Dichlorophenol	120-83-2	0	U		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.93	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-Methylnaphthalene	91-57-6	4.45	U		0.000311	0.0010	0.00100
2-Methylphenol	95-48-7	3.58	U		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.62	U		0.000266	0.01	0.0100
2-Nitroaniline	88-74-4	0	U		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.10	U		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	0	U		0.000349	0.01	0.0100
Acetophenone	98-86-2	3.51	U		0.00271	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
1-Methylnaphthalene	90-12-0	4.52	U		0.000332	0.0010	0.00100
Biphenyl	92-52-4	4.74	U		0.000325	0.01	0.0100
Atrazine	1912-24-9	0	U		0.000260	0.01	0.0100
Benzaldehyde	100-52-7	3.02	U		0.00140	0.01	0.0100
Caprolactam	105-60-2	4.28	U		0.00259	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412206-5

Lab Sample ID:	R3412206-5	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0516_15a	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:04
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 17:01
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*
Hexachlorophene	70-30-4	0	U		0.00144	0.05	0.0500
n-Nitrosodiethylamine	55-18-5	0	U		0.000497	0.01	0.0100
n-Nitrosodi-n-butylamine	924-16-3	0	U		0.000331	0.01	0.0100
Pentachlorobenzene	608-93-5	0	U		0.000369	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412206-1

Lab Sample ID:	R3412206-1	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0516_12	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:04
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 15:59
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*
Hexachlorophene	70-30-4	0	ND	J4	0.00144	0.05	0.0500
n-Nitrosodiethylamine	55-18-5	2.72	0.0354		0.000497	0.01	0.0100
n-Nitrosodi-n-butylamine	924-16-3	4.25	0.0347		0.000331	0.01	0.0100
Pentachlorobenzene	608-93-5	5.21	0.0353		0.000369	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412206-2

Lab Sample ID:	R3412206-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0516_13	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:04
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 16:20
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	5.13	0.0369		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	5.03	0.0396		0.000309	0.0010	0.00100
Anthracene	120-12-7	6.16	0.0387		0.000291	0.0010	0.00100
Benzidine	92-87-5	7.17	0.0249		0.00432	0.01	0.0100
Biphenyl	92-52-4	4.74	0.0374		0.000325	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.63	0.0396		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.43	0.0412		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.49	0.0405		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.05	0.0359		0.000340	0.0010	0.00100
Bis(2-chlorethoxy)methane	111-91-1	3.87	0.0351		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.14	0.0800		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.42	0.0344		0.000445	0.01	0.0100
Carbazole	86-74-8	6.32	0.0399		0.00162	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.76	0.0377		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.69	0.0372		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	13.09	0.0387		0.000279	0.0010	0.00100
3,3-Dichlorobenzidine	91-94-1	8.65	0.0715		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.24	0.0391		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.99	0.0397		0.000279	0.01	0.0100
Fluoranthene	206-44-0	7.03	0.0396		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.47	0.0401		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.83	0.0373		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	4.09	0.0331		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.54	0.0311		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	3.57	0.0336		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	13.04	0.0362		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.75	0.0346		0.000272	0.01	0.0100
Naphthalene	91-20-3	4.04	0.0327		0.000372	0.0010	0.00100
Nitrobenzene	98-95-3	3.62	0.0415		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.02	0.0159		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.56	0.0387		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.50	0.0379		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.13	0.0375		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.90	0.0406		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.69	0.0403		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.50	0.0424		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.38	0.0389		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.93	0.0388		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.24	0.0401		0.000330	0.0010	0.00100
Benzoic Acid	65-85-0	4.02	0.0316		0.00440	0.01	0.0100
Aniline	62-53-3	3.14	0.0269		0.00243	0.01	0.0100
1,2-Diphenylhydrazine	103-33-3	5.56	0.0413		0.000318	0.01	0.0100
Benzyl Alcohol	100-51-6	3.41	0.0363		0.000393	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412206-2

Lab Sample ID:	R3412206-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0516_13	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:04
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 16:20
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-Chloroaniline	106-47-8	4.10	0.0277		0.000382	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.47	0.0354		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.24	0.0345		0.000283	0.01	0.0100
Dibenzofuran	132-64-9	5.25	0.0374		0.000338	0.01	0.0100
2,4-Dichlorophenol	120-83-2	4.02	0.0359		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.89	0.0322		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.50	0.0350		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.17	0.0257		0.00325	0.01	0.0100
2-Methylnaphthalene	91-57-6	4.46	0.0332		0.000311	0.0010	0.00100
2-Methylphenol	95-48-7	3.52	0.0310		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.62	0.0327		0.000266	0.01	0.0100
2-Nitroaniline	88-74-4	4.86	0.0406		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.14	0.0327		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	5.55	0.0349		0.000349	0.01	0.0100
2-Nitrophenol	88-75-5	3.80	0.0379		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.38	0.0154		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	6.02	0.0241		0.000313	0.01	0.0100
Phenol	108-95-2	3.25	0.0150		0.000334	0.01	0.0100
Pyridine	110-86-1	2.05	0.0169		0.00137	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.67	0.0410		0.000297	0.01	0.0100
n-Decane	124-18-5	3.15	0.0287		0.000596	0.01	0.0100
n-Octadecane	593-45-3	5.98	0.0345		0.000377	0.01	0.0100
Acetophenone	98-86-2	3.51	0.0371		0.00271	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.55	0.0349		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.75	0.0437		0.000236	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.52	0.0341		0.000217	0.0010	0.00100
Atrazine	1912-24-9	5.92	0.0375		0.00153	0.01	0.0100
Benzaldehyde	100-52-7	3.06	0.0576		0.00140	0.01	0.0100
Caprolactam	105-60-2	4.30	0.0131		0.00259	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412206-3

Lab Sample ID:	R3412206-3	**SDG:**	L1098374
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0516_14	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:04
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 16:41
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	5.13	0.0373		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	5.02	0.0400		0.000309	0.0010	0.00100
Anthracene	120-12-7	6.16	0.0397		0.000291	0.0010	0.00100
Benzidine	92-87-5	7.17	0.0355		0.00432	0.01	0.0100
Biphenyl	92-52-4	4.74	0.0381		0.000325	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.63	0.0412		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.43	0.0434		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.49	0.0412		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.05	0.0382		0.000340	0.0010	0.00100
Bis(2-chlorethoxy)methane	111-91-1	3.87	0.0352		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.14	0.0846		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.42	0.0345		0.000445	0.01	0.0100
Carbazole	86-74-8	6.31	0.0412		0.00162	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.76	0.0379		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.69	0.0393		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	13.09	0.0416		0.000279	0.0010	0.00100
3,3-Dichlorobenzidine	91-94-1	8.64	0.0755		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.24	0.0406		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.99	0.0411		0.000279	0.01	0.0100
Fluoranthene	206-44-0	7.03	0.0414		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.47	0.0407		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.83	0.0375		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	4.09	0.0315		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.54	0.0299		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	3.57	0.0316		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	13.04	0.0420		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.75	0.0348		0.000272	0.01	0.0100
Naphthalene	91-20-3	4.04	0.0319		0.000372	0.0010	0.00100
Nitrobenzene	98-95-3	3.62	0.0415		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.02	0.0166		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.55	0.0394		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.50	0.0376		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.12	0.0385		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.90	0.0428		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.68	0.0418		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.50	0.0450		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.37	0.0405		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.93	0.0403		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.23	0.0420		0.000330	0.0010	0.00100
Benzoic Acid	65-85-0	4.01	0.0306		0.00440	0.01	0.0100
Aniline	62-53-3	3.14	0.0308		0.00243	0.01	0.0100
1,2-Diphenylhydrazine	103-33-3	5.56	0.0424		0.000318	0.01	0.0100
Benzyl Alcohol	100-51-6	3.41	0.0390		0.000393	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412206-3

Lab Sample ID:	R3412206-3	**SDG:**	L1098374
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0516_14	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/16/19 07:04
Analytical Batch:	WG1282468	**Analysis Date/Time:**	05/16/19 16:41
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-Chloroaniline	106-47-8	4.10	0.0299		0.000382	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.47	0.0369		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.24	0.0345		0.000283	0.01	0.0100
Dibenzofuran	132-64-9	5.25	0.0387		0.000338	0.01	0.0100
2,4-Dichlorophenol	120-83-2	4.02	0.0358		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.89	0.0328		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.50	0.0381		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.17	0.0276		0.00325	0.01	0.0100
2-Methylnaphthalene	91-57-6	4.45	0.0345		0.000311	0.0010	0.00100
2-Methylphenol	95-48-7	3.52	0.0322		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.62	0.0351		0.000266	0.01	0.0100
2-Nitroaniline	88-74-4	4.86	0.0429		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.14	0.0382		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	5.54	0.0389		0.000349	0.01	0.0100
2-Nitrophenol	88-75-5	3.80	0.0372		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.38	0.0187		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	6.02	0.0256		0.000313	0.01	0.0100
Phenol	108-95-2	3.25	0.0164		0.000334	0.01	0.0100
Pyridine	110-86-1	2.05	0.0189		0.00137	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.67	0.0413		0.000297	0.01	0.0100
n-Decane	124-18-5	3.15	0.0277		0.000596	0.01	0.0100
n-Octadecane	593-45-3	5.97	0.0347		0.000377	0.01	0.0100
Acetophenone	98-86-2	3.51	0.0370		0.00271	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.55	0.0349		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.74	0.0451		0.000236	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.52	0.0339		0.000217	0.0010	0.00100
Atrazine	1912-24-9	5.92	0.0401		0.00153	0.01	0.0100
Benzaldehyde	100-52-7	3.06	0.0556		0.00140	0.01	0.0100
Caprolactam	105-60-2	4.30	0.0150		0.00259	0.01	0.0100

8015M SVOC-GC-GLYCOLS

2A-OR

SURROGATE RECOVERY

Analytical Method: 8015M **SDG:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	TOT Out
				% Rec.	
BLANK	R3411978-1	SVGC10	0516_06	79.3	0
LCS	R3411978-2	SVGC10	0516_07	80.0	0
LCSD	R3411978-3	SVGC10	0516_08	82.4	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.

2A-OR

SURROGATE RECOVERY

Analytical Method: 8015M **SDG:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
WW-20190512-002 -DAY 10	L1098374-01	SVGC10	0516A_06	75.6	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.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1098374-01

SAMPLE NO.:
R3411978-2
R3411978-3

LCS Sample / File ID:	R3411978-2 / 0516_07	**SDG:**	L1098374
LCSD Sample / File ID:	R3411978-3 / 0516_08	**Analytical Batch:**	WG1281711
Instrument ID:	SVGC10	**Dilution Factor:**	1
Analytical Method:	8015M	**Matrix:**	WW

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	98.1	99.7	109	111	80.0 - 120	1.62	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.:
R3411978-1

Lab Sample ID:	R3411978-1	**SDG:**	L1098374
Lab File ID:	0516_06	**Preparation Date/Time:**	05/16/19 09:52
Instrument ID:	SVGC10	**Analysis Date/Time:**	05/16/19 11:47
Analytical Batch:	WG1281711	**Dilution Factor:**	1
Analytical Method:	8015M	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3411978-2	SVGC10	0516_07	05/16/19 12:04
LCSD	R3411978-3	SVGC10	0516_08	05/16/19 12:22
WW-20190512-002-DAY 10	L1098374-01	SVGC10	0516A_06	05/16/19 17:58

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0516A_06	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/16/19 09:53
Analytical Batch:	WG1281711	**Analysis Date/Time:**	05/16/19 17:58
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**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:	L1098374	**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:	L1098374	**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:	L1098374	**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:	L1098374	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0516_04	**Analysis date/time:**	05/16/19 11:11
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	33.95	113	80 - 120
1,3-PROPANEDIOL	30	33.48	112	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0516_09	**Analysis date/time:**	05/16/19 12:40
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	34.05	114	80 - 120
1,3-PROPANEDIOL	30	32.98	110	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0516_17	**Analysis date/time:**	05/16/19 15:03
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	7.042	23.50	80 - 120
1,3-PROPANEDIOL	30	4.804	16	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0516A_04	**Analysis date/time:**	05/16/19 17:22
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	34.10	114	80 - 120
1,3-PROPANEDIOL	30	33.37	111	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0516A_08	**Analysis date/time:**	05/16/19 18:34
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	34.56	115	80 - 120
1,3-PROPANEDIOL	30	33.45	112	50 - 150

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1098374	**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	SVGC100516190516_04465874	0516_04	05/16/19 11:11	1	
BLANK	R3411978-1	0516_06	05/16/19 11:47	1	WG1281711
LCS	R3411978-2	0516_07	05/16/19 12:04	1	WG1281711
LCSD	R3411978-3	0516_08	05/16/19 12:22	1	WG1281711
CCV	SVGC100516190516_09465874	0516_09	05/16/19 12:40	1	
CCV	SVGC100516190516_17465874	0516_17	05/16/19 15:03	1	
CCV	SVGC10051619A0516A_04465874	0516A_04	05/16/19 17:22	1	
WW-20190512-002-DAY 10	L1098374-01	0516A_06	05/16/19 17:58	1	WG1281711
CCV	SVGC10051619A0516A_08465874	0516A_08	05/16/19 18:34	1	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411978-1

Lab Sample ID:	R3411978-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0516_06	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/16/19 09:52
Analytical Batch:	WG1281711	**Analysis Date/Time:**	05/16/19 11:47
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**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.:
R3411978-2

Lab Sample ID:	R3411978-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0516_07	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/16/19 09:52
Analytical Batch:	WG1281711	**Analysis Date/Time:**	05/16/19 12:04
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**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	5.71	98.1		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411978-3

Lab Sample ID:	R3411978-3	**SDG:**	L1098374
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0516_08	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/16/19 09:52
Analytical Batch:	WG1281711	**Analysis Date/Time:**	05/16/19 12:22
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**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	5.72	99.7		0.492	5	5.00

8151 Chlorinated Acid Herbicides (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: 8151 **SDG:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
WW-20190512-002 -DAY 10	L1098374-01	SVGC11	0517B_21	67.5	0
BLANK	R3412833-1	SVGC11	0517B_16	53.6	0
LCS	R3412833-2	SVGC11	0517B_17	57.6	0
LCSD	R3412833-3	SVGC11	0517B_18	66.0	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

L1098374-01

SAMPLE NO.:
R3412833-2
R3412833-3

LCS Sample / File ID:	R3412833-2 / 0517B_17	**SDG:**	L1098374
LCSD Sample / File ID:	R3412833-3 / 0517B_18	**Analytical Batch:**	WG1281335
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	0.00290	0.00337	58.0	67.4	50.0 - 125	15.0	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.:
R3412833-1

Lab Sample ID:	R3412833-1	**SDG:**	L1098374
Lab File ID:	0517B_16	**Preparation Date/Time:**	05/15/19 12:04
Instrument ID:	SVGC11	**Analysis Date/Time:**	05/17/19 21:26
Analytical Batch:	WG1281335	**Dilution Factor:**	1
Analytical Method:	8151	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3412833-2	SVGC11	0517B_17	05/17/19 21:40
LCSD	R3412833-3	SVGC11	0517B_18	05/17/19 21:54
WW-20190512-002-DAY 10	L1098374-01	SVGC11	0517B_21	05/17/19 22:36

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0517B_21	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/15/19 12:06
Analytical Batch:	WG1281335	**Analysis Date/Time:**	05/17/19 22:36
Dilution Factor:	1.02	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	980 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		0.000862	0.00200	0.00204

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/17/19 20:45
Analytical Method:	8151		

Analyte	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	5.19	5.19	5.19	5.19	5.19	5.19
2,4,5-TP (SILVEX)	6.16	6.16	6.16	6.16	6.16	6.16
File ID:	0517B_09	0517B_10	0517B_11	0517B_08	0517B_12	0517B_13

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/17/19 20:45
Analytical Method:	8151		

Analyte	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	5.37	5.37	5.37	5.37	5.37	5.37
2,4,5-TP (SILVEX)	6.34	6.34	6.34	6.34	6.34	6.35
File ID:	0517B_09	0517B_10	0517B_11	0517B_08	0517B_12	0517B_13

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/17/19 20:45
Analytical Method:	8151		

Analyte	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	1784000	1379000	1324000	1350000	1203000	1116000
2,4,5-TP (SILVEX)	11050000	8600000	8540000	8630000	7930000	7570000
File ID:	0517B_09	0517B_10	0517B_11	0517B_08	0517B_12	0517B_13

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/17/19 20:45
Analytical Method:	8151		

Analyte	RRF. Avg	%RSD	COD
2,4-DICHLOROPHENYL ACETIC ACID	1359365	16.97	
2,4,5-TP (SILVEX)	8720200	14	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/17/19 20:45
Analytical Method:	8151		

Analyte	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	1397000	1173000	1286000	1181000	1189000	1190000
2,4,5-TP (SILVEX)	8609000	6748000	7674000	7197000	7365000	7489000
File ID:	0517B_09	0517B_10	0517B_11	0517B_08	0517B_12	0517B_13

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/17/19 20:45
Analytical Method:	8151		

Analyte	RRF. Avg	%RSD	COD
2,4-DICHLOROPHENYL ACETIC ACID	1235960	7.22	
2,4,5-TP (SILVEX)	7513690	8.28	

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/17/19 20:45
Lab File ID:	0517B_14	**Analysis date/time:**	05/17/19 20:58
Analytical Method:	8151	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.1893	94.70	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/17/19 20:45
Lab File ID:	0517B_14	**Analysis date/time:**	05/17/19 20:58
Analytical Method:	8151	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.1899	94.90	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/17/19 20:45
Lab File ID:	0517B_29	**Analysis date/time:**	05/18/19 00:26
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2222	111	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2007	100	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/17/19 19:36
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/17/19 20:45
Lab File ID:	0517B_29	**Analysis date/time:**	05/18/19 00:26
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.3092	155	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.3026	151	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1098374	**Analytical Method:**	8151
Instrument ID:	SVGC11	**Calibration Start Date:**	05/17/19 19:36
		Calibration End Date:	05/17/19 20:45

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	200	0517B_08	05/17/19 19:36	1	
CAL	20	0517B_09	05/17/19 19:50	1	
CAL	50	0517B_10	05/17/19 20:04	1	
CAL	100	0517B_11	05/17/19 20:17	1	
CAL	500	0517B_12	05/17/19 20:31	1	
CAL	1000	0517B_13	05/17/19 20:45	1	
SSCV	SVGC11051719B0517B_14472156	0517B_14	05/17/19 20:58	1	
BLANK	R3412833-1	0517B_16	05/17/19 21:26	1	WG1281335
LCS	R3412833-2	0517B_17	05/17/19 21:40	1	WG1281335
LCSD	R3412833-3	0517B_18	05/17/19 21:54	1	WG1281335
WW-20190512-002-DAY 10	L1098374-01	0517B_21	05/17/19 22:36	1.02	WG1281335
CCV	SVGC11051719B0517B_29472156	0517B_29	05/18/19 00:26	1	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3412833-1

Lab Sample ID:	R3412833-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0517B_16	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/15/19 12:04
Analytical Batch:	WG1281335	**Analysis Date/Time:**	05/17/19 21:26
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	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
2,4,5-TP (Silvex)	1	0	U	0

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3412833-2

Lab Sample ID:	R3412833-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0517B_17	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/15/19 12:04
Analytical Batch:	WG1281335	**Analysis Date/Time:**	05/17/19 21:40
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	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
2,4,5-TP (Silvex)	1	6.16	0.00290	37.1

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3412833-3

Lab Sample ID:	R3412833-3	**SDG:**	L1098374
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0517B_18	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/15/19 12:04
Analytical Batch:	WG1281335	**Analysis Date/Time:**	05/17/19 21:54
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	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
2,4,5-TP (Silvex)	1	6.16	0.00337	43.7

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412833-1

Lab Sample ID:	R3412833-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0517B_16	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/15/19 12:04
Analytical Batch:	WG1281335	**Analysis Date/Time:**	05/17/19 21:26
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.:
R3412833-2

Lab Sample ID:	R3412833-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0517B_17	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/15/19 12:04
Analytical Batch:	WG1281335	**Analysis Date/Time:**	05/17/19 21:40
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	6.16	0.00290		0.000845	0.0020	0.00200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412833-3

Lab Sample ID:	R3412833-3	**SDG:**	L1098374
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0517B_18	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/15/19 12:04
Analytical Batch:	WG1281335	**Analysis Date/Time:**	05/17/19 21:54
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	6.16	0.00337		0.000845	0.0020	0.00200

Calc. Calculated Results

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	NONE	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	NONE	**Preparation Date/Time:**	05/23/19 05:57
Analytical Batch:	WG1282738	**Analysis Date/Time:**	05/23/19 05:57
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	0.0423	J	0.0317	0.100	0.100

EPA 608.3 Pesticides (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA 608.3 **SDG:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
WW-20190512-002 -DAY 10	L1098374-01	SVGC24	0515_15	87.7	73.5	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.

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA 608.3 **SDG:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	DMC-2	TOT Out
				% Rec.	*% Rec.*	
MS	R3411789-3	SVGC24	0515_17	83.3	72.4	0
MSD	R3411789-4	SVGC24	0515_18	86.1	75.1	0
BLANK	R3411789-2	SVGC24	0515_08	103	88.1	0
LCS	R3411789-1	SVGC24	0515_07	91.0	86.2	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

L1098374-01

SAMPLE NO.:
R3411789-3
R3411789-4

MS Sample / File ID:	R3411789-3 / 0515_17	**SDG:**	L1098374
MSD Sample / File ID:	R3411789-4 / 0515_18	**Analytical Batch:**	WG1280965
OS Sample / File ID:	L1098613-01 / 0515_16	**Matrix:**	WW
Instrument ID:	SVGC24		
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	U	0.000797	0.000968	79.7	96.8	1	42.0 - 140	19.4	35
Alpha BHC	0.00100	U	0.00115	0.00131	115	131	1	37.0 - 140	13.0	36
Beta BHC	0.00100	U	0.000914	0.00100	91.4	100	1	17.0 - 147	8.99	44
Gamma BHC	0.00100	U	0.00113	0.00123	113	123	1	32.0 - 140	8.47	39
4,4-DDD	0.00100	U	0.000918	0.000944	91.8	94.4	1	31.0 - 141	2.79	39
4,4-DDE	0.00100	U	0.000768	0.000785	76.8	78.5	1	30.0 - 145	2.19	35
4,4-DDT	0.00100	U	0.000927	0.000968	92.7	96.8	1	25.0 - 160	4.33	42
Dieldrin	0.00100	U	0.000887	0.000911	88.7	91.1	1	36.0 - 146	2.67	49
Endosulfan I	0.00100	U	0.000843	0.000874	84.3	87.4	1	45.0 - 153	3.61	28
Endosulfan II	0.00100	U	0.00102	0.00104	102	104	1	1.00 - 202	1.94	53
Endosulfan sulfate	0.00100	U	0.000932	0.000959	93.2	95.9	1	26.0 - 144	2.86	38
Endrin	0.00100	U	0.000926	0.000950	92.6	95.0	1	30.0 - 147	2.56	48
Heptachlor	0.00100	U	0.000875	0.000959	87.5	95.9	1	34.0 - 140	9.16	43
Heptachlor epoxide	0.00100	U	0.000844	0.000868	84.4	86.8	1	37.0 - 142	2.80	26
Methoxychlor	0.00100	U	0.00102	0.00110	102	110	1	44.0 - 160	7.55	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
L1098374-01

SAMPLE NO.:
R3411789-1

LCS Sample / File ID:	R3411789-1 / 0515_07	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280965
Instrument ID:	SVGC24	**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	0.000908		90.8		42.0 - 140		
Alpha BHC	0.00100	0.00101		101		37.0 - 140		
Beta BHC	0.00100	0.000953		95.3		17.0 - 147		
Gamma BHC	0.00100	0.000983		98.3		32.0 - 140		
4,4-DDD	0.00100	0.000954		95.4		31.0 - 141		
4,4-DDE	0.00100	0.000972		97.2		30.0 - 145		
4,4-DDT	0.00100	0.000999		99.9		25.0 - 160		
Dieldrin	0.00100	0.000999		99.9		36.0 - 146		
Endosulfan I	0.00100	0.000979		97.9		45.0 - 153		
Endosulfan II	0.00100	0.000961		96.1		1.00 - 202		
Endosulfan sulfate	0.00100	0.00101		101		26.0 - 144		
Endrin	0.00100	0.00101		101		30.0 - 147		
Heptachlor	0.00100	0.000954		95.4		34.0 - 140		
Heptachlor epoxide	0.00100	0.000993		99.3		37.0 - 142		
Methoxychlor	0.00100	0.00104		104		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.:
R3411789-2

Lab Sample ID:	R3411789-2	**SDG:**	L1098374
Lab File ID:	0515_08	**Preparation Date/Time:**	05/15/19 07:15
Instrument ID:	SVGC24	**Analysis Date/Time:**	05/15/19 15:38
Analytical Batch:	WG1280965	**Dilution Factor:**	1
Analytical Method:	EPA 608.3	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3411789-1	SVGC24	0515_07	05/15/19 15:23
WW-20190512-002-DAY 10	L1098374-01	SVGC24	0515_15	05/15/19 17:21
OS	L1098613-01	SVGC24	0515_16	05/15/19 17:36
MS	R3411789-3	SVGC24	0515_17	05/15/19 17:51
MSD	R3411789-4	SVGC24	0515_18	05/15/19 18:05

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1098374	**Analytical Method:**	EPA 608.3
Instrument ID:	SVGC24	**Calibration Start Date:**	05/14/19 15:05
Std File:	AVG	**Calibration End Date:**	05/14/19 20:44
		Std Analysis Date:	AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE	
		Response	*RT*
STANDARD		481473700	2.69
UPPER LIMIT		970446000	
LOWER LIMIT		242611500	
LCS R3411789-1 WG1280965 1x	0515_07	478159600	2.46
BLANK R3411789-2 WG1280965 1x	0515_08	431358200	2.45
L1098374-01 WG1280965 1x	0515_15	507764800	2.45
OS L1098613-01 WG1280965 1x	0515_16	498107200	2.45
MS R3411789-3 WG1280965 1x	0515_17	533540700	2.45
MSD R3411789-4 WG1280965 1x	0515_18	532047900	2.45

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-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0515_15	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC24	**Preparation Date/Time:**	05/15/19 07:16
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 17:21
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*
Aldrin	309-00-2	0	U		0.00000813	0.0000500	0.0000500
Alpha BHC	319-84-6	0	U		0.0000166	0.0000500	0.0000500
Beta BHC	319-85-7	0	U		0.0000184	0.0000500	0.0000500
Gamma BHC	58-89-9	0	U		0.0000176	0.0000500	0.0000500
Chlordane	57-74-9	0	U		0.0000977	0.000500	0.000500
4,4-DDD	72-54-8	0	U		0.0000170	0.0000500	0.0000500
4,4-DDE	72-55-9	0	U		0.0000164	0.0000500	0.0000500
4,4-DDT	50-29-3	0	U		0.0000177	0.0000500	0.0000500
Dieldrin	60-57-1	0	U		0.00000751	0.0000500	0.0000500
Endosulfan I	959-98-8	0	U		0.0000179	0.0000500	0.0000500
Endosulfan II	33213-65-9	0	U		0.0000176	0.0000500	0.0000500
Endosulfan sulfate	1031-07-8	0	U		0.0000196	0.0000500	0.0000500
Endrin	72-20-8	0	U		0.0000189	0.0000500	0.0000500
Heptachlor	76-44-8	0	U		0.0000108	0.0000500	0.0000500
Heptachlor epoxide	1024-57-3	0	U		0.0000175	0.0000500	0.0000500
Methoxychlor	72-43-5	0	U		0.0000193	0.0000500	0.0000500
Toxaphene	8001-35-2	0	U		0.000168	0.000500	0.000500

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	05/14/19 20:44
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	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.70		
ALPHA BHC	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40		
GAMMA BHC	4.77	4.77	4.77	4.77	4.77	4.77	4.77	4.77		
BETA BHC	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87		
ALDRIN	5.52	5.52	5.52	5.52	5.51	5.52	5.52	5.52		
DIELDRIN	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16		
DECACHLOROBIPHENYL	10.14	10.14	10.14	10.14	10.14	10.14	10.13	10.13		
HEPTACHLOR		5.18	5.18	5.18	5.18	5.18	5.18	5.18		
HEPTACHLOR EPOXIDE		6.23	6.23	6.23	6.23	6.23	6.23	6.23		
ENDOSULFAN I		6.79	6.79	6.79	6.79	6.79	6.79	6.79		
4,4-DDE		7.01	7.01	7.01	7	7	7	7		
ENDRIN		7.54	7.54	7.54	7.54	7.54	7.54	7.54		
4,4-DDD		7.73	7.73	7.73	7.73	7.73	7.73	7.73		
ENDOSULFAN II		7.80	7.80	7.80	7.80	7.80	7.80	7.80		
4,4-DDT		8.08	8.08	8.08	8.08	8.08	8.08	8.08		
ENDOSULFAN SULFATE		8.48	8.48	8.48	8.48	8.48	8.48	8.48		
METHOXYCHLOR		8.81	8.82	8.82	8.82	8.81	8.81	8.81		
TOXAPHENE									7.10	7.10
CHLORDANE										
File ID:	0514_04	0514_05	0514_06	0514_07	0514_08	0514_09	0514_10	0514_11	0514_15	0514_16

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	05/14/19 20:44
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										
ALDRIN										
DIELDRIN										
DECACHLOROBIPHENYL										
HEPTACHLOR										
HEPTACHLOR EPOXIDE										
ENDOSULFAN I										
4,4-DDE										
ENDRIN										
4,4-DDD										
ENDOSULFAN II										
4,4-DDT										
ENDOSULFAN SULFATE										
METHOXYCHLOR										
TOXAPHENE	7.10	7.10	7.10	7.10						
CHLORDANE					4.98	4.98	4.98	4.98	4.98	4.98
File ID:	0514_17	0514_18	0514_19	0514_20	0514_22	0514_23	0514_24	0514_25	0514_26	0514_27

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	05/14/19 20:44
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	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77		
ALPHA BHC	4.42	4.41	4.42	4.42	4.42	4.42	4.42	4.42		
GAMMA BHC	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75		
BETA BHC	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85		
ALDRIN	5.54	5.54	5.54	5.54	5.54	5.54	5.54	5.54		
DIELDRIN	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18		
DECACHLOROBIPHENYL	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89		
HEPTACHLOR		5.22	5.22	5.22	5.22	5.22	5.22	5.22		
HEPTACHLOR EPOXIDE		6.30	6.30	6.30	6.30	6.30	6.30	6.30		
ENDOSULFAN I		6.86	6.86	6.86	6.86	6.86	6.86	6.86		
4,4-DDE		6.83	6.83	6.83	6.83	6.83	6.83	6.83		
ENDRIN		7.47	7.47	7.47	7.47	7.47	7.47	7.47		
4,4-DDD		7.59	7.59	7.59	7.59	7.59	7.59	7.59		
ENDOSULFAN II		7.74	7.74	7.74	7.74	7.74	7.74	7.74		
4,4-DDT		7.92	7.92	7.92	7.92	7.92	7.92	7.92		
ENDOSULFAN SULFATE		8.67	8.67	8.67	8.67	8.67	8.67	8.67		
METHOXYCHLOR		8.46	8.46	8.46	8.46	8.46	8.46	8.46		
TOXAPHENE									7.10	7
CHLORDANE										
File ID:	0514_04	0514_05	0514_06	0514_07	0514_08	0514_09	0514_10	0514_11	0514_15	0514_16

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	05/14/19 20:44
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										
ALDRIN										
DIELDRIN										
DECACHLOROBIPHENYL										
HEPTACHLOR										
HEPTACHLOR EPOXIDE										
ENDOSULFAN I										
4,4-DDE										
ENDRIN										
4,4-DDD										
ENDOSULFAN II										
4,4-DDT										
ENDOSULFAN SULFATE										
METHOXYCHLOR										
TOXAPHENE	7	7	7	7						
CHLORDANE					5	5	5	5	5	5
File ID:	0514_17	0514_18	0514_19	0514_20	0514_22	0514_23	0514_24	0514_25	0514_26	0514_27

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	05/14/19 20:44
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	1.19	1.2820	1.2740	1.2650	1.2170	1.2230	1.1980	1.2320
ALPHA BHC	1.3480	1.4470	1.5280	1.5590	1.5430	1.5980	1.60	1.6840
GAMMA BHC	1.2560	1.3380	1.3730	1.3970	1.3650	1.4040	1.4050	1.4770
BETA BHC	0.7250	0.68	0.6360	0.6110	0.5830	0.5850	0.5780	0.60
ALDRIN	1.2880	1.3560	1.3960	1.4080	1.3740	1.4010	1.3840	1.4310
DIELDRIN	1.1610	1.2670	1.2870	1.2930	1.2530	1.27	1.2470	1.2780
DECACHLOROBIPHENYL	1.0680	1.1360	1.0890	1.05	0.9930	0.9830	0.9590	1.0110
HEPTACHLOR		1.2790	1.2780	1.28	1.2340	1.2520	1.2290	1.2580
HEPTACHLOR EPOXIDE		1.19	1.2610	1.28	1.22	1.2250	1.1940	1.2090
ENDOSULFAN I		1.2230	1.2010	1.1880	1.1380	1.1370	1.11	1.13
4,4-DDE		1.2980	1.3490	1.3720	1.3490	1.3860	1.3820	1.4360
ENDRIN		1.1550	1.1580	1.1610	1.1130	1.1210	1.0910	1.1080
4,4-DDD		0.9560	0.9680	0.9690	0.9330	0.9470	0.9350	0.9660
ENDOSULFAN II		1.1010	1.0940	1.0770	1.0230	1.02	0.9910	1.0080
4,4-DDT		0.8160	0.8320	0.84	0.8240	0.8560	0.86	0.9050
ENDOSULFAN SULFATE		1.1070	1.0630	1.0320	0.9950	0.9840	0.9520	0.9730
METHOXYCHLOR		0.4450	0.4440	0.4340	0.4090	0.3990	0.3880	0.39
TOXAPHENE								
CHLORDANE								
File ID:	0514_04	0514_05	0514_06	0514_07	0514_08	0514_09	0514_10	0514_11

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	05/14/19 20:44
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								
ALDRIN								
DIELDRIN								
DECACHLOROBIPHENYL								
HEPTACHLOR								
HEPTACHLOR EPOXIDE								
ENDOSULFAN I								
4,4-DDE								
ENDRIN								
4,4-DDD								
ENDOSULFAN II								
4,4-DDT								
ENDOSULFAN SULFATE								
METHOXYCHLOR								
TOXAPHENE	1.1460	0.8340	0.6630	0.6240	0.6240	0.6270		
CHLORDANE							1.38	0.9860
File ID:	0514_15	0514_16	0514_17	0514_18	0514_19	0514_20	0514_22	0514_23

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	05/14/19 20:44
Analytical Method:	EPA 608.3		

Analyte	RRF: 100C	RRF: 200C	RRF: 500C	RRF: 1KC	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					1.235113	2.82	
ALPHA BHC					1.538252	6.67	
GAMMA BHC					1.377007	4.61	
BETA BHC					0.62476	8.48	
ALDRIN					1.379694	3.15	
DIELDRIN					1.257212	3.32	
DECACHLOROBIPHENYL					1.035992	5.81	
HEPTACHLOR					1.258504	1.7	
HEPTACHLOR EPOXIDE					1.225393	2.74	
ENDOSULFAN I					1.160806	3.65	
4,4-DDE					1.367258	3.1	
ENDRIN					1.129547	2.48	
4,4-DDD					0.953445	1.63	
ENDOSULFAN II					1.044782	4.28	
4,4-DDT					0.847588	3.55	
ENDOSULFAN SULFATE					1.01525	5.43	
METHOXYCHLOR					0.415446	6.03	
TOXAPHENE					0.753027	27.76	0.999
CHLORDANE	0.8880	0.8770	0.8580	0.8690	0.976394	20.8	1
File ID:	0514_24	0514_25	0514_26	0514_27			

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	05/14/19 20:44
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	1.0870	1.2280	1.1760	1.1610	1.1170	1.1170	1.0870	1.1090
ALPHA BHC	1.4770	1.5080	1.5330	1.5820	1.5610	1.61	1.5940	1.6530
GAMMA BHC	1.2930	1.4370	1.4040	1.4170	1.3850	1.4130	1.3950	1.4450
BETA BHC	0.7970	0.8620	0.7530	0.6860	0.61	0.5870	0.5690	0.58
ALDRIN	1.30	1.3910	1.4010	1.41	1.3770	1.4040	1.3760	1.4050
DIELDRIN	1.3760	1.4840	1.3660	1.3550	1.3120	1.3290	1.2850	1.30
DECACHLOROBIPHENYL	1.5980	1.4710	1.3260	1.2630	1.1630	1.1220	1.0870	1.1160
HEPTACHLOR		1.36	1.3560	1.3560	1.2810	1.28	1.2410	1.2540
HEPTACHLOR EPOXIDE		1.3370	1.2710	1.2510	1.20	1.1860	1.1380	1.15
ENDOSULFAN I		1.2810	1.2150	1.2060	1.1580	1.1590	1.1090	1.1190
4,4-DDE		1.2210	1.2180	1.2460	1.2260	1.2660	1.2420	1.2870
ENDRIN		1.25	1.2310	1.2480	1.1920	1.2040	1.1510	1.1570
4,4-DDD		1.0160	1.0270	1.0390	1.0090	1.0220	1.0040	1.0290
ENDOSULFAN II		1.25	1.20	1.1890	1.1380	1.1250	1.0820	1.0870
4,4-DDT		0.9030	0.9010	0.9190	0.9120	0.9540	0.9620	1.0090
ENDOSULFAN SULFATE		1.38	1.3120	1.2820	1.1970	1.1650	1.1170	1.1270
METHOXYCHLOR		0.5330	0.5290	0.5220	0.4980	0.49	0.4780	0.4820
TOXAPHENE								
CHLORDANE								
File ID:	0514_04	0514_05	0514_06	0514_07	0514_08	0514_09	0514_10	0514_11

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	05/14/19 20:44
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								
ALDRIN								
DIELDRIN								
DECACHLOROBIPHENYL								
HEPTACHLOR								
HEPTACHLOR EPOXIDE								
ENDOSULFAN I								
4,4-DDE								
ENDRIN								
4,4-DDD								
ENDOSULFAN II								
4,4-DDT								
ENDOSULFAN SULFATE								
METHOXYCHLOR								
TOXAPHENE	2.2830	1.0950	0.8150	0.7340	0.74	0.7530		
CHLORDANE							1.7330	1.0220
File ID:	0514_15	0514_16	0514_17	0514_18	0514_19	0514_20	0514_22	0514_23

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	05/14/19 20:44
Analytical Method:	EPA 608.3		

Analyte	RRF: 100C	RRF: 200C	RRF: 500C	RRF: 1KC	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					1.135033	4.32	
ALPHA BHC					1.564745	3.66	
GAMMA BHC					1.398753	3.36	
BETA BHC					0.680415	16.49	0.998
ALDRIN					1.383033	2.59	
DIELDRIN					1.350824	4.63	
DECACHLOROBIPHENYL					1.268257	14.65	
HEPTACHLOR					1.304026	3.97	
HEPTACHLOR EPOXIDE					1.219024	5.85	
ENDOSULFAN I					1.178091	5.1	
4,4-DDE					1.243581	2.06	
ENDRIN					1.204515	3.38	
4,4-DDD					1.020973	1.21	
ENDOSULFAN II					1.153086	5.39	
4,4-DDT					0.937146	4.23	
ENDOSULFAN SULFATE					1.225743	8.18	
METHOXYCHLOR					0.504458	4.59	
TOXAPHENE					1.070104	56.99	0.998
CHLORDANE	0.9180	0.9010	0.8810	0.89	1.057513	31.65	1
File ID:	0514_24	0514_25	0514_26	0514_27			

7B-OR

PESTICIDE BREAKDOWN

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24	**Calibration (end) date/time:**	05/14/19 20:44
Lab File ID:	0515_02	**Analysis date/time:**	05/15/19 14:09
Analytical Method:	EPA 608.3		

Analyte	Column 2 Response	Column 2 %Breakdown
ENDRIN ALDEHYDE	1149941	
ENDRIN KETONE	3135878	
ENDRIN	117166700	3.66
4,4-DDE	741550	
4,4-DDD	1694864	
4,4-DDT	197079600	1.24

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	05/14/19 20:44
Lab File ID:	0514_13-1	**Analysis date/time:**	05/14/19 17:18
Analytical Method:	EPA 608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.05	0.04898	98	80 - 120
4,4-DDE	0.05	0.04945	98.90	80 - 120
4,4-DDT	0.05	0.04942	98.80	80 - 120
ALDRIN	0.05	0.04956	99.10	80 - 120
ALPHA BHC	0.05	0.05202	104	80 - 120
BETA BHC	0.05	0.04836	96.70	80 - 120
CHLORPYRIFOS	0.05	0.04986	99.70	80 - 120
DECACHLOROBIPHENYL	0.05	0.04799	96	10 - 144
DIELDRIN	0.05	0.04999	100	80 - 120
ENDOSULFAN I	0.05	0.04816	96.30	80 - 120
ENDOSULFAN II	0.05	0.04862	97.20	80 - 120
ENDOSULFAN SULFATE	0.05	0.04517	90.30	80 - 120
ENDRIN	0.05	0.04847	96.90	80 - 120
GAMMA BHC	0.05	0.05024	100	80 - 120
HEPTACHLOR	0.05	0.04869	97.40	80 - 120
HEPTACHLOR EPOXIDE	0.05	0.04917	98.30	80 - 120
HEXACHLOROBENZENE	0.05	0.04658	93.20	80 - 120
METHOXYCHLOR	0.05	0.04756	95.10	80 - 120
TETRACHLORO-M-XYLENE	0.05	0.04870	97.40	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	05/14/19 20:44
Lab File ID:	0514_13-1	**Analysis date/time:**	05/14/19 17:18
Analytical Method:	EPA 608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.05	0.05044	101	80 - 120
4,4-DDE	0.05	0.04954	99.10	80 - 120
4,4-DDT	0.05	0.04990	99.80	80 - 120
ALDRIN	0.05	0.04962	99.20	80 - 120
ALPHA BHC	0.05	0.05135	103	80 - 120
BETA BHC	0.05	0.05190	104	80 - 120
CHLORPYRIFOS	0.05	0.05347	107	80 - 120
DECACHLOROBIPHENYL	0.05	0.04589	91.80	10 - 144
DIELDRIN	0.05	0.04860	97.20	80 - 120
ENDOSULFAN I	0.05	0.04842	96.80	80 - 120
ENDOSULFAN II	0.05	0.04911	98.20	80 - 120
ENDOSULFAN SULFATE	0.05	0.04457	89.10	80 - 120
ENDRIN	0.05	0.04849	97	80 - 120
GAMMA BHC	0.05	0.04967	99.30	80 - 120
HEPTACHLOR	0.05	0.04839	96.80	80 - 120
HEPTACHLOR EPOXIDE	0.05	0.04810	96.20	80 - 120
HEXACHLOROBENZENE	0.05	0.04624	92.50	80 - 120
METHOXYCHLOR	0.05	0.04815	96.30	80 - 120
TETRACHLORO-M-XYLENE	0.05	0.04877	97.50	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	05/14/19 20:44
Lab File ID:	0515_03-1	**Analysis date/time:**	05/15/19 14:24
Analytical Method:	EPA 608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.02	0.02066	103	75 - 125
4,4-DDE	0.02	0.02117	106	75 - 125
4,4-DDT	0.02	0.02131	107	75 - 125
ALDRIN	0.02	0.02133	107	75 - 125
ALPHA BHC	0.02	0.02134	107	69 - 125
BETA BHC	0.02	0.01991	99.60	75 - 125
CHLORPYRIFOS	0.02	0.02424	121	75 - 125
DECACHLOROBIPHENYL	0.02	0.02007	100	70 - 130
DIELDRIN	0.02	0.02126	106	48 - 125
ENDOSULFAN I	0.02	0.02078	104	75 - 125
ENDOSULFAN II	0.02	0.02069	103	75 - 125
ENDOSULFAN SULFATE	0.02	0.02064	103	70 - 125
ENDRIN	0.02	0.02089	104	5 - 125
GAMMA BHC	0.02	0.02103	105	75 - 125
HEPTACHLOR	0.02	0.02070	104	75 - 125
HEPTACHLOR EPOXIDE	0.02	0.02116	106	75 - 125
HEXACHLOROBENZENE	0.02	0.02078	104	75 - 125
METHOXYCHLOR	0.02	0.02159	108	75 - 125
TETRACHLORO-M-XYLENE	0.02	0.02154	108	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	05/14/19 20:44
Lab File ID:	0515_03-1	**Analysis date/time:**	05/15/19 14:24
Analytical Method:	EPA 608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.02	0.01892	94.60	75 - 125
4,4-DDE	0.02	0.01938	96.90	75 - 125
4,4-DDT	0.02	0.02011	101	75 - 125
ALDRIN	0.02	0.01961	98.10	75 - 125
ALPHA BHC	0.02	0.01973	98.70	69 - 125
BETA BHC	0.02	0.01999	100	75 - 125
CHLORPYRIFOS	0.02	0.02369	118	75 - 125
DECACHLOROBIPHENYL	0.02	0.01677	83.80	70 - 130
DIELDRIN	0.02	0.01864	93.20	48 - 125
ENDOSULFAN I	0.02	0.01930	96.50	75 - 125
ENDOSULFAN II	0.02	0.01868	93.40	75 - 125
ENDOSULFAN SULFATE	0.02	0.01834	91.70	70 - 125
ENDRIN	0.02	0.01952	97.60	5 - 125
GAMMA BHC	0.02	0.01983	99.20	75 - 125
HEPTACHLOR	0.02	0.02042	102	75 - 125
HEPTACHLOR EPOXIDE	0.02	0.01956	97.80	75 - 125
HEXACHLOROBENZENE	0.02	0.01866	93.30	75 - 125
METHOXYCHLOR	0.02	0.02048	102	75 - 125
TETRACHLORO-M-XYLENE	0.02	0.01971	98.60	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	05/14/19 20:44
Lab File ID:	0515_04-1	**Analysis date/time:**	05/15/19 14:39
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
TOXAPHENE	0.10	0.1232	123	68 - 134

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	05/14/19 20:44
Lab File ID:	0515_04-1	**Analysis date/time:**	05/15/19 14:39
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
TOXAPHENE	0.10	0.08939	89.40	68 - 134

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	05/14/19 20:44
Lab File ID:	0515_05-1	**Analysis date/time:**	05/15/19 14:54
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
CHLORDANE	0.10	0.1077	108	75 - 125

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/14/19 15:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	05/14/19 20:44
Lab File ID:	0515_05-1	**Analysis date/time:**	05/15/19 14:54
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
CHLORDANE	0.10	0.09603	96	75 - 125

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1098374	**Analytical Method:**	EPA 608.3
Instrument ID:	SVGC24	**Calibration Start Date:**	05/14/19 15:05
		Calibration End Date:	05/14/19 20:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.4	0514_04	05/14/19 15:05	1	
CAL	1	0514_05	05/14/19 15:20	1	
CAL	5	0514_06	05/14/19 15:35	1	
CAL	10	0514_07	05/14/19 15:49	1	
CAL	20	0514_08	05/14/19 16:04	1	
CAL	50	0514_09	05/14/19 16:19	1	
CAL	100	0514_10	05/14/19 16:34	1	
CAL	200	0514_11	05/14/19 16:48	1	
SSCV	SVGC240514190514_13-1472036	0514_13-1	05/14/19 17:18	20	
CAL	10T	0514_15	05/14/19 17:47	1	
CAL	50T	0514_16	05/14/19 18:02	1	
CAL	100T	0514_17	05/14/19 18:17	1	
CAL	200T	0514_18	05/14/19 18:32	1	
CAL	500T	0514_19	05/14/19 18:46	1	
CAL	1KT	0514_20	05/14/19 19:01	1	
CAL	10C	0514_22	05/14/19 19:31	1	
CAL	50C	0514_23	05/14/19 19:45	1	
CAL	100C	0514_24	05/14/19 20:00	1	
CAL	200C	0514_25	05/14/19 20:15	1	
CAL	500C	0514_26	05/14/19 20:30	1	
CAL	1KC	0514_27	05/14/19 20:44	1	
BREAKDOWN	SVGC240515190515_02472036	0515_02	05/15/19 14:09	10	
ICV	SVGC240515190515_03-1472036	0515_03-1	05/15/19 14:24	10	
CCV	SVGC240515190515_04-1472036	0515_04-1	05/15/19 14:39	10	
CCV	SVGC240515190515_05-1472036	0515_05-1	05/15/19 14:54	10	
LCS	R3411789-1	0515_07	05/15/19 15:23	1	WG1280965
BLANK	R3411789-2	0515_08	05/15/19 15:38	1	WG1280965
WW-20190512-002-DAY 10	L1098374-01	0515_15	05/15/19 17:21	1	WG1280965
OS	L1098613-01	0515_16	05/15/19 17:36	1	WG1280965
MS	R3411789-3	0515_17	05/15/19 17:51	1	WG1280965
MSD	R3411789-4	0515_18	05/15/19 18:05	1	WG1280965

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3411789-2

Lab Sample ID:	R3411789-2	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0515_08	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	05/15/19 07:15
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 15:38
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	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Aldrin	1	0	U	0
Alpha BHC	1	0	U	0
Beta BHC	1	0	U	0
Gamma BHC	1	0	U	0
4,4-DDD	1	0	U	0
4,4-DDE	1	0	U	0
4,4-DDT	1	0	U	0
Dieldrin	1	0	U	0
Endosulfan I	1	0	U	0
Endosulfan II	1	0	U	0
Endosulfan sulfate	1	0	U	0
Endrin	1	0	U	0
Heptachlor	1	0	U	0
Heptachlor epoxide	1	0	U	0
Methoxychlor	1	0	U	0
Chlordane	1	0	U	0
Toxaphene	1	0	U	0

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3411789-1

Lab Sample ID:	R3411789-1	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0515_07	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	05/15/19 07:15
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 15:23
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	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Aldrin	1	5.52	0.000908	2.85
Alpha BHC	1	4.40	0.00101	1.95
Beta BHC	1	4.87	0.000953	11.2
Gamma BHC	1	4.77	0.000983	.868
4,4-DDD	1	7.73	0.000954	5.11
4,4-DDE	1	7.01	0.000972	4.36
4,4-DDT	1	8.08	0.000999	4.04
Dieldrin	1	7.17	0.000999	8.67
Endosulfan I	1	6.79	0.000979	2.59
Endosulfan II	1	7.80	0.000961	6.61
Endosulfan sulfate	1	8.48	0.00101	12.3
Endrin	1	7.54	0.00101	4.93
Heptachlor	1	5.18	0.000954	.314
Heptachlor epoxide	1	6.23	0.000993	6.23
Methoxychlor	1	8.82	0.00104	4.41

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.: R3411789-3

Lab Sample ID:	R3411789-3	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 23:55
Lab File ID:	0515_17	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC24	**Preparation Date/Time:**	05/15/19 07:16
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 17:51
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	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Aldrin	1	5.51	0.000797	8
	2	5.54	0.000864	
Alpha BHC	1	4.40	0.00115	22.1
	2	4.42	0.000920	
Beta BHC	1	4.87	0.000914	23
	2	4.85	0.00115	
Gamma BHC	1	4.77	0.00113	26.9
	2	4.75	0.000859	
4,4-DDD	1	7.73	0.000918	1.32
	2	7.59	0.000906	
4,4-DDE	1	7	0.000768	6.97
	2	6.82	0.000824	
4,4-DDT	1	8.08	0.000927	1.45
	2	7.92	0.000940	
Dieldrin	1	7.16	0.000887	13.9
	2	7.18	0.00102	
Endosulfan I	1	6.79	0.000843	3.84
	2	6.86	0.000876	
Endosulfan II	1	7.80	0.00102	15.3
	2	7.74	0.000873	
Endosulfan sulfate	1	8.48	0.000932	19.3
	2	8.67	0.00113	
Endrin	1	7.54	0.000926	2.29
	2	7.47	0.000905	
Heptachlor	1	5.18	0.000875	6.1
	2	5.22	0.000929	
Heptachlor epoxide	1	6.23	0.000844	.953
	2	6.30	0.000836	
Methoxychlor	1	8.81	0.00102	13.3
	2	8.46	0.00116	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.: R3411789-4

Lab Sample ID:	R3411789-4	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 23:55
Lab File ID:	0515_18	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC24	**Preparation Date/Time:**	05/15/19 07:16
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 18:05
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	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Aldrin	1	5.51	0.000968	9.07
	2	5.54	0.000885	
Alpha BHC	1	4.40	0.00131	31.7
	2	4.41	0.000950	
Beta BHC	1	4.87	0.00100	16.8
	2	4.85	0.00119	
Gamma BHC	1	4.77	0.00123	33.5
	2	4.74	0.000877	
4,4-DDD	1	7.73	0.000944	1.23
	2	7.59	0.000932	
4,4-DDE	1	7	0.000785	8.48
	2	6.82	0.000854	
4,4-DDT	1	8.08	0.000968	2.25
	2	7.91	0.000990	
Dieldrin	1	7.16	0.000911	13.8
	2	7.18	0.00105	
Endosulfan I	1	6.79	0.000874	2.6
	2	6.86	0.000897	
Endosulfan II	1	7.80	0.00104	14.8
	2	7.74	0.000899	
Endosulfan sulfate	1	8.48	0.000959	19.8
	2	8.67	0.00117	
Endrin	1	7.54	0.000950	.686
	2	7.47	0.000944	
Heptachlor	1	5.18	0.000959	13.8
	2	5.22	0.00110	
Heptachlor epoxide	1	6.23	0.000868	.926
	2	6.30	0.000860	
Methoxychlor	1	8.81	0.00110	8.88
	2	8.46	0.00121	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411789-2

Lab Sample ID:	R3411789-2	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0515_08	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	05/15/19 07:15
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 15:38
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** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *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.:
R3411789-1

Lab Sample ID:	R3411789-1	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0515_07	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	05/15/19 07:15
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 15:23
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	5.52	0.000908		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.40	0.00101		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.87	0.000953		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.77	0.000983		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	7.73	0.000954		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	7.01	0.000972		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	8.08	0.000999		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	7.17	0.000999		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.79	0.000979		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	7.80	0.000961		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	8.48	0.00101		0.0000196	0.000050	0.0000500
Endrin	72-20-8	7.54	0.00101		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.18	0.000954		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	6.23	0.000993		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	8.82	0.00104		0.0000193	0.000050	0.0000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411789-3

Lab Sample ID:	R3411789-3	**SDG:**	L1098374
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 23:55
Lab File ID:	0515_17	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC24	**Preparation Date/Time:**	05/15/19 07:16
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 17:51
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	5.51	0.000797		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.40	0.00115		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.87	0.000914		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.77	0.00113		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	7.73	0.000918		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	7	0.000768		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	8.08	0.000927		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	7.16	0.000887		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.79	0.000843		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	7.80	0.00102		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	8.48	0.000932		0.0000196	0.000050	0.0000500
Endrin	72-20-8	7.54	0.000926		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.18	0.000875		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	6.23	0.000844		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	8.81	0.00102		0.0000193	0.000050	0.0000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411789-4

Lab Sample ID:	R3411789-4	**SDG:**	L1098374
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 23:55
Lab File ID:	0515_18	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC24	**Preparation Date/Time:**	05/15/19 07:16
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 18:05
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	5.51	0.000968		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.40	0.00131		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.87	0.00100		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.77	0.00123		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	7.73	0.000944		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	7	0.000785		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	8.08	0.000968		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	7.16	0.000911		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.79	0.000874		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	7.80	0.00104		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	8.48	0.000959		0.0000196	0.000050	0.0000500
Endrin	72-20-8	7.54	0.000950		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.18	0.000959		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	6.23	0.000868		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	8.81	0.00110		0.0000193	0.000050	0.0000500

EPA-608.3 Polychlorinated Biphenyls (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA-608.3 **SDG:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
WW-20190512-002 -DAY 10	L1098374-01	SVGC14	0515A_48	91.8	75.7	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:** L1098374
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
BLANK	R3411824-1	SVGC14	0515A_37	78.0	72.3	0
LCS	R3411824-2	SVGC14	0515A_38	85.0	83.4	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

L1098374-01

SAMPLE NO.:
R3411824-2

LCS Sample / File ID:	R3411824-2 / 0515A_38	**SDG:**	L1098374
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1280965
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	0.00247		98.8		8.00 - 140		
PCB 1016	0.00250	0.00243		97.2		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.:
R3411824-1

Lab Sample ID:	R3411824-1	**SDG:**	L1098374
Lab File ID:	0515A_37	**Preparation Date/Time:**	05/15/19 07:15
Instrument ID:	SVGC14	**Analysis Date/Time:**	05/15/19 18:48
Analytical Batch:	WG1280965	**Dilution Factor:**	1
Analytical Method:	EPA-608.3	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3411824-2	SVGC14	0515A_38	05/15/19 19:01
WW-20190512-002-DAY 10	L1098374-01	SVGC14	0515A_48	05/15/19 21:18

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1098374	**Analytical Method:**	EPA-608.3
Instrument ID:	SVGC14	**Calibration Start Date:**	05/08/19 13:41
Std File:	AVG	**Calibration End Date:**	05/08/19 16:38
		Std Analysis Date:	AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE	
		Response	*RT*
STANDARD		59595036	2.18
UPPER LIMIT		368027000	
LOWER LIMIT		92006750	
BLANK R3411824-1 WG1280965 1x	0515A_37	56847630	2.18
LCS R3411824-2 WG1280965 1x	0515A_38	53416840	2.18
L1098374-01 WG1280965 1x	0515A_48	57607200	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-20190512-002-DAY 10

Lab Sample ID:	L1098374-01	**SDG:**	L1098374
Client Sample ID:	WW-20190512-002-DAY 10	**Collected Date/Time:**	05/12/19 11:30
Lab File ID:	0515A_48	**Received Date/Time:**	05/14/19 08:45
Instrument ID:	SVGC14	**Preparation Date/Time:**	05/15/19 07:16
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 21:18
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 1016	12674-11-2	0	U		0.000100	0.000500	0.000500
PCB 1221	11104-28-2	0	U		0.0000730	0.000500	0.000500
PCB 1232	11141-16-5	0	U		0.0000420	0.000500	0.000500
PCB 1242	53469-21-9	0	U		0.0000470	0.000500	0.000500
PCB 1248	12672-29-6	0	U		0.0000860	0.000500	0.000500
PCB 1254	11097-69-1	0	U		0.0000470	0.000500	0.000500
PCB 1260	11096-82-5	0	U		0.000120	0.000500	0.000500
Total PCBs	1336-36-3	0	U		0.0000420	0.000500	0.000500

6D-OR

RETENTION TIME INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	05/08/19 16:38
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*	*4.44*	*4.43*	*4.43*	*4.43*	*4.43*	*4.43*			
AROCLOR 1016(4)	*4.92*	*4.91*	*4.92*	*4.92*	*4.92*	*4.91*	*4.91*			
AROCLOR 1016(5)	*4.55*	*4.55*	*4.55*	*4.54*	*4.54*	*4.54*	*4.54*			
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*	*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*	*7.78*					
AROCLOR 1221(1)								*2.63*		
AROCLOR 1221(2)								*3.48*		
AROCLOR 1221(3)								*3.62*		
AROCLOR 1221(4)								*3.67*		
AROCLOR 1221(5)								*4.44*		
AROCLOR 1232(1)									*3.67*	
AROCLOR 1232(2)									*4.05*	
AROCLOR 1232(3)									*4.55*	
AROCLOR 1232(4)									*5.02*	
AROCLOR 1232(5)									*5.41*	
AROCLOR 1242(1)										*3.67*
AROCLOR 1242(2)										*4.05*
AROCLOR 1242(3)										*4.54*
AROCLOR 1242(4)										*5.02*
AROCLOR 1242(5)										*5.41*
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:	0508A_10	0508A_09	0508A_08	0508A_07	0508A_06	0508A_05	0508A_04	0508A_11	0508A_12	0508A_13

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	05/08/19 16:38
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)	*4.05*			
AROCLOR 1248(2)	*4.92*			
AROCLOR 1248(3)	*5.24*			
AROCLOR 1248(4)	*5.72*			
AROCLOR 1248(5)	*6.13*			
AROCLOR 1254(1)		*5.23*		
AROCLOR 1254(2)		*5.72*		
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:	0508A_14	0508A_15	0508A_16	0508A_17

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	05/08/19 16:38
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)	*3.57*	*3.57*	*3.57*	*3.57*	*3.57*	*3.57*	*3.57*			
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*	*4.32*	*4.32*			
AROCLOR 1016(4)	*4.76*	*4.76*	*4.76*	*4.76*	*4.76*	*4.76*	*4.76*			
AROCLOR 1016(5)	*4.43*	*4.43*	*4.43*	*4.43*	*4.43*	*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*	*6.32*	*6.33*	*6.32*	*6.33*	*6.32*	*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*	*7.50*			
AROCLOR 1221(1)								*2.56*		
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)									*4.43*	
AROCLOR 1232(4)									*4.76*	
AROCLOR 1232(5)									*5.25*	
AROCLOR 1242(1)										*3.57*
AROCLOR 1242(2)										*3.91*
AROCLOR 1242(3)										*4.43*
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:	0508A_10	0508A_09	0508A_08	0508A_07	0508A_06	0508A_05	0508A_04	0508A_11	0508A_12	0508A_13

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	05/08/19 16:38
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)	*5.18*			
AROCLOR 1248(4)	*5.54*			
AROCLOR 1248(5)	*5.94*			
AROCLOR 1254(1)		*5.05*		
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:	0508A_14	0508A_15	0508A_16	0508A_17

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	05/08/19 16:38
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	0.5440	0.5690	0.5680	0.6080	0.6280	0.6960				
AROCLOR 1016(1)	0.0240	0.0150	0.0150	0.0130	0.0110	0.0110	0.0110			
AROCLOR 1016(2)	0.0610	0.0360	0.0270	0.0270	0.02	0.0180	0.0160			
AROCLOR 1016(3)	0.0850	0.07	0.0540	0.0530	0.0450	0.0420	0.0420			
AROCLOR 1016(4)	0.0170	0.0150	0.0130	0.0130	0.0120	0.0120	0.0110			
AROCLOR 1016(5)	0.0530	0.0530	0.0150	0.0280	0.0210	0.0210	0.0180			
AROCLOR 1260(1)	0.1070	0.10	0.10	0.08	0.0730	0.07	0.0790			
AROCLOR 1260(2)	0.1170	0.11	0.1140	0.0970	0.0860	0.0840	0.0930			
AROCLOR 1260(3)	0.0910	0.0860	0.0830	0.0620	0.0520	0.05	0.0520			
AROCLOR 1260(4)	0.19	0.19	0.1840	0.1690	0.16	0.16	0.2020			
AROCLOR 1260(5)	0.1580	0.13	0.1130	0.1010	0.0930	0.0890	0.1060			
DECACHLOROBIPHENYL	0.9420	1.1090	1.0710	1.3130	1.4530					
AROCLOR 1221(1)								0.0020		
AROCLOR 1221(2)								0.0040		
AROCLOR 1221(3)								0.0040		
AROCLOR 1221(4)								0.0150		
AROCLOR 1221(5)								0.0050		
AROCLOR 1232(1)									0.0120	
AROCLOR 1232(2)									0.0070	
AROCLOR 1232(3)									0.0090	
AROCLOR 1232(4)									0.0260	
AROCLOR 1232(5)									0.0110	
AROCLOR 1242(1)										0.0080
AROCLOR 1242(2)										0.0130
AROCLOR 1242(3)										0.0160
AROCLOR 1242(4)										0.0320
AROCLOR 1242(5)										0.0230
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:	0508A_10	0508A_09	0508A_08	0508A_07	0508A_06	0508A_05	0508A_04	0508A_11	0508A_12	0508A_13

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	05/08/19 16:38
Analytical Method:	EPA-608.3		

Analyte	RRF: 1248	RRF: 1254	RRF: 1262	RRF: 1268	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					0.602114	9.17	
AROCLOR 1016(1)					0.014204	32.08	1
AROCLOR 1016(2)					0.029132	53.29	0.996
AROCLOR 1016(3)					0.055737	28.82	0.998
AROCLOR 1016(4)					0.013371	16.56	0.999
AROCLOR 1016(5)					0.029857	54.43	0.994
AROCLOR 1260(1)					0.087142	17.37	0.997
AROCLOR 1260(2)					0.100075	13.53	
AROCLOR 1260(3)					0.067998	26.68	0.994
AROCLOR 1260(4)					0.179324	9.13	
AROCLOR 1260(5)					0.112926	21.23	0.993
DECACHLOROBIPHENYL					1.177581	17.28	0.995
AROCLOR 1221(1)					0.002104		
AROCLOR 1221(2)					0.004006		
AROCLOR 1221(3)					0.003685		
AROCLOR 1221(4)					0.014507		
AROCLOR 1221(5)					0.004988		
AROCLOR 1232(1)					0.011518		
AROCLOR 1232(2)					0.007353		
AROCLOR 1232(3)					0.008702		
AROCLOR 1232(4)					0.025816		
AROCLOR 1232(5)					0.010616		
AROCLOR 1242(1)					0.008261		
AROCLOR 1242(2)					0.01344		
AROCLOR 1242(3)					0.01571		
AROCLOR 1242(4)					0.031781		
AROCLOR 1242(5)					0.022649		
AROCLOR 1248(1)	0.0070				0.007008		
AROCLOR 1248(2)	0.0160				0.015834		
AROCLOR 1248(3)	0.0290				0.02867		
AROCLOR 1248(4)	0.0160				0.016151		
AROCLOR 1248(5)	0.0130				0.012983		
AROCLOR 1254(1)		0.02			0.020452		
AROCLOR 1254(2)		0.0440			0.043675		
AROCLOR 1254(3)		0.05			0.050409		
AROCLOR 1254(4)		0.0320			0.031785		
AROCLOR 1254(5)		0.06			0.060012		
AROCLOR 1262(1)			0.0540		0.054284		
AROCLOR 1262(2)			0.0930		0.093416		
AROCLOR 1262(3)			0.0630		0.062669		
AROCLOR 1262(4)			0.1750		0.175111		
AROCLOR 1262(5)			0.0610		0.061262		
AROCLOR 1268(1)				0.0430	0.042618		
AROCLOR 1268(2)				0.1830	0.183236		
AROCLOR 1268(3)				0.1360	0.135555		
AROCLOR 1268(4)				0.0560	0.055596		
AROCLOR 1268(5)				0.4630	0.463091		
File ID:	0508A_14	0508A_15	0508A_16	0508A_17			

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	05/08/19 16:38
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	0.5740	0.57	0.5760	0.6030	0.6260	0.6660	0.7070			
AROCLOR 1016(1)	0.0090	0.02	0.0170	0.0160	0.0160	0.0160	0.0160			
AROCLOR 1016(2)	0.0250	0.0260	0.0220	0.0190	0.0180	0.0170	0.0130			
AROCLOR 1016(3)	0.0370	0.0340	0.0330	0.0350	0.0350	0.0360	0.0320			
AROCLOR 1016(4)	0.0330	0.0160	0.0210	0.0160	0.0160	0.0150	0.0130			
AROCLOR 1016(5)	0.0160	0.0180	0.0160	0.0160	0.0160	0.0170	0.0140			
AROCLOR 1260(1)	0.06	0.0480	0.0530	0.05	0.05	0.0510	0.0460			
AROCLOR 1260(2)	0.0690	0.0660	0.0590	0.0580	0.0590	0.06	0.0550			
AROCLOR 1260(3)	0.0550	0.0460	0.0380	0.0370	0.0350	0.0360	0.0330			
AROCLOR 1260(4)	0.1980	0.18	0.1220	0.1340	0.1250	0.1320	0.1270			
AROCLOR 1260(5)	0.1330	0.1040	0.0660	0.0680	0.0560	0.0590	0.0550			
DECACHLOROBIPHENYL	1.06	0.9420	0.9680	0.9430	0.9930	1.1150	1.2130			
AROCLOR 1221(1)								0.0040		
AROCLOR 1221(2)								0.0050		
AROCLOR 1221(3)								0.0030		
AROCLOR 1221(4)								0.0140		
AROCLOR 1221(5)								0.0030		
AROCLOR 1232(1)									0.0110	
AROCLOR 1232(2)									0.0070	
AROCLOR 1232(3)									0.0060	
AROCLOR 1232(4)									0.0060	
AROCLOR 1232(5)									0.0030	
AROCLOR 1242(1)										0.0080
AROCLOR 1242(2)										0.0130
AROCLOR 1242(3)										0.0120
AROCLOR 1242(4)										0.0120
AROCLOR 1242(5)										0.0070
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:	0508A_10	0508A_09	0508A_08	0508A_07	0508A_06	0508A_05	0508A_04	0508A_11	0508A_12	0508A_13

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	05/08/19 16:38
Analytical Method:	EPA-608.3		

Analyte	RRF: 1248	RRF: 1254	RRF: 1262	RRF: 1268	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					0.617416	8.47	
AROCLOR 1016(1)					0.015658	20.51	1
AROCLOR 1016(2)					0.019762	23.27	0.99
AROCLOR 1016(3)					0.034639	5.25	
AROCLOR 1016(4)					0.01873	35.22	0.998
AROCLOR 1016(5)					0.016009	7.38	
AROCLOR 1260(1)					0.051259	8.38	
AROCLOR 1260(2)					0.060767	8.02	
AROCLOR 1260(3)					0.040001	19.08	0.998
AROCLOR 1260(4)					0.145565	20.91	1
AROCLOR 1260(5)					0.077191	38.49	0.998
DECACHLOROBIPHENYL					1.033513	9.82	
AROCLOR 1221(1)					0.003619		
AROCLOR 1221(2)					0.004604		
AROCLOR 1221(3)					0.00344		
AROCLOR 1221(4)					0.013914		
AROCLOR 1221(5)					0.002632		
AROCLOR 1232(1)					0.011403		
AROCLOR 1232(2)					0.007216		
AROCLOR 1232(3)					0.005995		
AROCLOR 1232(4)					0.006488		
AROCLOR 1232(5)					0.002793		
AROCLOR 1242(1)					0.008498		
AROCLOR 1242(2)					0.013143		
AROCLOR 1242(3)					0.011726		
AROCLOR 1242(4)					0.011726		
AROCLOR 1242(5)					0.007012		
AROCLOR 1248(1)	0.0070				0.006512		
AROCLOR 1248(2)	0.0190				0.018935		
AROCLOR 1248(3)	0.0170				0.016889		
AROCLOR 1248(4)	0.0110				0.010557		
AROCLOR 1248(5)	0.0090				0.009018		
AROCLOR 1254(1)		0.0140			0.014127		
AROCLOR 1254(2)		0.0340			0.034309		
AROCLOR 1254(3)		0.0290			0.029083		
AROCLOR 1254(4)		0.0280			0.027653		
AROCLOR 1254(5)		0.0450			0.044915		
AROCLOR 1262(1)			0.0350		0.034984		
AROCLOR 1262(2)			0.0630		0.063491		
AROCLOR 1262(3)			0.0450		0.04484		
AROCLOR 1262(4)			0.1430		0.143297		
AROCLOR 1262(5)			0.0520		0.05202		
AROCLOR 1268(1)				0.0350	0.03539		
AROCLOR 1268(2)				0.1660	0.165526		
AROCLOR 1268(3)				0.13	0.130296		
AROCLOR 1268(4)				0.0540	0.053892		
AROCLOR 1268(5)				0.3960	0.395985		
File ID:	0508A_14	0508A_15	0508A_16	0508A_17			

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	05/08/19 16:38
Lab File ID:	0508A_19-1	**Analysis date/time:**	05/08/19 17:05
Analytical Method:	EPA-608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.1062	106	70 - 130
PCB 1016	0.10	0.09483	94.80	80 - 120
PCB 1260	0.10	0.08514	85.10	80 - 120
TETRACHLORO-M-XYLENE	0.10	0.09583	95.80	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	05/08/19 16:38
Lab File ID:	0508A_19-1	**Analysis date/time:**	05/08/19 17:05
Analytical Method:	EPA-608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.08653	86.50	70 - 130
PCB 1016	0.10	0.1024	102	80 - 120
PCB 1260	0.10	0.1004	100	80 - 120
TETRACHLORO-M-XYLENE	0.10	0.09007	90.10	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 1	**Calibration (end) date/time:**	05/08/19 16:38
Lab File ID:	0515A_35-1	**Analysis date/time:**	05/15/19 18:21
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.09409	94.10	70 - 130
PCB 1016	0.10	0.1055	101	75 - 125
PCB 1260	0.10	0.1092	109	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.1042	104	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1098374	**Calibration (begin) date/time:**	05/08/19 13:41
Instrument ID:	SVGC14 - 2	**Calibration (end) date/time:**	05/08/19 16:38
Lab File ID:	0515A_35-1	**Analysis date/time:**	05/15/19 18:21
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.09291	92.90	70 - 130
PCB 1016	0.10	0.1055	105	75 - 125
PCB 1260	0.10	0.1092	109	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.09817	98.20	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1098374	**Analytical Method:**	EPA-608.3
Instrument ID:	SVGC14	**Calibration Start Date:**	05/08/19 13:41
		Calibration End Date:	05/08/19 16:38

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	500	0508A_04	05/08/19 13:41	1	
CAL	200	0508A_05	05/08/19 13:55	1	
CAL	100	0508A_06	05/08/19 14:08	1	
CAL	50	0508A_07	05/08/19 14:22	1	
CAL	20	0508A_08	05/08/19 14:36	1	
CAL	10	0508A_09	05/08/19 14:49	1	
CAL	5	0508A_10	05/08/19 15:03	1	
CAL	1221	0508A_11	05/08/19 15:16	1	
CAL	1232	0508A_12	05/08/19 15:30	1	
CAL	1242	0508A_13	05/08/19 15:44	1	
CAL	1248	0508A_14	05/08/19 15:57	1	
CAL	1254	0508A_15	05/08/19 16:11	1	
CAL	1262	0508A_16	05/08/19 16:25	1	
CAL	1268	0508A_17	05/08/19 16:38	1	
SSCV	SVGC14050819A0508A_19-1471559	0508A_19-1	05/08/19 17:05	5	
ICV	SVGC14051519A0515A_35-1471559	0515A_35-1	05/15/19 18:21	1	
BLANK	R3411824-1	0515A_37	05/15/19 18:48	1	WG1280965
LCS	R3411824-2	0515A_38	05/15/19 19:01	1	WG1280965
WW-20190512-002-DAY 10	L1098374-01	0515A_48	05/15/19 21:18	1	WG1280965

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3411824-1

Lab Sample ID:	R3411824-1	**SDG:**	L1098374
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0515A_37	**Received Date/Time:**	_____
Instrument ID:	SVGC14	**Preparation Date/Time:**	05/15/19 07:15
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 18:48
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	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.:
R3411824-2

Lab Sample ID:	R3411824-2	**SDG:**	L1098374
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0515A_38	**Received Date/Time:**	_____
Instrument ID:	SVGC14	**Preparation Date/Time:**	05/15/19 07:15
Analytical Batch:	WG1280965	**Analysis Date/Time:**	05/15/19 19:01
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	0.00247		0.0000146	0.0005	0.000500
PCB 1016	12674-11-2	4.1980	0.00243		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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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

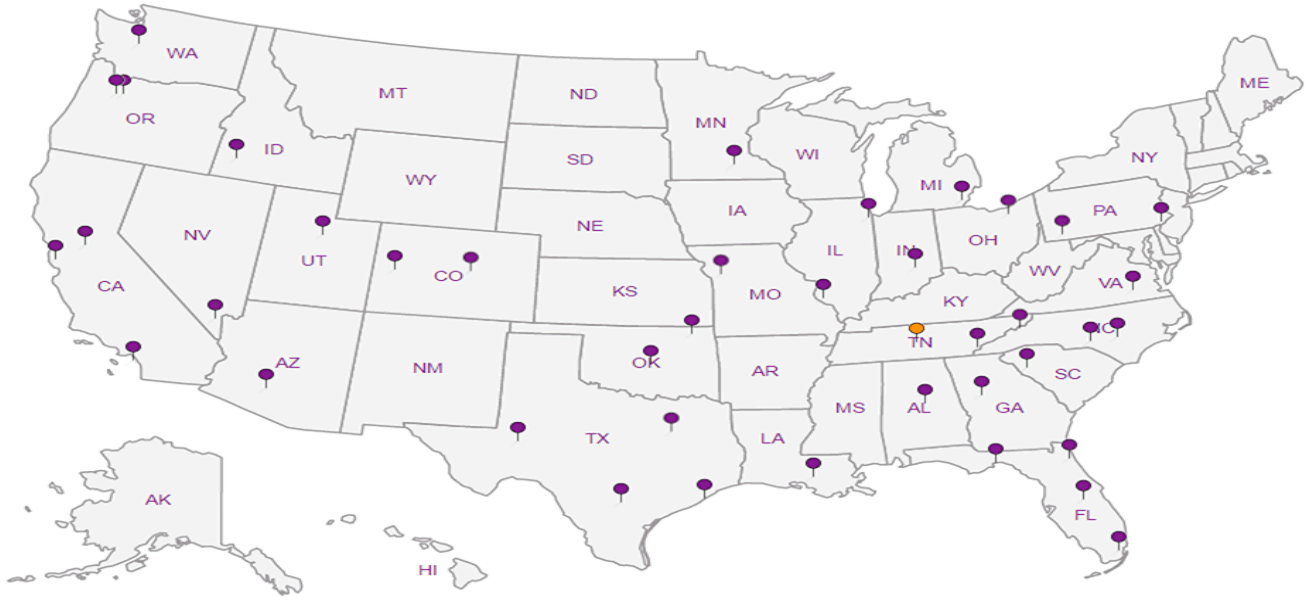
Third Party Federal Accreditations

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): C.Pilg, B.Frizzell

Site/Facility ID #

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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# 1098374

B137

Acctnum: CARDNONDE
Template: T149278
Prelogin: P704877
TSR: 034 - Craig Cothron
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	~~***COD*** 500mlHDPE-NoPres~~ TOTAL MERCURY	***CR6, TDS*** 250mlHDPE-NoPres	8081/8082 100ml Amb-NoPres	8141 100ml Amb NoPres	8270AP9 100ml Amb NoPres	COD, NH3, PT, TKN 250mlHDPE-H2SO4 2	~~COLIFORM Microbiological~~ Ethylene Dibromide 40mL NoPres	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-20190512-002-Day10	Comp	WW		5/12/19	1130	~~15~~ 20 CR	X	X	X	X	X	X	X	X	X	X		01

* 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 #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	Sample Receipt Checklist
	5/13/19	14:55			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 RAD SCREEN: <0.5 mR/hr
Relinquished by: (Signature)	Date: 5/13/19	Time: 19:00	Received by: (Signature)	Temp: A38F °C 2.9+0=2.9 Bottles Received: 36	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/14/19 Time: 0845	Hold: Condition: NCF / OK

Cardno-Newark, DE
121 Continental Dr.
Suite 308
Newark, DE 19713

Billing Information:
Accounts Payable
121 Continental Dr.
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): C. Pilla, R. Frizzell

Site/Facility ID #

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Metals 250mL HDPE-HNO3 <2	0GHEX 1L-Cr-add HCl	PFAS/PFOS-Sub 1L HDPE No Pres	SV8151 1L-Amb-No Pres	SV8290 1L-Amb-No Pres	Sulfide 125mL Amb-S-NaOH+ZnAc	TOC 250mL Amb-HCl	TSS 1L-HDPE-No Pres	Total Cyanide 250mL HDPE NaOH >12	V8260APP9 40mL Amb HCl	Remarks	Sample # (lab only)
WW-20190512-002-Day10	Comp	WW		5/12/19	1130	14	X		X	X	X	X	X	X		X		01
WW-20190512-002-Day10	Grab	WW		5/12/19	1130	2		X							X			02

Chain of Custody Page ___ of ___

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# 1098374
Table # B137
Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

* 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 X 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

RAD SCREEN: <0.5 mR/hr

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	5/13/19	14:55	
Relinquished by: (Signature)	Date: 5/13/19	Time: 19:00	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: A38F °C 2.9±0=2.9
Bottles Received: 36

If preservation required by Login: Date/Time

Date: 5/14/19 Time: 0845

Hold:

Condition: NCF / OK

Matt Shacklock

Importance: High

Pace Analytical®
National Center for Testing & Innovation

Login #:1098374	Client: CARDNONDE	Date:5/14	Evaluated by:Matt S

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	x	Login Clarification Needed		**If Broken Container:**
	Temperature not in range		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	pH not in range.		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Received a 500ml CLR glass, that says HYDROCHLORIC ACID. Please clarify

Client informed by:		Call		Email		Voice Mail		Date:	Time:
TSR Initials:	Client Contact:								

Login Instructions: