ANALYTICAL REPORT

May 24, 2019

Cardno - Newark, DE

Sample Delivery Group:	L1092757
Samples Received:	04/26/2019
Project Number:	
Description:	
Site:	002 OUTFALL
Report To:	Art Saunders 121 Continental Drive Suite 308 Newark, DE 19713

Entire Report Reviewed By:

[Preliminary Report]

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.

90016239

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VOCMS6 04/10/19 22:45 408
VOCMS6 04/28/19 08:56 410
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WG1273971 LCS(R3407174-1) LCSD(R3407174-2) 424
Method Blank 425
WG1273971 R3407174-3 BNAMS23 05/01/19 11:58 425
WG1273971 R3406931-1 BNAMS26 05/01/19 02:10 426
WG1273971 R3406931-8 BNAMS26 05/01/19 16:42 427
GC/MS Performance Check 428
BNAMS23 041619 04/16/19 10:10 428

BNAMS23 050119 05/01/19 09:51 429
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BNAMS26 043019A 04/30/19 23:26 432
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BNAMS23 05/01/19 10:12 434
BNAMS26 04/30/19 23:47 436
BNAMS26 05/01/19 15:40 438
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L1092757-01 05/01/19 12:40 BNAMS23 440
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L1092757-01 05/01/19 17:23 BNAMS26 443
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BNAMS23 04/16/19 10:31 444
BNAMS26 04/22/19 11:52 450
BNAMS26 03/19/19 09:38 456
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BNAMS23 04/16/19 16:53 458
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BNAMS26 05/01/19 15:40 472
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BLANK(R3406931-1) WG1273971 05/01/19 02:10 BNAMS26 474
BLANK(R3406931-8) WG1273971 05/01/19 16:42 BNAMS26 476
BLANK(R3407174-3) WG1273971 05/01/19 11:58 BNAMS23 477
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LCS(R3406931-5) WG1273971 05/01/19 16:21 BNAMS26 480
LCS(R3407174-1) WG1273971 05/01/19 11:16 BNAMS23 481
LCSD(R3406931-4) WG1273971 05/01/19 03:31 BNAMS26 482
LCSD(R3407174-2) WG1273971 05/01/19 11:37 BNAMS23 484
MS(R3406931-6) WG1273971 05/01/19 10:39 BNAMS26 485

MSD(R3406931-7) WG1273971 05/01/19 11:00 BNAMS26 487

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Surrogate Recovery 490

WW Surrogate Summary 490

Laboratory Control Sample / Duplicate 491

WG1273140 LCS(R3406633-2) LCSD(R3406633-3) 491

Method Blank 492

WG1273140 R3406633-1 SVGC10 04/29/19 18:28 492

Sample Result Summary Organic Analysis Data Sheet 493

L1092757-01 05/01/19 02:35 SVGC10 493

Retention Time of Single Component Analytes 494

SVGC10 01/15/19 00:04 494

Calibration Factor of Single Component Analytes 495

SVGC10 01/15/19 00:04 495

Calibration Verification Single Component Analytes 496

SVGC10 01/15/19 01:34 496

SVGC10 04/29/19 17:35 497

SVGC10 04/29/19 20:33 498

SVGC10 04/30/19 23:01 499

SVGC10 05/01/19 00:30 500

SVGC10 05/01/19 04:22 501

Analytical Sequence 502

SVGC10 01/15/19 00:04 502

QC Result Summary Organic Analysis Data Sheet 503

BLANK(R3406633-1) WG1273140 04/29/19 18:28 SVGC10 503

LCS(R3406633-2) WG1273140 04/29/19 19:22 SVGC10 504

LCSD(R3406633-3) WG1273140 04/29/19 19:39 SVGC10 505

8141 OP Pesticides 507

Surrogate Recovery 507

WW Surrogate Summary 507

Matrix Spike / Duplicate 508

WG1273119 MS(R3408468-1) MSD(R3408468-2) 508

Laboratory Control Sample / Duplicate 509

WG1273119 LCS(R3406638-2) LCSD(R3406638-3) 509

Method Blank 510

WG1273119 R3406638-1 SVGC12 04/29/19 05:08 510

Internal Standard & Retention Time 511

SVGC12 AVG 511

Sample Result Summary Organic Analysis Data Sheet 512

L1092757-01 04/29/19 10:34 SVGC12 512

Retention Time of Single Component Analytes 513
SVGC12-1 04/08/19 15:02 513
SVGC12-2 04/08/19 15:02 514
SVGC12-1 04/30/19 13:32 515
SVGC12-2 04/30/19 13:32 516
Calibration Factor of Single Component Analytes 517
SVGC12-1 04/08/19 15:02 517
SVGC12-2 04/08/19 15:02 519
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SVGC12-2 04/29/19 04:05 528
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Single Component Analysis Identification 535
BLANK(R3406638-1) WG1273119 04/29/19 05:08 SVGC12 535
LCS(R3406638-2) WG1273119 04/29/19 07:15 SVGC12 536
LCSD(R3406638-3) WG1273119 04/29/19 07:47 SVGC12 537
MS(R3408468-1) WG1273119 05/03/19 22:23 SVGC12 538
MSD(R3408468-2) WG1273119 05/03/19 22:55 SVGC12 539
QC Result Summary Organic Analysis Data Sheet 540
BLANK(R3406638-1) WG1273119 04/29/19 05:08 SVGC12 540
LCS(R3406638-2) WG1273119 04/29/19 07:15 SVGC12 541
LCSD(R3406638-3) WG1273119 04/29/19 07:47 SVGC12 542
MS(R3408468-1) WG1273119 05/03/19 22:23 SVGC12 543
MSD(R3408468-2) WG1273119 05/03/19 22:55 SVGC12 544
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GW Surrogate Summary 546
Laboratory Control Sample / Duplicate 547
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Method Blank 548

WG1273615 R3407361-1 SVGC11 05/01/19 19:21 548

Sample Result Summary Organic Analysis Data Sheet 549

L1092757-03 05/01/19 20:31 SVGC11 549

Retention Time of Single Component Analytes 550

SVGC11-1 04/23/19 13:19 550

SVGC11-2 04/23/19 13:19 551

Calibration Factor of Single Component Analytes 552

SVGC11-1 04/23/19 13:19 552

SVGC11-2 04/23/19 13:19 554

Calibration Verification of Dual Column Analytes 556

SVGC11-1 04/23/19 15:02 556

SVGC11-2 04/23/19 15:02 557

SVGC11-1 05/01/19 17:15 558

SVGC11-2 05/01/19 17:15 559

SVGC11-1 05/01/19 21:38 560

SVGC11-2 05/01/19 21:38 561

Analytical Sequence 562

SVGC11 04/23/19 13:19 562

Single Component Analysis Identification 563

BLANK(R3407361-1) WG1273615 05/01/19 19:21 SVGC11 563

LCS(R3407361-2) WG1273615 05/01/19 19:35 SVGC11 564

LCSD(R3407361-3) WG1273615 05/01/19 19:49 SVGC11 565

QC Result Summary Organic Analysis Data Sheet 566

BLANK(R3407361-1) WG1273615 05/01/19 19:21 SVGC11 566

LCS(R3407361-2) WG1273615 05/01/19 19:35 SVGC11 567

LCSD(R3407361-3) WG1273615 05/01/19 19:49 SVGC11 568

Calc. Calculated Results 570

Sample Result Inorganic Analysis Data Sheet 570

L1092757-01 05/01/19 09:05 NONE 570

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Surrogate Recovery 572

WW Surrogate Summary 572

GW Surrogate Summary 573

Laboratory Control Sample / Duplicate 574

WG1273505 LCS(R3407083-1) LCSD(R3407083-2) 574

Method Blank 575

WG1273505 R3407083-3 SVGC24 05/01/19 09:18 575

Internal Standard & Retention Time 576

SVGC24 AVG 576

Sample Result Summary Organic Analysis Data Sheet 577

L1092757-01 05/01/19 12:00 SVGC24 577

Retention Time of Single Component Analytes 578

SVGC24-1 04/16/19 11:05 578

SVGC24-2 04/16/19 11:05 580

Calibration Factor of Single Component Analytes 582

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SVGC24-2 04/16/19 13:18 590

SVGC24-1 05/01/19 07:49 591

SVGC24-2 05/01/19 07:49 592

SVGC24-1 05/01/19 08:04 593

SVGC24-2 05/01/19 08:04 594

SVGC24-1 05/01/19 08:19 595

SVGC24-2 05/01/19 08:19 596

Analytical Sequence 597

SVGC24 04/16/19 11:05 597

Single Component Analysis Identification 598

BLANK(R3407083-3) WG1273505 05/01/19 09:18 SVGC24 598

LCS(R3407083-1) WG1273505 05/01/19 08:48 SVGC24 599

LCSD(R3407083-2) WG1273505 05/01/19 09:03 SVGC24 600

QC Result Summary Organic Analysis Data Sheet 601

BLANK(R3407083-3) WG1273505 05/01/19 09:18 SVGC24 601

LCS(R3407083-1) WG1273505 05/01/19 08:48 SVGC24 602

LCSD(R3407083-2) WG1273505 05/01/19 09:03 SVGC24 603

EPA-608.3 Polychlorinated Biphenyls (GC) 605

Surrogate Recovery 605

WW Surrogate Summary 605

GW Surrogate Summary 606

Laboratory Control Sample / Duplicate 607

WG1273505 LCS(R3407002-2) LCSD(R3407002-3) 607

Method Blank 608

WG1273505 R3407002-1 SVGC20 05/01/19 09:50 608

Internal Standard & Retention Time 609

SVGC20 AVG 609

Sample Result Summary Organic Analysis Data Sheet 610

L1092757-01 05/01/19 11:00 SVGC20 610

Retention Time of Multicomponent Analytes 611
SVGC20-1 04/13/19 12:33 611
SVGC20-2 04/13/19 12:33 613
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SVGC20-1 04/13/19 12:33 615
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Analytical Sequence 623
SVGC20 04/13/19 12:33 623
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BLANK(R3407002-1) WG1273505 05/01/19 09:50 SVGC20 624
LCS(R3407002-2) WG1273505 05/01/19 10:04 SVGC20 625
LCSD(R3407002-3) WG1273505 05/01/19 10:18 SVGC20 626
QC Result Summary Organic Analysis Data Sheet 627
BLANK(R3407002-1) WG1273505 05/01/19 09:50 SVGC20 627
LCS(R3407002-2) WG1273505 05/01/19 10:04 SVGC20 628
LCSD(R3407002-3) WG1273505 05/01/19 10:18 SVGC20 629
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Al: Accreditations & Locations 631
Sc: Sample Chain of Custody 632

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

WW-20190424-002-DAY 1 L1092757-01 WW

Collected by: Stephanie Healey | Collected date/time: 04/24/19 12:28 | Received date/time: 04/26/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1274236	1	05/01/19 09:05	05/01/19 09:05	BRJ	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG1273247	1	04/29/19 16:17	04/29/19 17:16	TH	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG1273251	1	04/29/19 13:30	04/29/19 14:21	TH	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1274213	10	05/01/19 10:37	05/01/19 10:37	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1274236	1	05/01/19 09:05	05/01/19 09:05	BRJ	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG1273665	1	04/30/19 12:00	04/30/19 16:56	SDL	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG1274005	1	04/30/19 12:00	04/30/19 16:42	SDL	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG1273673	1	04/30/19 10:30	04/30/19 14:03	BAM	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1273657	1	04/30/19 16:30	04/30/19 16:30	MJA	Mt. Juliet, TN
Wet Chemistry by Method 5310 B-2011	WG1272254	1	04/26/19 12:55	04/26/19 12:55	NJM	Mt. Juliet, TN
Mercury by Method 245.1	WG1273361	1	04/29/19 13:05	04/29/19 21:50	TCT	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1273362	1	04/29/19 10:58	04/30/19 12:03	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1273362	1	04/29/19 10:58	04/30/19 23:01	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1273097	1	04/28/19 17:42	04/28/19 17:42	JAH	Mt. Juliet, TN
EDB / DBCP by Method 504.1	WG1273265	1	04/29/19 09:52	04/30/19 20:22	HMH	Mt. Juliet, TN
SVOC-GC-GLYCOLS by Method 8015M	WG1273140	100	04/28/19 16:26	05/01/19 02:35	MTJ	Mt. Juliet, TN
OP Pesticides by Method 8141	WG1273119	1	04/28/19 17:30	04/29/19 10:34	HMH	Mt. Juliet, TN
Pesticides (GC) by Method EPA 608.3	WG1273505	1	04/30/19 20:38	05/01/19 12:00	LEL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG1273505	1	04/30/19 20:38	05/01/19 11:00	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1273971	1.05	04/30/19 17:17	05/01/19 04:53	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1273971	1.05	04/30/19 17:17	05/01/19 12:40	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1273971	1.05	04/30/19 17:17	05/01/19 17:23	AO	Mt. Juliet, TN

WW-20190424-002-DAY 1 L1092757-02 WW

Collected by: Stephanie Healey | Collected date/time: 04/24/19 12:28 | Received date/time: 04/26/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 1664A	WG1274230	1	05/01/19 06:31	05/01/19 11:47	DAD	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1273663	1	05/01/19 08:40	05/01/19 12:52	JER	Mt. Juliet, TN

WW-20190424-002-DAY 1 L1092757-03 GW

Collected by: Stephanie Healey | Collected date/time: 04/24/19 12:28 | Received date/time: 04/26/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Chlorinated Acid Herbicides (GC) by Method 8151	WG1273615	1	04/30/19 10:50	05/01/19 20:31	RP	Mt. Juliet, TN

A L1092757-04 WW

Collected by: Stephanie Healey | Collected date/time: 04/24/19 12:28 | Received date/time: 04/26/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1278315	1	05/08/19 22:55	05/08/19 22:55	JHH	Mt. Juliet, TN

B L1092757-05 WW

Collected by: Stephanie Healey | Collected date/time: 04/24/19 12:28 | Received date/time: 04/26/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1278315	1	05/08/19 23:15	05/08/19 23:15	JHH	Mt. Juliet, TN

C L1092757-06 WW

Collected by: Stephanie Healey | Collected date/time: 04/24/19 12:28 | Received date/time: 04/26/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1278315	1	05/08/19 23:36	05/08/19 23:36	JHH	Mt. Juliet, TN

A L1092757-07 GW

Collected by: Stephanie Healey | Collected date/time: 04/24/19 12:28 | Received date/time: 04/26/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
EDB / DBCP by Method 504.1	WG1278415	1	05/09/19 09:11	05/09/19 21:12	HMH	Mt. Juliet, TN

B L1092757-08 GW

Collected by: Stephanie Healey | Collected date/time: 04/24/19 12:28 | Received date/time: 04/26/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
EDB / DBCP by Method 504.1	WG1278415	1	05/09/19 09:11	05/09/19 21:24	HMH	Mt. Juliet, TN

C L1092757-09 GW

Collected by: Stephanie Healey | Collected date/time: 04/24/19 12:28 | Received date/time: 04/26/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
EDB / DBCP by Method 504.1	WG1278415	1	05/09/19 09:11	05/09/19 21:37	HMH	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.

[Preliminary Report]

Craig Cothron
Project Manager

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.

[Preliminary Report]

Craig Cothron
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 05/24/2019 07:05
Project Name:	Laboratory Job Number: L1092757-01, 02, 03, 04, 05, 06, 07, 08 and 09
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1272321, WG1272254, WG1273097, WG1273361, WG1273251, WG1273140, WG1273119, WG1273362, WG1273247, WG1273673, WG1273265, WG1273657, WG1274005, WG1273665, WG1273971, WG1274236, WG1273505, WG1274213, WG1273663, WG1274230, WG1273615, WG1278315, WG1278415, WG1271874, WG1272113, WG1272451, WG1272838 and WG1273430

#[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			1
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			2
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			3
		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			4
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			5
		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				
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				

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 05/24/2019 07:05
Project Name:	Laboratory Job Number: L1092757-01, 02, 03, 04, 05, 06, 07, 08 and 09
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1272321, WG1272254, WG1273097, WG1273361, WG1273251, WG1273140, WG1273119, WG1273362, WG1273247, WG1273673, WG1273265, WG1273657, WG1274005, WG1273665, WG1273971, WG1274236, WG1273505, WG1274213, WG1273663, WG1274230, WG1273615, WG1278315, WG1278415, WG1271874, WG1272113, WG1272451, WG1272838 and WG1273430

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]

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: 05/24/2019 07:05
Project Name:	Laboratory Job Number: L1092757-01, 02, 03, 04, 05, 06, 07, 08 and 09
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1272321, WG1272254, WG1273097, WG1273361, WG1273251, WG1273140, WG1273119, WG1273362, WG1273247, WG1273673, WG1273265, WG1273657, WG1274005, WG1273665, WG1273971, WG1274236, WG1273505, WG1274213, WG1273663, WG1274230, WG1273615, WG1278315, WG1278415, WG1271874, WG1272113, WG1272451, WG1272838 and WG1273430

#[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.
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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: 05/24/2019 07:05
Project Name:	Laboratory Job Number: L1092757-01, 02, 03, 04, 05, 06, 07, 08 and 09
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1272321, WG1272254, WG1273097, WG1273361, WG1273251, WG1273140, WG1273119, WG1273362, WG1273247, WG1273673, WG1273265, WG1273657, WG1274005, WG1273665, WG1273971, WG1274236, WG1273505, WG1274213, WG1273663, WG1274230, WG1273615, WG1278315, WG1278415, WG1271874, WG1272113, WG1272451, WG1272838 and WG1273430

ER #[1]	Description
1	504.1 WG1278415 L1092757-07, 08 and 09: Prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
2	8015M WG1273140 1,3-Propanediol L1092757-01: Percent Recovery is outside of established control limits.
3	625.1 WG1273971 Benzoic Acid, Hexachlorophene: Percent Recovery is outside of established control limits.
4	625.1 WG1273971 Benzidine, Aniline: Relative Percent Difference is outside of established control limits.
5	350.1 WG1273657 Sulfide: Percent Recovery is outside of established control limits. 350.1 WG1274236 Ammonia Nitrogen: Percent Recovery is outside of established control limits. 351.2 WG1273663 Cyanide: Percent Recovery is outside of established control limits. 351.2 WG1273665 Kjeldahl Nitrogen, TKN: Percent Recovery is outside of established control limits. 351.2 WG1274005 Phosphorus,Total: Percent Recovery 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).

1664A Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-02	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/01/19 06:31
Analytical Batch:	WG1274230	**Analysis Date/Time:**	05/01/19 11:47
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	900 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		1.29	5.56	5.56

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407098-1

Lab Sample ID:	R3407098-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/01/19 06:30
Analytical Batch:	WG1274230	**Analysis Date/Time:**	05/01/19 11:47
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.:
R3407098-2

Lab Sample ID:	R3407098-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	04	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/01/19 06:30
Analytical Batch:	WG1274230	**Analysis Date/Time:**	05/01/19 11:47
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)		38.7		1.16	5	5.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407098-3

Lab Sample ID:	R3407098-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	05	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/01/19 06:30
Analytical Batch:	WG1274230	**Analysis Date/Time:**	05/01/19 11:47
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)		38.7		1.16	5	5.00

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	_____
Instrument ID:	OGBAL1	**Calibration (end) date/time:**	_____
Analytical Method:	1664A	**Analytical Run:**	WG1274230

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

L1092757-02

SAMPLE NO.:
R3407098-2
R3407098-3

LCS Sample / File ID:	R3407098-2 / 04	**SDG:**	L1092757
LCSD Sample / File ID:	R3407098-3 / 05	**Analytical Batch:**	WG1274230
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	38.7	38.7	96.8	96.8	78.0 - 114	0.000	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:	L1092757	**Analytical Method:**	1664A
Instrument ID:	OGBAL1	**Calibration Start Date:**	_____
Analytical Run:	WG1274230	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3407098-1	01	05/01/19 11:47	1	WG1274230
LCS	R3407098-2	04	05/01/19 11:47	1	WG1274230
LCSD	R3407098-3	05	05/01/19 11:47	1	WG1274230
WW-20190424-002-DAY 1	L1092757-02	20	05/01/19 11:47	1	WG1274230

200.8 Metals (ICPMS)

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430230118	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	ICPMS8	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 23:01
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	0.0135		0.000754	0.00200	0.00200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430120349	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	ICPMS9	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 12:03
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*
Arsenic	7440-38-2	0.0158		0.000170	0.00100	0.00100
Cadmium	7440-43-9	U		0.000220	0.00100	0.00100
Chromium	7440-47-3	0.000976	J	0.000320	0.00100	0.00100
Cobalt	7440-48-4	U		0.000270	0.00200	0.00200
Copper	7440-50-8	0.00388		0.000270	0.00100	0.00100
Lead	7439-92-1	U		0.000260	0.00100	0.00100
Nickel	7440-02-0	0.00376		0.000320	0.00100	0.00100
Selenium	7782-49-2	0.00101	J	0.000320	0.00200	0.00200
Silver	7440-22-4	U		0.000180	0.00100	0.00100
Thallium	7440-28-0	U		0.000280	0.00100	0.00100
Tin	7440-31-5	U		0.000240	0.00100	0.00100
Zinc	7440-66-6	0.0126		0.00191	0.0100	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406646-1

Lab Sample ID:	R3406646-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190430111420	**Received Date/Time:**	_____
Instrument ID:	ICPMS9	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 11:14
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*
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.:
R3406855-1

Lab Sample ID:	R3406855-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190430222356	**Received Date/Time:**	_____
Instrument ID:	ICPMS8	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 22:23
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	U		0.000754	0.0020	0.00200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406646-2

Lab Sample ID:	R3406646-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190430111900	**Received Date/Time:**	_____
Instrument ID:	ICPMS9	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 11:19
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*
Arsenic	7440-38-2	0.0480		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0532		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0479		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0481		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0487		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0518		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0482		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0520		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0508		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0511		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0506		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0470		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406855-2

Lab Sample ID:	R3406855-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190430222917	**Received Date/Time:**	_____
Instrument ID:	ICPMS8	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 22:29
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	0.0568		0.000754	0.0020	0.00200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406646-3

Lab Sample ID:	R3406646-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	20190430112339	**Received Date/Time:**	_____
Instrument ID:	ICPMS9	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 11:23
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Arsenic	7440-38-2	0.0464		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0530		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0477		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0478		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0484		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0511		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0475		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0509		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0509		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0508		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0495		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0465		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406855-3

Lab Sample ID:	R3406855-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	20190430223437	**Received Date/Time:**	_____
Instrument ID:	ICPMS8	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 22:34
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	0.0571		0.000754	0.0020	0.00200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406646-5

Lab Sample ID:	R3406646-5	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/23/19 08:00
Lab File ID:	20190430113738	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	ICPMS9	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 11:37
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*
Arsenic	7440-38-2	0.0454		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0547		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0453		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0442		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0461		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0537		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0521		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0697		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0515		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0525		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0522		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0818		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406855-5

Lab Sample ID:	R3406855-5	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/23/19 08:00
Lab File ID:	20190430225038	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	ICPMS8	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 22:50
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	0.0596		0.000754	0.0020	0.00200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406646-7

Lab Sample ID:	R3406646-7	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/23/19 08:00
Lab File ID:	20190430123205	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	ICPMS9	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 12:32
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*
Arsenic	7440-38-2	0.0452		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0528		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0442		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0430		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0433		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0498		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0506		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0659		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0509		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0494		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0493		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0813		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406855-6

Lab Sample ID:	R3406855-6	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/23/19 08:00
Lab File ID:	20190430225558	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	ICPMS8	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 22:55
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0590		0.000754	0.0020	0.00200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406646-4

Lab Sample ID:	R3406646-4	**SDG:**	L1092757
Client Sample ID:	SD	**Collected Date/Time:**	04/23/19 08:00
Lab File ID:	20190430113258	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	ICPMS9	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 11:32
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*
Arsenic	7440-38-2	0.00204		0.000850	0.0010	0.00500
Cadmium	7440-43-9	0.00177		0.00110	0.0010	0.00500
Chromium	7440-47-3	0.00224		0.00160	0.0010	0.00500
Cobalt	7440-48-4	0.00173		0.00135	0.0020	0.0100
Copper	7440-50-8	0.00254		0.00135	0.0010	0.00500
Lead	7439-92-1	0.00142		0.00130	0.0010	0.00500
Nickel	7440-02-0	0.0101		0.00160	0.0010	0.00500
Selenium	7782-49-2	0.0138		0.00160	0.0020	0.0100
Silver	7440-22-4	ND		0.000900	0.0010	0.00500
Thallium	7440-28-0	ND		0.00140	0.0010	0.00500
Tin	7440-31-5	ND		0.00120	0.0010	0.00500
Zinc	7440-66-6	0.0426		0.00955	0.01	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406855-4

Lab Sample ID:	R3406855-4	**SDG:**	L1092757
Client Sample ID:	SD	**Collected Date/Time:**	04/23/19 08:00
Lab File ID:	20190430224517	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	ICPMS8	**Preparation Date/Time:**	04/29/19 10:58
Analytical Batch:	WG1273362	**Analysis Date/Time:**	04/30/19 22:45
Dilution Factor:	5	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	ND		0.00377	0.0020	0.0100

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8
Concentration Units:	mg/l		

	ICV				**ICVLL**				**CCV**			
Sample ID:	ICPMS80430191712				ICPMS80430191748				ICPMS80430192120			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ANTIMONY	0.10	0.09075709	90.80	2.590000	0.0010	0.001077314	108	23.600000	0.10	0.09711813	97.10	2.460000

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8
Concentration Units:	mg/l		

CCV

Sample ID: ICPMS80430192320

Analyte	True	Found	%R	%RSD
ANTIMONY	0.10	0.09845605	98.50	2.710000

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9
Concentration Units:	mg/l		

	ICV				**CCV**				**ICVLL**			
Sample ID:	ICPMS90430190957				ICPMS90430191028				ICPMS90430191050			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	0.10	0.1012323	101	3.650000	0.10	0.1000275	100	3.430000	0.0010	0.000978851	97.90	18.400000
CADMIUM	0.10	0.09963504	99.60	2.230000	0.10	0.09943559	99.40	1.080000	0.0010	0.001082325	108	3.610000
CHROMIUM	0.10	0.1003188	100	2.200000	0.10	0.1013281	101	4.410000	0.0010	0.000973275	97.30	9.640000
COBALT	0.10	0.1018947	102	2.650000	0.10	0.1007525	101	3.910000	0.0010	0.001068059	107	8.430000
COPPER	0.10	0.1004077	100	0.460000	0.10	0.1006047	101	0.400000	0.0010	0.001011749	101	2.900000
LEAD	0.10	0.1020106	102	2.110000	0.10	0.09824122	98.20	2.110000	0.0010	0.000988603	98.90	1.990000
NICKEL	0.10	0.1021276	102	3.020000	0.10	0.1015287	102	3.660000	0.0010	0.001107657	111	11.800000
SELENIUM	0.10	0.1002351	100	1.850000	0.10	0.09798708	98	2.600000	0.0010	0.000793415	79.30	42.400000
SILVER	0.10	0.1001905	100	1.210000	0.10	0.09823301	98.20	0.180000	0.0010	0.000962108	96.20	2.140000
THALLIUM	0.10	0.1019755	102	2.330000	0.10	0.09752189	97.50	2.340000	0.0010	0.000954483	95.40	3.720000
TIN	0.10	0.09885435	98.90	1.010000	0.10	0.09613965	96.10	3.640000	0.0010	0.001018735	102	13.100000
ZINC	0.10	0.1010262	101	3.170000	0.10	0.1012702	101	2.470000	0.01	0.01010152	101	4.790000

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9
Concentration Units:	mg/l		

	CCV				**CCV**				**CCVLL**			
Sample ID:	ICPMS90430191146				ICPMS90430191244				ICPMS90430191300			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	0.10	0.09928265	99.30	1.960000	0.10	0.101371	101	1.500000	0.0010	0.001040955	104	7.270000
CADMIUM	0.10	0.1021864	102	0.340000	0.10	0.1005245	101	0.220000	0.0010	0.000942034	94.20	6.740000
CHROMIUM	0.10	0.09921167	99.20	2.080000	0.10	0.1023906	102	1.990000	0.0010	0.000918582	91.90	13.800000
COBALT	0.10	0.0996517	99.70	2.150000	0.10	0.1019449	102	3.200000	0.0010	0.000987561	98.80	5.220000
COPPER	0.10	0.09822416	98.20	0.610000	0.10	0.09941825	99.40	0.410000	0.0010	0.001018595	102	1.960000
LEAD	0.10	0.09910125	99.10	1.310000	0.10	0.1000394	100	1.580000	0.0010	0.001005221	101	4.490000
NICKEL	0.10	0.1002168	100	2.450000	0.10	0.1020075	102	2.750000	0.0010	0.000964299	96.40	10.800000
SELENIUM	0.10	0.1012994	101	1.450000	0.10	0.103921	104	3.780000	0.0010	0.000924169	92.40	39.000000
SILVER	0.10	0.0983587	98.40	1.010000	0.10	0.09782211	97.80	0.970000	0.0010	0.000962046	96.20	8.010000
THALLIUM	0.10	0.09925487	99.30	0.930000	0.10	0.09959091	99.60	1.770000	0.0010	0.000982518	98.30	1.980000
TIN	0.10	0.09606018	96.10	0.910000	0.10	0.09714781	97.10	1.080000	0.0010	0.001059685	106	21.100000
ZINC	0.10	0.1012491	101	2.230000	0.10	0.1022657	102	4.450000	0.01	0.0103926	104	4.580000

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

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20190430172411		20190430212544		20190430222356		20190430232542	
Analyte	mg/l		mg/l		mg/l		mg/l	
ANTIMONY	0.000460065	U	0.000147836	U	U		0.000293901	U

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20190430102355		20190430104614		20190430111420		20190430115139	
Analyte	mg/l		mg/l		mg/l		mg/l	
ARSENIC	0.000033239	U	0.000005031	U	U		0.000030105	U
CADMIUM	0.00002599	U	0.000025495	U	U		0.00006097	U
CHROMIUM	0.000038841	U	-0.000047852	U	U		-0.000006279	U
COBALT	-0.000005639	U	0.000006767	U	U		0.000028242	U
COPPER	-0.000030926	U	0.000050288	U	U		0.000090084	U
LEAD	0.000002920	U	-0.000016457	U	U		0.000003271	U
NICKEL	-0.000016002	U	0.000011253	U	U		0.000109198	U
SELENIUM	-0.000241076	U	-0.000209899	U	U		-0.000213426	U
SILVER	0.0000009410	U	0.000006958	U	U		0.000026314	U
THALLIUM	0.000006178	U	0.000010018	U	U		0.000077031	U
TIN	0.000041792	U	-0.000010577	U	U		0.00003046	U
ZINC	-0.00006379	U	-0.001343678	U	U		-0.001225669	U

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20190430124936	
Analyte	mg/l	
ARSENIC	0.000008302	U
CADMIUM	0.000031938	U
CHROMIUM	-0.000003993	U
COBALT	0.000004897	U
COPPER	0.000060682	U
LEAD	-0.000012549	U
NICKEL	0.000033637	U
SELENIUM	-0.00021254	U
SILVER	0.000013942	U
THALLIUM	0.000042185	U
TIN	0.000077673	U
ZINC	-0.001413981	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS8	**Date:**	04/30/19 17:53
Instrument Run:	043019ICPMS8		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	102.9794	103	100	101.1174	101
ANTIMONY	0	0.000060551		0.02	0.0237731	119
ARSENIC	0	0.000025717		0.02	0.01917522	95.90
BARIUM	0	0.000186709		0.02	0.01961574	98.10
BERYLLIUM	0	0.000003270		0.02	0.01924481	96.20
BISMUTH (NO HE)		1316031	94.50		1314686	94.40
BORON	0	0.003815993		0.02	0.02087926	104
CADMIUM	0	0.000122001		0.02	0.02017317	101
CALCIUM	100	97.78169	97.80	100	95.9979	96
CHROMIUM	0	0.000399541		0.02	0.02009131	100
COBALT	0	0.000334096		0.02	0.02029817	101
COPPER	0	0.001298001		0.02	0.02067284	103
GERMANIUM		2359.72	98.50		2349.057	98
GERMANIUM (NO HE)		47975.5	98.90		47439.93	97.80
IRON	100	99.96088	100	100	97.22258	97.20
LEAD	0	0.000124337		0.02	0.01965373	98.30
LITHIUM	0	0.000487737		0	0.000607407	
MAGNESIUM	100	105.6189	106	100	100.9277	101
MANGANESE	0	0.000657807		0.02	0.01998623	99.90
MERCURY	0	0.006994032		0	0.01326495	
MOLYBDENUM	2	2.109854	105	2	2.094159	105
NICKEL	0	0.000441641		0.02	0.01972472	98.60
POTASSIUM	100	102.9345	103	100	101.0416	101
RHODIUM		97925.44	95.40		96946.63	94.50
SCANDIUM		23766.85	97.90		23824.27	98.10
SCANDIUM (NO HE)		1874077	104		1806888	100
SELENIUM	0	0.000022375		0.02	0.02035547	102
SILVER	0	0.000022349		0.02	0.01996268	99.80
SODIUM	100	98.8904	98.90	100	95.72797	95.70
STRONTIUM	0	0.000968338		0.02	0.02059301	103
TELLURIUM		5930.613	94.80		5887.267	94.10
TELLURIUM (HIGH HE)		40925.06	101		38357.35	94.50
TELLURIUM (NO HE)		192127.2	96.30		190952.7	95.70
THALLIUM	0	0.000006237		0.02	0.01982328	99.10
THORIUM	0	0.000074225		0.02	0.01886309	94.30
TIN	0	0.000300716		0.02	0.02104147	105
TITANIUM	2	2.059699	103	2	1.991959	99.60
URANIUM	0	0.000004191		0.02	0.01925938	96.30
VANADIUM	0	0.000033017		0.02	0.02001045	100
ZINC	0	0.000808131		0.02	0.02095813	105

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

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS8	**Date:**	04/30/19 21:31
Instrument Run:	043019ICPMS8		

Analyte	**True**	**Found**		**True**	**Found**	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	102.9841	103	100	99.27098	99.30
ANTIMONY	0	0.000145681		0.02	0.02278835	114
ARSENIC	0	0.000060358		0.02	0.01939926	97
BARIUM	0	0.000255484		0.02	0.01987296	99.40
BERYLLIUM	0	0.000021221		0.02	0.01902989	95.10
BISMUTH (NO HE)		1343839	96.50		1299143	93.30
BORON	0	0.009386216		0.02	0.02153269	108
CADMIUM	0	0.000118681		0.02	0.01953347	97.70
CALCIUM	100	96.80211	96.80	100	93.73656	93.70
CHROMIUM	0	0.000201931		0.02	0.02009218	100
COBALT	0	0.000320337		0.02	0.02094018	105
COPPER	0	0.00136108		0.02	0.02043189	102
GERMANIUM		2229.73	93		2159.063	90.10
GERMANIUM (NO HE)		47742.17	98.40		46355.34	95.50
IRON	100	99.69378	99.70	100	100.3705	100
LEAD	0	0.00012483		0.02	0.01940036	97
LITHIUM	0	0.000629576		0	0.000446762	
MAGNESIUM	100	105.182	105	100	100.9629	101
MANGANESE	0	0.000777729		0.02	0.0196811	98.40
MERCURY	0	0.01767214		0	0.01099063	
MOLYBDENUM	2	2.089182	104	2	2.031839	102
NICKEL	0	0.000440635		0.02	0.02081367	104
POTASSIUM	100	101.6014	102	100	96.79754	96.80
RHODIUM		95209.66	92.80		94245.67	91.90
SCANDIUM		22590.6	93		22951.08	94.50
SCANDIUM (NO HE)		1817991	101		1857609	103
SELENIUM	0	0.000067483		0.02	0.0190907	95.50
SILVER	0	0.000019936		0.02	0.01952282	97.60
SODIUM	100	99.84875	99.80	100	95.78824	95.80
STRONTIUM	0	0.000841107		0.02	0.02036461	102
TELLURIUM		5711.203	91.30		5761.217	92.10
TELLURIUM (HIGH HE)		37023.87	91.20		39233.21	96.70
TELLURIUM (NO HE)		185564.3	93		185284.4	92.90
THALLIUM	0	0.000004806		0.02	0.01915912	95.80
THORIUM	0	0.000313903		0.02	0.01876763	93.80
TIN	0	0.000288568		0.02	0.02069219	103
TITANIUM	2	2.020434	101	2	1.970307	98.50
URANIUM	0	0.000001392		0.02	0.01918039	95.90
VANADIUM	0	0.000022148		0.02	0.02010859	101
ZINC	0	0.000778784		0.02	0.02079908	104

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

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS8	**Date:**	04/30/19 23:31
Instrument Run:	043019ICPMS8		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	104.2497	104	100	99.43318	99.40
ANTIMONY	0	0.000062365		0.02	0.023393	117
ARSENIC	0	0.000054412		0.02	0.0189903	95
BARIUM	0	0.000153835		0.02	0.0191449	95.70
BERYLLIUM	0	0.000023635		0.02	0.0192573	96.30
BISMUTH (NO HE)		1265922	90.90		1287410	92.50
BORON	0	0.1027659		0.02	0.09610927	481
CADMIUM	0	0.000124169		0.02	0.0199753	99.90
CALCIUM	100	98.96556	99	100	94.0541	94.10
CHROMIUM	0	0.000255438		0.02	0.01983839	99.20
COBALT	0	0.000329998		0.02	0.02044444	102
COPPER	0	0.001345195		0.02	0.02048502	102
GERMANIUM		2247.06	93.80		2188.397	91.30
GERMANIUM (NO HE)		46076.52	95		45462.74	93.70
IRON	100	98.01802	98	100	96.8762	96.90
LEAD	0	0.00012347		0.02	0.01872775	93.60
LITHIUM	0	0.000606095		0	0.000570555	
MAGNESIUM	100	107.8485	108	100	99.58895	99.60
MANGANESE	0	0.000593589		0.02	0.02043229	102
MERCURY	0	0.01059444		0	0.002005229	
MOLYBDENUM	2	2.100498	105	2	2.009991	100
NICKEL	0	0.000461155		0.02	0.01976286	98.80
POTASSIUM	100	102.6555	103	100	99.12557	99.10
RHODIUM		93100.3	90.70		93596.94	91.20
SCANDIUM		21962.45	90.50		22256.82	91.70
SCANDIUM (NO HE)		1740270	96.70		1723250	95.80
SELENIUM	0	0.000110405		0.02	0.01903296	95.20
SILVER	0	0.000031456		0.02	0.01942133	97.10
SODIUM	100	100.8984	101	100	95.67505	95.70
STRONTIUM	0	0.000909815		0.02	0.01997223	99.90
TELLURIUM		5676.693	90.70		5644.18	90.20
TELLURIUM (HIGH HE)		38577.93	95.10		39037.5	96.20
TELLURIUM (NO HE)		180716.7	90.60		183250.7	91.90
THALLIUM	0	0.000008663		0.02	0.01924724	96.20
THORIUM	0	0.000484188		0.02	0.01825082	91.30
TIN	0	0.000314086		0.02	0.01960991	98
TITANIUM	2	2.08377	104	2	1.968917	98.40
URANIUM	0	0.000003015		0.02	0.01894882	94.70
VANADIUM	0	0.000046689		0.02	0.02000594	100
ZINC	0	0.000933704		0.02	0.01924842	96.20

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

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	04/30/19 10:55
Instrument Run:	043019ICPMS9		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	100.9573	101	100	101.6702	102
ANTIMONY	0	0.000508176		0.02	0.03305406	165
ARSENIC	0	0.000055677		0.02	0.01896325	94.80
BARIUM	0	0.000138041		0.02	0.02111411	106
BERYLLIUM	0	-0.000003972		0.02	0.01978083	98.90
BISMUTH (NO HE)		2393906	96.30		2427109	97.60
BORON	0	0.00977278		0.02	0.02320751	116
CADMIUM	0	0.000319529		0.02	0.02167245	108
CALCIUM	100	97.22697	97.20	100	98.07069	98.10
CHROMIUM	0	0.000236408		0.02	0.0197094	98.50
COBALT	0	0.000287387		0.02	0.01982322	99.10
COPPER	0	0.000937539		0.02	0.02038113	102
GERMANIUM		2781.73	102		2789.73	103
GERMANIUM (HIGH HE)		4075.12	111		4049.783	110
GERMANIUM (NO HE)		32986.53	100		32697.88	99.30
IRON	100	94.57042	94.60	100	93.39206	93.40
LEAD	0	0.000091901		0.02	0.01990508	99.50
LITHIUM	0	0.000526019		0	0.000536076	
MAGNESIUM	100	100.9567	101	100	102.6894	103
MANGANESE	0	0.000473909		0.02	0.01923732	96.20
MERCURY	0	0.00414432		0	0.005304737	
MOLYBDENUM	2	2.050405	103	2	2.0835	104
NICKEL	0	0.000217913		0.02	0.01993179	99.70
POTASSIUM	100	100.211	100	100	102.5336	103
RHODIUM		93067.9	96.90		94168.82	98
SCANDIUM		31705.18	98.90		31839.47	99.30
SCANDIUM (NO HE)		1535203	97.50		1532681	97.30
SELENIUM	0	0.000136181		0.02	0.0204286	102
SILVER	0	0.000015659		0.02	0.02003779	100
SODIUM	100	100.7054	101	100	103.0434	103
STRONTIUM	0	0.000860139		0.02	0.02152719	108
TELLURIUM		7939.117	91.80		8087.867	93.50
TELLURIUM (HIGH HE)		33760.65	96.50		34069.91	97.40
TELLURIUM (NO HE)		123424.7	92.20		125530.2	93.80
THALLIUM	0	0.000013056		0.02	0.01998605	99.90
THORIUM	0	0.000041881		0.02	0.01993961	99.70
TIN	0	0.000379764		0.02	0.02040876	102
TITANIUM	2	2.058742	103	2	2.082783	104
URANIUM	0	0.000003500		0.02	0.01998164	99.90
VANADIUM	0	-0.000043016		0.02	0.01906432	95.30
ZINC	0	-0.000213856		0.02	0.01877463	93.90

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

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	04/30/19 13:05
Instrument Run:	043019ICPMS9		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	100.0513	100	100	100.7609	101
ANTIMONY	0	0.000417527		0.02	0.03213725	161
ARSENIC	0	0.000065656		0.02	0.01798587	89.90
BARIUM	0	0.000293195		0.02	0.02106838	105
BERYLLIUM	0	0.000009406		0.02	0.01906201	95.30
BISMUTH (NO HE)		2401084	96.60		2370005	95.30
BORON	0	0.2245427		0.02	0.2036115	1020
CADMIUM	0	0.000260118		0.02	0.02135139	107
CALCIUM	100	97.08873	97.10	100	98.99054	99
CHROMIUM	0	0.000216672		0.02	0.01930327	96.50
COBALT	0	0.000298959		0.02	0.01940776	97
COPPER	0	0.000973627		0.02	0.02026105	101
GERMANIUM		2878.397	106		2906.393	107
GERMANIUM (HIGH HE)		4008.447	109		4148.46	113
GERMANIUM (NO HE)		33211	101		33097.42	101
IRON	100	90.36694	90.40	100	92.4917	92.50
LEAD	0	0.000100157		0.02	0.02026798	101
LITHIUM	0	0.000510903		0	0.000510783	
MAGNESIUM	100	104.6753	105	100	103.5138	104
MANGANESE	0	0.00047909		0.02	0.01857215	92.90
MERCURY	0	0.005181774		0	0.003827301	
MOLYBDENUM	2	2.063328	103	2	2.096566	105
NICKEL	0	0.000318153		0.02	0.01934074	96.70
POTASSIUM	100	101.5702	102	100	103.9293	104
RHODIUM		93092.64	96.90		94322.23	98.20
SCANDIUM		31336.42	97.70		31794.03	99.10
SCANDIUM (NO HE)		1555512	98.80		1593237	101
SELENIUM	0	-0.000112877		0.02	0.02082526	104
SILVER	0	0.000023422		0.02	0.02008187	100
SODIUM	100	101.9885	102	100	103.6893	104
STRONTIUM	0	0.001046064		0.02	0.02121797	106
TELLURIUM		7973.633	92.20		8062.013	93.20
TELLURIUM (HIGH HE)		33468.43	95.60		34478.43	98.50
TELLURIUM (NO HE)		126192.9	94.30		125884.9	94.10
THALLIUM	0	0.000003713		0.02	0.02018899	101
THORIUM	0	0.00003821		0.02	0.02009138	100
TIN	0	0.000384862		0.02	0.02032686	102
TITANIUM	2	2.074585	104	2	2.104427	105
URANIUM	0	0.0000003670		0.02	0.01996227	99.80
VANADIUM	0	-0.000022767		0.02	0.01927607	96.40
ZINC	0	-0.000068119		0.02	0.01934431	96.70

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

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406646-5
R3406646-7

MS Sample / File ID:	R3406646-5 / 20190430113738	**SDG:**	L1092757
MSD Sample / File ID:	R3406646-7 / 20190430123205	**Analytical Batch:**	WG1273362
OS Sample / File ID:	L1091922-01 / 20190430112818	**Matrix:**	WW
Instrument ID:	ICPMS9		
Analytical Method:	200.8		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Arsenic	0.0500	0.00161	0.0454	0.0452	87.6	87.3	1	70.0 - 130	0.356	20
Cadmium	0.0500	0.00142	0.0547	0.0528	107	103	1	70.0 - 130	3.59	20
Chromium	0.0500	0.00228	0.0453	0.0442	86.0	83.9	1	70.0 - 130	2.33	20
Cobalt	0.0500	ND	0.0442	0.0430	85.4	83.1	1	70.0 - 130	2.70	20
Copper	0.0500	0.00253	0.0461	0.0433	87.0	81.6	1	70.0 - 130	6.14	20
Lead	0.0500	0.00181	0.0537	0.0498	104	95.9	1	70.0 - 130	7.58	20
Nickel	0.0500	0.00988	0.0521	0.0506	84.5	81.5	1	70.0 - 130	2.91	20
Selenium	0.0500	0.0154	0.0697	0.0659	109	101	1	70.0 - 130	5.71	20
Silver	0.0500	ND	0.0515	0.0509	103	101	1	70.0 - 130	1.28	20
Thallium	0.0500	ND	0.0525	0.0494	103	97.2	1	70.0 - 130	6.01	20
Tin	0.0500	ND	0.0522	0.0493	104	98.0	1	70.0 - 130	5.65	20
Zinc	0.0500	0.0408	0.0818	0.0813	82.1	81.0	1	70.0 - 130	0.629	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

L1092757-01

SAMPLE NO.:
R3406855-5
R3406855-6

MS Sample / File ID:	R3406855-5 / 20190430225038	**SDG:**	L1092757
MSD Sample / File ID:	R3406855-6 / 20190430225558	**Analytical Batch:**	WG1273362
OS Sample / File ID:	L1091922-01 / 20190430223957	**Matrix:**	WW
Instrument ID:	ICPMS8		
Analytical Method:	200.8		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Antimony	0.0500	ND	0.0596	0.0590	119	118	1	70.0 - 130	0.995	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

L1092757-01

SAMPLE NO.:
R3406646-2
R3406646-3

LCS Sample / File ID:	R3406646-2 / 20190430111900	**SDG:**	L1092757
LCSD Sample / File ID:	R3406646-3 / 20190430112339	**Analytical Batch:**	WG1273362
Instrument ID:	ICPMS9	**Dilution Factor:**	1
Analytical Method:	200.8	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Arsenic	0.0500	0.0480	0.0464	95.9	92.9	85.0 - 115	3.22	20
Cadmium	0.0500	0.0532	0.0530	106	106	85.0 - 115	0.467	20
Chromium	0.0500	0.0479	0.0477	95.9	95.3	85.0 - 115	0.542	20
Cobalt	0.0500	0.0481	0.0478	96.3	95.7	85.0 - 115	0.640	20
Copper	0.0500	0.0487	0.0484	97.4	96.8	85.0 - 115	0.543	20
Lead	0.0500	0.0518	0.0511	104	102	85.0 - 115	1.38	20
Nickel	0.0500	0.0482	0.0475	96.3	95.0	85.0 - 115	1.36	20
Selenium	0.0500	0.0520	0.0509	104	102	85.0 - 115	2.14	20
Silver	0.0500	0.0508	0.0509	102	102	85.0 - 115	0.180	20
Thallium	0.0500	0.0511	0.0508	102	102	85.0 - 115	0.588	20
Tin	0.0500	0.0506	0.0495	101	99.0	85.0 - 115	2.28	20
Zinc	0.0500	0.0470	0.0465	94.0	93.0	85.0 - 115	1.04	20

*: Value outside the established quality control limits.

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

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1092757-01

SAMPLE NO.:
R3406855-2
R3406855-3

LCS Sample / File ID:	R3406855-2 / 20190430222917	**SDG:**	L1092757
LCSD Sample / File ID:	R3406855-3 / 20190430223437	**Analytical Batch:**	WG1273362
Instrument ID:	ICPMS8	**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	0.0568	0.0571	114	114	85.0 - 115	0.385	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

L1092757-01

SAMPLE NO.:
R3406646-4

SD Sample / File ID:	R3406646-4 / 20190430113258	**SDG:**	L1092757
OS Sample / File ID:	L1091922-01 / 20190430112818	**Analytical Batch:**	WG1273362
Lab File ID:	20190430113258	**Dilution Factor:**	5
Instrument ID:	ICPMS9	**Matrix:**	WW
Analytical Method:	200.8		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/l	*mg/l*	*%*	*%*
Arsenic	0.00161	0.00204	27.0	10
Cadmium	0.00142	0.00177	24.2	10
Chromium	0.00228	0.00224	1.48	10
Cobalt	ND	0.00173	0.000	10
Copper	0.00253	0.00254	0.494	10
Lead	0.00181	0.00142	21.4	10
Nickel	0.00988	0.0101	2.38	10
Selenium	0.0154	0.0138	10.1	10
Silver	ND	ND	0.000	10
Thallium	ND	ND	0.000	10
Tin	ND	ND	0.000	10
Zinc	0.0408	0.0426	4.45	10

*: Value outside the established quality control limits.

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

8-IN

ICP AND ICP/MS SERIAL DILUTIONS

L1092757-01

SAMPLE NO.:
R3406855-4

SD Sample / File ID:	R3406855-4 / 20190430224517	**SDG:**	L1092757
OS Sample / File ID:	L1091922-01 / 20190430223957	**Analytical Batch:**	WG1273362
Lab File ID:	20190430224517	**Dilution Factor:**	5
Instrument ID:	ICPMS8	**Matrix:**	WW
Analytical Method:	200.8		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/l	*mg/l*	*%*	*%*
Antimony	ND	ND	0.000	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:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS8	**Date:**	02/27/19 09:09

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

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	02/25/19 08:18

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

11-IN

INTERNAL STANDARD ASSOCIATION

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS8	**Analysis Date:**	04/30/19 08:32
Instrument Run:	043019ICPMS8		

Analyte	Assoc. Internal Standard 1
ANTIMONY - 121	RHODIUM - 103

11-IN

INTERNAL STANDARD ASSOCIATION

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Analysis Date:**	04/30/19 08:42
Instrument Run:	043019ICPMS9		

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	TELLURIUM - 125
TIN - 118	RHODIUM - 103
THALLIUM - 205	BISMUTH (NO HE) - 209
LEAD - 208	BISMUTH (NO HE) - 209

12-IN

ANALYSIS LOG

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS8	**Calibration Start Date:**	04/30/19 16:34
Analytical Run:	043019ICPMS8	**Calibration End Date:**	04/30/19 17:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	ICPMS8tn04302019832	20190430083227	04/30/19 08:32	1	
CALBLK	ICPMS80430191628	20190430162853	04/30/19 16:28	1	
CAL	STD1	20190430163414	04/30/19 16:34	1	
CAL	STD2	20190430163934	04/30/19 16:39	1	
CAL	STD3	20190430164455	04/30/19 16:44	1	
CAL	STD4	20190430165016	04/30/19 16:50	1	
CAL	STD5	20190430165537	04/30/19 16:55	1	
CAL	STD6	20190430170058	04/30/19 17:00	1	
ICV	ICPMS80430191712	20190430171224	04/30/19 17:12	1	
ICB	ICPMS80430191724	20190430172411	04/30/19 17:24	1	
ICVLL	ICPMS80430191748	20190430174811	04/30/19 17:48	1	
ICSA	ICPMS80430191753	20190430175337	04/30/19 17:53	1	
ICSAB	ICPMS80430191813	20190430181319	04/30/19 18:13	1	
CCV	ICPMS80430192120	20190430212024	04/30/19 21:20	1	
CCB	ICPMS80430192125	20190430212544	04/30/19 21:25	1	
ICSA	ICPMS80430192131	20190430213137	04/30/19 21:31	1	
ICSAB	ICPMS80430192207	20190430220715	04/30/19 22:07	1	
BLANK	R3406855-1	20190430222356	04/30/19 22:23	1	WG1273362
LCS	R3406855-2	20190430222917	04/30/19 22:29	1	WG1273362
LCSD	R3406855-3	20190430223437	04/30/19 22:34	1	WG1273362
OS	L1091922-01	20190430223957	04/30/19 22:39	1	WG1273362
SD	R3406855-4	20190430224517	04/30/19 22:45	5	WG1273362
MS	R3406855-5	20190430225038	04/30/19 22:50	1	WG1273362
MSD	R3406855-6	20190430225558	04/30/19 22:55	1	WG1273362
WW-20190424-002-DAY 1	L1092757-01	20190430230118	04/30/19 23:01	1	WG1273362
CCV	ICPMS80430192320	20190430232023	04/30/19 23:20	1	
CCB	ICPMS80430192325	20190430232542	04/30/19 23:25	1	
ICSA	ICPMS80430192331	20190430233103	04/30/19 23:31	1	
ICSAB	ICPMS80430192336	20190430233625	04/30/19 23:36	1	

12-IN

ANALYSIS LOG

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Calibration Start Date:**	04/30/19 09:20
Analytical Run:	043019ICPMS9	**Calibration End Date:**	04/30/19 09:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	ICPMS9tn04302019842	20190430084251	04/30/19 08:42	1	
CALBLK	ICPMS90430190915	20190430091545	04/30/19 09:15	1	
CAL	STD1	20190430092026	04/30/19 09:20	1	
CAL	STD2	20190430092508	04/30/19 09:25	1	
CAL	STD3	20190430092949	04/30/19 09:29	1	
CAL	STD4	20190430093430	04/30/19 09:34	1	
CAL	STD5	20190430093911	04/30/19 09:39	1	
CAL	STD6	20190430094353	04/30/19 09:43	1	
ICV	ICPMS90430190957	20190430095756	04/30/19 09:57	1	
ICB	ICPMS90430191023	20190430102355	04/30/19 10:23	1	
CCV	ICPMS90430191028	20190430102837	04/30/19 10:28	1	
CCB	ICPMS90430191046	20190430104614	04/30/19 10:46	1	
ICVLL	ICPMS90430191050	20190430105055	04/30/19 10:50	1	
ICSA	ICPMS90430191055	20190430105537	04/30/19 10:55	1	
ICSAB	ICPMS90430191100	20190430110019	04/30/19 11:00	1	
BLANK	R3406646-1	20190430111420	04/30/19 11:14	1	WG1273362
LCS	R3406646-2	20190430111900	04/30/19 11:19	1	WG1273362
LCSD	R3406646-3	20190430112339	04/30/19 11:23	1	WG1273362
OS	L1091922-01	20190430112818	04/30/19 11:28	1	WG1273362
SD	R3406646-4	20190430113258	04/30/19 11:32	5	WG1273362
MS	R3406646-5	20190430113738	04/30/19 11:37	1	WG1273362
CCV	ICPMS90430191146	20190430114659	04/30/19 11:46	1	
CCB	ICPMS90430191151	20190430115139	04/30/19 11:51	1	
WW-20190424-002-DAY 1	L1092757-01	20190430120349	04/30/19 12:03	1	WG1273362
MSD	R3406646-7	20190430123205	04/30/19 12:32	1	WG1273362
CCV	ICPMS90430191244	20190430124431	04/30/19 12:44	1	
CCB	ICPMS90430191249	20190430124936	04/30/19 12:49	1	
CCVLL	ICPMS90430191300	20190430130048	04/30/19 13:00	1	
ICSA	ICPMS90430191305	20190430130530	04/30/19 13:05	1	
ICSAB	ICPMS90430191310	20190430131012	04/30/19 13:10	1	

13-IN

ICP/MS TUNE

Lab File ID:	20190430083227	**SDG:**	L1092757
Instrument ID:	ICPMS8	**Analysis Date/Time**	04/30/19 08:32
Analytical Method:	200.8		

Element - Mass	Avg. Measured Mass	Avg. Peak Width	Height	RSD
	u	u	%	%
IN - 115	115	0.47038270	5	0.77274970
PB - 206	206	0.48156810	5	0.67871590
PB - 207	207	0.44625690	5	1.585328
PB - 208	208	0.51030750	5	0.83172320
MG - 24	23.95	0.49372430	5	0.32978530
MG - 25	24.95	0.49047940	5	0.85358940
MG - 26	25.95	0.48678960	5	1.851611
CO - 59	58.95	0.48489360	5	0.42107130
BE - 9	9	0.48130850	5	1.389593

13-IN

ICP/MS TUNE

Lab File ID:	20190430084251	**SDG:**	L1092757
Instrument ID:	ICPMS9	**Analysis Date/Time**	04/30/19 08:42
Analytical Method:	200.8		

Element - Mass	Avg. Measured Mass	Avg. Peak Width	Height	RSD
	u	u	%	%
IN - 115	115.05	0.37867340	5	0.13398550
PB - 206	206	0.541309	5	0.99602870
PB - 207	207	0.51214760	5	0.75213670
PB - 208	208	0.55100050	5	0.54328920
MG - 24	23.90	0.57789870	5	0.69315180
MG - 25	24.90	0.53353820	5	0.71316330
MG - 26	25.90	0.57728060	5	0.64078840
CO - 59	59	0.43979470	5	1.113587
BE - 9	8.95	0.53983590	5	0.51867880

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS8	**Start Date:**	04/30/19 17:12
Instrument Run:	043019ICPMS8	**End Date:**	04/30/19 22:55

Client Sample ID	Lab Sample ID	Analysis Date Time	BISMUTH (NO HE)		GERMANIUM		GERMANIUM (NO HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS80430191712	04/30/19 17:12	100		103		102	
ICB	ICPMS80430191724	04/30/19 17:24	98.50		104		98.70	
ICVLL	ICPMS80430191748	04/30/19 17:48	94.20		98.50		98.60	
ICSA	ICPMS80430191753	04/30/19 17:53	94.50		98.50		98.90	
ICSAB	ICPMS80430191813	04/30/19 18:13	94.40		98		97.80	
CCV	ICPMS80430192120	04/30/19 21:20	96.60		92.40		96.80	
CCB	ICPMS80430192125	04/30/19 21:25	95.10		91.60		94.30	
ICSA	ICPMS80430192131	04/30/19 21:31	96.50		93		98.40	
ICSAB	ICPMS80430192207	04/30/19 22:07	93.30		90.10		95.50	
CCV	ICPMS80430192320	04/30/19 23:20	94.10		93.60		95.90	
CCB	ICPMS80430192325	04/30/19 23:25	91.90		89.50		93.60	
ICSA	ICPMS80430192331	04/30/19 23:31	90.90		93.80		95	
ICSAB	ICPMS80430192336	04/30/19 23:36	92.50		91.30		93.70	
OS	L1091922-01	04/30/19 22:39	90		102		103	
WW-20190424-002-DAY 1	L1092757-01	04/30/19 23:01	88.30		99.80		98.20	
BLANK	R3406855-1	04/30/19 22:23	91		93.20		93.80	
LCS	R3406855-2	04/30/19 22:29	91.20		92.90		93.10	
LCSD	R3406855-3	04/30/19 22:34	89.60		93		93.10	
SD	R3406855-4	04/30/19 22:45	92.80		95.20		94.80	
MS	R3406855-5	04/30/19 22:50	87.60		99.70		99.30	
MSD	R3406855-6	04/30/19 22:55	90		107		104	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS8	**Start Date:**	04/30/19 17:12
Instrument Run:	043019ICPMS8	**End Date:**	04/30/19 22:55

Client Sample ID	Lab Sample ID	Analysis Date Time	RHODIUM		SCANDIUM		SCANDIUM (NO HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS80430191712	04/30/19 17:12	101		102		103	
ICB	ICPMS80430191724	04/30/19 17:24	100		98.60		98.70	
ICVLL	ICPMS80430191748	04/30/19 17:48	98.10		98.70		101	
ICSA	ICPMS80430191753	04/30/19 17:53	95.40		97.90		104	
ICSAB	ICPMS80430191813	04/30/19 18:13	94.50		98.10		100	
CCV	ICPMS80430192120	04/30/19 21:20	96.20		92.70		101	
CCB	ICPMS80430192125	04/30/19 21:25	93.80		90.70		94	
ICSA	ICPMS80430192131	04/30/19 21:31	92.80		93		101	
ICSAB	ICPMS80430192207	04/30/19 22:07	91.90		94.50		103	
CCV	ICPMS80430192320	04/30/19 23:20	97.30		95.50		101	
CCB	ICPMS80430192325	04/30/19 23:25	92.60		90.70		94.40	
ICSA	ICPMS80430192331	04/30/19 23:31	90.70		90.50		96.70	
ICSAB	ICPMS80430192336	04/30/19 23:36	91.20		91.70		95.80	
OS	L1091922-01	04/30/19 22:39	89		89		95.30	
WW-20190424-002-DAY 1	L1092757-01	04/30/19 23:01	87		89.60		93.90	
BLANK	R3406855-1	04/30/19 22:23	89		87.60		92.40	
LCS	R3406855-2	04/30/19 22:29	90.50		89.60		94.30	
LCSD	R3406855-3	04/30/19 22:34	90		88.10		93.40	
SD	R3406855-4	04/30/19 22:45	92.40		90.60		97.80	
MS	R3406855-5	04/30/19 22:50	88.90		88.60		93.40	
MSD	R3406855-6	04/30/19 22:55	89.60		90		94.20	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS8	**Start Date:**	04/30/19 17:12
Instrument Run:	043019ICPMS8	**End Date:**	04/30/19 22:55

Client Sample ID	Lab Sample ID	Analysis Date Time	TELLURIUM		TELLURIUM (HIGH HE)		TELLURIUM (NO HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS80430191712	04/30/19 17:12	104		109		103	
ICB	ICPMS80430191724	04/30/19 17:24	101		105		99.20	
ICVLL	ICPMS80430191748	04/30/19 17:48	101		106		99.90	
ICSA	ICPMS80430191753	04/30/19 17:53	94.80		101		96.30	
ICSAB	ICPMS80430191813	04/30/19 18:13	94.10		94.50		95.70	
CCV	ICPMS80430192120	04/30/19 21:20	95.50		102		97.50	
CCB	ICPMS80430192125	04/30/19 21:25	93.50		97.40		94.80	
ICSA	ICPMS80430192131	04/30/19 21:31	91.30		91.20		93	
ICSAB	ICPMS80430192207	04/30/19 22:07	92.10		96.70		92.90	
CCV	ICPMS80430192320	04/30/19 23:20	98.80		102		97.10	
CCB	ICPMS80430192325	04/30/19 23:25	93.30		95.20		93.30	
ICSA	ICPMS80430192331	04/30/19 23:31	90.70		95.10		90.60	
ICSAB	ICPMS80430192336	04/30/19 23:36	90.20		96.20		91.90	
OS	L1091922-01	04/30/19 22:39	89.30		98.40		91.80	
WW-20190424-002-DAY 1	L1092757-01	04/30/19 23:01	86.10		89.50		86	
BLANK	R3406855-1	04/30/19 22:23	89.30		95.20		91	
LCS	R3406855-2	04/30/19 22:29	90.60		97.60		93.30	
LCSD	R3406855-3	04/30/19 22:34	90.80		97.70		92.30	
SD	R3406855-4	04/30/19 22:45	93.40		101		96.30	
MS	R3406855-5	04/30/19 22:50	88.70		92.90		90.30	
MSD	R3406855-6	04/30/19 22:55	89.30		97.60		93.10	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	04/30/19 09:57
Instrument Run:	043019ICPMS9	**End Date:**	04/30/19 12:32

Client Sample ID	Lab Sample ID	Analysis Date Time	BISMUTH (NO HE)		GERMANIUM		GERMANIUM (HIGH HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS90430190957	04/30/19 09:57	97		102		105	
ICB	ICPMS90430191023	04/30/19 10:23	96.50		100		101	
CCV	ICPMS90430191028	04/30/19 10:28	96.40		99		103	
CCB	ICPMS90430191046	04/30/19 10:46	93.40		99.20		98.30	
ICVLL	ICPMS90430191050	04/30/19 10:50	95.40		98.90		101	
ICSA	ICPMS90430191055	04/30/19 10:55	96.30		102		111	
ICSAB	ICPMS90430191100	04/30/19 11:00	97.60		103		110	
CCV	ICPMS90430191146	04/30/19 11:46	99.10		105		107	
CCB	ICPMS90430191151	04/30/19 11:51	101		98.90		102	
CCV	ICPMS90430191244	04/30/19 12:44	95		103		106	
CCB	ICPMS90430191249	04/30/19 12:49	95.40		100		104	
CCVLL	ICPMS90430191300	04/30/19 13:00	96.50		104		103	
ICSA	ICPMS90430191305	04/30/19 13:05	96.60		106		109	
ICSAB	ICPMS90430191310	04/30/19 13:10	95.30		107		113	
OS	L1091922-01	04/30/19 11:28	99.60		118			
WW-20190424-002-DAY 1	L1092757-01	04/30/19 12:03	97.60		122			
BLANK	R3406646-1	04/30/19 11:14	95.90		103		107	
LCS	R3406646-2	04/30/19 11:19	94.50		103		105	
LCSD	R3406646-3	04/30/19 11:23	97.40		104		108	
SD	R3406646-4	04/30/19 11:32	105		112		112	
MS	R3406646-5	04/30/19 11:37	100		124			
MSD	R3406646-7	04/30/19 12:32	97.60		121		121	

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ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	04/30/19 09:57
Instrument Run:	043019ICPMS9	**End Date:**	04/30/19 12:32

Client Sample ID	Lab Sample ID	Analysis Date Time	GERMANIUM (NO HE)		RHODIUM		SCANDIUM	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS90430190957	04/30/19 09:57	100		103		102	
ICB	ICPMS90430191023	04/30/19 10:23	94.50		98.60		96.50	
CCV	ICPMS90430191028	04/30/19 10:28	97		101		100	
CCB	ICPMS90430191046	04/30/19 10:46	94.90		97.90		97.30	
ICVLL	ICPMS90430191050	04/30/19 10:50	96.20		98.80		97.50	
ICSA	ICPMS90430191055	04/30/19 10:55	100		96.90		98.90	
ICSAB	ICPMS90430191100	04/30/19 11:00	99.30		98		99.30	
CCV	ICPMS90430191146	04/30/19 11:46	104		105		104	
CCB	ICPMS90430191151	04/30/19 11:51	102		102		101	
CCV	ICPMS90430191244	04/30/19 12:44	102		104		103	
CCB	ICPMS90430191249	04/30/19 12:49	101		101		101	
CCVLL	ICPMS90430191300	04/30/19 13:00	101		101		101	
ICSA	ICPMS90430191305	04/30/19 13:05	101		96.90		97.70	
ICSAB	ICPMS90430191310	04/30/19 13:10	101		98.20		99.10	
OS	L1091922-01	04/30/19 11:28	117		98.10		96	
WW-20190424-002-DAY 1	L1092757-01	04/30/19 12:03	119		99.10		100	
BLANK	R3406646-1	04/30/19 11:14	98.40		94.40		91.50	
LCS	R3406646-2	04/30/19 11:19	98.90		95.30		93.60	
LCSD	R3406646-3	04/30/19 11:23	101		97.10		94.80	
SD	R3406646-4	04/30/19 11:32	110		106		104	
MS	R3406646-5	04/30/19 11:37	118		101		100	
MSD	R3406646-7	04/30/19 12:32	120		99.10		101	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	04/30/19 09:57
Instrument Run:	043019ICPMS9	**End Date:**	04/30/19 12:32

Client Sample ID	Lab Sample ID	Analysis Date Time	SCANDIUM (NO HE)		TELLURIUM		TELLURIUM (HIGH HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS90430190957	04/30/19 09:57	101		103		103	
ICB	ICPMS90430191023	04/30/19 10:23	96		95.20		98.40	
CCV	ICPMS90430191028	04/30/19 10:28	100		99.60		101	
CCB	ICPMS90430191046	04/30/19 10:46	94.40		97		98	
ICVLL	ICPMS90430191050	04/30/19 10:50	96.50		98.20		99.40	
ICSA	ICPMS90430191055	04/30/19 10:55	97.50		91.80		96.50	
ICSAB	ICPMS90430191100	04/30/19 11:00	97.30		93.50		97.40	
CCV	ICPMS90430191146	04/30/19 11:46	102		102		105	
CCB	ICPMS90430191151	04/30/19 11:51	98.90		98.50		102	
CCV	ICPMS90430191244	04/30/19 12:44	101		102		104	
CCB	ICPMS90430191249	04/30/19 12:49	101		99.20		101	
CCVLL	ICPMS90430191300	04/30/19 13:00	102		99.80		101	
ICSA	ICPMS90430191305	04/30/19 13:05	98.80		92.20		95.60	
ICSAB	ICPMS90430191310	04/30/19 13:10	101		93.20		98.50	
OS	L1091922-01	04/30/19 11:28	101		94.60		102	
WW-20190424-002-DAY 1	L1092757-01	04/30/19 12:03	104		92.10		99.30	
BLANK	R3406646-1	04/30/19 11:14	92.90		89.40		96.70	
LCS	R3406646-2	04/30/19 11:19	95.20		92.70		99.30	
LCSD	R3406646-3	04/30/19 11:23	95.20		94.20		101	
SD	R3406646-4	04/30/19 11:32	107		104		106	
MS	R3406646-5	04/30/19 11:37	101		98		105	
MSD	R3406646-7	04/30/19 12:32	99.80		96.60		98.10	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1092757	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	04/30/19 09:57
Instrument Run:	043019ICPMS9	**End Date:**	04/30/19 12:32

Client Sample ID	Lab Sample ID	Analysis Date Time	TELLURIUM (NO HE)	
			% Rec.	Q
ICV	ICPMS90430190957	04/30/19 09:57	101	
ICB	ICPMS90430191023	04/30/19 10:23	94.80	
CCV	ICPMS90430191028	04/30/19 10:28	97.30	
CCB	ICPMS90430191046	04/30/19 10:46	94.30	
ICVLL	ICPMS90430191050	04/30/19 10:50	96.80	
ICSA	ICPMS90430191055	04/30/19 10:55	92.20	
ICSAB	ICPMS90430191100	04/30/19 11:00	93.80	
CCV	ICPMS90430191146	04/30/19 11:46	103	
CCB	ICPMS90430191151	04/30/19 11:51	100	
CCV	ICPMS90430191244	04/30/19 12:44	102	
CCB	ICPMS90430191249	04/30/19 12:49	99.10	
CCVLL	ICPMS90430191300	04/30/19 13:00	101	
ICSA	ICPMS90430191305	04/30/19 13:05	94.30	
ICSAB	ICPMS90430191310	04/30/19 13:10	94.10	
OS	L1091922-01	04/30/19 11:28	99.70	
WW-20190424-002-DAY 1	L1092757-01	04/30/19 12:03	96	
BLANK	R3406646-1	04/30/19 11:14	93	
LCS	R3406646-2	04/30/19 11:19	95.20	
LCSD	R3406646-3	04/30/19 11:23	96.90	
SD	R3406646-4	04/30/19 11:32	108	
MS	R3406646-5	04/30/19 11:37	101	
MSD	R3406646-7	04/30/19 12:32	99.30	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.0010	.001127833	113	0.0020	.002103567	105
COBALT	0.0010	.001008358	101	0.0020	.002087959	104
NICKEL	0.0010	.000936237	93.60	0.0020	.002187467	109
COPPER	0.0010	.001067024	107	0.0020	.002116749	106
ZINC	0.0010	.000812971	81.30	0.0020	.002122647	106
ARSENIC	0.0010	.001099536	110	0.0020	.002280455	114
SILVER	0.0010	.00099894	99.90	0.0020	.001998096	99.90
CADMIUM	0.0010	.000935802	93.60	0.0020	.001905898	95.30
TIN	0.0010	.001153746	115	0.0020	.001915863	95.80
ANTIMONY	0.0010	.000913914	91.40	0.0020	.00170196	85.10
THALLIUM	0.0010	.000964528	96.50	0.0020	.002002461	100
LEAD	0.0010	.000999884	100	0.0020	.001997041	99.90
File ID:		20190430163414			20190430163934	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.01	.00942035	94.20	0.05	.05128207	103
COBALT	0.01	.009729985	97.30	0.05	.05188733	104
NICKEL	0.01	.01009699	101	0.05	.05282682	106
COPPER	0.01	.00966644	96.70	0.05	.04924612	98.50
ZINC	0.01	.01029393	103	0.05	.05251113	105
ARSENIC	0.01	.009675933	96.80	0.05	.05173259	103
SILVER	0.01	.009554986	95.50	0.05	.04939147	98.80
CADMIUM	0.01	.0097072	97.10	0.05	.04900605	98
TIN	0.01	.00951403	95.10	0.05	.05077447	102
ANTIMONY	0.01	.009631433	96.30	0.05	.04891768	97.80
THALLIUM	0.01	.009540499	95.40	0.05	.04882851	97.70
LEAD	0.01	.009474184	94.70	0.05	.04838656	96.80
File ID:		20190430164455			20190430165016	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.10	.1006387	101	0.20	.1993875	99.70
COBALT	0.10	.102392	102	0.20	.1983448	99.20
NICKEL	0.10	.1034987	103	0.20	.1975376	98.80
COPPER	0.10	.1002654	100	0.20	.2000709	100
ZINC	0.10	.1021285	102	0.20	.198293	99.10
ARSENIC	0.10	.1016507	102	0.20	.1987544	99.40
SILVER	0.10	.09935102	99.40	0.20	.2004989	100
CADMIUM	0.10	.09979992	99.80	0.20	.2003644	100
TIN	0.10	.1002574	100	0.20	.199702	99.90
ANTIMONY	0.10	.0983574	98.40	0.20	.2011137	101
THALLIUM	0.10	.09886444	98.90	0.20	.2008838	100
LEAD	0.10	.09939581	99.40	0.20	.2007318	100
File ID:		20190430165537			20190430170058	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.0010	.000892446	89.20	0.0020	.001600471	80
File ID:		20190430163414			20190430163934	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.01	.00997011	99.70	0.05	.04852518	97.10
File ID:		20190430164455			20190430165016	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.10	.09295968	93	0.20	.2038949	102
File ID:		20190430165537			20190430170058	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.0010	.00099355	99.40	0.0020	.002177895	109
COBALT	0.0010	.000953471	95.30	0.0020	.002029935	101
NICKEL	0.0010	.001014854	101	0.0020	.002120372	106
COPPER	0.0010	.001001197	100	0.0020	.001934575	96.70
ZINC	0.0010	.000896422	89.60	0.0020	.00233661	117
ARSENIC	0.0010	.000995086	99.50	0.0020	.001970338	98.50
SILVER	0.0010	.001024767	102	0.0020	.002012617	101
CADMIUM	0.0010	.000905856	90.60	0.0020	.002011759	101
TIN	0.0010	.000939641	94	0.0020	.002136944	107
ANTIMONY	0.0010	.001121031	112	0.0020	.002283875	114
THALLIUM	0.0010	.000926269	92.60	0.0020	.001980026	99
File ID:		20190430092026			20190430092508	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.01	.009217419	92.20	0.05	.05016517	100
COBALT	0.01	.009524482	95.20	0.05	.05091332	102
NICKEL	0.01	.009596071	96	0.05	.05064269	101
COPPER	0.01	.009941409	99.40	0.05	.05088607	102
ZINC	0.01	.00981392	98.10	0.05	.05183065	104
ARSENIC	0.01	.009399366	94	0.05	.05120231	102
SILVER	0.01	.009500046	95	0.05	.04985693	99.70
CADMIUM	0.01	.009579685	95.80	0.05	.05059152	101
TIN	0.01	.009248456	92.50	0.05	.04918739	98.40
ANTIMONY	0.01	.01175065	118	0.05	.05182328	104
THALLIUM	0.01	.009630454	96.30	0.05	.05006302	100
File ID:		20190430092949			20190430093430	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.10	.103654	104	0.20	.1981691	99.10
COBALT	0.10	.1026793	103	0.20	.1984557	99.20
NICKEL	0.10	.1029787	103	0.20	.1983689	99.20
COPPER	0.10	.09943549	99.40	0.20	.2000643	100
ZINC	0.10	.1016001	102	0.20	.1987487	99.40
ARSENIC	0.10	.1019277	102	0.20	.198766	99.40
SILVER	0.10	.09908279	99.10	0.20	.2005191	100
CADMIUM	0.10	.1000453	100	0.20	.1998508	99.90
TIN	0.10	.1002241	100	0.20	.2001276	100
ANTIMONY	0.10	.1022278	102	0.20	.1983393	99.20
THALLIUM	0.10	.09882603	98.80	0.20	.2005903	100
File ID:		20190430093911			20190430094353	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.0010	.000624374	62.40	0.0020	.001822517	91.10
File ID:		20190430092026			20190430092508	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.01	.008655475	86.60	0.05	.0499328	99.90
File ID:		20190430092949			20190430093430	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.10	.1009337	101	0.20	.1996208	99.80
File ID:		20190430093911			20190430094353	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
LEAD	0.0010	.000929539	93	0.0020	.001966249	98.30
File ID:		20190430092026			20190430092508	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
LEAD	0.01	.009818091	98.20	0.05	.05042433	101
File ID:		20190430092949			20190430093430	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
LEAD	0.10	.09923732	99.20	0.20	.200285	100
File ID:		20190430093911			20190430094353	

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
CHROMIUM	52	8	5	0.999962	153.9682	0.211139
COBALT	59	8	5	0.999839	323.5821	0.00392
NICKEL	60	8	5	0.999661	94.23829	0.018247
COPPER	63	8	5	0.99999	44.85124	0.004478
ZINC	66	8	5	0.999826	25.0031	0.023313
ARSENIC	75	8	5	0.999905	17.07304	0.000833
SILVER	107	8	5	0.999987	9.654643	0.000097
CADMIUM	111	8	5	0.999987	13.8402	0.000053
TIN	118	8	5	0.999985	1.466514	0.000184
ANTIMONY	121	8	5	0.99994	1.601752	0.000617
THALLIUM	205	8	5	0.999958	1.803064	0.000032
LEAD	208	8	5	0.999958	1.381449	0.000037

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:34
Instrument ID:	ICPMS8	**Calibration (end) date/time:**	04/30/19 17:00
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS8

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
SELENIUM	78	8	5	0.99911	0.167815	0.000025

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
CHROMIUM	52	8	5	0.999748	132.5368	0.08311
COBALT	59	8	5	0.99985	256.4859	0.004406
NICKEL	60	8	5	0.99983	73.07292	0.016889
COPPER	63	8	5	0.999984	49.58004	0.009432
ZINC	66	8	5	0.999903	24.81075	0.055666
ARSENIC	75	8	5	0.999901	14.63235	0.000553
SILVER	107	8	5	0.999983	9.280965	0.000083
CADMIUM	111	8	5	0.999992	10.91365	0
TIN	118	8	5	0.999985	1.726154	0.000255
ANTIMONY	121	8	5	0.999856	1.448523	0.000254
THALLIUM	205	8	5	0.999976	1.704593	0.000034

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
LEAD	208	8	5	0.999987	1.295151	0.000079

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 09:20
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	04/30/19 09:43
Analytical Method:	200.8	**Analytical Run:**	043019ICPMS9

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
SELENIUM	78	8	5	0.999962	0.157614	0.000048

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

245.1 Mercury

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190429215000	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	CVAA5	**Preparation Date/Time:**	04/29/19 13:05
Analytical Batch:	WG1273361	**Analysis Date/Time:**	04/29/19 21:50
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

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

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406509-1

Lab Sample ID:	R3406509-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190429214241	**Received Date/Time:**	_____
Instrument ID:	CVAA5	**Preparation Date/Time:**	04/29/19 13:04
Analytical Batch:	WG1273361	**Analysis Date/Time:**	04/29/19 21:42
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

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

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406509-2

Lab Sample ID:	R3406509-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190429214507	**Received Date/Time:**	_____
Instrument ID:	CVAA5	**Preparation Date/Time:**	04/29/19 13:04
Analytical Batch:	WG1273361	**Analysis Date/Time:**	04/29/19 21:45
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	0.00307		0.0000490	0.0002	0.000200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406509-3

Lab Sample ID:	R3406509-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	20190429214734	**Received Date/Time:**	_____
Instrument ID:	CVAA5	**Preparation Date/Time:**	04/29/19 13:04
Analytical Batch:	WG1273361	**Analysis Date/Time:**	04/29/19 21:47
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	0.00307		0.0000490	0.0002	0.000200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406509-4

Lab Sample ID:	R3406509-4	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190429215226	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	CVAA5	**Preparation Date/Time:**	04/29/19 13:05
Analytical Batch:	WG1273361	**Analysis Date/Time:**	04/29/19 21:52
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	0.00325		0.0000490	0.0002	0.000200

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406509-5

Lab Sample ID:	R3406509-5	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190429215452	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	CVAA5	**Preparation Date/Time:**	04/29/19 13:05
Analytical Batch:	WG1273361	**Analysis Date/Time:**	04/29/19 21:54
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Mercury	7439-97-6	0.00356		0.0000490	0.0002	0.000200

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 17:39
Instrument ID:	CVAA5	**Calibration (end) date/time:**	04/29/19 17:51
Analytical Method:	245.1	**Analytical Run:**	042919CVAA5 WB
Concentration Units:	mg/l		

	ICV				**ICVLL**				**CCV**			
Sample ID:	CVAA50429191825-2				CVAA50429191834-2				CVAA50429192130-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0030	0.0030876	103	0.459000	0.0002	0.0001979	99	0.430000	0.0025	0.0025986	104	0.851000

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 17:39
Instrument ID:	CVAA5	**Calibration (end) date/time:**	04/29/19 17:51
Analytical Method:	245.1	**Analytical Run:**	042919CVAA5 WB
Concentration Units:	mg/l		

	CCVLL				**CCV**				**CCVLL**			
Sample ID:	CVAA50429192135				CVAA50429192202-2				CVAA50429192305-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0002	0.0001991	99.60	1.140000	0.0025	0.0025942	104	0.666000	0.0002	0.0002098	105	0.400000

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

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 17:39
Instrument ID:	CVAA5	**Calibration (end) date/time:**	04/29/19 17:51
Analytical Method:	245.1	**Analytical Run:**	042919CVAA5 WB

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20190429182736-2		20190429213254-2		20190429214241		20190429220437-2	
Analyte	mg/l		mg/l		mg/l		mg/l	
MERCURY	-0.00002440	U	-0.00002100	U	U		-0.00002500	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406509-4
R3406509-5

MS Sample / File ID:	R3406509-4 / 20190429215226	**SDG:**	L1092757
MSD Sample / File ID:	R3406509-5 / 20190429215452	**Analytical Batch:**	WG1273361
OS Sample / File ID:	L1092757-01 / 20190429215000	**Matrix:**	WW
Instrument ID:	CVAA5		
Analytical Method:	245.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Mercury	0.00300	U	0.00325	0.00356	108	119	1	70.0 - 130	9.27	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

L1092757-01

SAMPLE NO.:
R3406509-2
R3406509-3

LCS Sample / File ID:	R3406509-2 / 20190429214507	**SDG:**	L1092757
LCSD Sample / File ID:	R3406509-3 / 20190429214734	**Analytical Batch:**	WG1273361
Instrument ID:	CVAA5	**Dilution Factor:**	1
Analytical Method:	245.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Mercury	0.00300	0.00307	0.00307	102	102	85.0 - 115	0.205	20

*: Value outside the established quality control limits.

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

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1092757	**Analytical Method:**	245.1
Instrument ID:	CVAA5	**Date:**	01/19/17 08:54

Analyte	LDR
	ppm
MERCURY	0.01

12-IN

ANALYSIS LOG

SDG:	L1092757	**Analytical Method:**	245.1
Instrument ID:	CVAA5	**Calibration Start Date:**	04/29/19 17:39
Analytical Run:	042919CVAA5 WB	**Calibration End Date:**	04/29/19 17:51

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA50429191736	20190429173647	04/29/19 17:36	1	
CAL	STD1	20190429173914	04/29/19 17:39	1	
CAL	STD2	20190429174141	04/29/19 17:41	1	
CAL	STD3	20190429174407	04/29/19 17:44	1	
CAL	STD4	20190429174633	04/29/19 17:46	1	
CAL	STD5	20190429174857	04/29/19 17:48	1	
CAL	STD6	20190429175122	04/29/19 17:51	1	
ICV	CVAA50429191825-2	20190429182508-2	04/29/19 18:25	1	
ICB	CVAA50429191827-2	20190429182736-2	04/29/19 18:27	1	
ICVLL	CVAA50429191834-2	20190429183457-2	04/29/19 18:34	1	
CCV	CVAA50429192130-2	20190429213028-2	04/29/19 21:30	1	
CCB	CVAA50429192132-2	20190429213254-2	04/29/19 21:32	1	
CCVLL	CVAA50429192135	20190429213521	04/29/19 21:35	1	
BLANK	R3406509-1	20190429214241	04/29/19 21:42	1	WG1273361
LCS	R3406509-2	20190429214507	04/29/19 21:45	1	WG1273361
LCSD	R3406509-3	20190429214734	04/29/19 21:47	1	WG1273361
WW-20190424-002-DAY 1	L1092757-01	20190429215000	04/29/19 21:50	1	WG1273361
MS	R3406509-4	20190429215226	04/29/19 21:52	1	WG1273361
MSD	R3406509-5	20190429215452	04/29/19 21:54	1	WG1273361
CCV	CVAA50429192202-2	20190429220211-2	04/29/19 22:02	1	
CCB	CVAA50429192204-2	20190429220437-2	04/29/19 22:04	1	
CCVLL	CVAA50429192305-2	20190429230546-2	04/29/19 23:05	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 17:39
Instrument ID:	CVAA5	**Calibration (end) date/time:**	04/29/19 17:51
Analytical Method:	245.1	**Analytical Run:**	042919CVAA5 WB

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	PPB	PPB	%	PPB	PPB	%
MERCURY	0.20	.198820298	99.40	0.40	.341858052	85.50
File ID:		20190429173914			20190429174141	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 17:39
Instrument ID:	CVAA5	**Calibration (end) date/time:**	04/29/19 17:51
Analytical Method:	245.1	**Analytical Run:**	042919CVAA5 WB

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	PPB	PPB	%	PPB	PPB	%
MERCURY	1	.970269448	97	2	1.976307334	98.80
File ID:		20190429174407			20190429174633	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 17:39
Instrument ID:	CVAA5	**Calibration (end) date/time:**	04/29/19 17:51
Analytical Method:	245.1	**Analytical Run:**	042919CVAA5 WB

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	PPB	PPB	%	PPB	PPB	%
MERCURY	5	5.24725173	105	10	9.878333434	98.80
File ID:		20190429174857			20190429175122	

16A-IN

INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 17:39
Instrument ID:	CVAA5	**Calibration (end) date/time:**	04/29/19 17:51
Analytical Method:	245.1	**Analytical Run:**	042919CVAA5 WB

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999499	0.00017	-0.007979

Calibration Type

0 = Linear Regression

Weightage

5 = None

2540 C-2011 Gravimetric Analysis

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	11	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 16:17
Analytical Batch:	WG1273247	**Analysis Date/Time:**	04/29/19 17:16
Dilution Factor:	1	**Prep Method:**	SM 2540 C
Analytical Method:	2540 C-2011	**Sample Vol Used:**	40 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	1460		7.05	25.0	25.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406683-1

Lab Sample ID:	R3406683-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 16:16
Analytical Batch:	WG1273247	**Analysis Date/Time:**	04/29/19 17:16
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.:
R3406683-3

Lab Sample ID:	R3406683-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/23/19 17:10
Lab File ID:	02	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 16:17
Analytical Batch:	WG1273247	**Analysis Date/Time:**	04/29/19 17:16
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	4050		14.1	50	50.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406683-4

Lab Sample ID:	R3406683-4	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 15:15
Lab File ID:	03	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 16:17
Analytical Batch:	WG1273247	**Analysis Date/Time:**	04/29/19 17:16
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	3320		14.1	50	50.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406683-2

Lab Sample ID:	R3406683-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	04	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 16:16
Analytical Batch:	WG1273247	**Analysis Date/Time:**	04/29/19 17:16
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	8790		28.2	100	100

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	_____
Instrument ID:	WETBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 C-2011	**Analytical Run:**	WG1273247

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

6-IN

DUPLICATES
L1092757-01

SAMPLE NO.:
R3406683-3

DUP Sample / File ID:	R3406683-3 / 02	**SDG:**	L1092757
OS Sample / File ID:	L1092708-01 / 06	**Analytical Batch:**	WG1273247
Instrument ID:	WETBAL3	**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	4030	4050	0.619	5

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES
L1092757-01

SAMPLE NO.:
R3406683-4

DUP Sample / File ID:	R3406683-4 / 03	**SDG:**	L1092757
OS Sample / File ID:	L1092708-05 / 10	**Analytical Batch:**	WG1273247
Instrument ID:	WETBAL3	**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	3300	3320	0.605	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

L1092757-01

SAMPLE NO.:
R3406683-2

LCS Sample / File ID:	R3406683-2 / 04	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1273247
Instrument ID:	WETBAL3	**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	8790		99.9		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:	L1092757	**Analytical Method:**	2540 C-2011
Instrument ID:	WETBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG1273247	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3406683-1	01	04/29/19 17:16	1	WG1273247
DUP	R3406683-4	03	04/29/19 17:16	1	WG1273247
DUP	R3406683-3	02	04/29/19 17:16	1	WG1273247
LCS	R3406683-2	04	04/29/19 17:16	1	WG1273247
OS	L1092708-01	06	04/29/19 17:16	1	WG1273247
OS	L1092708-05	10	04/29/19 17:16	1	WG1273247
WW-20190424-002-DAY 1	L1092757-01	11	04/29/19 17:16	1	WG1273247

2540 D-2011 Gravimetric Analysis

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	09	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 13:30
Analytical Batch:	WG1273251	**Analysis Date/Time:**	04/29/19 14:21
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	3.20	J	0.700	5.00	5.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406599-1

Lab Sample ID:	R3406599-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 13:29
Analytical Batch:	WG1273251	**Analysis Date/Time:**	04/29/19 14:21
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.:
R3406599-3

Lab Sample ID:	R3406599-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/17/19 08:45
Lab File ID:	02	**Received Date/Time:**	04/17/19 08:45
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 13:30
Analytical Batch:	WG1273251	**Analysis Date/Time:**	04/29/19 14:21
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	5 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	4720		70.0	500	500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406599-4

Lab Sample ID:	R3406599-4	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/25/19 12:25
Lab File ID:	03	**Received Date/Time:**	04/27/19 08:45
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 13:30
Analytical Batch:	WG1273251	**Analysis Date/Time:**	04/29/19 14:21
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	50 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	190		7.00	50	50.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406599-2

Lab Sample ID:	R3406599-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	04	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	04/29/19 13:29
Analytical Batch:	WG1273251	**Analysis Date/Time:**	04/29/19 14:21
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	816		14.0	100	100

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	_____
Instrument ID:	WETBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 D-2011	**Analytical Run:**	WG1273251

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

6-IN

DUPLICATES
L1092757-01

SAMPLE NO.:
R3406599-3

DUP Sample / File ID:	R3406599-3 / 02	**SDG:**	L1092757
OS Sample / File ID:	L1089782-02 / 05	**Analytical Batch:**	WG1273251
Instrument ID:	WETBAL3	**Dilution Factor:**	1
Analytical Method:	2540 D-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Suspended Solids	4700	4720	0.425	5

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES
L1092757-01

SAMPLE NO.:
R3406599-4

DUP Sample / File ID:	R3406599-4 / 03	**SDG:**	L1092757
OS Sample / File ID:	L1093412-01 / 14	**Analytical Batch:**	WG1273251
Instrument ID:	WETBAL3	**Dilution Factor:**	1
Analytical Method:	2540 D-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Suspended Solids	198	190	4.12	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

L1092757-01

SAMPLE NO.:
R3406599-2

LCS Sample / File ID:	R3406599-2 / 04	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1273251
Instrument ID:	WETBAL3	**Dilution Factor:**	1
Analytical Method:	2540 D-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Suspended Solids	773	816		106		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:	L1092757	**Analytical Method:**	2540 D-2011
Instrument ID:	WETBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG1273251	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3406599-1	01	04/29/19 14:21	1	WG1273251
DUP	R3406599-4	03	04/29/19 14:21	1	WG1273251
DUP	R3406599-3	02	04/29/19 14:21	1	WG1273251
LCS	R3406599-2	04	04/29/19 14:21	1	WG1273251
OS	L1089782-02	05	04/29/19 14:21	1	WG1273251
OS	L1093412-01	14	04/29/19 14:21	1	WG1273251
WW-20190424-002-DAY 1	L1092757-01	09	04/29/19 14:21	1	WG1273251

300.0 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	41.0000.TXT	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	IC-15	**Preparation Date/Time:**	05/01/19 10:37
Analytical Batch:	WG1274213	**Analysis Date/Time:**	05/01/19 10:37
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	398		0.519	1.00	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407031-1

Lab Sample ID:	R3407031-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	10.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-15	**Preparation Date/Time:**	05/01/19 00:03
Analytical Batch:	WG1274213	**Analysis Date/Time:**	05/01/19 00:03
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.:
R3407031-3

Lab Sample ID:	R3407031-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 07:30
Lab File ID:	16.0000.TXT	**Received Date/Time:**	04/24/19 12:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/01/19 04:25
Analytical Batch:	WG1274213	**Analysis Date/Time:**	05/01/19 04:25
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	13.4		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407031-6

Lab Sample ID:	R3407031-6	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 12:40
Lab File ID:	38.0000.TXT	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/01/19 09:53
Analytical Batch:	WG1274213	**Analysis Date/Time:**	05/01/19 09:53
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	1.89		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407031-2

Lab Sample ID:	R3407031-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	11.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-15	**Preparation Date/Time:**	05/01/19 00:18
Analytical Batch:	WG1274213	**Analysis Date/Time:**	05/01/19 00:18
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	41.0		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407031-4

Lab Sample ID:	R3407031-4	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 07:30
Lab File ID:	17.0000.TXT	**Received Date/Time:**	04/24/19 12:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/01/19 04:39
Analytical Batch:	WG1274213	**Analysis Date/Time:**	05/01/19 04:39
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	66.8		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407031-7

Lab Sample ID:	R3407031-7	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 12:40
Lab File ID:	39.0000.TXT	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/01/19 10:07
Analytical Batch:	WG1274213	**Analysis Date/Time:**	05/01/19 10:07
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	53.8		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407031-5

Lab Sample ID:	R3407031-5	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/24/19 07:30
Lab File ID:	18.0000.TXT	**Received Date/Time:**	04/24/19 12:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/01/19 04:54
Analytical Batch:	WG1274213	**Analysis Date/Time:**	05/01/19 04:54
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	67.2		0.0519	1	1.00

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 10:04
Instrument ID:	IC-15	**Calibration (end) date/time:**	04/22/19 11:19
Analytical Method:	300.0	**Analytical Run:**	043019_2
Concentration Units:	mg/l		

	ICV				**CCV**				**CCV**			
Sample ID:	IC-150430192348				IC-150501190539				IC-150501190838			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHLORIDE	50	50.8776	102		50	49.7757	99.60		50	49.7367	99.50	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 10:04
Instrument ID:	IC-15	**Calibration (end) date/time:**	04/22/19 11:19
Analytical Method:	300.0	**Analytical Run:**	043019_2
Concentration Units:	mg/l		

CCV

Sample ID: IC-150501191137-2

Analyte	True	Found	%R	%RSD
CHLORIDE	50	49.5328	99.10	

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

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 10:04
Instrument ID:	IC-15	**Calibration (end) date/time:**	04/22/19 11:19
Analytical Method:	300.0	**Analytical Run:**	043019_2

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		46.0000.TXT-2	
Analyte	mg/l		mg/l		mg/l		mg/l	
CHLORIDE	U		-0.1118	U	-0.1278	U	-0.1205	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3407031-4
R3407031-5

MS Sample / File ID:	R3407031-4 / 17.0000.TXT	**SDG:**	L1092757
MSD Sample / File ID:	R3407031-5 / 18.0000.TXT	**Analytical Batch:**	WG1274213
OS Sample / File ID:	L1091992-01 / 15.0000.TXT	**Matrix:**	WW
Instrument ID:	IC-15		
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	13.4	66.8	67.2	107	108	1	80.0 - 120	0.683	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

L1092757-01

SAMPLE NO.:
R3407031-7

MS Sample / File ID:	R3407031-7 / 39.0000.TXT	**SDG:**	L1092757
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1274213
OS Sample / File ID:	L1092620-05 / 37.0000.TXT	**Matrix:**	WW
Instrument ID:	IC-15		
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	1.89	53.8		104		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

L1092757-01

SAMPLE NO.:
R3407031-3

DUP Sample / File ID:	R3407031-3 / 16.0000.TXT	**SDG:**	L1092757
OS Sample / File ID:	L1091992-01 / 15.0000.TXT	**Analytical Batch:**	WG1274213
Instrument ID:	IC-15	**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	13.4	13.4	0.273	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-01

SAMPLE NO.:
R3407031-6

DUP Sample / File ID:	R3407031-6 / 38.0000.TXT	**SDG:**	L1092757
OS Sample / File ID:	L1092620-05 / 37.0000.TXT	**Analytical Batch:**	WG1274213
Instrument ID:	IC-15	**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	1.89	1.89	0.116	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

L1092757-01

SAMPLE NO.:
R3407031-2

LCS Sample / File ID:	R3407031-2 / 11.0000.TXT	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1274213
Instrument ID:	IC-15	**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	41.0		102		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:	L1092757	**Analytical Method:**	300.0
Instrument ID:	IC-15	**Calibration Start Date:**	04/22/19 10:04
Analytical Run:	042219	**Calibration End Date:**	04/22/19 11:19

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	STD 1	02.0000.TXT	04/22/19 10:04	1	
CAL	STD 2	03.0000.TXT	04/22/19 10:19	1	
CAL	STD 3	04.0000.TXT	04/22/19 10:34	1	
CAL	STD 4	05.0000.TXT	04/22/19 10:49	1	
CAL	STD 5	06.0000.TXT	04/22/19 11:04	1	
CAL	STD 6	07.0000.TXT	04/22/19 11:19	1	

12-IN

ANALYSIS LOG

SDG:	L1092757	**Analytical Method:**	300.0
Instrument ID:	IC-15	**Calibration Start Date:**	04/22/19 10:04
Analytical Run:	043019_2	**Calibration End Date:**	04/22/19 11:19

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	IC-150430192348	09.0000.TXT	04/30/19 23:48	1	
BLANK	R3407031-1	10.0000.TXT	05/01/19 00:03	1	WG1274213
LCS	R3407031-2	11.0000.TXT	05/01/19 00:18	1	WG1274213
RL	IC-150501190033	12.0000.TXT	05/01/19 00:33	1	
OS	L1091992-01	15.0000.TXT	05/01/19 04:10	1	WG1274213
DUP	R3407031-3	16.0000.TXT	05/01/19 04:25	1	WG1274213
MS	R3407031-4	17.0000.TXT	05/01/19 04:39	1	WG1274213
MSD	R3407031-5	18.0000.TXT	05/01/19 04:54	1	WG1274213
CCV	IC-150501190539	21.0000.TXT	05/01/19 05:39	1	
CCB	IC-150501190554	22.0000.TXT	05/01/19 05:54	1	
CCV	IC-150501190838	33.0000.TXT	05/01/19 08:38	1	
CCB	IC-150501190853	34.0000.TXT	05/01/19 08:53	1	
OS	L1092620-05	37.0000.TXT	05/01/19 09:38	1	WG1274213
DUP	R3407031-6	38.0000.TXT	05/01/19 09:53	1	WG1274213
MS	R3407031-7	39.0000.TXT	05/01/19 10:07	1	WG1274213
WW-20190424-002-DAY 1	L1092757-01	41.0000.TXT	05/01/19 10:37	10	WG1274213
CCV	IC-150501191137-2	45.0000.TXT-2	05/01/19 11:37	1	
CCB	IC-150501191152-2	46.0000.TXT-2	05/01/19 11:52	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 10:04
Instrument ID:	IC-15	**Calibration (end) date/time:**	04/22/19 11:19
Analytical Method:	300.0	**Analytical Run:**	043019_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHLORIDE	1	.9639	96.40	5	5.3283	107
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 10:04
Instrument ID:	IC-15	**Calibration (end) date/time:**	04/22/19 11:19
Analytical Method:	300.0	**Analytical Run:**	043019_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHLORIDE	10	9.9107	99.10	25	24.3797	97.50
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 10:04
Instrument ID:	IC-15	**Calibration (end) date/time:**	04/22/19 11:19
Analytical Method:	300.0	**Analytical Run:**	043019_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHLORIDE	50	50.0007	100	100	100.4167	100
File ID:		06.0000.TXT			07.0000.TXT	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 10:04
Instrument ID:	IC-15	**Calibration (end) date/time:**	04/22/19 11:19
Analytical Method:	300.0	**Analytical Run:**	043019_2

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHLORIDE	5	1	0.99988			0.071	0.013	4.625

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-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190501090500	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/01/19 09:05
Analytical Batch:	WG1274236	**Analysis Date/Time:**	05/01/19 09:05
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	U		0.0317	0.100	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406941-1

Lab Sample ID:	R3406941-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20190501082100	**Received Date/Time:**	
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/01/19 08:21
Analytical Batch:	WG1274236	**Analysis Date/Time:**	05/01/19 08:21
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.:
R3406941-2

Lab Sample ID:	R3406941-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20190501082200	**Received Date/Time:**	
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/01/19 08:22
Analytical Batch:	WG1274236	**Analysis Date/Time:**	05/01/19 08:22
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	7.41		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406941-3

Lab Sample ID:	R3406941-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/18/19 07:15
Lab File ID:	20190501082500	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/01/19 08:25
Analytical Batch:	WG1274236	**Analysis Date/Time:**	05/01/19 08:25
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	1.23		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406941-6

Lab Sample ID:	R3406941-6	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 10:30
Lab File ID:	20190501085100	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/01/19 08:51
Analytical Batch:	WG1274236	**Analysis Date/Time:**	05/01/19 08:51
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.:
R3406941-4

Lab Sample ID:	R3406941-4	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/19/19 07:22
Lab File ID:	20190501082900	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/01/19 08:29
Analytical Batch:	WG1274236	**Analysis Date/Time:**	05/01/19 08:29
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	5.88		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406941-7

Lab Sample ID:	R3406941-7	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 12:35
Lab File ID:	20190501085400	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/01/19 08:54
Analytical Batch:	WG1274236	**Analysis Date/Time:**	05/01/19 08:54
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	4.95		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406941-5

Lab Sample ID:	R3406941-5	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/19/19 07:22
Lab File ID:	20190501083000	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/01/19 08:30
Analytical Batch:	WG1274236	**Analysis Date/Time:**	05/01/19 08:30
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	6.14	J5	0.0317	0.10	0.100

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 09:49
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	04/29/19 09:57
Analytical Method:	350.1	**Analytical Run:**	050119_1
Concentration Units:	mg/l		

	ICV				**CCV**				**CCV**			
Sample ID:	FS3100-010501190819				FS3100-010501190837				FS3100-010501190857			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
AMMONIA NITROGEN	5	4.998	100		5	4.810	96.20		5	4.815	96.30	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 09:49
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	04/29/19 09:57
Analytical Method:	350.1	**Analytical Run:**	050119_1
Concentration Units:	mg/l		

CCV

Sample ID: FS3100-010501190913

Analyte	True	Found	%R	%RSD
AMMONIA NITROGEN	5	4.765	95.30	

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

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 09:49
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	04/29/19 09:57
Analytical Method:	350.1	**Analytical Run:**	050119_1

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190501082100		20190501083800		20190501085900		20190501091500	
Analyte	mg/l		mg/l		mg/l		mg/l	
AMMONIA NITROGEN	U		-0.1150		-0.1140		-0.1130	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406941-4
R3406941-5

MS Sample / File ID:	R3406941-4 / 20190501082900	**SDG:**	L1092757
MSD Sample / File ID:	R3406941-5 / 20190501083000	**Analytical Batch:**	WG1274236
OS Sample / File ID:	L1092326-02 / 20190501082700	**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	0.375	5.88	6.14	110	115*	1	90.0 - 110	4.39	10

*: Value outside the established quality control limits.

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

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406941-7

MS Sample / File ID:	R3406941-7 / 20190501085400	**SDG:**	L1092757
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1274236
OS Sample / File ID:	L1092330-02 / 20190501085200	**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	U	4.95		99.0		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

L1092757-01

SAMPLE NO.:
R3406941-3

DUP Sample / File ID:	R3406941-3 / 20190501082500	**SDG:**	L1092757
OS Sample / File ID:	L1092326-01 / 20190501082400	**Analytical Batch:**	WG1274236
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	1.24	1.23	0.728	10

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-01

SAMPLE NO.:
R3406941-6

DUP Sample / File ID:	R3406941-6 / 20190501085100	**SDG:**	L1092757
OS Sample / File ID:	L1092330-01 / 20190501084900	**Analytical Batch:**	WG1274236
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	U	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.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1092757-01

SAMPLE NO.:
R3406941-2

LCS Sample / File ID:	R3406941-2 / 20190501082200	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1274236
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	7.41		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:	L1092757	**Analytical Method:**	350.1
Instrument ID:	FS3100-01	**Calibration Start Date:**	04/29/19 09:49
Analytical Run:	042919_1	**Calibration End Date:**	04/29/19 09:57

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	10.0	20190429094900	04/29/19 09:49	1	
CAL	5.00	20190429095100	04/29/19 09:51	1	
CAL	2.50	20190429095200	04/29/19 09:52	1	
CAL	1.00	20190429095400	04/29/19 09:54	1	
CAL	0.10	20190429095500	04/29/19 09:55	1	
CAL	0.00	20190429095700	04/29/19 09:57	1	

12-IN

ANALYSIS LOG

SDG:	L1092757	**Analytical Method:**	350.1
Instrument ID:	FS3100-01	**Calibration Start Date:**	04/29/19 09:49
Analytical Run:	050119_1	**Calibration End Date:**	04/29/19 09:57

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	FS3100-010501190819	20190501081900	05/01/19 08:19	1	
BLANK	R3406941-1	20190501082100	05/01/19 08:21	1	WG1274236
LCS	R3406941-2	20190501082200	05/01/19 08:22	1	WG1274236
OS	L1092326-01	20190501082400	05/01/19 08:24	1	WG1274236
DUP	R3406941-3	20190501082500	05/01/19 08:25	1	WG1274236
OS	L1092326-02	20190501082700	05/01/19 08:27	1	WG1274236
MS	R3406941-4	20190501082900	05/01/19 08:29	1	WG1274236
MSD	R3406941-5	20190501083000	05/01/19 08:30	1	WG1274236
CCV	FS3100-010501190837	20190501083700	05/01/19 08:37	1	
CCB	FS3100-010501190838	20190501083800	05/01/19 08:38	1	
OS	L1092330-01	20190501084900	05/01/19 08:49	1	WG1274236
DUP	R3406941-6	20190501085100	05/01/19 08:51	1	WG1274236
OS	L1092330-02	20190501085200	05/01/19 08:52	1	WG1274236
MS	R3406941-7	20190501085400	05/01/19 08:54	1	WG1274236
CCV	FS3100-010501190857	20190501085700	05/01/19 08:57	1	
CCB	FS3100-010501190859	20190501085900	05/01/19 08:59	1	
WW-20190424-002-DAY 1	L1092757-01	20190501090500	05/01/19 09:05	1	WG1274236
CCV	FS3100-010501190913	20190501091300	05/01/19 09:13	1	
CCB	FS3100-010501190915	20190501091500	05/01/19 09:15	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 09:49
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	04/29/19 09:57
Analytical Method:	350.1	**Analytical Run:**	050119_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	10	9.889	98.90	5	5.18	104
File ID:		20190429094900			20190429095100	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 09:49
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	04/29/19 09:57
Analytical Method:	350.1	**Analytical Run:**	050119_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	2.50	2.585	103	1	1	100
File ID:		20190429095200			20190429095400	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 09:49
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	04/29/19 09:57
Analytical Method:	350.1	**Analytical Run:**	050119_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	0.10	.059	59	0	-.114	
File ID:		20190429095500			20190429095700	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 09:49
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	04/29/19 09:57
Analytical Method:	350.1	**Analytical Run:**	050119_1

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
AMMONIA NITROGEN	0	5	0.999555			80917	9289.3	

Calibration Type

0 = Linear Regression

Weightage

5 = None

351.2 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430165624	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1273665	**Analysis Date/Time:**	04/30/19 16:56
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	0.434	B J6	0.0350	0.250	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406820-1

Lab Sample ID:	R3406820-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190430164914	**Received Date/Time:**	_____
Instrument ID:	LACHAT6	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1273665	**Analysis Date/Time:**	04/30/19 16:49
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	0.221	J	0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406820-2

Lab Sample ID:	R3406820-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190430165026	**Received Date/Time:**	_____
Instrument ID:	LACHAT6	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1273665	**Analysis Date/Time:**	04/30/19 16:50
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	10.1		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406820-5

Lab Sample ID:	R3406820-5	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/27/19 12:30
Lab File ID:	20190430170333	**Received Date/Time:**	04/28/19 09:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1273665	**Analysis Date/Time:**	04/30/19 17:03
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	0.455		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406820-3

Lab Sample ID:	R3406820-3	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430165735	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1273665	**Analysis Date/Time:**	04/30/19 16:57
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	5.05		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406820-4

Lab Sample ID:	R3406820-4	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430165847	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1273665	**Analysis Date/Time:**	04/30/19 16:58
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	4.76	J6	0.0350	0.25	0.250

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**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:**	R043019_1
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT6043019164803				LACHAT6043019170110				LACHAT6043019170706			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
KJELDAHL NITROGEN, TKN	10	10.60	106		10	10.70	107		10	10.60	106	

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

3-IN BLANKS

SDG:	L1092757	**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:**	R043019_1

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190430164914		20190430170223		20190430170818	
Analyte	mg/l		mg/L		mg/L	
KJELDAHL NITROGEN, TKN	0.221	J	0.1400		0.03110	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406820-3
R3406820-4

MS Sample / File ID:	R3406820-3 / 20190430165735	**SDG:**	L1092757
MSD Sample / File ID:	R3406820-4 / 20190430165847	**Analytical Batch:**	WG1273665
OS Sample / File ID:	L1092757-01 / 20190430165624	**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	0.434	5.05	4.76	92.3	86.5*	1	90.0 - 110	5.91	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-01

SAMPLE NO.:
R3406820-5

DUP Sample / File ID:	R3406820-5 / 20190430170333	**SDG:**	L1092757
OS Sample / File ID:	L1093435-01 / 20190430165957	**Analytical Batch:**	WG1273665
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	0.456	0.455	0.220	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

L1092757-01

SAMPLE NO.:
R3406820-2

LCS Sample / File ID:	R3406820-2 / 20190430165026	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1273665
Instrument ID:	LACHAT6	**Dilution Factor:**	1
Analytical Method:	351.2	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Kjeldahl Nitrogen, TKN	10.0	10.1		101		90.0 - 110		

*: Value outside the established quality control limits.

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

12-IN

ANALYSIS LOG

SDG:	L1092757	**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:	L1092757	**Analytical Method:**	351.2
Instrument ID:	LACHAT6	**Calibration Start Date:**	04/08/19 13:21
Analytical Run:	R043019_1	**Calibration End Date:**	04/08/19 13:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT6043019164803	20190430164803	04/30/19 16:48	1	
BLANK	R3406820-1	20190430164914	04/30/19 16:49	1	WG1273665
LCS	R3406820-2	20190430165026	04/30/19 16:50	1	WG1273665
WW-20190424-002-DAY 1	L1092757-01	20190430165624	04/30/19 16:56	1	WG1273665
MS	R3406820-3	20190430165735	04/30/19 16:57	1	WG1273665
MSD	R3406820-4	20190430165847	04/30/19 16:58	1	WG1273665
OS	L1093435-01	20190430165957	04/30/19 16:59	1	WG1273665
CCV	LACHAT6043019170110	20190430170110	04/30/19 17:01	1	
CCB	LACHAT6043019170223	20190430170223	04/30/19 17:02	1	
DUP	R3406820-5	20190430170333	04/30/19 17:03	1	WG1273665
CCV	LACHAT6043019170706	20190430170706	04/30/19 17:07	1	
CCB	LACHAT6043019170818	20190430170818	04/30/19 17:08	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**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:**	R043019_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:	L1092757	**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:**	R043019_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:	L1092757	**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:**	R043019_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:	L1092757	**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:**	R043019_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:	L1092757	**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:**	R043019_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-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430164254	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1274005	**Analysis Date/Time:**	04/30/19 16:42
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	0.419	B J6	0.0350	0.100	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406812-1

Lab Sample ID:	R3406812-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190430161953	**Received Date/Time:**	_____
Instrument ID:	LACHAT3	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1274005	**Analysis Date/Time:**	04/30/19 16:19
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	0.0642	J	0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406812-2

Lab Sample ID:	R3406812-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190430162110	**Received Date/Time:**	_____
Instrument ID:	LACHAT3	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1274005	**Analysis Date/Time:**	04/30/19 16:21
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	1.84		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406812-3

Lab Sample ID:	R3406812-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/23/19 10:20
Lab File ID:	20190430162342	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1274005	**Analysis Date/Time:**	04/30/19 16:23
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	0.186		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406812-6

Lab Sample ID:	R3406812-6	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/27/19 12:30
Lab File ID:	20190430165036	**Received Date/Time:**	04/28/19 09:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1274005	**Analysis Date/Time:**	04/30/19 16:50
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	0.526		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406812-4

Lab Sample ID:	R3406812-4	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430164412	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1274005	**Analysis Date/Time:**	04/30/19 16:44
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	2.53	J6	0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406812-5

Lab Sample ID:	R3406812-5	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430164528	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	04/30/19 12:00
Analytical Batch:	WG1274005	**Analysis Date/Time:**	04/30/19 16:45
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	2.88		0.0350	0.10	0.100

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R043019_4
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT3043019161836				LACHAT3043019163238				LACHAT3043019164802			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
PHOSPHORUS,TOTAL	2.50	2.580	103		2.50	2.600	104		2.50	2.610	104	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R043019_4
Concentration Units:	mg/L		

CCV

Sample ID: LACHAT3043019165153

Analyte	True	Found	%R	%RSD
PHOSPHORUS,TOTAL	2.50	2.610	104	

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

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R043019_4

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190430161953		20190430163356		20190430164919		20190430165657	
Analyte	mg/l		mg/L		mg/L		mg/L	
PHOSPHORUS,TOTAL	0.0642	J	0.03300		0.03720		0.01860	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406812-4
R3406812-5

MS Sample / File ID:	R3406812-4 / 20190430164412	**SDG:**	L1092757
MSD Sample / File ID:	R3406812-5 / 20190430164528	**Analytical Batch:**	WG1274005
OS Sample / File ID:	L1092757-01 / 20190430164254	**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	0.419	2.53	2.88	84.4*	98.4	1	90.0 - 110	12.9	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-01

SAMPLE NO.:
R3406812-3

DUP Sample / File ID:	R3406812-3 / 20190430162342	**SDG:**	L1092757
OS Sample / File ID:	L1092432-02 / 20190430162226	**Analytical Batch:**	WG1274005
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	0.179	0.186	3.84	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-01

SAMPLE NO.:
R3406812-6

DUP Sample / File ID:	R3406812-6 / 20190430165036	**SDG:**	L1092757
OS Sample / File ID:	L1093435-01 / 20190430164645	**Analytical Batch:**	WG1274005
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	0.504	0.526	4.27	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

L1092757-01

SAMPLE NO.:
R3406812-2

LCS Sample / File ID:	R3406812-2 / 20190430162110	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1274005
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	1.84		92.0		90.0 - 110		

*: Value outside the established quality control limits.

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

12-IN

ANALYSIS LOG

SDG:	L1092757	**Analytical Method:**	365.4
Instrument ID:	LACHAT3	**Calibration Start Date:**	04/09/19 13:38
Analytical Run:	CAL040919_1	**Calibration End Date:**	04/09/19 13:44

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

12-IN

ANALYSIS LOG

SDG:	L1092757	**Analytical Method:**	365.4
Instrument ID:	LACHAT3	**Calibration Start Date:**	04/09/19 13:38
Analytical Run:	R043019_4	**Calibration End Date:**	04/09/19 13:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT3043019161836	20190430161836	04/30/19 16:18	1	
BLANK	R3406812-1	20190430161953	04/30/19 16:19	1	WG1274005
LCS	R3406812-2	20190430162110	04/30/19 16:21	1	WG1274005
OS	L1092432-02	20190430162226	04/30/19 16:22	1	WG1274005
DUP	R3406812-3	20190430162342	04/30/19 16:23	1	WG1274005
CCV	LACHAT3043019163238	20190430163238	04/30/19 16:32	1	
CCB	LACHAT3043019163356	20190430163356	04/30/19 16:33	1	
WW-20190424-002-DAY 1	L1092757-01	20190430164254	04/30/19 16:42	1	WG1274005
MS	R3406812-4	20190430164412	04/30/19 16:44	1	WG1274005
MSD	R3406812-5	20190430164528	04/30/19 16:45	1	WG1274005
OS	L1093435-01	20190430164645	04/30/19 16:46	1	WG1274005
CCV	LACHAT3043019164802	20190430164802	04/30/19 16:48	1	
CCB	LACHAT3043019164919	20190430164919	04/30/19 16:49	1	
DUP	R3406812-6	20190430165036	04/30/19 16:50	1	WG1274005
CCV	LACHAT3043019165153	20190430165153	04/30/19 16:51	1	
CCB	LACHAT3043019165657	20190430165657	04/30/19 16:56	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R043019_4

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

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R043019_4

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

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R043019_4

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

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/09/19 13:38
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	04/09/19 13:44
Analytical Method:	365.4	**Analytical Run:**	R043019_4

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

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

410.4 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430140345	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 10:30
Analytical Batch:	WG1273673	**Analysis Date/Time:**	04/30/19 14:03
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	40.5		3.00	10.0	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406707-1

Lab Sample ID:	R3406707-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190430135938	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 10:30
Analytical Batch:	WG1273673	**Analysis Date/Time:**	04/30/19 13:59
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.:
R3406707-2

Lab Sample ID:	R3406707-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190430135951	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 10:30
Analytical Batch:	WG1273673	**Analysis Date/Time:**	04/30/19 13:59
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	207		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406707-3

Lab Sample ID:	R3406707-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 07:22
Lab File ID:	20190430140016	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 10:30
Analytical Batch:	WG1273673	**Analysis Date/Time:**	04/30/19 14:00
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	7.88		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406707-6

Lab Sample ID:	R3406707-6	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/27/19 12:30
Lab File ID:	20190430140417	**Received Date/Time:**	04/28/19 09:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 10:30
Analytical Batch:	WG1273673	**Analysis Date/Time:**	04/30/19 14:04
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	30.6		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406707-4

Lab Sample ID:	R3406707-4	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 07:30
Lab File ID:	20190430140219	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 10:30
Analytical Batch:	WG1273673	**Analysis Date/Time:**	04/30/19 14:02
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	407		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406707-5

Lab Sample ID:	R3406707-5	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/24/19 07:30
Lab File ID:	20190430140226	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 10:30
Analytical Batch:	WG1273673	**Analysis Date/Time:**	04/30/19 14:02
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	404		3.00	10	10.0

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**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:**	WG1273673
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	DR6000-1043019135931				DR6000-1043019140119				DR6000-1043019140259			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
COD	400	393.38	98.30		400	391.01	97.80		400	394.81	98.70	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**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:**	WG1273673
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-1043019140424

Analyte	True	Found	%R	%RSD
COD	400	396.78	99.20	

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

3-IN BLANKS

SDG:	L1092757	**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:**	WG1273673

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190430135938		20190430140125		20190430140306		20190430140431	
Analyte	mg/l		mg/L		mg/L		mg/L	
COD	U		-5.793		-3.970		-3.751	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406707-4
R3406707-5

MS Sample / File ID:	R3406707-4 / 20190430140219	**SDG:**	L1092757
MSD Sample / File ID:	R3406707-5 / 20190430140226	**Analytical Batch:**	WG1273673
OS Sample / File ID:	L1092394-06 / 20190430140152	**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	407	404	102	101	1	80.0 - 120	0.619	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-01

SAMPLE NO.:
R3406707-3

DUP Sample / File ID:	R3406707-3 / 20190430140016	**SDG:**	L1092757
OS Sample / File ID:	L1092327-01 / 20190430135957	**Analytical Batch:**	WG1273673
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	ND	7.88	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

L1092757-01

SAMPLE NO.:
R3406707-6

DUP Sample / File ID:	R3406707-6 / 20190430140417	**SDG:**	L1092757
OS Sample / File ID:	L1093435-01 / 20190430140412	**Analytical Batch:**	WG1273673
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	33.1	30.6	7.98	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

L1092757-01

SAMPLE NO.:
R3406707-2

LCS Sample / File ID:	R3406707-2 / 20190430135951	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1273673
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	207		93.0		90.0 - 110		

*: Value outside the established quality control limits.

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

12-IN

ANALYSIS LOG

SDG:	L1092757	**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:	L1092757	**Analytical Method:**	410.4
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/21/19 11:00
Analytical Run:	WG1273673	**Calibration End Date:**	02/21/19 11:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-1043019135931	20190430135931	04/30/19 13:59	1	
BLANK	R3406707-1	20190430135938	04/30/19 13:59	1	WG1273673
LCS	R3406707-2	20190430135951	04/30/19 13:59	1	WG1273673
OS	L1092327-01	20190430135957	04/30/19 13:59	1	WG1273673
DUP	R3406707-3	20190430140016	04/30/19 14:00	1	WG1273673
CCV	DR6000-1043019140119	20190430140119	04/30/19 14:01	1	
CCB	DR6000-1043019140125	20190430140125	04/30/19 14:01	1	
OS	L1092394-06	20190430140152	04/30/19 14:01	1	WG1273673
MS	R3406707-4	20190430140219	04/30/19 14:02	1	WG1273673
MSD	R3406707-5	20190430140226	04/30/19 14:02	1	WG1273673
CCV	DR6000-1043019140259	20190430140259	04/30/19 14:02	1	
CCB	DR6000-1043019140306	20190430140306	04/30/19 14:03	1	
WW-20190424-002-DAY 1	L1092757-01	20190430140345	04/30/19 14:03	1	WG1273673
OS	L1093435-01	20190430140412	04/30/19 14:04	1	WG1273673
DUP	R3406707-6	20190430140417	04/30/19 14:04	1	WG1273673
CCV	DR6000-1043019140424	20190430140424	04/30/19 14:04	1	
CCB	DR6000-1043019140431	20190430140431	04/30/19 14:04	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**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:**	WG1273673

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:	L1092757	**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:**	WG1273673

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:	L1092757	**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:**	WG1273673

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:	L1092757	**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:**	WG1273673

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-20190424-002-DAY 1

Lab Sample ID:	L1092757-02	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190501125236	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/01/19 08:40
Analytical Batch:	WG1273663	**Analysis Date/Time:**	05/01/19 12:52
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	0.00732		0.00180	0.00500	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407070-1

Lab Sample ID:	R3407070-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190501121944	**Received Date/Time:**	_____
Instrument ID:	LACHAT4	**Preparation Date/Time:**	04/30/19 08:13
Analytical Batch:	WG1273663	**Analysis Date/Time:**	05/01/19 12:19
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

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

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407070-2

Lab Sample ID:	R3407070-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190501122046	**Received Date/Time:**	_____
Instrument ID:	LACHAT4	**Preparation Date/Time:**	04/30/19 08:13
Analytical Batch:	WG1273663	**Analysis Date/Time:**	05/01/19 12:20
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	0.0983		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407070-3

Lab Sample ID:	R3407070-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/23/19 09:12
Lab File ID:	20190501122451	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/01/19 08:40
Analytical Batch:	WG1273663	**Analysis Date/Time:**	05/01/19 12:24
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

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

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407070-6

Lab Sample ID:	R3407070-6	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/22/19 10:00
Lab File ID:	20190501124114	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/01/19 08:40
Analytical Batch:	WG1273663	**Analysis Date/Time:**	05/01/19 12:41
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.:
R3407070-4

Lab Sample ID:	R3407070-4	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/23/19 09:50
Lab File ID:	20190501122755	**Received Date/Time:**	04/24/19 08:00
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/01/19 08:40
Analytical Batch:	WG1273663	**Analysis Date/Time:**	05/01/19 12:27
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.0951		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407070-7

Lab Sample ID:	R3407070-7	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/22/19 10:42
Lab File ID:	20190501124521	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/01/19 08:40
Analytical Batch:	WG1273663	**Analysis Date/Time:**	05/01/19 12:45
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	0.0685	J6	0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407070-5

Lab Sample ID:	R3407070-5	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/23/19 09:50
Lab File ID:	20190501122856	**Received Date/Time:**	04/24/19 08:00
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/01/19 08:40
Analytical Batch:	WG1273663	**Analysis Date/Time:**	05/01/19 12:28
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	0.0900		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407070-8

Lab Sample ID:	R3407070-8	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/22/19 10:42
Lab File ID:	20190501124623	**Received Date/Time:**	04/24/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/01/19 08:40
Analytical Batch:	WG1273663	**Analysis Date/Time:**	05/01/19 12:46
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	0.0836		0.00180	0.0050	0.00500

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:13
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	04/30/19 16:19
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050119_1
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT4050119121842				LACHAT4050119122957				LACHAT4050119124216			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CYANIDE	0.10	0.1030	103		0.10	0.1020	102		0.10	0.1040	104	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:13
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	04/30/19 16:19
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050119_1
Concentration Units:	mg/L		

CCV

Sample ID: LACHAT4050119125438

Analyte	True	Found	%R	%RSD
CYANIDE	0.10	0.1040	104	

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

3-IN BLANKS

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:13
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	04/30/19 16:19
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050119_1

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190501121944		20190501123059		20190501124318		20190501125539	
Analyte	mg/l		mg/L		mg/L		mg/L	
CYANIDE	U		0.0003730		-0.0003410		0.00005470	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-02

SAMPLE NO.:
R3407070-4
R3407070-5

MS Sample / File ID:	R3407070-4 / 20190501122755	**SDG:**	L1092757
MSD Sample / File ID:	R3407070-5 / 20190501122856	**Analytical Batch:**	WG1273663
OS Sample / File ID:	L1091812-02 / 20190501122654	**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	0.00679	0.0951	0.0900	88.3	83.2	1	75.0 - 125	5.51	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

L1092757-02

SAMPLE NO.:
R3407070-7
R3407070-8

MS Sample / File ID:	R3407070-7 / 20190501124521	**SDG:**	L1092757
MSD Sample / File ID:	R3407070-8 / 20190501124623	**Analytical Batch:**	WG1273663
OS Sample / File ID:	L1092021-04 / 20190501124419	**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	U	0.0685	0.0836	68.5*	83.6	1	75.0 - 125	19.9	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-02

SAMPLE NO.:
R3407070-3

DUP Sample / File ID:	R3407070-3 / 20190501122451	**SDG:**	L1092757
OS Sample / File ID:	L1091805-02 / 20190501122350	**Analytical Batch:**	WG1273663
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

L1092757-02

SAMPLE NO.:
R3407070-6

DUP Sample / File ID:	R3407070-6 / 20190501124114	**SDG:**	L1092757
OS Sample / File ID:	L1092021-03 / 20190501124013	**Analytical Batch:**	WG1273663
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	U	0.000	0.000	20

*: Value outside the established quality control limits.

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

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1092757-02

SAMPLE NO.:
R3407070-2

LCS Sample / File ID:	R3407070-2 / 20190501122046	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1273663
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	0.0983		98.3		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:	L1092757	**Analytical Method:**	4500CN E-2011
Instrument ID:	LACHAT4	**Calibration Start Date:**	04/30/19 16:13
Analytical Run:	CAL043019_3	**Calibration End Date:**	04/30/19 16:19

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.2	20190430161324	04/30/19 16:13	1	
CAL	0.1	20190430161426	04/30/19 16:14	1	
CAL	0.05	20190430161527	04/30/19 16:15	1	
CAL	0.01	20190430161628	04/30/19 16:16	1	
CAL	0.005	20190430161729	04/30/19 16:17	1	
CAL	0.0025	20190430161830	04/30/19 16:18	1	
CAL	0.00	20190430161931	04/30/19 16:19	1	

12-IN

ANALYSIS LOG

SDG:	L1092757	**Analytical Method:**	4500CN E-2011
Instrument ID:	LACHAT4	**Calibration Start Date:**	04/30/19 16:13
Analytical Run:	R050119_1	**Calibration End Date:**	04/30/19 16:19

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT4050119121842	20190501121842	05/01/19 12:18	1	
BLANK	R3407070-1	20190501121944	05/01/19 12:19	1	WG1273663
LCS	R3407070-2	20190501122046	05/01/19 12:20	1	WG1273663
OS	L1091805-02	20190501122350	05/01/19 12:23	1	WG1273663
DUP	R3407070-3	20190501122451	05/01/19 12:24	1	WG1273663
OS	L1091812-02	20190501122654	05/01/19 12:26	1	WG1273663
MS	R3407070-4	20190501122755	05/01/19 12:27	1	WG1273663
MSD	R3407070-5	20190501122856	05/01/19 12:28	1	WG1273663
CCV	LACHAT4050119122957	20190501122957	05/01/19 12:29	1	
CCB	LACHAT4050119123059	20190501123059	05/01/19 12:30	1	
OS	L1092021-03	20190501124013	05/01/19 12:40	1	WG1273663
DUP	R3407070-6	20190501124114	05/01/19 12:41	1	WG1273663
CCV	LACHAT4050119124216	20190501124216	05/01/19 12:42	1	
CCB	LACHAT4050119124318	20190501124318	05/01/19 12:43	1	
OS	L1092021-04	20190501124419	05/01/19 12:44	1	WG1273663
MS	R3407070-7	20190501124521	05/01/19 12:45	1	WG1273663
MSD	R3407070-8	20190501124623	05/01/19 12:46	1	WG1273663
WW-20190424-002-DAY 1	L1092757-02	20190501125236	05/01/19 12:52	1	WG1273663
CCV	LACHAT4050119125438	20190501125438	05/01/19 12:54	1	
CCB	LACHAT4050119125539	20190501125539	05/01/19 12:55	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:13
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	04/30/19 16:19
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050119_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
CYANIDE	0.20	.196959	98.50	0.10	.098679	98.70
File ID:		20190430161324			20190430161426	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:13
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	04/30/19 16:19
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050119_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
CYANIDE	0.05	.050709	101	0.01	.012723	127
File ID:		20190430161527			20190430161628	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:13
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	04/30/19 16:19
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050119_1

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
CYANIDE	0.0050	.004884	97.70	0.0025	.0028677	115
File ID:		20190430161729			20190430161830	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:13
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	04/30/19 16:19
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050119_1

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%
CYANIDE	0	-.000927	
File ID:		20190430161931	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 16:13
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	04/30/19 16:19
Analytical Method:	4500CN E-2011	**Analytical Run:**	R050119_1

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CYANIDE	5	1	0.99978			0.039	-0.000381	

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-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430163059	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 16:30
Analytical Batch:	WG1273657	**Analysis Date/Time:**	04/30/19 16:30
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.:
R3406811-1

Lab Sample ID:	R3406811-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190430162948	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 16:29
Analytical Batch:	WG1273657	**Analysis Date/Time:**	04/30/19 16:29
Dilution Factor:	1	**Prep Method:**	4500S2-D
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.:
R3406811-3

Lab Sample ID:	R3406811-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190430163105	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 16:31
Analytical Batch:	WG1273657	**Analysis Date/Time:**	04/30/19 16:31
Dilution Factor:	1	**Prep Method:**	4500S2-D
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.:
R3406811-2

Lab Sample ID:	R3406811-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190430163015	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 16:30
Analytical Batch:	WG1273657	**Analysis Date/Time:**	04/30/19 16:30
Dilution Factor:	1	**Prep Method:**	4500S2-D
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	0.548		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406811-4

Lab Sample ID:	R3406811-4	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/27/19 12:30
Lab File ID:	20190430165556	**Received Date/Time:**	04/28/19 09:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 16:55
Analytical Batch:	WG1273657	**Analysis Date/Time:**	04/30/19 16:55
Dilution Factor:	1	**Prep Method:**	4500S2-D
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	0.764	J6	0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406811-5

Lab Sample ID:	R3406811-5	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/27/19 12:30
Lab File ID:	20190430165602	**Received Date/Time:**	04/28/19 09:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	04/30/19 16:56
Analytical Batch:	WG1273657	**Analysis Date/Time:**	04/30/19 16:56
Dilution Factor:	1	**Prep Method:**	4500S2-D
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	0.764	J6	0.00650	0.05	0.0500

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**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:**	WG1273657
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	DR6000-1043019162937				DR6000-1043019165314				DR6000-1043019165618			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
REACTIVE SULFIDE	1	1.002	100		1	0.9440	94.40		1	0.9410	94.10	
SULFIDE	1	1.002	100		1	0.9440	94.40		1	0.9410	94.10	

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

3-IN BLANKS

SDG:	L1092757	**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:**	WG1273657

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**
File ID:	20190430165322		20190430165627		20190430162948	
Analyte	mg/L		mg/L		mg/l	
REACTIVE SULFIDE	-0.05800		-0.06000			
SULFIDE	-0.05800		-0.06000		U	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406811-4
R3406811-5

MS Sample / File ID:	R3406811-4 / 20190430165556	**SDG:**	L1092757
MSD Sample / File ID:	R3406811-5 / 20190430165602	**Analytical Batch:**	WG1273657
OS Sample / File ID:	L1093435-01 / 20190430165547	**Matrix:**	WW
Instrument ID:	DR6000-1		
Analytical Method:	4500S2 D-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Sulfide	1.00	U	0.764	0.764	76.4*	76.4*	1	80.0 - 120	0.000	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-01

SAMPLE NO.:
R3406811-3

DUP Sample / File ID:	R3406811-3 / 20190430163105	**SDG:**	L1092757
OS Sample / File ID:	L1092757-01 / 20190430163059	**Analytical Batch:**	WG1273657
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	4500S2 D-2011	**Matrix:**	WW

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

*: Value outside the established quality control limits.

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

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1092757-01

SAMPLE NO.:
R3406811-2

LCS Sample / File ID:	R3406811-2 / 20190430163015	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1273657
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	0.548		110		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:	L1092757	**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:	L1092757	**Analytical Method:**	4500S2 D-2011
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/20/19 14:30
Analytical Run:	WG1273657	**Calibration End Date:**	02/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-1043019162937	20190430162937	04/30/19 16:29	1	
BLANK	R3406811-1	20190430162948	04/30/19 16:29	1	WG1273657
LCS	R3406811-2	20190430163015	04/30/19 16:30	1	WG1273657
WW-20190424-002-DAY 1	L1092757-01	20190430163059	04/30/19 16:30	1	WG1273657
DUP	R3406811-3	20190430163105	04/30/19 16:31	1	WG1273657
CCV	DR6000-1043019165314	20190430165314	04/30/19 16:53	1	
CCB	DR6000-1043019165322	20190430165322	04/30/19 16:53	1	
OS	L1093435-01	20190430165547	04/30/19 16:55	1	WG1273657
MS	R3406811-4	20190430165556	04/30/19 16:55	1	WG1273657
MSD	R3406811-5	20190430165602	04/30/19 16:56	1	WG1273657
CCV	DR6000-1043019165618	20190430165618	04/30/19 16:56	1	
CCB	DR6000-1043019165627	20190430165627	04/30/19 16:56	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**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:**	WG1273657

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:	L1092757	**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:**	WG1273657

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:	L1092757	**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:**	WG1273657

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:	L1092757	**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:**	WG1273657

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

Calibration Type

0 = Linear Regression

Weightage

5 = None

504.1 EDB / DBCP

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406810-3

MS Sample / File ID:	R3406810-3 / 0430_08	**SDG:**	L1092757
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1273265
OS Sample / File ID:	L1092330-02 / 0430_09	**Matrix:**	WW
Instrument ID:	SVGC23		
Analytical Method:	504.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Ethylene Dibromide	0.000100	U	0.000105		105		1	70.0 - 130		
1,2-Dibromo-3-Chloropropane	0.000100	U	0.000108		108		1	70.0 - 130		

*: Value outside the established quality control limits.

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

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-07,08,09

SAMPLE NO.:
R3410070-2

MS Sample / File ID:	R3410070-2 / 0509_06	**SDG:**	L1092757
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1278415
OS Sample / File ID:	L1096610-02 / 0509_07	**Matrix:**	GW
Instrument ID:	SVGC23		
Analytical Method:	504.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Ethylene Dibromide	0.000100	U	0.000115		115		1	70.0 - 130		
1,2-Dibromo-3-Chloropropane	0.000100	U	0.000110		110		1	70.0 - 130		

*: Value outside the established quality control limits.

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

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1092757-01

SAMPLE NO.:
R3406810-4
R3406810-5

LCS Sample / File ID:	R3406810-4 / 0430_11LFB	**SDG:**	L1092757
LCSD Sample / File ID:	R3406810-5 / 0430_12LFBD	**Analytical Batch:**	WG1273265
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	0.000265	0.000264	106	106	70.0 - 130	0.378	20
1,2-Dibromo-3-Chloropropane	0.000250	0.000293	0.000290	117	116	70.0 - 130	1.03	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

L1092757-07,08,09

SAMPLE NO.:
R3410070-4
R3410070-5

LCS Sample / File ID:	R3410070-4 / 0509_19LFB	**SDG:**	L1092757
LCSD Sample / File ID:	R3410070-5 / 0509_31LFBD	**Analytical Batch:**	WG1278415
Instrument ID:	SVGC23	**Dilution Factor:**	1
Analytical Method:	504.1	**Matrix:**	GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Ethylene Dibromide	0.000250	0.000298	0.000297	119	119	70.0 - 130	0.336	20
1,2-Dibromo-3-Chloropropane	0.000250	0.000291	0.000296	116	118	70.0 - 130	1.70	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

L1092757-01

SAMPLE NO.:
R3406810-2

DUP Sample / File ID:	R3406810-2 / 0430_06	**SDG:**	L1092757
OS Sample / File ID:	L1092330-01 / 0430_07	**Analytical Batch:**	WG1273265
Lab File ID:	0430_06	**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.

3C-OR

LABORATORY DUPLICATE

L1092757-07,08,09

SAMPLE NO.:
R3410070-3

DUP Sample / File ID:	R3410070-3 / 0509_08	**SDG:**	L1092757
OS Sample / File ID:	L1096086-01 / 0509_28	**Analytical Batch:**	WG1278415
Lab File ID:	0509_08	**Dilution Factor:**	1
Instrument ID:	SVGC23	**Matrix:**	GW
Analytical Method:	504.1		

Analyte	OS Result	DUP Result	RPD	RPD Limits
	mg/l	*mg/l*	*%*	*%*
Ethylene Dibromide	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.:
R3406810-1

Lab Sample ID:	R3406810-1	**SDG:**	L1092757
Lab File ID:	0430_05	**Preparation Date/Time:**	04/29/19 09:48
Instrument ID:	SVGC23	**Analysis Date/Time:**	04/30/19 15:21
Analytical Batch:	WG1273265	**Dilution Factor:**	1
Analytical Method:	504.1	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
DUP	R3406810-2	SVGC23	0430_06	04/30/19 15:33
OS	L1092330-01	SVGC23	0430_07	04/30/19 15:45
MS	R3406810-3	SVGC23	0430_08	04/30/19 15:57
OS	L1092330-02	SVGC23	0430_09	04/30/19 16:08
LCS	R3406810-4	SVGC23	0430_11LFB	04/30/19 16:32
LCSD	R3406810-5	SVGC23	0430_12LFBD	04/30/19 16:44
WW-20190424-002-DAY 1	L1092757-01	SVGC23	0430_29	04/30/19 20:22

4A-OR

METHOD BLANK

SAMPLE NO.:
R3410070-1

Lab Sample ID:	R3410070-1	**SDG:**	L1092757
Lab File ID:	0509_05	**Preparation Date/Time:**	05/09/19 09:10
Instrument ID:	SVGC23	**Analysis Date/Time:**	05/09/19 20:12
Analytical Batch:	WG1278415	**Dilution Factor:**	1
Analytical Method:	504.1	**Matrix:**	GW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
MS	R3410070-2	SVGC23	0509_06	05/09/19 20:24
OS	L1096610-02	SVGC23	0509_07	05/09/19 20:36
DUP	R3410070-3	SVGC23	0509_08	05/09/19 20:48
A	L1092757-07	SVGC23	0509_10	05/09/19 21:12
B	L1092757-08	SVGC23	0509_11	05/09/19 21:24
C	L1092757-09	SVGC23	0509_12	05/09/19 21:37
LCS	R3410070-4	SVGC23	0509_19LFB	05/09/19 23:02
OS	L1096086-01	SVGC23	0509_28	05/10/19 00:51
LCSD	R3410070-5	SVGC23	0509_31LFBD	05/10/19 01:28

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0430_29	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:52
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 20:22
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

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
A

Lab Sample ID:	L1092757-07	**SDG:**	L1092757
Client Sample ID:	A	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0509_10	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:11
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 21:12
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U	T8	0.00000240	0.0000100	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U	T8	0.00000430	0.0000200	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
B

Lab Sample ID:	L1092757-08	**SDG:**	L1092757
Client Sample ID:	B	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0509_11	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:11
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 21:24
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U	T8	0.00000240	0.0000100	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U	T8	0.00000430	0.0000200	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
C

Lab Sample ID:	L1092757-09	**SDG:**	L1092757
Client Sample ID:	C	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0509_12	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:11
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 21:37
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U	T8	0.00000240	0.0000100	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U	T8	0.00000430	0.0000200	0.0000200

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	04/29/19 09:13
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	1.37	1.37	1.37	1.37	1.37	1.37
1,2-DIBROMO-3-CHLOROPROPANE	3.12	3.12	3.12	3.12	3.12	3.12
File ID:	0429A_04	0429A_05	0429A_06	0429A_07	0429A_08	0429A_09

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	04/29/19 09:13
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	1.47	1.47	1.47	1.47	1.47	1.47
1,2-DIBROMO-3-CHLOROPROPANE	3.16	3.16	3.16	3.16	3.16	3.16
File ID:	0429A_04	0429A_05	0429A_06	0429A_07	0429A_08	0429A_09

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

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

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

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

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	04/29/19 09:13
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	2712000	2436000	2504000	2464000	2349000	2270000
1,2-DIBROMO-3-CHLOROPROPANE	232000	3338000	3533000	3725000	3737000	3810000
File ID:	0429A_04	0429A_05	0429A_06	0429A_07	0429A_08	0429A_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	04/29/19 09:13
Analytical Method:	504.1		

Analyte	RRF. Avg	%RSD	COD
ETHYLENE DIBROMIDE	2455652	6.17	
1,2-DIBROMO-3-CHLOROPROPANE	3062553	45.62	1

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	04/29/19 09:13
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	2111000	1805000	1589000	1565000	1503000	1443000
1,2-DIBROMO-3-CHLOROPROPANE	2563000	2914000	2593000	2509000	2482000	2451000
File ID:	0429A_04	0429A_05	0429A_06	0429A_07	0429A_08	0429A_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	04/29/19 09:13
Analytical Method:	504.1		

Analyte	RRF. Avg	%RSD	COD
ETHYLENE DIBROMIDE	1669250	14.9	1
1,2-DIBROMO-3-CHLOROPROPANE	2585369	6.54	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

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

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

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

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

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

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Analytical Method:	504.1		

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

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_04-1	**Analysis date/time:**	04/30/19 15:09
Analytical Method:	504.1	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,1,1,2-TETRACHLOROETHANE	0.0005	0.0005488	110	70 - 130
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002663	107	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002653	106	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_04-1	**Analysis date/time:**	04/30/19 15:09
Analytical Method:	504.1	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,1,1,2-TETRACHLOROETHANE	0.0005	0.0005491	110	70 - 130
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002536	101	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002677	107	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_11-1	**Analysis date/time:**	04/30/19 16:32
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	0.0002932	117	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002651	106	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_11-1	**Analysis date/time:**	04/30/19 16:32
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	0.0002757	110	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002757	110	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_12-1	**Analysis date/time:**	04/30/19 16:44
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	0.0002901	116	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002643	106	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_12-1	**Analysis date/time:**	04/30/19 16:44
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	0.0002746	110	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002704	108	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_23-1	**Analysis date/time:**	04/30/19 19:08
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002797	112	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002613	105	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_23-1	**Analysis date/time:**	04/30/19 19:08
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002619	105	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002758	110	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_31-1	**Analysis date/time:**	04/30/19 20:46
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	0.0002929	117	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002642	106	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_31-1	**Analysis date/time:**	04/30/19 20:46
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	0.0002684	107	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002799	112	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0509_04-1	**Analysis date/time:**	05/09/19 20:00
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	0.0002466	98.60	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002585	103	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0509_04-1	**Analysis date/time:**	05/09/19 20:00
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	0.0002247	89.90	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002503	100	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0509_19-1	**Analysis date/time:**	05/09/19 23:02
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	0.0002905	116	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002983	119	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0509_19-1	**Analysis date/time:**	05/09/19 23:02
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	0.0002616	105	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002848	114	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0509_31-1	**Analysis date/time:**	05/10/19 01:28
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	0.0002958	118	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002972	119	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0509_31-1	**Analysis date/time:**	05/10/19 01:28
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	0.0002768	111	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002876	115	70 - 130

7F-OR

REPORTING LEVEL VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_03-1	**Analysis date/time:**	04/30/19 14:57
Analytical Method:	504.1		

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000010	0.000007377	73.80	60 - 140
ETHYLENE DIBROMIDE	0.000010	0.00001368	137	60 - 140

7F-OR

REPORTING LEVEL VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/29/19 08:12
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	04/29/19 09:13
Lab File ID:	0430_03-1	**Analysis date/time:**	04/30/19 14:57
Analytical Method:	504.1		

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000010	0.00001259	126	60 - 140
ETHYLENE DIBROMIDE	0.000010	0.000008856	88.60	60 - 140

7F-OR

REPORTING LEVEL VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0509_03-1	**Analysis date/time:**	05/09/19 19:47
Analytical Method:	504.1		

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000010	0.000006065	60.70	60 - 140
ETHYLENE DIBROMIDE	0.000010	0.00001018	102	60 - 140

7F-OR

REPORTING LEVEL VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/07/19 18:47
Lab File ID:	0509_03-1	**Analysis date/time:**	05/09/19 19:47
Analytical Method:	504.1		

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000010	0.000009213	92.10	60 - 140
ETHYLENE DIBROMIDE	0.000010	0.00001258	126	60 - 140

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1092757	**Analytical Method:**	504.1
Instrument ID:	SVGC23	**Calibration Start Date:**	04/29/19 08:12
		Calibration End Date:	04/29/19 09:13

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.01	0429A_04	04/29/19 08:12	1	
CAL	0.02	0429A_05	04/29/19 08:24	1	
CAL	0.05	0429A_06	04/29/19 08:36	1	
CAL	0.10	0429A_07	04/29/19 08:49	1	
CAL	0.25	0429A_08	04/29/19 09:01	1	
CAL	0.50	0429A_09	04/29/19 09:13	1	
RL	SVGC230430190430_03-1470877	0430_03-1	04/30/19 14:57	1	
ICV	SVGC230430190430_04-1470877	0430_04-1	04/30/19 15:09	1	
BLANK	R3406810-1	0430_05	04/30/19 15:21	1	WG1273265
DUP	R3406810-2	0430_06	04/30/19 15:33	1	WG1273265
OS	L1092330-01	0430_07	04/30/19 15:45	1	WG1273265
MS	R3406810-3	0430_08	04/30/19 15:57	1	WG1273265
OS	L1092330-02	0430_09	04/30/19 16:08	1	WG1273265
CCV	SVGC230430190430_11-1470877	0430_11-1	04/30/19 16:32	1	
LCS	R3406810-4	0430_11LFB	04/30/19 16:32	1	WG1273265
CCV	SVGC230430190430_12-1470877	0430_12-1	04/30/19 16:44	1	
LCSD	R3406810-5	0430_12LFBD	04/30/19 16:44	1	WG1273265
CCV	SVGC230430190430_23-1470877	0430_23-1	04/30/19 19:08	1	
WW-20190424-002-DAY 1	L1092757-01	0430_29	04/30/19 20:22	1	WG1273265
CCV	SVGC230430190430_31-1470877	0430_31-1	04/30/19 20:46	1	

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1092757	**Analytical Method:**	504.1
Instrument ID:	SVGC23	**Calibration Start Date:**	05/07/19 17:39
		Calibration End Date:	05/07/19 18:47

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.01	0507A_03	05/07/19 17:39	1	
CAL	0.02	0507A_04	05/07/19 17:58	1	
CAL	0.05	0507A_05	05/07/19 18:10	1	
CAL	0.10	0507A_06	05/07/19 18:22	1	
CAL	0.25	0507A_07	05/07/19 18:35	1	
CAL	0.50	0507A_08	05/07/19 18:47	1	
RL	SVGC230509190509_03-1471429	0509_03-1	05/09/19 19:47	1	
ICV	SVGC230509190509_04-1471429	0509_04-1	05/09/19 20:00	1	
BLANK	R3410070-1	0509_05	05/09/19 20:12	1	WG1278415
MS	R3410070-2	0509_06	05/09/19 20:24	1	WG1278415
OS	L1096610-02	0509_07	05/09/19 20:36	1	WG1278415
DUP	R3410070-3	0509_08	05/09/19 20:48	1	WG1278415
A	L1092757-07	0509_10	05/09/19 21:12	1	WG1278415
B	L1092757-08	0509_11	05/09/19 21:24	1	WG1278415
C	L1092757-09	0509_12	05/09/19 21:37	1	WG1278415
CCV	SVGC230509190509_19-1471429	0509_19-1	05/09/19 23:02	1	
LCS	R3410070-4	0509_19LFB	05/09/19 23:02	1	WG1278415
OS	L1096086-01	0509_28	05/10/19 00:51	1	WG1278415
CCV	SVGC230509190509_31-1471429	0509_31-1	05/10/19 01:28	1	
LCSD	R3410070-5	0509_31LFBD	05/10/19 01:28	1	WG1278415

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3406810-1

Lab Sample ID:	R3406810-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0430_05	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:48
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 15:21
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.:
R3410070-1

Lab Sample ID:	R3410070-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0509_05	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:10
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 20:12
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

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

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3406810-4

Lab Sample ID:	R3406810-4	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0430_11LFB	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:48
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 16:32
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	0.000265	3.92
1,2-Dibromo-3-Chloropropane	1	3.12	0.000293	6.15

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3410070-4

Lab Sample ID:	R3410070-4	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0509_19LFB	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:10
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 23:02
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	1.40	0.000298	4.63
1,2-Dibromo-3-Chloropropane	1	3.12	0.000291	10.5

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3406810-2

Lab Sample ID:	R3406810-2	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 10:30
Lab File ID:	0430_06	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:52
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 15:33
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.:
R3410070-3

Lab Sample ID:	R3410070-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	05/03/19 11:30
Lab File ID:	0509_08	**Received Date/Time:**	05/07/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:11
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 20:48
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

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

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3406810-5

Lab Sample ID:	R3406810-5	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0430_12LFBD	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:48
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 16:44
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	0.000264	2.28
1,2-Dibromo-3-Chloropropane	1	3.12	0.000290	5.49

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3410070-5

Lab Sample ID:	R3410070-5	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0509_31LFBD	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:10
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/10/19 01:28
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	1.40	0.000297	3.28
1,2-Dibromo-3-Chloropropane	1	3.12	0.000296	6.64

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3406810-3

Lab Sample ID:	R3406810-3	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 12:35
Lab File ID:	0430_08	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:52
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 15:57
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	0.000105	4.21
	2	1.47	0.000109	
1,2-Dibromo-3-Chloropropane	1	3.12	0.000108	8.13
	2	3.17	0.0000998	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3410070-2

Lab Sample ID:	R3410070-2	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	05/07/19 13:30
Lab File ID:	0509_06	**Received Date/Time:**	05/08/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:11
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 20:24
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Ethylene Dibromide	1	1.40	0.000115	2.72
	2	1.50	0.000112	
1,2-Dibromo-3-Chloropropane	1	3.13	0.000110	4.01
	2	3.17	0.000105	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406810-1

Lab Sample ID:	R3406810-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0430_05	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:48
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 15:21
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** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *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.:
R3410070-1

Lab Sample ID:	R3410070-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0509_05	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:10
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 20:12
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

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

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406810-4

Lab Sample ID:	R3406810-4	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0430_11LFB	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:48
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 16:32
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	0.000265		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.12	0.000293		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3410070-4

Lab Sample ID:	R3410070-4	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0509_19LFB	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:10
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 23:02
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	1.40	0.000298		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.12	0.000291		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406810-5

Lab Sample ID:	R3406810-5	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0430_12LFBD	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:48
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 16:44
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	0.000264		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.12	0.000290		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3410070-5

Lab Sample ID:	R3410070-5	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0509_31LFBD	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:10
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/10/19 01:28
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	1.40	0.000297		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.:
R3406810-2

Lab Sample ID:	R3406810-2	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 10:30
Lab File ID:	0430_06	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:52
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 15:33
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.:
R3410070-3

Lab Sample ID:	R3410070-3	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	05/03/19 11:30
Lab File ID:	0509_08	**Received Date/Time:**	05/07/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:11
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 20:48
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

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

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406810-3

Lab Sample ID:	R3406810-3	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 12:35
Lab File ID:	0430_08	**Received Date/Time:**	04/25/19 08:00
Instrument ID:	SVGC23	**Preparation Date/Time:**	04/29/19 09:52
Analytical Batch:	WG1273265	**Analysis Date/Time:**	04/30/19 15:57
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	0.000105		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.12	0.000108		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3410070-2

Lab Sample ID:	R3410070-2	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	05/07/19 13:30
Lab File ID:	0509_06	**Received Date/Time:**	05/08/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/09/19 09:11
Analytical Batch:	WG1278415	**Analysis Date/Time:**	05/09/19 20:24
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	GW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	1.40	0.000115		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.13	0.000110		0.00000430	0.000020	0.0000200

5310 B-2011 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	20190426125537	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	TOC3	**Preparation Date/Time:**	04/26/19 12:55
Analytical Batch:	WG1272254	**Analysis Date/Time:**	04/26/19 12:55
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)		12.5		0.102	1.00	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406229-1

Lab Sample ID:	R3406229-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20190426115555	**Received Date/Time:**	
Instrument ID:	TOC3	**Preparation Date/Time:**	04/26/19 11:55
Analytical Batch:	WG1272254	**Analysis Date/Time:**	04/26/19 11:55
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)		0.290	J	0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406229-5

Lab Sample ID:	R3406229-5	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 14:10
Lab File ID:	20190426165030	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	04/26/19 16:50
Analytical Batch:	WG1272254	**Analysis Date/Time:**	04/26/19 16:50
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)		38.6		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406229-8

Lab Sample ID:	R3406229-8	**SDG:**	L1092757
Client Sample ID:	DUP	**Collected Date/Time:**	04/24/19 16:30
Lab File ID:	20190426205447	**Received Date/Time:**	04/25/19 14:15
Instrument ID:	TOC3	**Preparation Date/Time:**	04/26/19 20:54
Analytical Batch:	WG1272254	**Analysis Date/Time:**	04/26/19 20:54
Dilution Factor:	2	**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)		101		0.204	1	2.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406229-2

Lab Sample ID:	R3406229-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20190426123151	**Received Date/Time:**	
Instrument ID:	TOC3	**Preparation Date/Time:**	04/26/19 12:31
Analytical Batch:	WG1272254	**Analysis Date/Time:**	04/26/19 12:31
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)		75.9		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406229-3

Lab Sample ID:	R3406229-3	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 10:32
Lab File ID:	20190426135303	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	04/26/19 13:53
Analytical Batch:	WG1272254	**Analysis Date/Time:**	04/26/19 13:53
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)		57.9		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406229-6

Lab Sample ID:	R3406229-6	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 15:25
Lab File ID:	20190426174614	**Received Date/Time:**	04/25/19 14:15
Instrument ID:	TOC3	**Preparation Date/Time:**	04/26/19 17:46
Analytical Batch:	WG1272254	**Analysis Date/Time:**	04/26/19 17:46
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)		48.8		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406229-4

Lab Sample ID:	R3406229-4	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/24/19 10:32
Lab File ID:	20190426140949	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	04/26/19 14:09
Analytical Batch:	WG1272254	**Analysis Date/Time:**	04/26/19 14:09
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)		57.5		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406229-7

Lab Sample ID:	R3406229-7	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/24/19 15:25
Lab File ID:	20190426190341	**Received Date/Time:**	04/25/19 14:15
Instrument ID:	TOC3	**Preparation Date/Time:**	04/26/19 19:03
Analytical Batch:	WG1272254	**Analysis Date/Time:**	04/26/19 19:03
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)		48.4		0.102	1	1.00

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**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:**	042619
Concentration Units:	mg/L		

	ICV				**SSCCV**				**CCV**			
Sample ID:	TOC30426191142				TOC30426191439				TOC30426191509			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	50	49.94	99.90		75	75.91	101		50	49.97	99.90	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**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:**	042619
Concentration Units:	mg/L		

	SSCCV				**CCV**				**SSCCV**			
Sample ID:	TOC30426191803				TOC30426191833				TOC30426192112			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	75	76.65	102		50	49.92	99.80		75	77.28	103	

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

2-IN

CALIBRATION VERIFICATION

SDG:	L1092757	**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:**	042619
Concentration Units:	mg/L		

CCV

Sample ID: TOC30426192142

Analyte	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	50	50.61	101	

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

3-IN BLANKS

SDG:	L1092757	**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:**	042619

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190426115555		20190426152305		20190426184657		20190426215617	
Analyte	mg/l		mg/L		mg/L		mg/L	
TOC (TOTAL ORGANIC CARBON)	0.290	J	0.3685	U	0.3220	U	0.3681	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406229-3
R3406229-4

MS Sample / File ID:	R3406229-3 / 20190426135303	**SDG:**	L1092757
MSD Sample / File ID:	R3406229-4 / 20190426140949	**Analytical Batch:**	WG1272254
OS Sample / File ID:	L1092431-15 / 20190426133609	**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 (Total Organic Carbon)	50.0	10.2	57.9	57.5	95.3	94.6	1	80.0 - 120	0.641	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

L1092757-01

SAMPLE NO.:
R3406229-6
R3406229-7

MS Sample / File ID:	R3406229-6 / 20190426174614	**SDG:**	L1092757
MSD Sample / File ID:	R3406229-7 / 20190426190341	**Analytical Batch:**	WG1272254
OS Sample / File ID:	L1092716-03 / 20190426172903	**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 (Total Organic Carbon)	50.0	ND	48.8	48.4	96.1	95.4	1	80.0 - 120	0.720	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-01

SAMPLE NO.:
R3406229-5

DUP Sample / File ID:	R3406229-5 / 20190426165030	**SDG:**	L1092757
OS Sample / File ID:	L1092440-06 / 20190426163516	**Analytical Batch:**	WG1272254
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 (Total Organic Carbon)	39.5	38.6	2.46	20

*: Value outside the established quality control limits.

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

6-IN

DUPLICATES

L1092757-01

SAMPLE NO.:
R3406229-8

DUP Sample / File ID:	R3406229-8 / 20190426205447	**SDG:**	L1092757
OS Sample / File ID:	L1092716-10 / 20190426203946	**Analytical Batch:**	WG1272254
Instrument ID:	TOC3	**Dilution Factor:**	2
Analytical Method:	5310 B-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)	99.5	101	1.84	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

L1092757-01

SAMPLE NO.:
R3406229-2

LCS Sample / File ID:	R3406229-2 / 20190426123151	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1272254
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 (Total Organic Carbon)	75.0	75.9		101		85.0 - 115		

*: Value outside the established quality control limits.

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

12-IN

ANALYSIS LOG

SDG:	L1092757	**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:	L1092757	**Analytical Method:**	5310 B-2011
Instrument ID:	TOC3	**Calibration Start Date:**	01/16/19 13:22
Analytical Run:	042619	**Calibration End Date:**	01/16/19 14:50

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	TOC30426191142	20190426114249	04/26/19 11:42	1	
BLANK	R3406229-1	20190426115555	04/26/19 11:55	1	WG1272254
RL	TOC30426191210	20190426121035	04/26/19 12:10	1	
LCS	R3406229-2	20190426123151	04/26/19 12:31	1	WG1272254
WW-20190424-002-DAY 1	L1092757-01	20190426125537	04/26/19 12:55	1	WG1272254
OS	L1092431-15	20190426133609	04/26/19 13:36	1	WG1272254
MS	R3406229-3	20190426135303	04/26/19 13:53	1	WG1272254
MSD	R3406229-4	20190426140949	04/26/19 14:09	1	WG1272254
SSCCV	TOC30426191439	20190426143933	04/26/19 14:39	1	
CCV	TOC30426191509	20190426150943	04/26/19 15:09	1	
CCB	TOC30426191523	20190426152305	04/26/19 15:23	1	
OS	L1092440-06	20190426163516	04/26/19 16:35	1	WG1272254
DUP	R3406229-5	20190426165030	04/26/19 16:50	1	WG1272254
OS	L1092716-03	20190426172903	04/26/19 17:29	1	WG1272254
MS	R3406229-6	20190426174614	04/26/19 17:46	1	WG1272254
SSCCV	TOC30426191803	20190426180323	04/26/19 18:03	1	
CCV	TOC30426191833	20190426183343	04/26/19 18:33	1	
CCB	TOC30426191846	20190426184657	04/26/19 18:46	1	
MSD	R3406229-7	20190426190341	04/26/19 19:03	1	WG1272254
OS	L1092716-10	20190426203946	04/26/19 20:39	2	WG1272254
DUP	R3406229-8	20190426205447	04/26/19 20:54	2	WG1272254
SSCCV	TOC30426192112	20190426211201	04/26/19 21:12	1	
CCV	TOC30426192142	20190426214203	04/26/19 21:42	1	
CCB	TOC30426192156	20190426215617	04/26/19 21:56	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1092757	**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:**	042619

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:	L1092757	**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:**	042619

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:	L1092757	**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:**	042619

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:	L1092757	**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:**	042619

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:** L1092757
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	TOT Out
BLANK	R3406256-4	VOCMS6	0428_06A	105	104	103	0
BLANK	R3409523-4	VOCMS7	0508_33	102	98.8	95.5	0
LCS	R3406256-1	VOCMS6	0428_02LCSA	101	104	109	0
LCS	R3409523-1	VOCMS7	0508_29LCS	92.3	99.2	102	0
LCSD	R3406256-2	VOCMS6	0428_03A	97.5	99.0	115	0
LCSD	R3409523-3	VOCMS7	0508_30	92.1	96.6	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.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3406256-4

Lab Sample ID:	R3406256-4	**SDG:**	L1092757
Lab File ID:	0428_06A	**Preparation Date/Time:**	04/28/19 10:14
Instrument ID:	VOCMS6	**Analysis Date/Time:**	04/28/19 10:14
Analytical Batch:	WG1273097	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3406256-1	VOCMS6	0428_02LCSA	04/28/19 08:56
LCSD	R3406256-2	VOCMS6	0428_03A	04/28/19 09:15
WW-20190424-002-DAY 1	L1092757-01	VOCMS6	0428_29	04/28/19 17:42

4A-OR

METHOD BLANK

SAMPLE NO.:
R3409523-4

Lab Sample ID:	R3409523-4	**SDG:**	L1092757
Lab File ID:	0508_33	**Preparation Date/Time:**	05/08/19 22:35
Instrument ID:	VOCMS7	**Analysis Date/Time:**	05/08/19 22:35
Analytical Batch:	WG1278315	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3409523-1	VOCMS7	0508_29LCS	05/08/19 21:13
LCSD	R3409523-3	VOCMS7	0508_30	05/08/19 21:34
A	L1092757-04	VOCMS7	0508_34	05/08/19 22:55
B	L1092757-05	VOCMS7	0508_35	05/08/19 23:15
C	L1092757-06	VOCMS7	0508_36	05/08/19 23:36

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0410_10-6	**SDG:**	L1092757
Instrument ID:	VOCMS6	**Analytical Method:**	624.1
Analysis Date/Time:	04/10/19 17:13		

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	0
174	95	50	200	97
175	174	5	9	7
176	174	95	105	100
177	176	5	10	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.04	0.04	0410_14	04/10/19 18:31
STD-0.1	0.1	0410_15	04/10/19 18:51
STD-0.2	0.2	0410_16	04/10/19 19:10
STD-0.5	0.5	0410_17	04/10/19 19:30
STD-1	1	0410_18	04/10/19 19:49
STD-2	2	0410_19	04/10/19 20:09
STD-5.0	5.0	0410_20	04/10/19 20:28
STD-25	25	0410_21	04/10/19 20:48
STD-75	75	0410_22	04/10/19 21:08
STD-100	100	0410_23	04/10/19 21:27
STD-200	200	0410_24	04/10/19 21:47
SSCV	VOCMS60410190410_27-6469651	0410_27-6	04/10/19 22:45

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0411_52-6	**SDG:**	L1092757
Instrument ID:	VOCMS6	**Analytical Method:**	624.1
Analysis Date/Time:	04/12/19 04:56		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	102
96	95	5	9	7
173	174	0	2	0
174	95	50	200	98
175	174	5	9	8
176	174	95	105	100
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-1A	1A	0411_55	04/12/19 05:55
STD-5A	5A	0411_56	04/12/19 06:14
STD-10A	10A	0411_57	04/12/19 06:34
STD-15A	15A	0411_58	04/12/19 06:54
STD-20A	20A	0411_59	04/12/19 07:14

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0428_01T-2	**SDG:**	L1092757
Instrument ID:	VOCMS6	**Analytical Method:**	624.1
Analysis Date/Time:	04/28/19 08:37		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	106
96	95	5	9	6
173	174	0	2	0
174	95	50	200	94
175	174	5	9	8
176	174	95	105	96
177	176	5	10	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS60428190428_02-2469651	0428_02-2	04/28/19 08:56
LCS	R3406256-1	0428_02LCSA	04/28/19 08:56
LCSD	R3406256-2	0428_03A	04/28/19 09:15
BLANK	R3406256-4	0428_06A	04/28/19 10:14
WW-20190424-002-DAY 1	L1092757-01	0428_29	04/28/19 17:42

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0502_01-8	**SDG:**	L1092757
Instrument ID:	VOCMS7	**Analytical Method:**	624.1
Analysis Date/Time:	05/02/19 13:43		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	125
96	95	5	9	7
173	174	0	2	1
174	95	50	200	80
175	174	5	9	8
176	174	95	105	98
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.04	0.04	0502_06	05/02/19 15:26
STD-0.1	0.1	0502_07	05/02/19 15:46
STD-0.2	0.2	0502_08	05/02/19 16:07
STD-0.5	0.5	0502_09	05/02/19 16:27
STD-1	1	0502_10	05/02/19 16:48
STD-2	2	0502_11	05/02/19 17:08
STD-5.0	5.0	0502_12	05/02/19 17:28
STD-25	25	0502_13	05/02/19 17:49
STD-75	75	0502_14	05/02/19 18:09

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0502_16-8	**SDG:**	L1092757
Instrument ID:	VOCMS7	**Analytical Method:**	624.1
Analysis Date/Time:	05/03/19 09:05		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	126
96	95	5	9	7
173	174	0	2	0
174	95	50	200	79
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-100	100	0502_18	05/03/19 09:59
STD-200	200	0502_19	05/03/19 10:19
SSCV	VOCMS70502190502_22-8471432	0502_22-8	05/03/19 12:36

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0507_48-8	**SDG:**	L1092757
Instrument ID:	VOCMS7	**Analytical Method:**	624.1
Analysis Date/Time:	05/08/19 03:30		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	110
96	95	5	9	7
173	174	0	2	1
174	95	50	200	91
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-1A	1A	0507_51	05/08/19 04:31
STD-5A	5A	0507_52	05/08/19 04:51
STD-10A	10A	0507_53	05/08/19 05:12
STD-15A	15A	0507_54	05/08/19 05:32
STD-20A	20A	0507_55	05/08/19 05:52
STD-.5	.5	0507_60	05/08/19 07:34
STD-1	1	0507_61	05/08/19 07:54
STD-2	2	0507_62	05/08/19 08:15
STD-5.0	5.0	0507_63	05/08/19 08:35
STD-10	10	0507_64	05/08/19 08:55
STD-20	20	0507_65	05/08/19 09:15

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0508_29T-2	**SDG:**	L1092757
Instrument ID:	VOCMS7	**Analytical Method:**	624.1
Analysis Date/Time:	05/08/19 21:13		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	124
96	95	5	9	7
173	174	0	2	0
174	95	50	200	81
175	174	5	9	8
176	174	95	105	99
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS70508190508_29-2471432	0508_29-2	05/08/19 21:13
LCS	R3409523-1	0508_29LCS	05/08/19 21:13
LCSD	R3409523-3	0508_30	05/08/19 21:34
BLANK	R3409523-4	0508_33	05/08/19 22:35
A	L1092757-04	0508_34	05/08/19 22:55
B	L1092757-05	0508_35	05/08/19 23:15
C	L1092757-06	0508_36	05/08/19 23:36

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0508_29uT-2	**SDG:**	L1092757
Instrument ID:	VOCMS7	**Analytical Method:**	624.1
Analysis Date/Time:	05/08/19 21:13		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	124
96	95	5	9	7
173	174	0	2	0
174	95	50	200	81
175	174	5	9	8
176	174	95	105	99
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS70508190508_29-2471432	0508_29-2	05/08/19 21:13
LCS	R3409523-1	0508_29LCS	05/08/19 21:13
LCSD	R3409523-3	0508_30	05/08/19 21:34
BLANK	R3409523-4	0508_33	05/08/19 22:35
A	L1092757-04	0508_34	05/08/19 22:55
B	L1092757-05	0508_35	05/08/19 23:15
C	L1092757-06	0508_36	05/08/19 23:36

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1092757	**Analytical Method:**	624.1
Instrument ID:	VOCMS6	**Calibration Start Date:**	04/10/19 18:31
Std File:	0428_02-2	**Calibration End Date:**	04/12/19 07:14
		Std Analysis Date:	04/28/19 08:56

Sample ID	File ID	1,4-DCB		8260-CB		8260-FB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		88098	7.99	85770	6.31	212094	4.38
UPPER LIMIT		176196		171540		424188	
LOWER LIMIT		44049		42885		106047	
LCS R3406256-1 WG1273097 1x	0428_02LCSA	88098	7.99	85770	6.31	212094	4.38
LCSD R3406256-2 WG1273097 1x	0428_03A	90099	7.99	92528	6.31	218529	4.38
BLANK R3406256-4 WG1273097 1x	0428_06A	82463	8	80920	6.31	210986	4.38
L1092757-01 WG1273097 1x	0428_29	76047	8	75672	6.31	205459	4.38

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.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1092757	**Analytical Method:**	624.1
Instrument ID:	VOCMS7	**Calibration Start Date:**	05/02/19 15:26
Std File:	0508_29-2	**Calibration End Date:**	05/08/19 09:15
		Std Analysis Date:	05/08/19 21:13

Sample ID	File ID	1,4-DCB		8260-CB		8260-FB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		34579	7.69	74017	6.37	189337	4.44
UPPER LIMIT		69158		148034		378674	
LOWER LIMIT		17290		37009		94669	
LCS R3409523-1 WG1278315 1x	0508_29LCS	34579	7.69	74017	6.37	189337	4.44
LCSD R3409523-3 WG1278315 1x	0508_30	34736	7.69	75174	6.37	189825	4.45
BLANK R3409523-4 WG1278315 1x	0508_33	30255	7.69	66168	6.37	186114	4.45
L1092757-04 WG1278315 1x	0508_34	30772	7.69	66723	6.37	181002	4.44
L1092757-05 WG1278315 1x	0508_35	32394	7.69	67722	6.37	181875	4.45
L1092757-06 WG1278315 1x	0508_36	32744	7.69	69902	6.37	180909	4.45

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.

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 624.1

Instrument ID: VOCMS6

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	04/10/19 18:31	04/10/19 18:51	04/10/19 19:10	04/10/19 19:30	04/10/19 19:49	04/10/19 20:09	04/10/19 20:28	04/10/19 20:48	04/10/19 21:08	04/10/19 21:27
M&P-XYLENE	1.2720	1.6470	1.6450	1.6210	1.5270	1.6770	1.5160	1.5350	1.5970	1.5510
1,2-DICHLOROETHANE-D4	0.3560	0.3440	0.3580	0.3550	0.3460	0.3640	0.3590	0.3860	0.3410	0.3420
TOLUENE-D8	2.7980	2.7220	2.7630	2.6710	2.6770	2.7760	2.5420	2.5320	2.5410	2.5040
4-BROMOFLUOROBENZENE	0.9650	0.9410	0.9720	0.9240	0.9410	0.9750	0.9210	0.9410	0.9430	0.9310
VINYL CHLORIDE		0.5630	0.6310	0.6120	0.5190	0.5060	0.5570	0.5050	0.5070	0.4840
CHLOROETHANE		0.3410	0.2780	0.2640	0.2960	0.3060	0.2720	0.2560	0.24	0.2190
TRICHLOROFLUOROMETHANE		0.58	0.4950	0.56	0.5350	0.4920	0.5950	0.5630	0.5840	0.5640
1,1-DICHLOROETHANE		0.9130	0.7270	0.7610	0.7460	0.7630	0.74	0.7050	0.7190	0.7120
2,2-DICHLOROPROPANE		0.54	0.5770	0.5470	0.5850	0.5050	0.5290	0.5060	0.5210	0.5080
CHLOROFORM		0.7390	0.7540	0.5840	0.6290	0.6660	0.6250	0.6160	0.6280	0.6230
1,1,1-TRICHLOROETHANE		0.4280	0.5870	0.5790	0.5240	0.5230	0.60	0.54	0.5540	0.5430
CARBON TETRACHLORIDE		0.6480	0.5560	0.5320	0.4980	0.4640	0.5220	0.4990	0.5170	0.5040
TRICHLOROETHENE		0.2920	0.3730	0.3780	0.35	0.3660	0.3910	0.3690	0.3780	0.3810
DIBROMOMETHANE		0.2610	0.1950	0.2610	0.2450	0.24	0.2320	0.22	0.2290	0.2290
BROMODICHLOROMETHANE		0.6020	0.4760	0.4310	0.4790	0.45	0.4830	0.4580	0.4720	0.4720
4-METHYL-2-PENTANONE (MIBK)		1.42	1.9820	1.7730	1.8410	1.96	1.90	1.8420	1.8680	1.8410
TOLUENE		4.25	4.6070	4.04	3.9660	4.17	3.8090	3.7530	3.7690	3.6610
CHLORODIBROMOMETHANE		1.1570	1.0710	1.0020	0.9340	0.9720	0.9410	0.9060	0.9390	0.9180
CHLOROBENZENE		2.8310	3.01	2.4390	2.4140	2.48	2.3440	2.3220	2.4080	2.3530
O-XYLENE		1.22	1.71	1.4780	1.5190	1.6210	1.4960	1.4710	1.50	1.4650
BROMOBENZENE		2.1910	1.7730	2.2030	1.8950	1.5810	1.5950	1.6220	1.63	1.6480
1,1,2,2-TETRACHLOROETHANE		1.4490	1.0220	1.4240	1.3840	1.31	1.3250	1.2890	1.2960	1.2930
1,2,3-TRICHLOROPROPANE		0.3330	0.3570	0.3480	0.39	0.34	0.3530	0.3090	0.3130	0.3170
N-PROPYLBENZENE		3.9530	4.3150	4.42	4.5970	4.3070	4.6030	4.4610	4.5370	4.4790
2-CHLOROTOLUENE		2.8490	3.6940	2.5930	2.6980	2.8030	2.9970	2.8330	2.9040	2.8770
4-CHLOROTOLUENE		2.6330	2.3270	2.6680	2.5240	2.5680	2.6070	2.6470	2.68	2.6410
1,3,5-TRIMETHYLBENZENE		3.2160	2.4450	3.2270	3.2680	3.10	3.1010	3.06	3.0970	3.0360
1,2,4-TRIMETHYLBENZENE		3.3450	3.1570	3.2980	2.9150	3.0240	2.9380	2.8780	2.9260	2.8970
1,3-DICHLOROBENZENE		1.89	1.7880	1.6740	1.7490	1.6220	1.6940	1.7080	1.7340	1.7240
P-ISOPROPYLTOLUENE		3.5510	3.2640	3.0230	2.9390	2.9270	3.0060	2.9240	2.9880	2.9720
1,4-DICHLOROBENZENE		2.0130	2.0140	1.9010	1.6380	1.6720	1.7430	1.7490	1.7930	1.7820
1,2-DICHLOROBENZENE		1.79	1.4570	1.6710	1.6550	1.6370	1.6410	1.64	1.6590	1.6370
N-BUTYLBENZENE		2.40	2.4050	2.0370	2.1590	2.3380	2.33	2.4270	2.5350	2.4990
DICHLORODIFLUOROMETHANE			0.3070	0.2250	0.3470	0.3240	0.3660	0.3260	0.3220	0.3070
BROMOMETHANE			0.3240	0.2950	0.3290	0.3220	0.2410	0.1570	0.1590	0.1840
1,1,2-TRICHLOROTRIFLUOROETHANE			0.2550	0.3030	0.2610	0.2490	0.3040	0.2870	0.2970	0.2890
CARBON DISULFIDE			0.9480	0.8530	0.7670	0.7670	0.79	0.7150	0.7190	0.7140
METHYL TERT-BUTYL ETHER			0.9860	0.9140	0.9210	0.9120	0.9080	0.8750	0.8880	0.90
1,1-DICHLOROPROPENE			0.5330	0.4680	0.4040	0.4350	0.4740	0.4290	0.4450	0.4310
BENZENE			1.37	1.4420	1.3590	1.3490	1.3790	1.3230	1.3440	1.3430
1,2-DICHLOROETHANE			0.5970	0.5720	0.5540	0.5520	0.5380	0.5180	0.5430	0.5410
1,2-DICHLOROPROPANE			0.2790	0.2890	0.2550	0.2820	0.2950	0.2760	0.2860	0.2870
1,1,2-TRICHLOROETHANE			0.9130	0.8930	0.8990	0.82	0.7730	0.7450	0.7590	0.7460
TETRACHLOROETHENE			0.8560	0.8390	0.8150	0.8120	0.7880	0.8010	0.8160	0.7910
ETHYLBENZENE			1.47	1.5180	1.28	1.3860	1.2710	1.2970	1.3260	1.2970
BROMOFORM			0.6350	0.7360	0.8340	0.8240	0.8130	0.8180	0.8640	0.8630
ISOPROPYLBENZENE			4.0470	4.5990	3.9320	4.1050	3.76	3.7890	3.8950	3.8020
TERT-BUTYLBENZENE			2.6590	2.5950	2.5360	2.4320	2.5450	2.4290	2.4560	2.4010
SEC-BUTYLBENZENE			3.5070	3.4590	3.2230	3.4410	3.4440	3.4080	3.4230	3.4120
1,2,4-TRICHLOROBENZENE			0.8320	0.7930	0.8410	0.8750	0.8580	0.8750	0.9230	0.9310

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 624.1

Instrument ID: VOCMS6

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	04/10/19 18:31	04/10/19 18:51	04/10/19 19:10	04/10/19 19:30	04/10/19 19:49	04/10/19 20:09	04/10/19 20:28	04/10/19 20:48	04/10/19 21:08	04/10/19 21:27
1,2,3-TRICHLOROBENZENE			0.6150	0.8070	0.7720	0.8340	0.7940	0.8110	0.8490	0.87
CHLOROMETHANE				0.4440	0.5120	0.4980	0.4660	0.4450	0.5060	
ACETONE				0.1720	0.1620	0.1760	0.1790	0.19	0.1960	0.2010
TRANS-1,2-DICHLOROETHENE				0.3590	0.3530	0.2720	0.3020	0.28	0.29	0.2860
CIS-1,2-DICHLOROETHENE				0.3710	0.3840	0.3340	0.3450	0.3410	0.3460	0.3420
2-BUTANONE (MEK)				0.1290	0.2150	0.2520	0.2920	0.3240	0.3460	0.3560
BROMOCHLOROMETHANE				0.1840	0.1990	0.2120	0.2030	0.1880	0.1770	0.1720
CYCLOHEXANE				0.5180	0.4040	0.3370	0.4290	0.3960	0.4070	0.3990
METHYL CYCLOHEXANE				0.8680	0.6230	0.48	0.5170	0.4770	0.4910	0.4840
CIS-1,3-DICHLOROPROPENE				0.5040	0.5110	0.5360	0.5360	0.5240	0.5480	0.5410
TRANS-1,3-DICHLOROPROPENE				0.8590	1.0550	1.1120	1.14	1.1420	1.2280	1.2130
2-HEXANONE				0.5390	0.6330	0.6720	0.6970	0.6850	0.7070	0.7080
1,1,1,2-TETRACHLOROETHANE				1.08	0.8190	0.98	0.8470	0.8030	0.8130	0.7930
STYRENE				2.0770	2.03	2.2010	2.1620	2.4080	2.4890	2.4430
1,1-DICHLOROETHENE					0.2910	0.2610	0.2540	0.2430	0.2480	0.2470
ACRYLONITRILE					0.1560	0.2110	0.2220	0.2260	0.2440	0.25
METHYLENE CHLORIDE						0.3820	0.3330	0.3060	0.3030	0.3070
METHYL ACETATE						0.33	0.4530	0.4650	0.4880	0.50
File ID:	0410_14	0410_15	0410_16	0410_17	0410_18	0410_19	0410_20	0410_21	0410_22	0410_23

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 624.1

Instrument ID: VOCMS6

Analyte	RRF: 200	RRF. Avg	%RSD	COD
Analysis date/time	04/10/19 21:47			
M&P-XYLENE	1.5840	1.560946	7.05	
1,2-DICHLOROETHANE-D4	0.3470	0.354329	3.69	
TOLUENE-D8	2.4020	2.629978	5	
4-BROMOFLUOROBENZENE	0.91	0.942295	2.24	
VINYL CHLORIDE	0.4870	0.53723	9.6	
CHLOROETHANE		0.274608	13.29	
TRICHLOROFLUOROMETHANE	0.5430	0.551176	6.43	
1,1-DICHLOROETHANE	0.7210	0.750836	8.03	
2,2-DICHLOROPROPANE	0.5180	0.533607	5.38	
CHLOROFORM	0.6310	0.649618	8.47	
1,1,1-TRICHLOROETHANE	0.5560	0.543214	8.86	
CARBON TETRACHLORIDE	0.5270	0.526675	9.31	
TRICHLOROETHENE	0.3950	0.367084	7.97	
DIBROMOMETHANE	0.2340	0.234676	8.29	
BROMODICHLOROMETHANE	0.4760	0.479966	9.54	
4-METHYL-2-PENTANONE (MIBK)	1.6340	1.805918	9.24	
TOLUENE	3.6270	3.965182	7.78	
CHLORODIBROMOMETHANE	0.9050	0.974442	8.39	
CHLOROBENZENE	2.3410	2.494072	9.38	
O-XYLENE	1.4590	1.493916	8.4	
BROMOBENZENE	1.6330	1.777037	13.54	
1,1,2,2-TETRACHLOROETHANE	1.2490	1.304017	9.05	
1,2,3-TRICHLOROPROPANE	0.30	0.336002	8.13	
N-PROPYLBENZENE	4.4830	4.415701	4.33	
2-CHLOROTOLUENE	2.8890	2.913784	10.18	
4-CHLOROTOLUENE	2.6530	2.5949	4.06	
1,3,5-TRIMETHYLBENZENE	3.0980	3.064722	7.54	
1,2,4-TRIMETHYLBENZENE	2.9010	3.028055	5.8	
1,3-DICHLOROBENZENE	1.7350	1.731758	4.12	
P-ISOPROPYLTOLUENE	3.0130	3.06063	6.47	
1,4-DICHLOROBENZENE	1.7830	1.808578	7.13	
1,2-DICHLOROBENZENE	1.65	1.643624	4.87	
N-BUTYLBENZENE	2.5130	2.364448	6.72	
DICHLORODIFLUOROMETHANE	0.3010	0.313938	12.47	
BROMOMETHANE	0.1830	0.243746	30.59	0.992
1,1,2-TRICHLOROTRIFLUOROETHANE	0.2980	0.282561	7.7	
CARBON DISULFIDE	0.73	0.778271	10.03	
METHYL TERT-BUTYL ETHER	0.8890	0.910631	3.5	
1,1-DICHLOROPROPENE	0.4460	0.451602	8.17	
BENZENE	1.3710	1.364503	2.48	
1,2-DICHLOROETHANE	0.5440	0.550858	4.07	
1,2-DICHLOROPROPANE	0.29	0.282257	4.16	
1,1,2-TRICHLOROETHANE	0.7260	0.808222	9.26	
TETRACHLOROETHENE	0.8020	0.813514	2.72	
ETHYLBENZENE	1.3080	1.35026	6.56	
BROMOFORM	0.8490	0.804041	9.2	
ISOPROPYLBENZENE	3.7890	3.968584	6.7	
TERT-BUTYLBENZENE	2.4390	2.499078	3.54	
SEC-BUTYLBENZENE	3.41	3.414045	2.29	
1,2,4-TRICHLOROBENZENE	0.9170	0.871581	5.29	

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 624.1

Instrument ID: VOCMS6

Analyte	**RRF: 200**	**RRF. Avg**	**%RSD**	**COD**
Analysis date/time	04/10/19 21:47			
1,2,3-TRICHLOROBENZENE	0.8690	0.802405	9.68	
CHLOROMETHANE		0.478559	6.5	
ACETONE	0.1870	0.182996	7.1	
TRANS-1,2-DICHLOROETHENE	0.2930	0.304529	10.83	
CIS-1,2-DICHLOROETHENE	0.3380	0.350162	5.04	
2-BUTANONE (MEK)	0.3390	0.281755	27.98	0.999
BROMOCHLOROMETHANE	0.17	0.188033	8.14	
CYCLOHEXANE	0.4170	0.413448	12.17	
METHYL CYCLOHEXANE	0.5050	0.555696	24.26	0.999
CIS-1,3-DICHLOROPROPENE	0.5510	0.531281	3.23	
TRANS-1,3-DICHLOROPROPENE	1.2080	1.119654	10.76	
2-HEXANONE	0.6570	0.662264	8.45	
1,1,1,2-TETRACHLOROETHANE	0.7870	0.865159	12.35	
STYRENE	2.4320	2.280226	8.01	
1,1-DICHLOROETHENE	0.2510	0.256388	6.32	
ACRYLONITRILE	0.24	0.221342	14.35	
METHYLENE CHLORIDE	0.3060	0.322848	9.61	
METHYL ACETATE	0.4790	0.452481	13.74	
File ID:	0410_24			

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 624.1

Instrument ID: VOCMS7

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	05/02/19 15:26	05/02/19 15:46	05/02/19 16:07	05/02/19 16:27	05/02/19 16:48	05/02/19 17:08	05/02/19 17:28	05/02/19 17:49	05/02/19 18:09	05/03/19 09:59
BENZENE	1.7750	1.5040	1.5160	1.5160	1.4720	1.5140	1.6120	1.4420	1.5460	1.3790
M&P-XYLENE	1.8850	1.6260	1.6710	1.57	1.5190	1.6420	1.7410	1.5490	1.6860	1.4280
1,2-DICHLOROETHANE-D4	0.3180	0.3250	0.32	0.3240	0.3250	0.3280	0.3370	0.35	0.33	0.32
TOLUENE-D8	2.61	2.5490	2.5140	2.6030	2.5670	2.6060	2.6410	2.5980	2.6360	2.6520
4-BROMOFLUOROBENZENE	0.8280	0.8160	0.8270	0.8250	0.8190	0.8350	0.8690	0.8420	0.8910	0.8620
VINYL CHLORIDE		0.4490	0.4920	0.43	0.4550	0.48	0.5080	0.4990	0.5170	0.4720
TRICHLOROFLUOROMETHANE		0.4550	0.4310	0.4480	0.3950	0.4450	0.4710	0.5130	0.5230	0.52
METHYL TERT-BUTYL ETHER		0.9730	1.1740	1.0080	0.9630	1.0720	1.0730	0.9550	1.0010	0.8970
2-BUTANONE (MEK)		0.4430	0.4140	0.3690	0.3590	0.3470	0.3810	0.3810	0.4010	0.3720
CHLOROFORM		0.6980	0.6330	0.6070	0.6020	0.6480	0.6840	0.62	0.66	0.5750
CYCLOHEXANE		0.3870	0.3840	0.42	0.3650	0.4130	0.4470	0.4570	0.4810	0.4270
CARBON TETRACHLORIDE		0.4220	0.43	0.4480	0.4460	0.4660	0.5170	0.5160	0.5550	0.4770
BROMODICHLOROMETHANE		0.4140	0.3970	0.4660	0.4540	0.4810	0.4950	0.4470	0.4780	0.43
4-METHYL-2-PENTANONE (MIBK)		1.6880	2.0520	1.93	1.7770	1.85	2.0350	1.8560	2.0430	1.8620
TOLUENE		4.5260	4.91	4.0890	3.69	4.3160	4.4470	3.9050	4.2630	3.7550
CHLOROBENZENE		2.0540	2.3060	2.3120	2.32	2.4370	2.5060	2.2680	2.5110	2.1220
ISOPROPYLBENZENE		3.3710	3.2070	3.6510	3.4260	3.84	4.0760	3.7070	4.1110	3.4860
N-PROPYLBENZENE		6.8550	6.9340	6.6980	7.0110	7.7670	7.9010	7.6420	8.3390	6.8580
2-CHLOROTOLUENE		3.9070	4.6190	4.3970	4.5050	4.3010	4.6220	4.2290	4.5620	3.7130
SEC-BUTYLBENZENE		3.6150	4.3570	3.5910	3.9340	4.0140	4.3590	3.8920	4.1150	3.44
DICHLORODIFLUOROMETHANE			0.4120	0.28	0.3140	0.2690	0.3420	0.37	0.3830	0.34
CHLOROMETHANE			0.7060	0.5430	0.6330	0.60	0.6130	0.5510	0.5910	0.5580
CARBON DISULFIDE			1.0380	0.9380	0.8390	0.9480	1.0250	0.9630	1.0050	0.9380
TRANS-1,2-DICHLOROETHENE			0.3390	0.2790	0.2920	0.3450	0.3710	0.32	0.3410	0.3040
1,1-DICHLOROETHANE			0.8180	0.7380	0.6550	0.7710	0.7940	0.71	0.7650	0.6840
2,2-DICHLOROPROPANE			0.7280	0.6090	0.5820	0.5680	0.5580	0.5210	0.5750	0.5430
CIS-1,2-DICHLOROETHENE			0.3940	0.3940	0.3720	0.3710	0.3710	0.3620	0.38	0.3360
BROMOCHLOROMETHANE			0.1980	0.2210	0.2020	0.2040	0.2230	0.20	0.1860	0.1660
1,1,1-TRICHLOROETHANE			0.55	0.4670	0.5790	0.5570	0.5910	0.5560	0.5960	0.5280
1,1-DICHLOROPROPENE			0.4920	0.4390	0.4610	0.4680	0.5270	0.4870	0.51	0.4590
1,2-DICHLOROETHANE			0.4820	0.51	0.5140	0.5430	0.5510	0.4810	0.5150	0.4590
TRICHLOROETHENE			0.3670	0.3360	0.36	0.4010	0.4260	0.3750	0.4040	0.3530
TRANS-1,3-DICHLOROPROPENE			0.95	1.0240	1.0980	1.1320	1.3360	1.2150	1.40	1.2530
1,1,2-TRICHLOROETHANE			0.6820	0.7530	0.7250	0.7590	0.8850	0.7620	0.8540	0.7630
CHLORODIBROMOMETHANE			0.7510	0.7970	0.7810	0.9580	0.9390	0.8530	0.97	0.8570
1,1,1,2-TETRACHLOROETHANE			0.9850	0.7780	0.8970	0.8710	0.8910	0.7960	0.8730	0.7570
O-XYLENE			1.4380	1.5080	1.4610	1.64	1.6550	1.48	1.6350	1.3780
1,1,2,2-TETRACHLOROETHANE			1.77	1.7930	2.0160	2.3750	2.4050	2.1830	2.3590	2.0260
1,4-DICHLOROBENZENE			2.1040	1.9260	2.0380	2.1480	2.1250	1.7370	1.9240	1.5630
1,2-DICHLOROBENZENE			1.8810	1.4620	1.8520	1.8390	1.9760	1.7330	1.86	1.6050
BROMOMETHANE				0.2440	0.2270	0.1480	0.1440	0.1070	0.1520	0.1490
CHLOROETHANE				0.3080	0.2730	0.2870	0.2770	0.2470	0.2380	
1,1-DICHLOROETHENE				0.2430	0.2840	0.2910	0.3190	0.2990	0.3150	0.2850
ACETONE				0.2420	0.2350	0.23	0.2410	0.2320	0.24	0.2210
METHYLENE CHLORIDE				0.3630	0.39	0.3470	0.3610	0.3260	0.3440	0.3010
METHYL CYCLOHEXANE				0.6890	0.5260	0.48	0.4940	0.4830	0.5110	0.4420
1,2-DICHLOROPROPANE				0.2480	0.2670	0.2910	0.3070	0.2730	0.31	0.2750
DIBROMOMETHANE				0.1920	0.2130	0.2160	0.2280	0.2110	0.2360	0.21
CIS-1,3-DICHLOROPROPENE				0.5230	0.5350	0.5650	0.6090	0.5480	0.5960	0.5430
TETRACHLOROETHENE				0.71	0.7460	0.8010	0.85	0.75	0.8230	0.7030

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 624.1

Instrument ID: VOCMS7

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	05/02/19 15:26	05/02/19 15:46	05/02/19 16:07	05/02/19 16:27	05/02/19 16:48	05/02/19 17:08	05/02/19 17:28	05/02/19 17:49	05/02/19 18:09	05/03/19 09:59
ETHYLBENZENE				1.2430	1.3130	1.4130	1.4390	1.2910	1.4170	1.1930
STYRENE				2.0530	2.0090	2.2090	2.5140	2.3240	2.6380	2.2860
BROMOFORM				0.5330	0.6060	0.6530	0.7360	0.6880	0.7790	0.70
BROMOBENZENE				2.6120	3.2550	3.0670	3.0230	2.7420	3.0580	2.5630
1,2,3-TRICHLOROPROPANE				0.5140	0.4820	0.5190	0.5590	0.4980	0.5360	0.4680
4-CHLOROTOLUENE				3.2250	3.2670	3.2560	3.5810	3.3470	3.6990	3.0070
1,3,5-TRIMETHYLBENZENE				4.9330	4.75	4.9070	4.7630	4.3340	4.7090	3.8070
TERT-BUTYLBENZENE				2.5770	2.5810	2.99	3.2210	2.8720	3.0550	2.5460
1,2,4-TRIMETHYLBENZENE				3.2520	3.0570	3.5570	3.7620	3.3190	3.6150	2.9640
P-ISOPROPYLTOLUENE				3.0120	2.8420	3.3540	3.6630	3.3080	3.5420	2.9490
1,2,4-TRICHLOROBENZENE				0.8410	0.7690	1.0780	1.1060	1.1050	1.2990	
1,2,3-TRICHLOROBENZENE				0.8910	0.85	1.0560	1.0350	1.0330	1.1750	0.9980
1,1,2-TRICHLOROTRIFLUOROETHANE					0.2310	0.2690	0.3110	0.3380	0.3640	0.3170
METHYL ACETATE					0.4480	0.4590	0.4920	0.5190	0.5390	0.5090
ACRYLONITRILE					0.21	0.2080	0.2590	0.2550	0.2760	0.2570
1,3-DICHLOROBENZENE					1.3470	1.63	1.8470	1.7070	1.9110	1.5770
N-BUTYLBENZENE					2.0230	2.68	3.0010	2.6460	2.9030	2.5470
2-HEXANONE						0.5860	0.7190	0.7170	0.7920	0.7320
File ID:	0502_06	0502_07	0502_08	0502_09	0502_10	0502_11	0502_12	0502_13	0502_14	0502_18

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 624.1

Instrument ID: VOCMS7

Analyte	RRF: 200	RRF. Avg	%RSD	COD
Analysis date/time	05/03/19 10:19			
BENZENE	1.5690	1.5314	6.66	
M&P-XYLENE	1.6230	1.630859	7.4	
1,2-DICHLOROETHANE-D4	0.3220	0.327073	2.85	
TOLUENE-D8	2.77	2.613241	2.54	
4-BROMOFLUOROBENZENE	0.8850	0.845348	3.17	
VINYL CHLORIDE	0.5010	0.480256	5.88	
TRICHLOROFLUOROMETHANE	0.4940	0.469594	9.03	
METHYL TERT-BUTYL ETHER	1.0540	1.016982	7.73	
2-BUTANONE (MEK)	0.4320	0.389893	8.11	
CHLOROFORM	0.6610	0.638811	6.05	
CYCLOHEXANE	0.4890	0.426886	9.74	
CARBON TETRACHLORIDE	0.5450	0.482218	9.94	
BROMODICHLOROMETHANE	0.4920	0.455374	7.31	
4-METHYL-2-PENTANONE (MIBK)	2.0230	1.911461	6.58	
TOLUENE	4.25	4.215206	8.83	
CHLOROBENZENE	2.4160	2.325244	6.52	
ISOPROPYLBENZENE	3.8980	3.677305	8.3	
N-PROPYLBENZENE	8.2780	7.42835	8.44	
2-CHLOROTOLUENE	4.4380	4.329308	7.06	
SEC-BUTYLBENZENE	4.0850	3.940157	7.96	
DICHLORODIFLUOROMETHANE	0.3350	0.338319	13.72	
CHLOROMETHANE		0.599521	8.92	
CARBON DISULFIDE	1.0150	0.967567	6.37	
TRANS-1,2-DICHLOROETHENE	0.3430	0.326004	9.03	
1,1-DICHLOROETHANE	0.7760	0.745561	7.17	
2,2-DICHLOROPROPANE	0.6080	0.587866	10.16	
CIS-1,2-DICHLOROETHENE	0.3850	0.374101	4.79	
BROMOCHLOROMETHANE	0.1680	0.196537	10.23	
1,1,1-TRICHLOROETHANE	0.5890	0.556757	7.28	
1,1-DICHLOROPROPENE	0.5190	0.484785	6.19	
1,2-DICHLOROETHANE	0.5240	0.508743	5.91	
TRICHLOROETHENE	0.4040	0.380769	7.76	
TRANS-1,3-DICHLOROPROPENE	1.4320	1.204447	13.88	
1,1,2-TRICHLOROETHANE	0.8590	0.782434	8.7	
CHLORODIBROMOMETHANE	0.9870	0.876925	10.16	
1,1,1,2-TETRACHLOROETHANE	0.8670	0.857142	8.21	
O-XYLENE	1.5730	1.529787	6.54	
1,1,2,2-TETRACHLOROETHANE	2.50	2.158436	12.56	
1,4-DICHLOROBENZENE	1.9040	1.941181	9.96	
1,2-DICHLOROBENZENE	1.9580	1.796259	9.37	
BROMOMETHANE	0.1780	0.168674	27.16	0.998
CHLOROETHANE		0.271876	9.53	
1,1-DICHLOROETHENE	0.3190	0.294465	8.6	
ACETONE	0.2450	0.23581	3.28	
METHYLENE CHLORIDE	0.3450	0.347041	7.62	
METHYL CYCLOHEXANE	0.5060	0.516245	14.35	
1,2-DICHLOROPROPANE	0.3170	0.286015	8.38	
DIBROMOMETHANE	0.2380	0.217832	7.04	
CIS-1,3-DICHLOROPROPENE	0.62	0.567313	6.43	
TETRACHLOROETHENE	0.8010	0.772857	6.93	

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 624.1

Instrument ID: VOCMS7

Analyte	**RRF: 200**	**RRF. Avg**	**%RSD**	**COD**
Analysis date/time	05/03/19 10:19			
ETHYLBENZENE	1.3610	1.333752	6.66	
STYRENE	2.5810	2.32684	10.12	
BROMOFORM	0.7860	0.685136	12.61	
BROMOBENZENE	3.0920	2.926324	8.63	
1,2,3-TRICHLOROPROPANE	0.5580	0.516774	6.46	
4-CHLOROTOLUENE	3.60	3.37295	6.93	
1,3,5-TRIMETHYLBENZENE	4.5180	4.590165	8.11	
TERT-BUTYLBENZENE	3.0430	2.860797	9.11	
1,2,4-TRIMETHYLBENZENE	3.5320	3.382219	8.31	
P-ISOPROPYLTOLUENE	3.4810	3.268953	9.21	
1,2,4-TRICHLOROBENZENE		1.032997	18.88	0.995
1,2,3-TRICHLOROBENZENE	1.2770	1.039527	13.36	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.3460	0.310864	14.95	
METHYL ACETATE	0.5460	0.501697	7.49	
ACRYLONITRILE	0.2970	0.251782	13.01	
1,3-DICHLOROBENZENE	1.9790	1.71422	12.76	
N-BUTYLBENZENE	3.0080	2.686829	12.81	
2-HEXANONE	0.8340	0.729848	11.57	
File ID:	0502_19			

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/10/19 18:31
Instrument ID:	VOCMS6	**Calibration (end) date/time:**	04/12/19 07:14
Lab File ID:	0410_27-6	**Analysis date/time:**	04/10/19 22:45
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	0.865159	0.80790930		6.62	40	0.0250	0.0233457	93.40	75 - 122
1,1,1-TRICHLOROETHANE	0.543214	0.55925620		2.95	40	0.0250	0.02573829	103	70 - 130
1,1,2,2-TETRACHLOROETHANE	1.304017	1.227082		5.90	30	0.0250	0.02352504	94.10	60 - 140
1,1,2-TRICHLOROETHANE	0.808222	0.76386760		5.49	40	0.0250	0.02362802	94.50	78 - 120
1,1,2-TRICHLOROTRIFLUOROETHANE	0.282561	0.32302820		14.30	40	0.0250	0.02858035	114	61 - 136
1,1-DICHLOROETHANE	0.750836	0.73129310		2.60	30	0.0250	0.02434929	97.40	70 - 130
1,1-DICHLOROETHENE	0.256388	0.29327340		14.40	30	0.0250	0.02859664	114	50 - 150
1,1-DICHLOROPROPENE	0.451602	0.45913620		1.67	40	0.0250	0.02541706	102	71 - 129
1,2,3-TRICHLOROBENZENE	0.802405	0.79551590		0.8590	40	0.0250	0.02478536	99.10	61 - 133
1,2,3-TRICHLOROPROPANE	0.336002	0.30935580		7.93	40	0.0250	0.02301743	92.10	72 - 124
1,2,4-TRICHLOROBENZENE	0.871581	0.86401680		0.8680	40	0.0250	0.02478304	99.10	69 - 129
1,2,4-TRIMETHYLBENZENE	3.028055	2.847212		5.97	40	0.0250	0.02350694	94	75 - 120
1,2-DICHLOROBENZENE	1.643624	1.580127		3.86	40	0.0250	0.02403419	96.10	65 - 135
1,2-DICHLOROETHANE	0.550858	0.51751520		6.05	40	0.0250	0.02348676	93.90	70 - 130
1,2-DICHLOROPROPANE	0.282257	0.28595980		1.31	30	0.0250	0.02532792	101	35 - 165
1,3,5-TRIMETHYLBENZENE	3.064722	2.989869		2.44	40	0.0250	0.0243894	97.60	75 - 120
1,3-DICHLOROBENZENE	1.731758	1.654840		4.44	40	0.0250	0.0238896	95.60	70 - 130
1,4-DICHLOROBENZENE	1.808578	1.711573		5.36	40	0.0250	0.0236591	94.60	65 - 135
2,2-DICHLOROPROPANE	0.533607	0.50787280		4.82	40	0.0250	0.02379432	95.20	60 - 125
2-BUTANONE (MEK)	0.281755	0.42578160		51.10	40	0.1250	0.1563334	125	37 - 158
2-CHLOROTOLUENE	2.913784	2.711629		6.94	40	0.0250	0.02326553	93.10	74 - 122
2-HEXANONE	0.662264	0.69913350		5.57	40	0.1250	0.1319589	106	58 - 147
4-CHLOROTOLUENE	2.5949	2.560064		1.34	40	0.0250	0.02466439	98.70	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.805918	1.736170		3.86	40	0.1250	0.1201722	96.10	59 - 143
ACETONE	0.182996	0.28493580		55.70	40	0.1250	0.1946328	156	10 - 160
ACRYLONITRILE	0.221342	0.23527110		6.29	40	0.1250	0.1328663	106	60 - 140
BENZENE	1.364503	1.373590		0.6660	40	0.0250	0.02516648	101	65 - 135
BROMOBENZENE	1.777037	1.559844		12.20	40	0.0250	0.02194446	87.80	79 - 120
BROMOCHLOROMETHANE	0.188033	0.18161470		3.41	40	0.0250	0.0241467	96.60	76 - 122
BROMODICHLOROMETHANE	0.479966	0.47175820		1.71	40	0.0250	0.02457248	98.30	65 - 135
BROMOFORM	0.804041	0.82042770		2.04	30	0.0250	0.0255095	102	70 - 130
BROMOMETHANE	0.243746	0.39742710		63	40	0.0250	0.05555214	222	15 - 185
CARBON DISULFIDE	0.778271	1.010508		29.80	40	0.0250	0.03246002	130	55 - 127
CARBON TETRACHLORIDE	0.526675	0.51421470		2.37	40	0.0250	0.02440854	97.60	70 - 130
CHLOROBENZENE	2.494072	2.309512		7.40	30	0.0250	0.02315002	92.60	65 - 135
CHLORODIBROMOMETHANE	0.974442	0.92166970		5.42	40	0.0250	0.02364608	94.60	70 - 135
CHLOROETHANE	0.274608	0.27152110		1.12	40	0.0250	0.02471899	98.90	40 - 160
CHLOROFORM	0.649618	0.63349020		2.48	30	0.0250	0.02437935	97.50	70 - 130
CHLOROMETHANE	0.478559	0.53961790		12.80	30	0.0250	0.0281897	113	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.350162	0.34009320		2.88	40	0.0250	0.02428116	97.10	73 - 120
CIS-1,3-DICHLOROPROPENE	0.531281	0.53595230		0.8790	40	0.0250	0.02521981	101	25 - 175
CYCLOHEXANE	0.413448	0.47749670		15.50	40	0.0250	0.02887282	115	70 - 130
DIBROMOMETHANE	0.234676	0.22062340		5.99	40	0.0250	0.023503	94	78 - 120
DICHLORODIFLUOROMETHANE	0.313938	0.52787020		68.10	40	0.0250	0.04203618	168	49 - 155
ETHYLBENZENE	1.350260	1.285114		4.82	30	0.0250	0.02379383	95.20	60 - 140
ISOPROPYLBENZENE	3.968584	3.817339		3.81	40	0.0250	0.02404724	96.20	75 - 120
M&P-XYLENE	1.560946	1.541729		1.23	40	0.05	0.04938446	98.80	77 - 120

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/10/19 18:31
Instrument ID:	VOCMS6	**Calibration (end) date/time:**	04/12/19 07:14
Lab File ID:	0410_27-6	**Analysis date/time:**	04/10/19 22:45
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	0.452481	0.49263670		8.87	40	0.1250	0.1360932	109	70 - 130
METHYL CYCLOHEXANE	0.555696	0.54101940		2.64	40	0.0250	0.0271198	108	70 - 130
METHYL TERT-BUTYL ETHER	0.910631	0.89945250		1.23	40	0.0250	0.0246931	98.80	64 - 123
METHYLENE CHLORIDE	0.322848	0.32411170		0.3910	40	0.0250	0.02509787	100	60 - 140
N-BUTYLBENZENE	2.364448	2.434060		2.94	40	0.0250	0.02573602	103	72 - 126
N-PROPYLBENZENE	4.415701	4.380889		0.7880	40	0.0250	0.02480291	99.20	79 - 120
O-XYLENE	1.493916	1.473465		1.37	40	0.0250	0.02465776	98.60	78 - 120
P-ISOPROPYLTOLUENE	3.060630	2.821024		7.83	40	0.0250	0.02304283	92.20	74 - 126
SEC-BUTYLBENZENE	3.414045	3.388715		0.7420	40	0.0250	0.02481451	99.30	74 - 121
STYRENE	2.280226	2.421345		6.19	40	0.0250	0.0265472	106	78 - 124
TERT-BUTYLBENZENE	2.499078	2.388017		4.44	40	0.0250	0.02388898	95.60	75 - 122
TETRACHLOROETHENE	0.813514	0.80133010		1.50	40	0.0250	0.02462557	98.50	70 - 130
TOLUENE	3.965182	3.7592		5.19	30	0.0250	0.02370131	94.80	70 - 130
TRANS-1,2-DICHLOROETHENE	0.304529	0.30107270		1.13	40	0.0250	0.02471625	98.90	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.119654	1.121465		0.1620	40	0.0250	0.02504045	100	50 - 150
TRICHLOROETHENE	0.367084	0.36665060		0.1180	40	0.0250	0.02497047	99.90	65 - 135
TRICHLOROFLUOROMETHANE	0.551176	0.60411520		9.60	40	0.0250	0.02740118	110	50 - 150
VINYL CHLORIDE	0.537230	0.56653150		5.45	30	0.0250	0.02636354	105	5 - 195
XYLENES, TOTAL	0	1.523054		0	40	0.0750	0.07404222	98.70	77 - 120
1,2-DICHLOROETHANE-D4	0.354329	0.395752		11.70	40	0.0160	0.01787047	112	70 - 130
4-BROMOFLUOROBENZENE	0.942295	0.91086910		3.34	40	0.0160	0.01546639	96.70	70 - 130
TOLUENE-D8	2.629978	2.503501		4.81	40	0.0160	0.01523055	95.20	70 - 130

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/10/19 18:31
Instrument ID:	VOCMS6	**Calibration (end) date/time:**	04/12/19 07:14
Lab File ID:	0428_02-2	**Analysis date/time:**	04/28/19 08:56
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	0.865159	0.87254760		0.8540		0.0250	0.02521352	101	75 - 122
1,1,1-TRICHLOROETHANE	0.543214	0.61174080		12.60		0.0250	0.02815376	113	70 - 130
1,1,2,2-TETRACHLOROETHANE	1.304017	1.421225		8.99		0.0250	0.02724705	109	60 - 140
1,1,2-TRICHLOROETHANE	0.808222	0.85347520		5.60		0.0250	0.02639977	106	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.282561	0.34751690		23		0.0250	0.03074702	123	61 - 136
1,1-DICHLOROETHANE	0.750836	0.85295310		13.60		0.0250	0.02840011	114	70 - 130
1,1-DICHLOROETHENE	0.256388	0.30064860		17.30		0.0250	0.02931578	117	50 - 150
1,1-DICHLOROPROPENE	0.451602	0.49707770		10.10		0.0250	0.02751745	110	71 - 129
1,2,3-TRICHLOROBENZENE	0.802405	0.814315		1.48		0.0250	0.02537107	101	61 - 133
1,2,3-TRICHLOROPROPANE	0.336002	0.33326520		0.8150		0.0250	0.0247964	99.20	72 - 124
1,2,4-TRICHLOROBENZENE	0.871581	0.91582380		5.08		0.0250	0.02626905	105	69 - 129
1,2,4-TRIMETHYLBENZENE	3.028055	3.101949		2.44		0.0250	0.02561008	102	75 - 120
1,2-DICHLOROBENZENE	1.643624	1.708163		3.93		0.0250	0.02598166	104	65 - 135
1,2-DICHLOROETHANE	0.550858	0.58951680		7.02		0.0250	0.02675445	107	70 - 130
1,2-DICHLOROPROPANE	0.282257	0.32682560		15.80		0.0250	0.02894748	116	35 - 165
1,3,5-TRIMETHYLBENZENE	3.064722	3.236381		5.60		0.0250	0.02640028	106	75 - 120
1,3-DICHLOROBENZENE	1.731758	1.766622		2.01		0.0250	0.02550331	102	70 - 130
1,4-DICHLOROBENZENE	1.808578	1.808045		0.0295		0.0250	0.02499262	100	65 - 135
2,2-DICHLOROPROPANE	0.533607	0.52958560		0.7540		0.0250	0.02481159	99.20	60 - 125
2-BUTANONE (MEK)	0.281755	0.37427390		32.80		0.1250	0.1376559	110	37 - 158
2-CHLOROTOLUENE	2.913784	3.035623		4.18		0.0250	0.02604537	104	74 - 122
2-HEXANONE	0.662264	0.80882660		22.10		0.1250	0.1526631	122	58 - 147
4-CHLOROTOLUENE	2.5949	2.838076		9.37		0.0250	0.02734283	109	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.805918	2.126488		17.80		0.1250	0.1471889	118	59 - 143
ACETONE	0.182996	0.19987270		9.22		0.1250	0.1365283	109	10 - 160
ACRYLONITRILE	0.221342	0.27927540		26.20		0.1250	0.1577172	126	60 - 140
BENZENE	1.364503	1.527866		12		0.0250	0.02799308	112	65 - 135
BROMOBENZENE	1.777037	1.749637		1.54		0.0250	0.02461453	98.50	79 - 120
BROMOCHLOROMETHANE	0.188033	0.20688490		10		0.0250	0.02750652	110	76 - 122
BROMODICHLOROMETHANE	0.479966	0.51120580		6.51		0.0250	0.02662718	107	65 - 135
BROMOFORM	0.804041	0.83422360		3.75		0.0250	0.02593846	104	70 - 130
BROMOMETHANE	0.243746	0.08818731		63.80		0.0250	0.01202951	48.10	15 - 185
CARBON DISULFIDE	0.778271	0.95381410		22.60		0.0250	0.03063888	123	55 - 127
CARBON TETRACHLORIDE	0.526675	0.541885		2.89		0.0250	0.02572199	103	70 - 130
CHLOROBENZENE	2.494072	2.585243		3.66		0.0250	0.02591388	104	65 - 135
CHLORODIBROMOMETHANE	0.974442	0.964298		1.04		0.0250	0.02473974	99	70 - 135
CHLOROETHANE	0.274608	0.27422110		0.1410		0.0250	0.02496479	99.90	40 - 160
CHLOROFORM	0.649618	0.69933370		7.65		0.0250	0.02691328	108	70 - 130
CHLOROMETHANE	0.478559	0.46485650		2.86		0.0250	0.02428416	97.10	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.350162	0.38217920		9.14		0.0250	0.02728591	109	73 - 120
CIS-1,3-DICHLOROPROPENE	0.531281	0.57921790		9.02		0.0250	0.02725571	109	25 - 175
CYCLOHEXANE	0.413448	0.47661280		15.30		0.0250	0.02881937	115	70 - 130
DIBROMOMETHANE	0.234676	0.24801680		5.68		0.0250	0.02642123	106	78 - 120
DICHLORODIFLUOROMETHANE	0.313938	0.46616920		48.50		0.0250	0.0371227	148	49 - 155
ETHYLBENZENE	1.350260	1.435773		6.33		0.0250	0.02658327	106	60 - 140
ISOPROPYLBENZENE	3.968584	4.292902		8.17		0.0250	0.02704304	108	75 - 120
M&P-XYLENE	1.560946	1.722572		10.40		0.05	0.05517717	110	77 - 120

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/10/19 18:31
Instrument ID:	VOCMS6	**Calibration (end) date/time:**	04/12/19 07:14
Lab File ID:	0428_02-2	**Analysis date/time:**	04/28/19 08:56
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	0.452481	0.54661110		20.80		0.1250	0.1510038	121	70 - 130
METHYL CYCLOHEXANE	0.555696	0.54639630		1.67		0.0250	0.02739196	110	70 - 130
METHYL TERT-BUTYL ETHER	0.910631	1.010345		10.90		0.0250	0.02773747	111	64 - 123
METHYLENE CHLORIDE	0.322848	0.35213970		9.07		0.0250	0.02726825	109	60 - 140
N-BUTYLBENZENE	2.364448	2.589030		9.50		0.0250	0.02737456	109	72 - 126
N-PROPYLBENZENE	4.415701	4.838685		9.58		0.0250	0.02739477	110	79 - 120
O-XYLENE	1.493916	1.658702		11		0.0250	0.02775762	111	78 - 120
P-ISOPROPYLTOLUENE	3.060630	3.119493		1.92		0.0250	0.02548081	102	74 - 126
SEC-BUTYLBENZENE	3.414045	3.653909		7.03		0.0250	0.02675645	107	74 - 121
STYRENE	2.280226	2.701872		18.50		0.0250	0.02962284	118	78 - 124
TERT-BUTYLBENZENE	2.499078	2.577363		3.13		0.0250	0.02578313	103	75 - 122
TETRACHLOROETHENE	0.813514	0.88491180		8.78		0.0250	0.0271941	109	70 - 130
TOLUENE	3.965182	4.330010		9.20		0.0250	0.0273002	109	70 - 130
TRANS-1,2-DICHLOROETHENE	0.304529	0.32215750		5.79		0.0250	0.02644718	106	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.119654	1.296819		15.80		0.0250	0.02895581	116	50 - 150
TRICHLOROETHENE	0.367084	0.40977150		11.60		0.0250	0.02790719	112	65 - 135
TRICHLOROFLUOROMETHANE	0.551176	0.58612810		6.34		0.0250	0.02658533	106	50 - 150
VINYL CHLORIDE	0.537230	0.57209350		6.49		0.0250	0.02662237	106	5 - 195
XYLENES, TOTAL		1.677052		0		0.05	0.05517717	110	77 - 120
1,2-DICHLOROETHANE-D4	0.354329	0.38724340		9.29		0.0160	0.01748626	109	70 - 130
4-BROMOFLUOROBENZENE	0.942295	0.97719480		3.70		0.0160	0.01659259	104	70 - 130
TOLUENE-D8	2.629978	2.643791		0.5250		0.0160	0.01608404	101	70 - 130

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	05/02/19 15:26
Instrument ID:	VOCMS7	**Calibration (end) date/time:**	05/08/19 09:15
Lab File ID:	0502_22-8	**Analysis date/time:**	05/03/19 12:36
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	0.857142	0.84664630		1.22	40	0.0250	0.02469388	98.80	75 - 122
1,1,1-TRICHLOROETHANE	0.556757	0.61251310		10	40	0.0250	0.02750362	110	70 - 130
1,1,2,2-TETRACHLOROETHANE	2.158436	2.266681		5.01	30	0.0250	0.02625374	105	60 - 140
1,1,2-TRICHLOROETHANE	0.782434	0.82326840		5.22	40	0.0250	0.02630472	105	78 - 120
1,1,2-TRICHLOROTRIFLUOROETHANE	0.310864	0.36235660		16.60	40	0.0250	0.02914113	117	61 - 136
1,1-DICHLOROETHANE	0.745561	0.79542030		6.69	30	0.0250	0.02667186	107	70 - 130
1,1-DICHLOROETHENE	0.294465	0.34073810		15.70	30	0.0250	0.02892854	116	50 - 150
1,1-DICHLOROPROPENE	0.484785	0.52016060		7.30	40	0.0250	0.02682429	107	71 - 129
1,2,3-TRICHLOROBENZENE	1.039527	1.073601		3.28	40	0.0250	0.02581945	103	61 - 133
1,2,3-TRICHLOROPROPANE	0.516774	0.50938540		1.43	40	0.0250	0.02464258	98.60	72 - 124
1,2,4-TRICHLOROBENZENE	1.032997	1.175882		13.80	40	0.0250	0.02372301	94.90	69 - 129
1,2,4-TRIMETHYLBENZENE	3.382219	3.393827		0.3430	40	0.0250	0.0250858	100	75 - 120
1,2-DICHLOROBENZENE	1.796259	1.800939		0.2610	40	0.0250	0.02506514	100	65 - 135
1,2-DICHLOROETHANE	0.508743	0.51396230		1.03	40	0.0250	0.02525648	101	70 - 130
1,2-DICHLOROPROPANE	0.286015	0.32493750		13.60	30	0.0250	0.02840215	114	35 - 165
1,3,5-TRIMETHYLBENZENE	4.590165	4.447242		3.11	40	0.0250	0.02422158	96.90	75 - 120
1,3-DICHLOROBENZENE	1.714220	1.823746		6.39	40	0.0250	0.02659732	106	70 - 130
1,4-DICHLOROBENZENE	1.941181	1.798318		7.36	40	0.0250	0.0231601	92.60	65 - 135
2,2-DICHLOROPROPANE	0.587866	0.59820070		1.76	40	0.0250	0.02543951	102	60 - 125
2-BUTANONE (MEK)	0.389893	0.427128		9.55	40	0.1250	0.1369375	110	37 - 158
2-CHLOROTOLUENE	4.329308	4.224231		2.43	40	0.0250	0.02439322	97.60	74 - 122
2-HEXANONE	0.729848	0.76907690		5.37	40	0.1250	0.1317186	105	58 - 147
4-CHLOROTOLUENE	3.372950	3.388184		0.4520	40	0.0250	0.02511291	100	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.911461	2.002036		4.74	40	0.1250	0.1309231	105	59 - 143
ACETONE	0.235810	0.28126950		19.30	40	0.1250	0.1490973	119	10 - 160
ACRYLONITRILE	0.251782	0.29157340		15.80	40	0.1250	0.1447551	116	60 - 140
BENZENE	1.5314	1.546833		1.01	40	0.0250	0.02525194	101	65 - 135
BROMOBENZENE	2.926324	2.742290		6.29	40	0.0250	0.02342777	93.70	79 - 120
BROMOCHLOROMETHANE	0.196537	0.20141470		2.48	40	0.0250	0.02562046	102	76 - 122
BROMODICHLOROMETHANE	0.455374	0.49182860		8.01	40	0.0250	0.02700133	108	65 - 135
BROMOFORM	0.685136	0.73268490		6.94	30	0.0250	0.026735	107	70 - 130
BROMOMETHANE	0.168674	0.26700760		58.30	40	0.0250	0.04937765	198	15 - 185
CARBON DISULFIDE	0.967567	1.078569		11.50	40	0.0250	0.02786805	111	55 - 127
CARBON TETRACHLORIDE	0.482218	0.55414890		14.90	40	0.0250	0.02872916	115	70 - 130
CHLOROBENZENE	2.325244	2.355886		1.32	30	0.0250	0.02532944	101	65 - 135
CHLORODIBROMOMETHANE	0.876925	0.93638580		6.78	40	0.0250	0.02669514	107	70 - 135
CHLOROETHANE	0.271876	0.26608170		2.13	40	0.0250	0.02446718	97.90	40 - 160
CHLOROFORM	0.638811	0.68193070		6.75	30	0.0250	0.02668752	107	70 - 130
CHLOROMETHANE	0.599521	0.72181770		20.40	30	0.0250	0.03009974	120	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.374101	0.387719		3.64	40	0.0250	0.02591007	104	73 - 120
CIS-1,3-DICHLOROPROPENE	0.567313	0.599938		5.75	40	0.0250	0.0264377	106	25 - 175
CYCLOHEXANE	0.426886	0.53947620		26.40	40	0.0250	0.03159371	126	70 - 130
DIBROMOMETHANE	0.217832	0.22870970		4.99	40	0.0250	0.02624835	105	78 - 120
DICHLORODIFLUOROMETHANE	0.338319	0.58496220		72.90	40	0.0250	0.0432256	173	49 - 155
ETHYLBENZENE	1.333752	1.350944		1.29	30	0.0250	0.02532225	101	60 - 140
ISOPROPYLBENZENE	3.677305	3.966478		7.86	40	0.0250	0.02696593	108	75 - 120
M&P-XYLENE	1.630859	1.614428		1.01	40	0.05	0.04949622	99	77 - 120

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	05/02/19 15:26
Instrument ID:	VOCMS7	**Calibration (end) date/time:**	05/08/19 09:15
Lab File ID:	0502_22-8	**Analysis date/time:**	05/03/19 12:36
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	0.501697	0.59223260		18	40	0.1250	0.1475573	118	70 - 130
METHYL CYCLOHEXANE	0.516245	0.54092060		4.78	40	0.0250	0.02619495	105	70 - 130
METHYL TERT-BUTYL ETHER	1.016982	1.074582		5.66	40	0.0250	0.02641596	106	64 - 123
METHYLENE CHLORIDE	0.347041	0.35356910		1.88	40	0.0250	0.02547028	102	60 - 140
N-BUTYLBENZENE	2.686829	2.730469		1.62	40	0.0250	0.02540605	102	72 - 126
N-PROPYLBENZENE	7.428350	7.627474		2.68	40	0.0250	0.02567015	103	79 - 120
O-XYLENE	1.529787	1.561009		2.04	40	0.0250	0.02551023	102	78 - 120
P-ISOPROPYLTOLUENE	3.268953	3.246265		0.6940	40	0.0250	0.02482649	99.30	74 - 126
SEC-BUTYLBENZENE	3.940157	3.917972		0.5630	40	0.0250	0.02485923	99.40	74 - 121
STYRENE	2.326840	2.518502		8.24	40	0.0250	0.02705925	108	78 - 124
TERT-BUTYLBENZENE	2.860797	2.939255		2.74	40	0.0250	0.02568563	103	75 - 122
TETRACHLOROETHENE	0.772857	0.79054760		2.29	40	0.0250	0.02557224	102	70 - 130
TOLUENE	4.215206	4.096812		2.81	30	0.0250	0.02429782	97.20	70 - 130
TRANS-1,2-DICHLOROETHENE	0.326004	0.35689890		9.48	40	0.0250	0.02736919	109	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.204447	1.270835		5.51	40	0.0250	0.02637796	106	50 - 150
TRICHLOROETHENE	0.380769	0.38140960		0.1680	40	0.0250	0.02504204	100	65 - 135
TRICHLOROFLUOROMETHANE	0.469594	0.637347		35.70	40	0.0250	0.03393074	136	50 - 150
VINYL CHLORIDE	0.480256	0.55937420		16.50	30	0.0250	0.02911853	116	5 - 195
XYLENES, TOTAL	0	3.158588		0	40	0.0750	0.07500645	100	77 - 120
1,2-DICHLOROETHANE-D4	0.327073	0.30614080		6.40	40	0.0160	0.014976	93.60	70 - 130
4-BROMOFLUOROBENZENE	0.845348	0.81009330		4.17	40	0.0160	0.01533273	95.80	70 - 130
TOLUENE-D8	2.613241	2.417739		7.48	40	0.0160	0.01480301	92.50	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	05/02/19 15:26
Instrument ID:	VOCMS7	**Calibration (end) date/time:**	05/08/19 09:15
Lab File ID:	0508_29-2	**Analysis date/time:**	05/08/19 21:13
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	0.857142	0.82099190		4.22		0.0250	0.02394563	95.80	75 - 122
1,1,1-TRICHLOROETHANE	0.556757	0.59560760		6.98		0.0250	0.02674451	107	70 - 130
1,1,2,2-TETRACHLOROETHANE	2.158436	2.179321		0.9680		0.0250	0.0252419	101	60 - 140
1,1,2-TRICHLOROETHANE	0.782434	0.79040880		1.02		0.0250	0.0252548	101	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.310864	0.35685620		14.80		0.0250	0.02869878	115	61 - 136
1,1-DICHLOROETHANE	0.745561	0.77546890		4.01		0.0250	0.02600286	104	70 - 130
1,1-DICHLOROETHENE	0.294465	0.30943520		5.08		0.0250	0.02627093	105	50 - 150
1,1-DICHLOROPROPENE	0.484785	0.513367		5.90		0.0250	0.02647395	106	71 - 129
1,2,3-TRICHLOROBENZENE	1.039527	0.94296320		9.29		0.0250	0.02267769	90.70	61 - 133
1,2,3-TRICHLOROPROPANE	0.516774	0.501280		3		0.0250	0.02425046	97	72 - 124
1,2,4-TRICHLOROBENZENE	1.032997	1.083478		4.89		0.0250	0.02188094	87.50	69 - 129
1,2,4-TRIMETHYLBENZENE	3.382219	3.395245		0.3850		0.0250	0.02509628	100	75 - 120
1,2-DICHLOROBENZENE	1.796259	1.680687		6.43		0.0250	0.02339149	93.60	65 - 135
1,2-DICHLOROETHANE	0.508743	0.50644090		0.4530		0.0250	0.02488688	99.50	70 - 130
1,2-DICHLOROPROPANE	0.286015	0.313461		9.60		0.0250	0.02739901	110	35 - 165
1,3,5-TRIMETHYLBENZENE	4.590165	4.508448		1.78		0.0250	0.02455493	98.20	75 - 120
1,3-DICHLOROBENZENE	1.714220	1.750556		2.12		0.0250	0.02552992	102	70 - 130
1,4-DICHLOROBENZENE	1.941181	1.865252		3.91		0.0250	0.02402213	96.10	65 - 135
2,2-DICHLOROPROPANE	0.587866	0.55580560		5.45		0.0250	0.02363658	94.50	60 - 125
2-BUTANONE (MEK)	0.389893	0.40771020		4.57		0.1250	0.1307122	105	37 - 158
2-CHLOROTOLUENE	4.329308	4.318274		0.2550		0.0250	0.02493629	99.70	74 - 122
2-HEXANONE	0.729848	0.74872840		2.59		0.1250	0.1282335	103	58 - 147
4-CHLOROTOLUENE	3.372950	3.367723		0.1550		0.0250	0.02496126	99.80	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.911461	2.034255		6.42		0.1250	0.1330301	106	59 - 143
ACETONE	0.235810	0.24666180		4.60		0.1250	0.1307522	105	10 - 160
ACRYLONITRILE	0.251782	0.27515970		9.28		0.1250	0.1366064	109	60 - 140
BENZENE	1.5314	1.543278		0.7760		0.0250	0.02519392	101	65 - 135
BROMOBENZENE	2.926324	2.931944		0.1920		0.0250	0.02504801	100	79 - 120
BROMOCHLOROMETHANE	0.196537	0.21774680		10.80		0.0250	0.02769794	111	76 - 122
BROMODICHLOROMETHANE	0.455374	0.46857240		2.90		0.0250	0.02572457	103	65 - 135
BROMOFORM	0.685136	0.70025860		2.21		0.0250	0.02555179	102	70 - 130
BROMOMETHANE	0.168674	0.11708390		30.60		0.0250	0.02270543	90.80	15 - 185
CARBON DISULFIDE	0.967567	1.009184		4.30		0.0250	0.02607529	104	55 - 127
CARBON TETRACHLORIDE	0.482218	0.53584880		11.10		0.0250	0.02778042	111	70 - 130
CHLOROBENZENE	2.325244	2.3636		1.65		0.0250	0.02541238	102	65 - 135
CHLORODIBROMOMETHANE	0.876925	0.87432460		0.2970		0.0250	0.02492586	99.70	70 - 135
CHLOROETHANE	0.271876	0.23877510		12.20		0.0250	0.02195624	87.80	40 - 160
CHLOROFORM	0.638811	0.65136430		1.97		0.0250	0.02549129	102	70 - 130
CHLOROMETHANE	0.599521	0.677294		13		0.0250	0.02824311	113	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.374101	0.38743030		3.56		0.0250	0.02589077	104	73 - 120
CIS-1,3-DICHLOROPROPENE	0.567313	0.57207130		0.8390		0.0250	0.02520969	101	25 - 175
CYCLOHEXANE	0.426886	0.48709260		14.10		0.0250	0.02852593	114	70 - 130
DIBROMOMETHANE	0.217832	0.21994730		0.9710		0.0250	0.02524272	101	78 - 120
DICHLORODIFLUOROMETHANE	0.338319	0.439418		29.90		0.0250	0.03247066	130	49 - 155
ETHYLBENZENE	1.333752	1.358555		1.86		0.0250	0.0254649	102	60 - 140
ISOPROPYLBENZENE	3.677305	3.885508		5.66		0.0250	0.02641545	106	75 - 120
M&P-XYLENE	1.630859	1.630289		0.0350		0.05	0.04998252	100	77 - 120

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	05/02/19 15:26
Instrument ID:	VOCMS7	**Calibration (end) date/time:**	05/08/19 09:15
Lab File ID:	0508_29-2	**Analysis date/time:**	05/08/19 21:13
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	0.501697	0.57533920		14.70		0.1250	0.1433482	115	70 - 130
METHYL CYCLOHEXANE	0.516245	0.49096970		4.90		0.0250	0.02377599	95.10	70 - 130
METHYL TERT-BUTYL ETHER	1.016982	0.992151		2.44		0.0250	0.02438959	97.60	64 - 123
METHYLENE CHLORIDE	0.347041	0.34129710		1.66		0.0250	0.02458623	98.30	60 - 140
N-BUTYLBENZENE	2.686829	2.615562		2.65		0.0250	0.02433688	97.30	72 - 126
N-PROPYLBENZENE	7.428350	8.124663		9.37		0.0250	0.02734343	109	79 - 120
O-XYLENE	1.529787	1.546395		1.09		0.0250	0.02527141	101	78 - 120
P-ISOPROPYLTOLUENE	3.268953	3.244939		0.7350		0.0250	0.02481634	99.30	74 - 126
SEC-BUTYLBENZENE	3.940157	3.782754		3.99		0.0250	0.02400129	96	74 - 121
STYRENE	2.326840	2.445371		5.09		0.0250	0.02627352	105	78 - 124
TERT-BUTYLBENZENE	2.860797	2.913861		1.85		0.0250	0.02546372	102	75 - 122
TETRACHLOROETHENE	0.772857	0.80170120		3.73		0.0250	0.02593303	104	70 - 130
TOLUENE	4.215206	4.152568		1.49		0.0250	0.0246285	98.50	70 - 130
TRANS-1,2-DICHLOROETHENE	0.326004	0.35075830		7.59		0.0250	0.02689829	108	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.204447	1.265041		5.03		0.0250	0.02625772	105	50 - 150
TRICHLOROETHENE	0.380769	0.40251960		5.71		0.0250	0.02642804	106	65 - 135
TRICHLOROFLUOROMETHANE	0.469594	0.632834		34.80		0.0250	0.03369048	135	50 - 150
VINYL CHLORIDE	0.480256	0.55169190		14.90		0.0250	0.02871862	115	5 - 195
XYLENES, TOTAL	0	3.429806		0		0.0750	0.07525393	100	77 - 120
1,2-DICHLOROETHANE-D4	0.327073	0.33347420		1.96		0.0160	0.01631312	102	70 - 130
4-BROMOFLUOROBENZENE	0.845348	0.83844250		0.8170		0.0160	0.01586929	99.20	70 - 130
TOLUENE-D8	2.613241	2.411716		7.71		0.0160	0.01476613	92.30	70 - 130

625.1 Semi Volatile Organic Compounds (GC/MS)

2A-OR

SURROGATE RECOVERY

Analytical Method: 625.1 **SDG:** L1092757
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-20190424-002-DAY 1	L1092757-01	BNAMS26	0430A_18	50.5	35.5	79.6	82.3	92.4	87.0	0
WW-20190424-002-DAY 1	L1092757-01	BNAMS23	0501_10	47.6	31.0	71.7	76.1	95.7	90.0	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:** L1092757
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.	
MS	R3406931-6	BNAMS26	0430A_35	68.4	85.5	91.9	31.3	44.0	101	0
MSD	R3406931-7	BNAMS26	0430A_36	71.8	85.5	90.4	34.4	51.5	102	0
BLANK	R3407174-3	BNAMS23	0501_08	65.9	73.1	78.8	16.9	31.3	79.0	0
BLANK	R3406931-1	BNAMS26	0430A_10	74.8	77.5	76.5	18.7	31.6	66.0	0
LCS	R3407174-1	BNAMS23	0501_06	59.5	78.1	85.8	20.9	36.8	98.0	0
LCS	R3406931-3	BNAMS26	0430A_13	69.5	80.6	85.1	25.1	39.8	87.0	0
LCSD	R3407174-2	BNAMS23	0501_07	54.0	67.5	74.2	24.2	39.6	84.5	0
LCSD	R3406931-4	BNAMS26	0430A_14	61.1	70.6	71.2	29.1	44.1	79.0	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.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1092757-01

SAMPLE NO.:
R3406931-6
R3406931-7

MS Sample / File ID:	R3406931-6 / 0430A_35	**SDG:**	L1092757
MSD Sample / File ID:	R3406931-7 / 0430A_36	**Analytical Batch:**	WG1273971
OS Sample / File ID:	L1093026-03 / 0430A_34	**Matrix:**	WW
Instrument ID:	BNAMS26		
Analytical Method:	625.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Acenaphthene	0.0500	U	0.0391	0.0418	78.2	83.6	1	47.0 - 145	6.67	48
Acenaphthylene	0.0500	U	0.0454	0.0488	90.8	97.6	1	33.0 - 145	7.22	74
Anthracene	0.0500	U	0.0409	0.0408	81.8	81.6	1	27.0 - 133	0.245	66
Benzidine	0.100	U	0.00877	0.00731	8.77	7.31	1	1.00 - 120	18.2	40
Benzo(a)anthracene	0.0500	U	0.0455	0.0444	91.0	88.8	1	33.0 - 143	2.45	53
Benzo(b)fluoranthene	0.0500	U	0.0469	0.0476	93.8	95.2	1	24.0 - 159	1.48	71
Benzo(k)fluoranthene	0.0500	U	0.0475	0.0461	95.0	92.2	1	11.0 - 162	2.99	63
Benzo(a)pyrene	0.0500	U	0.0444	0.0451	88.8	90.2	1	17.0 - 163	1.56	72
Bis(2-chlorethoxy)methane	0.0500	U	0.0369	0.0410	73.8	82.0	1	33.0 - 184	10.5	54
Bis(2-chloroethyl)ether	0.0500	U	0.0348	0.0399	69.6	79.8	1	12.0 - 158	13.7	108
Bis(2-chloroisopropyl)ether	0.0500	U	0.0340	0.0389	68.0	77.8	1	36.0 - 166	13.4	76
2-Chloronaphthalene	0.0500	U	0.0366	0.0398	73.2	79.6	1	60.0 - 120	8.38	24
Chrysene	0.0500	U	0.0436	0.0427	87.2	85.4	1	17.0 - 168	2.09	87
Dibenz(a,h)anthracene	0.0500	U	0.0437	0.0441	87.4	88.2	1	1.00 - 227	0.911	126
Dibenzofuran	0.0500	U	0.0463	0.0487	92.6	97.4	1	17.0 - 150	5.05	27
Biphenyl	0.0500	U	0.0385	0.0398	77.0	79.6	1	23.0 - 130	3.32	27
3,3-Dichlorobenzidine	0.100	U	0.0820	0.0818	82.0	81.8	1	1.00 - 262	0.244	108
2,4-Dinitrotoluene	0.0500	U	0.0504	0.0486	101	97.2	1	39.0 - 139	3.64	42
2,6-Dinitrotoluene	0.0500	U	0.0457	0.0466	91.4	93.2	1	50.0 - 158	1.95	48
Fluoranthene	0.0500	U	0.0494	0.0499	98.8	99.8	1	26.0 - 137	1.01	66
Fluorene	0.0500	U	0.0487	0.0495	97.4	99.0	1	59.0 - 121	1.63	38
Hexachlorobenzene	0.0500	U	0.0487	0.0497	97.4	99.4	1	1.00 - 152	2.03	55
Hexachloro-1,3-butadiene	0.0500	U	0.0359	0.0398	71.8	79.6	1	24.0 - 120	10.3	62
Hexachlorocyclopentadiene	0.0500	U	0.0313	0.0346	62.6	69.2	1	10.0 - 146	10.0	34
Indeno(1,2,3-cd)pyrene	0.0500	U	0.0439	0.0441	87.8	88.2	1	1.00 - 171	0.455	99
Isophorone	0.0500	U	0.0416	0.0431	83.2	86.2	1	21.0 - 196	3.54	93
Carbazole	0.0500	U	0.0479	0.0481	95.8	96.2	1	23.0 - 158	0.417	26
Naphthalene	0.0500	U	0.0308	0.0369	61.6	73.8	1	21.0 - 133	18.0	65
n-Decane	0.0500	U	0.0277	0.0318	55.4	63.6	1	10.0 - 127	13.8	37
n-Octadecane	0.0500	U	0.0391	0.0404	78.2	80.8	1	17.0 - 126	3.27	23
Nitrobenzene	0.0500	U	0.0338	0.0386	67.6	77.2	1	35.0 - 180	13.3	62
n-Nitrosodimethylamine	0.0500	U	0.0233	0.0255	46.6	51.0	1	10.0 - 120	9.02	40
n-Nitrosodiphenylamine	0.0500	U	0.0420	0.0437	84.0	87.4	1	16.0 - 160	3.97	28
n-Nitrosodi-n-propylamine	0.0500	U	0.0427	0.0480	85.4	96.0	1	1.00 - 230	11.7	87
Phenanthrene	0.0500	U	0.0393	0.0401	78.6	80.2	1	54.0 - 120	2.02	39
Benzylbutyl phthalate	0.0500	U	0.0458	0.0447	91.6	89.4	1	1.00 - 152	2.43	60
Bis(2-ethylhexyl)phthalate	0.0500	U	0.0473	0.0465	94.6	93.0	1	8.00 - 158	1.71	82
Di-n-butyl phthalate	0.0500	U	0.0522	0.0542	104	108	1	1.00 - 120	3.76	47
Diethyl phthalate	0.0500	U	0.0555	0.0562	111	112	1	1.00 - 120	1.25	100
Dimethyl phthalate	0.0500	U	0.0474	0.0461	94.8	92.2	1	1.00 - 120	2.78	183
Pyrene	0.0500	U	0.0428	0.0421	85.6	84.2	1	52.0 - 120	1.65	49
Pyridine	0.0500	U	0.0186	0.0194	37.2	38.8	1	10.0 - 120	4.21	40
4-Chloro-3-methylphenol	0.0500	U	0.0434	0.0461	86.8	92.2	1	22.0 - 147	6.03	73

*: 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

L1092757-01

SAMPLE NO.:
R3406931-6
R3406931-7

MS Sample / File ID:	R3406931-6 / 0430A_35	**SDG:**	L1092757
MSD Sample / File ID:	R3406931-7 / 0430A_36	**Analytical Batch:**	WG1273971
OS Sample / File ID:	L1093026-03 / 0430A_34	**Matrix:**	WW
Instrument ID:	BNAMS26		
Analytical Method:	625.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
2-Chlorophenol	0.0500	U	0.0327	0.0371	65.4	74.2	1	23.0 - 134	12.6	61
2-Methylphenol	0.0500	U	0.0332	0.0378	66.4	75.6	1	14.0 - 120	13.0	29
3&4-Methyl Phenol	0.0500	U	0.0359	0.0406	71.8	81.2	1	13.0 - 124	12.3	26
2,4-Dichlorophenol	0.0500	U	0.0354	0.0393	70.8	78.6	1	39.0 - 135	10.4	50
2,4-Dimethylphenol	0.0500	U	0.0380	0.0397	76.0	79.4	1	32.0 - 120	4.38	58
4,6-Dinitro-2-methylphenol	0.0500	U	0.0478	0.0503	95.6	101	1	1.00 - 181	5.10	203
2,4-Dinitrophenol	0.0500	U	0.0466	0.0487	93.2	97.4	1	1.00 - 191	4.41	132
2-Nitrophenol	0.0500	U	0.0346	0.0400	69.2	80.0	1	29.0 - 182	14.5	55
4-Nitrophenol	0.0500	U	0.0234	0.0234	46.8	46.8	1	1.00 - 132	0.000	131
Benzoic Acid	0.100	U	0.0391	0.0378	39.1	37.8	1	10.0 - 120	3.38	40
Pentachlorophenol	0.0500	U	0.0448	0.0461	89.6	92.2	1	14.0 - 176	2.86	86
Phenol	0.0500	U	0.0165	0.0195	33.0	39.0	1	5.00 - 120	16.7	64
2,4,5-Trichlorophenol	0.0500	U	0.0469	0.0503	93.8	101	1	15.0 - 160	7.00	27
2,4,6-Trichlorophenol	0.0500	U	0.0464	0.0481	92.8	96.2	1	37.0 - 144	3.60	58
Acetophenone	0.0500	U	0.0387	0.0423	77.4	84.6	1	10.0 - 139	8.89	35
Aniline	0.0500	U	0.0272	0.0248	54.4	49.6	1	10.0 - 120	9.23	25
Azobenzene	0.0500	U	0.0497	0.0496	99.4	99.2	1	18.0 - 156	0.201	34
4-Chloroaniline	0.0500	U	0.0306	0.0225	61.2	45.0	1	10.0 - 137	30.5	33
1-Methylnaphthalene	0.0500	U	0.0331	0.0361	66.2	72.2	1	33.0 - 120	8.67	23
2-Methylnaphthalene	0.0500	U	0.0336	0.0357	67.2	71.4	1	13.0 - 142	6.06	29
2-Nitroaniline	0.0500	U	0.0468	0.0476	93.6	95.2	1	13.0 - 160	1.69	27
3-Nitroaniline	0.0500	U	0.0482	0.0477	96.4	95.4	1	10.0 - 160	1.04	26
4-Nitroaniline	0.0500	U	0.0496	0.0515	99.2	103	1	17.0 - 160	3.76	29
Benzyl Alcohol	0.0500	U	0.0380	0.0419	76.0	83.8	1	17.0 - 120	9.76	40
1,2,4,5-Tetrachlorobenzene	0.0500	U	0.0419	0.0455	83.8	91.0	1	10.0 - 147	8.24	34

*: 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

L1092757-01

SAMPLE NO.:
R3406931-3
R3406931-4

LCS Sample / File ID:	R3406931-3 / 0430A_13	**SDG:**	L1092757
LCSD Sample / File ID:	R3406931-4 / 0430A_14	**Analytical Batch:**	WG1273971
Instrument ID:	BNAMS26	**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*	*%*	*%*	*%*	*%*	*%*
Biphenyl	0.0500	0.0365	0.0319	73.0	63.8	37.0 - 120	13.5	27
Carbazole	0.0500	0.0431	0.0393	86.2	78.6	45.0 - 121	9.22	22
Acenaphthene	0.0500	0.0369	0.0327	73.8	65.4	47.0 - 145	12.1	48
Acenaphthylene	0.0500	0.0437	0.0387	87.4	77.4	33.0 - 145	12.1	74
Anthracene	0.0500	0.0369	0.0336	73.8	67.2	27.0 - 133	9.36	66
Benzidine	0.100	0.0648	0.0309	64.8	30.9	1.00 - 120	70.8*	36
Benzo(a)anthracene	0.0500	0.0426	0.0369	85.2	73.8	33.0 - 143	14.3	53
Benzo(b)fluoranthene	0.0500	0.0416	0.0370	83.2	74.0	24.0 - 159	11.7	71
Acetophenone	0.0500	0.0374	0.0347	74.8	69.4	28.0 - 120	7.49	27
Benzo(k)fluoranthene	0.0500	0.0429	0.0377	85.8	75.4	11.0 - 162	12.9	63
Aniline	0.0500	0.0529	0.0311	106	62.2	10.0 - 120	51.9*	25
Benzo(a)pyrene	0.0500	0.0411	0.0362	82.2	72.4	17.0 - 163	12.7	72
Azobenzene	0.0500	0.0443	0.0396	88.6	79.2	37.0 - 125	11.2	20
Bis(2-chlorethoxy)methane	0.0500	0.0351	0.0317	70.2	63.4	1.00 - 219	10.2	54
Bis(2-chloroethyl)ether	0.0500	0.0324	0.0318	64.8	63.6	33.0 - 185	1.87	108
Bis(2-chloroisopropyl)ether	0.0500	0.0331	0.0305	66.2	61.0	36.0 - 166	8.18	76
2-Chloronaphthalene	0.0500	0.0355	0.0313	71.0	62.6	60.0 - 120	12.6	24
Chrysene	0.0500	0.0416	0.0359	83.2	71.8	17.0 - 168	14.7	87
Dibenz(a,h)anthracene	0.0500	0.0424	0.0376	84.8	75.2	1.00 - 227	12.0	126
Dibenzofuran	0.0500	0.0435	0.0381	87.0	76.2	42.0 - 120	13.2	21
3,3-Dichlorobenzidine	0.100	0.0816	0.0689	81.6	68.9	1.00 - 262	16.9	108
4-Chloroaniline	0.0500	0.0368	0.0338	73.6	67.6	23.0 - 120	8.50	28
2,4-Dinitrotoluene	0.0500	0.0432	0.0383	86.4	76.6	39.0 - 139	12.0	42
2,6-Dinitrotoluene	0.0500	0.0413	0.0360	82.6	72.0	50.0 - 158	13.7	48
Fluoranthene	0.0500	0.0429	0.0388	85.8	77.6	26.0 - 137	10.0	66
Fluorene	0.0500	0.0425	0.0383	85.0	76.6	59.0 - 121	10.4	38
Hexachlorobenzene	0.0500	0.0426	0.0399	85.2	79.8	1.00 - 152	6.55	55
Hexachloro-1,3-butadiene	0.0500	0.0360	0.0315	72.0	63.0	24.0 - 120	13.3	62
Hexachlorocyclopentadiene	0.0500	0.0304	0.0277	60.8	55.4	10.0 - 120	9.29	31
Indeno(1,2,3-cd)pyrene	0.0500	0.0420	0.0363	84.0	72.6	1.00 - 171	14.6	99
Isophorone	0.0500	0.0379	0.0348	75.8	69.6	21.0 - 196	8.53	93
Naphthalene	0.0500	0.0322	0.0285	64.4	57.0	21.0 - 133	12.2	65
Nitrobenzene	0.0500	0.0339	0.0306	67.8	61.2	35.0 - 180	10.2	62
n-Nitrosodimethylamine	0.0500	0.0211	0.0236	42.2	47.2	10.0 - 120	11.2	34
n-Nitrosodiphenylamine	0.0500	0.0382	0.0343	76.4	68.6	44.0 - 120	10.8	21
n-Nitrosodi-n-propylamine	0.0500	0.0401	0.0371	80.2	74.2	1.00 - 230	7.77	87
2-Methylnaphthalene	0.0500	0.0324	0.0286	64.8	57.2	35.0 - 120	12.5	25
n-Decane	0.0500	0.0274	0.0258	54.8	51.6	10.0 - 127	6.02	37
Phenanthrene	0.0500	0.0362	0.0330	72.4	66.0	54.0 - 120	9.25	39
Benzylbutyl phthalate	0.0500	0.0413	0.0348	82.6	69.6	1.00 - 152	17.1	60
n-Octadecane	0.0500	0.0348	0.0329	69.6	65.8	17.0 - 126	5.61	23
2-Nitroaniline	0.0500	0.0416	0.0384	83.2	76.8	43.0 - 120	8.00	23

*: 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

L1092757-01

SAMPLE NO.:
R3406931-3
R3406931-4

LCS Sample / File ID:	R3406931-3 / 0430A_13	**SDG:**	L1092757
LCSD Sample / File ID:	R3406931-4 / 0430A_14	**Analytical Batch:**	WG1273971
Instrument ID:	BNAMS26	**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*	*%*	*%*	*%*	*%*	*%*
Bis(2-ethylhexyl)phthalate	0.0500	0.0423	0.0360	84.6	72.0	8.00 - 158	16.1	82
3-Nitroaniline	0.0500	0.0394	0.0412	78.8	82.4	35.0 - 123	4.47	25
Di-n-butyl phthalate	0.0500	0.0454	0.0411	90.8	82.2	1.00 - 120	9.94	47
4-Nitroaniline	0.0500	0.0416	0.0400	83.2	80.0	23.0 - 160	3.92	26
Diethyl phthalate	0.0500	0.0468	0.0417	93.6	83.4	1.00 - 120	11.5	100
Dimethyl phthalate	0.0500	0.0410	0.0375	82.0	75.0	1.00 - 120	8.92	183
Pyrene	0.0500	0.0389	0.0336	77.8	67.2	52.0 - 120	14.6	49
1-Methylnaphthalene	0.0500	0.0319	0.0281	63.8	56.2	33.0 - 120	12.7	23
Pyridine	0.0500	0.0248	0.0183	49.6	36.6	10.0 - 120	30.2	39
4-Chloro-3-methylphenol	0.0500	0.0374	0.0357	74.8	71.4	22.0 - 147	4.65	73
2-Chlorophenol	0.0500	0.0317	0.0309	63.4	61.8	23.0 - 134	2.56	61
2-Methylphenol	0.0500	0.0295	0.0312	59.0	62.4	26.0 - 120	5.60	27
3&4-Methyl Phenol	0.0500	0.0304	0.0330	60.8	66.0	27.0 - 120	8.20	28
2,4-Dichlorophenol	0.0500	0.0343	0.0311	68.6	62.2	39.0 - 135	9.79	50
2,4-Dimethylphenol	0.0500	0.0346	0.0331	69.2	66.2	32.0 - 120	4.43	58
4,6-Dinitro-2-methylphenol	0.0500	0.0425	0.0381	85.0	76.2	1.00 - 181	10.9	203
2,4-Dinitrophenol	0.0500	0.0339	0.0300	67.8	60.0	1.00 - 191	12.2	132
2-Nitrophenol	0.0500	0.0337	0.0303	67.4	60.6	29.0 - 182	10.6	55
Benzyl Alcohol	0.0500	0.0309	0.0342	61.8	68.4	20.0 - 120	10.1	22
4-Nitrophenol	0.0500	0.0158	0.0171	31.6	34.2	1.00 - 132	7.90	131
Pentachlorophenol	0.0500	0.0357	0.0311	71.4	62.2	14.0 - 176	13.8	86
Phenol	0.0500	0.0140	0.0160	28.0	32.0	5.00 - 120	13.3	64
2,4,5-Trichlorophenol	0.0500	0.0426	0.0375	85.2	75.0	44.0 - 124	12.7	24
2,4,6-Trichlorophenol	0.0500	0.0419	0.0370	83.8	74.0	37.0 - 144	12.4	58
1,2,4,5-Tetrachlorobenzene	0.0500	0.0392	0.0353	78.4	70.6	31.0 - 120	10.5	26
Atrazine	0.0500	0.0447	0.0393	89.4	78.6	39.0 - 141	12.9	30
Benzaldehyde	0.0500	0.0476	0.0445	95.2	89.0	10.0 - 160	6.73	30
Caprolactam	0.0500	0.0145	0.0146	29.0	29.2	10.0 - 120	0.687	30

*: 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

L1092757-01

SAMPLE NO.:
R3406931-5

LCS Sample / File ID:	R3406931-5 / 0430A_42	**SDG:**	L1092757
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1273971
Instrument ID:	BNAMS26	**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	0.00868		8.68*		50.0 - 150		
n-Nitrosodiethylamine	0.0500	0.0384		76.8		10.0 - 142		
n-Nitrosodi-n-butylamine	0.0500	0.0471		94.2		39.0 - 127		
Pentachlorobenzene	0.0500	0.0423		84.6		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

L1092757-01

SAMPLE NO.:
R3407174-1
R3407174-2

LCS Sample / File ID:	R3407174-1 / 0501_06	**SDG:**	L1092757
LCSD Sample / File ID:	R3407174-2 / 0501_07	**Analytical Batch:**	WG1273971
Instrument ID:	BNAMS23	**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*	*%*	*%*	*%*	*%*	*%*
Benzoic Acid	0.100	0.00698	0.00547	6.98*	5.47*	10.0 - 120	24.3	40

*: 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.:
R3407174-3

Lab Sample ID:	R3407174-3	**SDG:**	L1092757
Lab File ID:	0501_08	**Preparation Date/Time:**	04/30/19 17:16
Instrument ID:	BNAMS23	**Analysis Date/Time:**	05/01/19 11:58
Analytical Batch:	WG1273971	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3406931-3	BNAMS26	0430A_13	05/01/19 03:11
LCSD	R3406931-4	BNAMS26	0430A_14	05/01/19 03:31
WW-20190424-002-DAY 1	L1092757-01	BNAMS26	0430A_18	05/01/19 04:53
OS	L1093026-03	BNAMS26	0430A_34	05/01/19 10:19
MS	R3406931-6	BNAMS26	0430A_35	05/01/19 10:39
MSD	R3406931-7	BNAMS26	0430A_36	05/01/19 11:00
LCS	R3407174-1	BNAMS23	0501_06	05/01/19 11:16
LCSD	R3407174-2	BNAMS23	0501_07	05/01/19 11:37
WW-20190424-002-DAY 1	L1092757-01	BNAMS23	0501_10	05/01/19 12:40
LCS	R3406931-5	BNAMS26	0430A_42	05/01/19 16:21
WW-20190424-002-DAY 1	L1092757-01	BNAMS26	0430A_45	05/01/19 17:23

Sample Narrative:

Dilution due to sample volume.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3406931-1

Lab Sample ID:	R3406931-1	**SDG:**	L1092757
Lab File ID:	0430A_10	**Preparation Date/Time:**	04/30/19 17:16
Instrument ID:	BNAMS26	**Analysis Date/Time:**	05/01/19 02:10
Analytical Batch:	WG1273971	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3406931-3	BNAMS26	0430A_13	05/01/19 03:11
LCSD	R3406931-4	BNAMS26	0430A_14	05/01/19 03:31
WW-20190424-002-DAY 1	L1092757-01	BNAMS26	0430A_18	05/01/19 04:53
OS	L1093026-03	BNAMS26	0430A_34	05/01/19 10:19
MS	R3406931-6	BNAMS26	0430A_35	05/01/19 10:39
MSD	R3406931-7	BNAMS26	0430A_36	05/01/19 11:00
LCS	R3407174-1	BNAMS23	0501_06	05/01/19 11:16
LCSD	R3407174-2	BNAMS23	0501_07	05/01/19 11:37
WW-20190424-002-DAY 1	L1092757-01	BNAMS23	0501_10	05/01/19 12:40
LCS	R3406931-5	BNAMS26	0430A_42	05/01/19 16:21
WW-20190424-002-DAY 1	L1092757-01	BNAMS26	0430A_45	05/01/19 17:23

Sample Narrative:

Dilution due to sample volume.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3406931-8

Lab Sample ID:	R3406931-8	**SDG:**	L1092757
Lab File ID:	0430A_43	**Preparation Date/Time:**	04/30/19 17:16
Instrument ID:	BNAMS26	**Analysis Date/Time:**	05/01/19 16:42
Analytical Batch:	WG1273971	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3406931-3	BNAMS26	0430A_13	05/01/19 03:11
LCSD	R3406931-4	BNAMS26	0430A_14	05/01/19 03:31
WW-20190424-002-DAY 1	L1092757-01	BNAMS26	0430A_18	05/01/19 04:53
OS	L1093026-03	BNAMS26	0430A_34	05/01/19 10:19
MS	R3406931-6	BNAMS26	0430A_35	05/01/19 10:39
MSD	R3406931-7	BNAMS26	0430A_36	05/01/19 11:00
LCS	R3407174-1	BNAMS23	0501_06	05/01/19 11:16
LCSD	R3407174-2	BNAMS23	0501_07	05/01/19 11:37
WW-20190424-002-DAY 1	L1092757-01	BNAMS23	0501_10	05/01/19 12:40
LCS	R3406931-5	BNAMS26	0430A_42	05/01/19 16:21
WW-20190424-002-DAY 1	L1092757-01	BNAMS26	0430A_45	05/01/19 17:23

Sample Narrative:

Dilution due to sample volume.

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0416_05-2	**SDG:**	L1092757
Instrument ID:	BNAMS23	**Analytical Method:**	625.1
Analysis Date/Time:	04/16/19 10:10		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	39
68	69	0	2	1
69	69	100	100	100
70	69	0	2	0
127	442	10	80	54
197	198	0	2	0
198	442	50	100	88
199	198	5	9	7
275	442	10	60	21
365	198	1	100	3
441	442	0.0001	24	16
442	442	50	100	100
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-40	40	0416_06	04/16/19 10:31
STD-200	200	0416_07	04/16/19 10:52
STD-1000	1000	0416_08	04/16/19 11:14
STD-2000	2000	0416_09	04/16/19 11:35
STD-5000	5000	0416_10	04/16/19 11:56
STD-10000	10000	0416_11	04/16/19 12:17
STD-20000	20000	0416_12	04/16/19 12:38
STD-30000	30000	0416_13	04/16/19 13:00
STD-40000	40000	0416_14	04/16/19 13:21
STD-50000	50000	0416_15	04/16/19 13:42
STD-1K1	1K1	0416_16	04/16/19 14:03
STD-2K1	2K1	0416_17	04/16/19 14:24
STD-5K1	5K1	0416_18	04/16/19 14:46
STD-10K1	10K1	0416_19	04/16/19 15:07
STD-20K1	20K1	0416_20	04/16/19 15:28
STD-30K1	30K1	0416_21	04/16/19 15:49
STD-40K1	40K1	0416_22	04/16/19 16:10
STD-50K1	50K1	0416_23	04/16/19 16:32
SSCV	BNAMS230416190416_24-3470778	0416_24-3	04/16/19 16:53
SSCV	BNAMS230416190416_25-3470778	0416_25-3	04/16/19 17:14

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0501_02T-1	**SDG:**	L1092757
Instrument ID:	BNAMS23	**Analytical Method:**	625.1
Analysis Date/Time:	05/01/19 09:51		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	27
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	442	10	80	37
197	198	0	2	0
198	442	50	100	81
199	198	5	9	7
275	442	10	60	21
365	198	1	100	4
441	442	0.0001	24	15
442	442	50	100	100
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS230501190501_03-1470778	0501_03-1	05/01/19 10:12
ICV	BNAMS230501190501_04-1470778	0501_04-1	05/01/19 10:33
LCS	R3407174-1	0501_06	05/01/19 11:16
LCSD	R3407174-2	0501_07	05/01/19 11:37
BLANK	R3407174-3	0501_08	05/01/19 11:58
WW-20190424-002-DAY 1	L1092757-01	0501_10	05/01/19 12:40

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0319_02-2	**SDG:**	L1092757
Instrument ID:	BNAMS26	**Analytical Method:**	625.1
Analysis Date/Time:	03/19/19 09:17		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	42
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	46
197	198	0	2	1
198	198	50	100	100
199	198	5	9	7
275	198	10	60	21
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	72
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-1K1	1K1	0319_03	03/19/19 09:38
STD-2K1	2K1	0319_04	03/19/19 09:58
STD-5K1	5K1	0319_05	03/19/19 10:19
STD-10K1	10K1	0319_06	03/19/19 10:40
STD-20K1	20K1	0319_07	03/19/19 11:01
STD-40K1	40K1	0319_08	03/19/19 11:21
STD-04K2	04K2	0319_09	03/19/19 11:42
STD-.2K2	.2K2	0319_10	03/19/19 12:03
STD-1K2	1K2	0319_11	03/19/19 12:23
STD-2K2	2K2	0319_12	03/19/19 12:44
STD-5K2	5K2	0319_13	03/19/19 13:05
STD-10K2	10K2	0319_14	03/19/19 13:26
STD-20K2	20K2	0319_15	03/19/19 13:47
STD-40K2	40K2	0319_16	03/19/19 14:07
STD-1K3	1K3	0319_17	03/19/19 14:28
STD-2K3	2K3	0319_18	03/19/19 14:49
STD-5K3	5K3	0319_19	03/19/19 15:10
STD-10K3	10K3	0319_20	03/19/19 15:31
STD-20K3	20K3	0319_21	03/19/19 15:52
STD-40K3	40K3	0319_22	03/19/19 16:13
SSCV	BNAMS260319190319_23-3470450	0319_23-3	03/19/19 16:33
SSCV	BNAMS260319190319_23A-3470450	0319_23A-3	03/19/19 16:33
SSCV	BNAMS260319190319_23B-3470450	0319_23B-3	03/19/19 16:33

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0422_05-2	**SDG:**	L1092757
Instrument ID:	BNAMS26	**Analytical Method:**	625.1
Analysis Date/Time:	04/22/19 11:31		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	42
68	69	0	2	2
69	69	100	100	100
70	69	0	2	1
127	198	10	80	48
197	198	0	2	1
198	198	50	100	100
199	198	5	9	6
275	198	10	60	21
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	92
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-40	40	0422_06	04/22/19 11:52
STD-200	200	0422_07	04/22/19 12:13
STD-1000	1000	0422_08	04/22/19 12:34
STD-2000	2000	0422_09	04/22/19 12:55
STD-5000	5000	0422_10	04/22/19 13:16
STD-10000	10000	0422_11	04/22/19 13:37
STD-20000	20000	0422_12	04/22/19 13:58
STD-30000	30000	0422_13	04/22/19 14:19
STD-40000	40000	0422_14	04/22/19 14:40
STD-50000	50000	0422_15	04/22/19 15:01
STD-1K1	1K1	0422_16	04/22/19 15:22
STD-2K1	2K1	0422_17	04/22/19 15:43
STD-5K1	5K1	0422_18	04/22/19 16:04
STD-10K1	10K1	0422_19	04/22/19 16:25
STD-20K1	20K1	0422_20	04/22/19 16:46
STD-30K1	30K1	0422_21	04/22/19 17:07
STD-40K1	40K1	0422_22	04/22/19 17:28
STD-50K1	50K1	0422_23	04/22/19 17:49
SSCV	BNAMS260422190422_24-2470562	0422_24-2	04/22/19 18:10
SSCV	BNAMS260422190422_25-2470562	0422_25-2	04/22/19 18:31

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0430A_02T-1	**SDG:**	L1092757
Instrument ID:	BNAMS26	**Analytical Method:**	625.1
Analysis Date/Time:	04/30/19 23:26		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	45
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	442	10	80	50
197	198	0	2	1
198	442	50	100	95
199	198	5	9	7
275	442	10	60	22
365	198	1	100	4
441	442	0.0001	24	15
442	442	50	100	100
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS26043019A0430A_03-1470562	0430A_03-1	04/30/19 23:47
ICV	BNAMS26043019A0430A_04-1470562	0430A_04-1	05/01/19 00:07
BLANK	R3406931-1	0430A_10	05/01/19 02:10
LCS	R3406931-3	0430A_13	05/01/19 03:11
LCSD	R3406931-4	0430A_14	05/01/19 03:31
WW-20190424-002-DAY 1	L1092757-01	0430A_18	05/01/19 04:53
OS	L1093026-03	0430A_34	05/01/19 10:19
MS	R3406931-6	0430A_35	05/01/19 10:39
MSD	R3406931-7	0430A_36	05/01/19 11:00

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0430A_39T-1	**SDG:**	L1092757
Instrument ID:	BNAMS26	**Analytical Method:**	625.1
Analysis Date/Time:	05/01/19 15:20		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	28
68	69	0	2	1
69	69	100	100	100
70	69	0	2	1
127	442	10	80	37
197	198	0	2	1
198	442	50	100	76
199	198	5	9	7
275	442	10	60	19
365	198	1	100	4
441	442	0.0001	24	14
442	442	50	100	100
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS26043019A0430A_40-1470450	0430A_40-1	05/01/19 15:40
ICV	BNAMS26043019A0430A_41-1470450	0430A_41-1	05/01/19 16:01
LCS	R3406931-5	0430A_42	05/01/19 16:21
BLANK	R3406931-8	0430A_43	05/01/19 16:42
WW-20190424-002-DAY 1	L1092757-01	0430A_45	05/01/19 17:23

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1092757	**Analytical Method:**	625.1
Instrument ID:	BNAMS23	**Calibration Start Date:**	04/16/19 10:31
Std File:	0501_03-1	**Calibration End Date:**	04/16/19 16:32
		Std Analysis Date:	05/01/19 10:12

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		328907	3.22	705162	5.05	1267551	8.57	1216878	3.96
UPPER LIMIT		657814		1410324		2535102		2433756	
LOWER LIMIT		164454		352581		633776		608439	
LCS R3407174-1 WG1273971 1x	0501_06	374924	3.22	777234	5.05	1499462	8.57	1534998	3.96
LCSD R3407174-2 WG1273971 1x	0501_07	297776	3.22	657241	5.05	1258980	8.57	1254330	3.96
BLANK R3407174-3 WG1273971 1x	0501_08	294005	3.22	615399	5.05	1245517	8.56	1107704	3.96
L1092757-01 WG1273971 1.05x	0501_10	292121	3.22	637239	5.05	1241731	8.56	1124024	3.96

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:	L1092757	**Analytical Method:**	625.1
Instrument ID:	BNAMS23	**Calibration Start Date:**	04/16/19 10:31
Std File:	0501_03-1	**Calibration End Date:**	04/16/19 16:32
		Std Analysis Date:	05/01/19 10:12

Sample ID	File ID	PER		PHEN	
		Response	*RT*	*Response*	*RT*
STANDARD		1280452	11	1182168	6.07
UPPER LIMIT		2560904		2364336	
LOWER LIMIT		640226		591084	
LCS R3407174-1 WG1273971 1x	0501_06	1469326	11	1469970	6.07
LCSD R3407174-2 WG1273971 1x	0501_07	1244395	11	1267644	6.07
BLANK R3407174-3 WG1273971 1x	0501_08	1263724	10.99	1186054	6.06
L1092757-01 WG1273971 1.05x	0501_10	1229178	11	1230231	6.07

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

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

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1092757	**Analytical Method:**	625.1
Instrument ID:	BNAMS26	**Calibration Start Date:**	04/22/19 11:52
Std File:	0430A_03-1	**Calibration End Date:**	04/22/19 17:49
		Std Analysis Date:	04/30/19 23:47

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		286229	3.18	557556	5	1082694	8.41	1076524	3.91
UPPER LIMIT		572458		1115112		2165388		2153048	
LOWER LIMIT		143115		278778		541347		538262	
BLANK R3406931-1 WG1273971 1x	0430A_10	243371	3.18	471841	4.99	975231	8.40	891605	3.91
LCS R3406931-3 WG1273971 1x	0430A_13	230525	3.18	478953	4.99	975761	8.40	979150	3.91
LCSD R3406931-4 WG1273971 1x	0430A_14	220170	3.18	469044	4.99	973477	8.40	953585	3.91
L1092757-01 WG1273971 1.05x	0430A_18	226108	3.18	476578	4.99	1014802	8.40	880995	3.91
OS L1093026-03 WG1273971 1x	0430A_34	228367	3.18	471451	4.99	1147754	8.40	871115	3.91
MS R3406931-6 WG1273971 1x	0430A_35	225078	3.18	505162	4.99	1123701	8.40	985090	3.91
MSD R3406931-7 WG1273971 1x	0430A_36	225877	3.18	530881	4.99	1182895	8.41	1009909	3.91

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:	L1092757	**Analytical Method:**	625.1
Instrument ID:	BNAMS26	**Calibration Start Date:**	04/22/19 11:52
Std File:	0430A_03-1	**Calibration End Date:**	04/22/19 17:49
		Std Analysis Date:	04/30/19 23:47

Sample ID	File ID	PER		PHEN	
		Response	*RT*	*Response*	*RT*
STANDARD		1001604	10.82	1131071	5.97
UPPER LIMIT		2003208		2262142	
LOWER LIMIT		500802		565536	
BLANK R3406931-1 WG1273971 1x	0430A_10	918998	10.81	980631	5.97
LCS R3406931-3 WG1273971 1x	0430A_13	976822	10.81	999066	5.97
LCSD R3406931-4 WG1273971 1x	0430A_14	943176	10.81	958979	5.97
L1092757-01 WG1273971 1.05x	0430A_18	997191	10.81	996508	5.97
OS L1093026-03 WG1273971 1x	0430A_34	1111564	10.81	1086134	5.97
MS R3406931-6 WG1273971 1x	0430A_35	1055146	10.82	1106451	5.97
MSD R3406931-7 WG1273971 1x	0430A_36	1084748	10.82	1157896	5.97

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:	L1092757	**Analytical Method:**	625.1
Instrument ID:	BNAMS26	**Calibration Start Date:**	03/19/19 09:38
Std File:	0430A_40-1	**Calibration End Date:**	03/19/19 16:13
		Std Analysis Date:	05/01/19 15:40

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		189922	3.18	417074	4.99	1044854	8.40	850064	3.91
UPPER LIMIT		379844		834148		2089708		1700128	
LOWER LIMIT		94961		208537		522427		425032	
LCS R3406931-5 WG1273971 1x	0430A_42	268280	3.18	582945	4.99	1381306	8.40	1151053	3.91
BLANK R3406931-8 WG1273971 1x	0430A_43	253228	3.18	518077	4.99	1359956	8.39	963971	3.91
L1092757-01 WG1273971 1.05x	0430A_45	263860	3.18	585396	4.99	1494586	8.40	1040039	3.91

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:	L1092757	**Analytical Method:**	625.1
Instrument ID:	BNAMS26	**Calibration Start Date:**	03/19/19 09:38
Std File:	0430A_40-1	**Calibration End Date:**	03/19/19 16:13
		Std Analysis Date:	05/01/19 15:40

Sample ID	**File ID**	**PER**		**PHEN**	
		Response	*RT*	*Response*	*RT*
STANDARD		1109634	10.82	890701	5.97
UPPER LIMIT		2219268		1781402	
LOWER LIMIT		554817		445351	
LCS R3406931-5 WG1273971 1x	0430A_42	1343951	10.82	1272232	5.97
BLANK R3406931-8 WG1273971 1x	0430A_43	1419910	10.81	1164966	5.97
L1092757-01 WG1273971 1.05x	0430A_45	1528554	10.82	1289227	5.97

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-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0501_10	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	BNAMS23	**Preparation Date/Time:**	04/30/19 17:17
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 12:40
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Benzoic acid	65-85-0	3.85	U	J4	0.00462	0.0100	0.0105

Sample Narrative:

Dilution due to sample volume.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0430A_18	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:17
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 04:53
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.01	U		0.000332	0.00100	0.00105
Acenaphthylene	208-96-8	4.93	U		0.000324	0.00100	0.00105
Acetophenone	98-86-2	3.40	U		0.00285	0.0100	0.0105
Aniline	62-53-3	2.98	U	J3	0.00255	0.0100	0.0105
Anthracene	120-12-7	6.01	U		0.000306	0.00100	0.00105
Atrazine	1912-24-9	5.78	U		0.000273	0.0100	0.0105
Benzaldehyde	100-52-7	2.95	U		0.00147	0.0100	0.0105
Benzidine	92-87-5	6.95	U	J3	0.00454	0.0100	0.0105
Benzo(a)anthracene	56-55-3	0	U		0.000102	0.00100	0.00105
Benzo(b)fluoranthene	205-99-2	10.10	U		0.0000941	0.00100	0.00105
Benzo(k)fluoranthene	207-08-9	0	U		0.000373	0.00100	0.00105
Benzo(a)pyrene	50-32-8	10.70	U		0.000357	0.00100	0.00105
Benzyl alcohol	100-51-6	3.25	U		0.000413	0.0100	0.0105
Biphenyl	92-52-4	4.62	U		0.000341	0.0100	0.0105
Bis(2-chlorethoxy)methane	111-91-1	3.74	U		0.000345	0.0100	0.0105
Bis(2-chloroethyl)ether	111-44-4	3.02	U		0.00170	0.0100	0.0105
Bis(2-chloroisopropyl)ether	39638-32-9	3.31	U		0.000467	0.0100	0.0105
Caprolactam	105-60-2	4.15	U		0.00272	0.0100	0.0105
Carbazole	86-74-8	6.19	U		0.000273	0.0100	0.0105
4-Chloroaniline	106-47-8	3.97	U		0.000401	0.0100	0.0105
2-Chloronaphthalene	91-58-7	4.68	U		0.000347	0.00100	0.00105
Chrysene	218-01-9	8.42	U		0.000349	0.00100	0.00105
n-Decane	124-18-5	0	U		0.000626	0.0100	0.0105
Dibenz(a,h)anthracene	53-70-3	12.78	U		0.000293	0.00100	0.00105
Dibenzofuran	132-64-9	5.12	U		0.000355	0.0100	0.0105
3,3-Dichlorobenzidine	91-94-1	8.36	U		0.00212	0.0100	0.0105
2,4-Dinitrotoluene	121-14-2	5.11	U		0.00173	0.0100	0.0105
2,6-Dinitrotoluene	606-20-2	4.87	U		0.000293	0.0100	0.0105
1,2-Diphenylhydrazine	103-33-3	5.45	U		0.000334	0.0100	0.0105
Fluoranthene	206-44-0	6.82	U		0.000326	0.00100	0.00105
Fluorene	86-73-7	5.38	U		0.000339	0.00100	0.00105
Hexachlorobenzene	118-74-1	0	U		0.000358	0.00100	0.00105
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000345	0.0100	0.0105
Hexachlorocyclopentadiene	77-47-4	4.47	U		0.00245	0.0100	0.0105
Hexachloroethane	67-72-1	3.49	U		0.000383	0.0100	0.0105
Indeno(1,2,3-cd)pyrene	193-39-5	12.72	U		0.000293	0.00100	0.00105
Isophorone	78-59-1	3.63	U		0.000286	0.0100	0.0105
1-Methylnaphthalene	90-12-0	4.41	U		0.000349	0.00100	0.00105
2-Methylnaphthalene	91-57-6	4.34	U		0.000327	0.00100	0.00105
2-Nitroaniline	88-74-4	4.71	U		0.00200	0.0100	0.0105
3-Nitroaniline	99-09-2	4.97	U		0.000323	0.0100	0.0105
4-Nitroaniline	100-01-6	5.35	U		0.000366	0.0100	0.0105
Naphthalene	91-20-3	3.92	U		0.000391	0.00100	0.00105

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0430A_18	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:17
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 04:53
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Nitrobenzene	98-95-3	3.49	U		0.000385	0.0100	0.0105
n-Nitrosodimethylamine	62-75-9	0	U		0.00132	0.0100	0.0105
n-Nitrosodiphenylamine	86-30-6	0	U		0.00125	0.0100	0.0105
n-Nitrosodi-n-propylamine	621-64-7	3.42	U		0.000423	0.0100	0.0105
Phenanthrene	85-01-8	5.98	U		0.000384	0.00100	0.00105
Pyridine	110-86-1	1.95	U		0.00144	0.0100	0.0105
Benzylbutyl phthalate	85-68-7	7.68	U		0.000289	0.00300	0.00315
Bis(2-Ethylhexyl)phthalate	117-81-7	8.44	U		0.000744	0.00300	0.00315
Di-n-butyl phthalate	84-74-2	6.35	0.000392	J	0.000279	0.00300	0.00315
Diethyl phthalate	84-66-2	5.25	U		0.000296	0.00300	0.00315
Dimethyl phthalate	131-11-3	4.81	U		0.000297	0.00300	0.00315
n-Octadecane	593-45-3	0	U		0.000396	0.0100	0.0105
Pyrene	129-00-0	7.11	U		0.000347	0.00100	0.00105
1,2,4,5-Tetrachlorobenzene	95-94-3	0	U		0.00253	0.0100	0.0105
4-Chloro-3-methylphenol	59-50-7	4.25	U		0.000276	0.0100	0.0105
2-Chlorophenol	95-57-8	3.07	U		0.000297	0.0100	0.0105
2,4-Dichlorophenol	120-83-2	0	U		0.000298	0.0100	0.0105
2,4-Dimethylphenol	105-67-9	3.71	U		0.000655	0.0100	0.0105
4,6-Dinitro-2-methylphenol	534-52-1	0	U		0.00275	0.0100	0.0105
2,4-Dinitrophenol	51-28-5	4.99	U		0.00341	0.0100	0.0105
2-Methylphenol	95-48-7	3.31	U		0.000328	0.0100	0.0105
3&4-Methyl Phenol	3&4-Methyl Phenol	3.37	U		0.000279	0.0100	0.0105
2-Nitrophenol	88-75-5	3.70	U		0.000336	0.0100	0.0105
4-Nitrophenol	100-02-7	5.08	U		0.00211	0.0100	0.0105
Pentachlorophenol	87-86-5	0	U		0.000329	0.0100	0.0105
Phenol	108-95-2	2.98	0.00184	J	0.000351	0.0100	0.0105
2,4,5-Trichlorophenol	95-95-4	0	U		0.000248	0.0100	0.0105
2,4,6-Trichlorophenol	88-06-2	0	U		0.000312	0.0100	0.0105

Sample Narrative:

Dilution due to sample volume.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0430A_45	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:17
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 17:23
Dilution Factor:	1.05	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	95 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
Hexachlorophene	70-30-4	0	U	J4	0.00151	0.0500	0.0525
n-Nitrosodiethylamine	55-18-5	0	U		0.000522	0.0100	0.0105
n-Nitrosodi-n-butylamine	924-16-3	0	U		0.000348	0.0100	0.0105
Pentachlorobenzene	608-93-5	0	U		0.000387	0.0100	0.0105

Sample Narrative:

Dilution due to sample volume.

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	RRF: 40	RRF: 200	RRF: 1000	RRF: 2000	RRF: 5000	RRF: 10000	RRF: 20000	RRF: 30000	RRF: 40000	RRF: 50000
Analysis date/time	04/16/19 10:31	04/16/19 10:52	04/16/19 11:14	04/16/19 11:35	04/16/19 11:56	04/16/19 12:17	04/16/19 12:38	04/16/19 13:00	04/16/19 13:21	04/16/19 13:42
NAPHTHALENE	1.1470	1.0990	1.0650	1.0840	1.0880	1.1890	1.1370	0.9910	0.7730	0.7960
2-METHYLNAPHTHALENE	0.6250	0.6250	0.6170	0.6310	0.6560	0.7310	0.73	0.7040	0.5840	0.5920
1-METHYLNAPHTHALENE	0.5740	0.5910	0.5890	0.6060	0.62	0.6960	0.6940	0.68	0.57	0.5780
2-CHLORONAPHTHALENE	0.9970	1.0780	1.0980	1.1140	1.1340	1.3280	1.3420	1.3410	1.21	1.1940
ACENAPHTHYLENE	1.6440	1.7250	1.7980	1.85	1.8690	2.1590	2.0740	1.9160	1.6110	1.6740
ACENAPHTHENE	1.1490	1.2690	1.2080	1.2420	1.2770	1.4820	1.4960	1.4220	1.2050	1.2510
FLUORENE	1.1770	1.2430	1.2280	1.2770	1.3430	1.6290	1.6660	1.5870	1.3670	1.3690
PHENANTHRENE	1.1130	1.0350	1.0170	1.0710	1.0970	1.2130	1.19	1.10	0.9360	0.9430
ANTHRACENE	0.9480	0.9620	1.0230	1.0630	1.1320	1.2640	1.2250	1.1670	0.9010	0.9290
FLUORANTHENE	0.8940	0.9210	0.9380	1.0280	1.0430	1.1970	1.2290	1.2030	1.02	1.0460
PYRENE	1.1010	1.1780	1.1470	1.2130	1.2060	1.3090	1.2680	1.2070	1.0910	1.0460
BENZO(A)ANTHRACENE	1.55	1.0770	1.0120	1.0270	1.0320	1.1220	1.1190	1.1120	1.0730	1.0650
CHRYSENE	1.0790	1.0490	1.0450	1.09	1.0840	1.19	1.2010	1.17	1.1040	1.0920
BIS(2-ETHYLHEXYL)PHTHALATE	0.6960	0.6190	0.7220	0.7740	0.8660	0.9950	1.0130	1.0440	0.9770	0.9430
BENZO(B)FLUORANTHENE	0.99	0.9530	0.9930	1.0350	1.0570	1.19	1.2360	1.2840	1.3130	1.3330
BENZO(K)FLUORANTHENE	0.88	0.9690	1.0160	1.0890	1.1350	1.2850	1.3150	1.3240	1.3190	1.3180
BENZO(A)PYRENE	0.7550	0.8340	0.9420	0.9910	1.0390	1.1850	1.2230	1.2410	1.2650	1.2750
INDENO(1,2,3-CD)PYRENE	0.74	0.8460	0.8570	0.9110	0.9330	1.0260	1.0460	1.0830	1.2040	
DIBENZ(A,H)ANTHRACENE	0.6880	0.8620	0.9060	0.9640	0.9950	1.1050	1.16	1.1980	1.2670	1.28
PYRIDINE		1.3220	1.2670	1.3260	1.3170	1.4720	1.4350	1.4370	1.3940	1.4070
N-NITROSODIMETHYLAMINE		0.8170	0.6220	0.6220	0.6010	0.6520	0.6450	0.6180	0.62	0.6150
ANILINE		0.5560	0.5740	0.6180	0.6250	0.7010	0.7010	0.6990	0.7140	0.7070
BIS(2-CHLOROETHYL)ETHER		0.8440	0.8140	0.8530	0.8580	0.9450	0.95	0.9370	0.9770	0.95
PHENOL		1.5770	1.5850	1.6490	1.6850	1.8890	1.9040	1.9150	1.8960	1.8350
2-CHLOROPHENOL		1.2870	1.3060	1.3660	1.3950	1.5930	1.6320	1.6530	1.5470	1.5420
N-DECANE		0.6520	0.62	0.6510	0.67	0.7670	0.7610	0.7460	0.7030	0.7040
BENZYL ALCOHOL		0.8950	0.9330	0.9620	0.9990	1.12	1.1230	1.1260	1.1570	1.1190
BIS(2-CHLOROISOPROPYL)ETHER		0.5010	0.4660	0.4710	0.4790	0.5250	0.5260	0.53	0.5490	0.5370
2-METHYLPHENOL		1.1450	1.18	1.2470	1.2790	1.43	1.44	1.4240	1.3840	1.38
HEXACHLOROETHANE		0.6170	0.58	0.60	0.6320	0.7060	0.7110	0.7280	0.7180	0.7150
N-NITROSODI-N-PROPYLAMINE		0.8810	0.8290	0.8270	0.8730	0.9620	0.97	0.9710	1.0310	0.9740
3&4-METHYL PHENOL		1.3810	1.3720	1.4580	1.4970	1.6570	1.67	1.6290	1.6280	1.58
NITROBENZENE		0.3230	0.3240	0.34	0.3380	0.3810	0.3870	0.3880	0.3750	0.3760
ISOPHORONE		0.5590	0.5730	0.5990	0.63	0.6960	0.69	0.6880	0.6690	0.6550
2,4-DIMETHYLPHENOL		0.3030	0.3220	0.3340	0.3470	0.3970	0.4110	0.4170	0.4030	0.3990
BIS(2-CHLORETHOXY)METHANE		0.3820	0.3790	0.4010	0.4080	0.45	0.4530	0.4580	0.4330	0.4270
2,4-DICHLOROPHENOL		0.2370	0.2320	0.2430	0.2530	0.2770	0.2880	0.2970	0.2950	0.2880
4-CHLOROANILINE		0.0920	0.0930	0.1030	0.1040	0.12	0.1230	0.1280	0.1320	0.1280
HEXACHLORO-1,3-BUTADIENE		0.1260	0.1190	0.1240	0.1240	0.1430	0.1480	0.1580	0.1650	0.1610
4-CHLORO-3-METHYLPHENOL		0.2250	0.2460	0.2550	0.27	0.3060	0.3210	0.3320	0.3360	0.3270
BIPHENYL		1.5030	1.4970	1.56	1.5480	1.7930	1.79	1.6840	1.3180	1.37
DIMETHYL PHTHALATE		1.1720	1.1960	1.2380	1.2460	1.4270	1.4440	1.40	1.2750	1.2770
3-NITROANILINE		0.2980	0.34	0.3660	0.3770	0.4320	0.4380	0.4470	0.4670	0.4590
DIBENZOFURAN		1.5490	1.5260	1.5920	1.5860	1.80	1.7940	1.7130	1.4270	1.4760
DIETHYL PHTHALATE		1.1770	1.2250	1.2710	1.3010	1.4750	1.5120	1.4870	1.2970	1.3250
AZOBENZENE		1.3010	1.3780	1.4610	1.4850	1.6790	1.71	1.6080	1.3920	1.3680
N-NITROSODIPHENYLAMINE		0.5530	0.5850	0.6130	0.6380	0.7190	0.7140	0.7310	0.6510	0.6570
HEXACHLOROBENZENE		0.1820	0.1780	0.1830	0.1880	0.2160	0.2340	0.2540		
N-OCTADECANE		0.1010	0.1050	0.1110	0.1150	0.1320	0.1370			
CARBAZOLE		0.9040	0.9820	1.0380	1.0670	1.22	1.1840	1.1210	0.9460	0.9630

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/16/19 10:31	04/16/19 10:52	04/16/19 11:14	04/16/19 11:35	04/16/19 11:56	04/16/19 12:17	04/16/19 12:38	04/16/19 13:00	04/16/19 13:21	04/16/19 13:42
DI-N-BUTYL PHTHALATE		1.0090	1.0810	1.1980	1.2620	1.4830	1.4250	1.2790	0.9830	
BENZYLBUTYL PHTHALATE		0.4480	0.5290	0.5530	0.5970	0.6660	0.6830	0.6930	0.6910	0.6760
2-FLUOROPHENOL		1.1790	1.1720	1.2240	1.2380	1.3660	1.3460	1.3540	1.2980	1.3050
PHENOL-D5		1.5590	1.5380	1.6220	1.6510	1.8210	1.8450	1.8520	1.8840	1.8380
NITROBENZENE-D5		0.3640	0.3640	0.38	0.3860	0.4290	0.4320	0.4370	0.3810	0.3650
2-FLUOROBIPHENYL		1.2760	1.2560	1.3110	1.3180	1.5220	1.4980	1.4450	1.2030	1.23
P-TERPHENYL-D14		0.74	0.74	0.79	0.8040	0.8940	0.9150	0.91	0.8410	0.8240
2-NITROPHENOL			0.1530	0.1680	0.1780	0.2070	0.2160	0.2240	0.2250	0.2220
2-NITROANILINE			0.3920	0.4160	0.4360	0.5070	0.5250	0.54	0.5580	0.5430
2,6-DINITROTOLUENE			0.27	0.2810	0.2870	0.3260	0.3370	0.35	0.3880	0.3690
2,4-DINITROTOLUENE			0.3370	0.36	0.3720	0.4240	0.44	0.4570	0.4970	0.4940
4-NITROPHENOL			0.2640	0.2920	0.3040	0.3570	0.3740	0.3780	0.3910	0.3980
4,6-DINITRO-2-METHYLPHENOL			0.0710	0.0820	0.0940	0.1110	0.1190	0.1290	0.1470	0.1440
PENTACHLOROPHENOL			0.0830	0.0930	0.1020	0.12	0.1280	0.1430		
HEXACHLOROCYCLOPENTADIENE				0.3240	0.3380	0.4040	0.4310	0.4630	0.4620	0.4660
2,4,6-TRICHLOROPHENOL				0.3020	0.3180	0.3710	0.4160	0.4170		
2,4,5-TRICHLOROPHENOL				0.3180	0.3270	0.3830	0.3740	0.4210	0.4190	0.4420
2,4-DINITROPHENOL				0.1130	0.1340	0.1820	0.2150	0.24	0.2470	
4-NITROANILINE				0.4170	0.4580	0.5670	0.5870	0.5670	0.5540	0.5570
2,4,6-TRIBROMOPHENOL				0.0880	0.0940	0.1150	0.12	0.1350		
BENZALDEHYDE										
ACETOPHENONE										
BENZOIC ACID										
CAPROLACTAM										
1,2,4,5-TETRACHLOROBENZENE										
ATRAZINE										
BENZIDINE										
3,3-DICHLOROBENZIDINE										
File ID:	0416_06	0416_07	0416_08	0416_09	0416_10	0416_11	0416_12	0416_13	0416_14	0416_15

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/16/19 14:03	04/16/19 14:24	04/16/19 14:46	04/16/19 15:07	04/16/19 15:28	04/16/19 15:49	04/16/19 16:10	04/16/19 16:32
NAPHTHALENE								
2-METHYLNAPHTHALENE								
1-METHYLNAPHTHALENE								
2-CHLORONAPHTHALENE								
ACENAPHTHYLENE								
ACENAPHTHENE								
FLUORENE								
PHENANTHRENE								
ANTHRACENE								
FLUORANTHENE								
PYRENE								
BENZO(A)ANTHRACENE								
CHRYSENE								
BIS(2-ETHYLHEXYL)PHTHALATE								
BENZO(B)FLUORANTHENE								
BENZO(K)FLUORANTHENE								
BENZO(A)PYRENE								
INDENO(1,2,3-CD)PYRENE								
DIBENZ(A,H)ANTHRACENE								
PYRIDINE								
N-NITROSODIMETHYLAMINE								
ANILINE								
BIS(2-CHLOROETHYL)ETHER								
PHENOL								
2-CHLOROPHENOL								
N-DECANE								
BENZYL ALCOHOL								
BIS(2-CHLOROISOPROPYL)ETHER								
2-METHYLPHENOL								
HEXACHLOROETHANE								
N-NITROSODI-N-PROPYLAMINE								
3&4-METHYL PHENOL								
NITROBENZENE								
ISOPHORONE								
2,4-DIMETHYLPHENOL								
BIS(2-CHLORETHOXY)METHANE								
2,4-DICHLOROPHENOL								
4-CHLOROANILINE								
HEXACHLORO-1,3-BUTADIENE								
4-CHLORO-3-METHYLPHENOL								
BIPHENYL								
DIMETHYL PHTHALATE								
3-NITROANILINE								
DIBENZOFURAN								
DIETHYL PHTHALATE								
AZOBENZENE								
N-NITROSODIPHENYLAMINE								
HEXACHLOROBENZENE								
N-OCTADECANE								
CARBAZOLE								

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GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/16/19 14:03	04/16/19 14:24	04/16/19 14:46	04/16/19 15:07	04/16/19 15:28	04/16/19 15:49	04/16/19 16:10	04/16/19 16:32
DI-N-BUTYL PHTHALATE								
BENZYLBUTYL PHTHALATE								
2-FLUOROPHENOL								
PHENOL-D5								
NITROBENZENE-D5								
2-FLUOROBIPHENYL								
P-TERPHENYL-D14								
2-NITROPHENOL								
2-NITROANILINE								
2,6-DINITROTOLUENE								
2,4-DINITROTOLUENE								
4-NITROPHENOL								
4,6-DINITRO-2-METHYLPHENOL								
PENTACHLOROPHENOL								
HEXACHLOROCYCLOPENTADIENE								
2,4,6-TRICHLOROPHENOL								
2,4,5-TRICHLOROPHENOL								
2,4-DINITROPHENOL								
4-NITROANILINE								
2,4,6-TRIBROMOPHENOL								
BENZALDEHYDE	0.7570	0.7610	0.7440	0.8240	0.8380	0.8690	0.92	0.92
ACETOPHENONE	1.8270	1.8430	1.9040	2.11	2.14	2.2330	2.1680	2.2230
BENZOIC ACID	0.1910	0.1860	0.1990	0.1990	0.1750	0.16	0.1550	0.1420
CAPROLACTAM	0.1060	0.1040	0.1080	0.1040	0.09	0.08	0.0720	
1,2,4,5-TETRACHLOROBENZENE	0.2270	0.2220	0.2210	0.2140	0.1880	0.1740	0.1630	
ATRAZINE		0.2880	0.3120	0.3590	0.38	0.4060	0.4290	
BENZIDINE		0.6110	0.71	0.8420	0.8940	0.97	0.9460	0.9530
3,3-DICHLOROBENZIDINE		0.0630	0.0720	0.0810	0.0850	0.0940	0.1020	0.1050
File ID:	0416_16	0416_17	0416_18	0416_19	0416_20	0416_21	0416_22	0416_23

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GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1
Instrument ID: BNAMS23

Analyte Analysis date/time	RRF. Avg	%RSD	COD
NAPHTHALENE	1.036904	13.8	
2-METHYLNAPHTHALENE	0.649426	8.35	
1-METHYLNAPHTHALENE	0.619905	8.19	
2-CHLORONAPHTHALENE	1.183795	10.23	
ACENAPHTHYLENE	1.831859	9.9	
ACENAPHTHENE	1.300169	9.39	
FLUORENE	1.388442	12.74	
PHENANTHRENE	1.071696	8.6	
ANTHRACENE	1.061432	12.23	
FLUORANTHENE	1.051793	11.51	
PYRENE	1.176635	6.94	
BENZO(A)ANTHRACENE	1.118993	13.97	
CHRYSENE	1.110404	5.08	
BIS(2-ETHYLHEXYL)PHTHALATE	0.864903	17.55	0.997
BENZO(B)FLUORANTHENE	1.138536	12.97	
BENZO(K)FLUORANTHENE	1.164881	14.53	
BENZO(A)PYRENE	1.074977	17.67	0.998
INDENO(1,2,3-CD)PYRENE	0.960718	14.79	
DIBENZ(A,H)ANTHRACENE	1.042455	18.47	0.996
PYRIDINE	1.375299	5.04	
N-NITROSODIMETHYLAMINE	0.645631	10.25	
ANILINE	0.655076	9.51	
BIS(2-CHLOROETHYL)ETHER	0.90295	6.64	
PHENOL	1.770643	8.15	
2-CHLOROPHENOL	1.480093	9.6	
N-DECANE	0.697191	7.57	
BENZYL ALCOHOL	1.047936	9.56	
BIS(2-CHLOROISOPROPYL)ETHER	0.509472	6.1	
2-METHYLPHENOL	1.323366	8.54	
HEXACHLOROETHANE	0.66733	8.86	
N-NITROSODI-N-PROPYLAMINE	0.924281	7.87	
3&4-METHYL PHENOL	1.541321	7.59	
NITROBENZENE	0.358925	7.65	
ISOPHORONE	0.639798	8.14	
2,4-DIMETHYLPHENOL	0.370388	11.76	
BIS(2-CHLORETHOXY)METHANE	0.421141	7.14	
2,4-DICHLOROPHENOL	0.267648	9.85	
4-CHLOROANILINE	0.113683	13.7	
HEXACHLORO-1,3-BUTADIENE	0.140862	12.9	
4-CHLORO-3-METHYLPHENOL	0.291071	14.47	
BIPHENYL	1.562679	10.72	
DIMETHYL PHTHALATE	1.297185	7.8	
3-NITROANILINE	0.40256	14.8	
DIBENZOFURAN	1.607065	8.33	
DIETHYL PHTHALATE	1.340898	9.04	
AZOBENZENE	1.486889	9.85	
N-NITROSODIPHENYLAMINE	0.651138	9.5	
HEXACHLOROBENZENE	0.205161	14.53	
N-OCTADECANE	0.116779	12.49	
CARBAZOLE	1.047274	10.49	
DI-N-BUTYL PHTHALATE	1.215082	15.14	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte Analysis date/time	RRF. Avg	%RSD	COD
BENZYLBUTYL PHTHALATE	0.615006	14.32	
2-FLUOROPHENOL	1.27561	5.87	
PHENOL-D5	1.734388	8.04	
NITROBENZENE-D5	0.392969	7.82	
2-FLUOROBIPHENYL	1.340042	8.84	
P-TERPHENYL-D14	0.828816	8.13	
2-NITROPHENOL	0.199126	14.37	
2-NITROANILINE	0.489833	13.24	
2,6-DINITROTOLUENE	0.326228	13.29	
2,4-DINITROTOLUENE	0.422598	14.37	
4-NITROPHENOL	0.344819	14.73	
4,6-DINITRO-2-METHYLPHENOL	0.112128	24.84	0.992
PENTACHLOROPHENOL	0.111538	20.29	0.993
HEXACHLOROCYCLOPENTADIENE	0.41257	14.52	
2,4,6-TRICHLOROPHENOL	0.364775	14.74	
2,4,5-TRICHLOROPHENOL	0.383431	12.45	
2,4-DINITROPHENOL	0.188528	29.45	0.993
4-NITROANILINE	0.529689	12.25	
2,4,6-TRIBROMOPHENOL	0.110431	17.27	0.994
BENZALDEHYDE	0.829204	8.56	
ACETOPHENONE	2.055843	8.27	
BENZOIC ACID	0.175817	12.23	
CAPROLACTAM	0.094785	15.1	
1,2,4,5-TETRACHLOROBENZENE	0.201136	12.87	
ATRAZINE	0.362229	14.91	
BENZIDINE	0.846735	16.21	0.999
3,3-DICHLOROBENZIDINE	0.085927	17.92	0.994

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GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS26

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/22/19 11:52	04/22/19 12:13	04/22/19 12:34	04/22/19 12:55	04/22/19 13:16	04/22/19 13:37	04/22/19 13:58	04/22/19 14:19	04/22/19 14:40	04/22/19 15:01
NAPHTHALENE	1.2010	1.0580	1.0610	1.0580	1.0480	1.0680	0.9480	0.9660	0.9040	0.8340
2-METHYLNAPHTHALENE	0.6710	0.6950	0.6890	0.6760	0.6720	0.6950	0.6280	0.6420	0.6140	0.6090
1-METHYLNAPHTHALENE	0.7710	0.6560	0.6620	0.6370	0.6430	0.6480	0.5910	0.6090	0.5850	0.5740
2-CHLORONAPHTHALENE	1.1770	1.2950	1.2520	1.2720	1.2240	1.2770	1.1020	1.1610	1.0870	1.0470
ACENAPHTHYLENE	1.8530	1.8190	1.8810	1.8670	1.8330	1.9440	1.6730	1.6830	1.5880	1.5050
ACENAPHTHENE	1.5690	1.2910	1.2810	1.2210	1.2610	1.2780	1.1210	1.1640	1.1330	1.08
FLUORENE	1.5060	1.3550	1.3520	1.3250	1.3340	1.3930	1.21	1.2550	1.2040	1.1650
PHENANTHRENE	1.40	1.1590	1.12	1.1480	1.0790	1.1530	0.9740	1.0230	0.9770	0.9150
ANTHRACENE	1.1910	1.1150	1.1060	1.1840	1.1430	1.1870	1.0240	1.06	1.0030	0.9550
FLUORANTHENE	1.1360	1.1240	1.0950	1.1380	1.1810	1.2220	1.0930	1.1290	1.0950	1.0360
PYRENE	1.4230	1.2880	1.2750	1.3840	1.3620	1.4290	1.2850	1.3170	1.27	1.2420
BENZO(A)ANTHRACENE	1.5930	1.1290	1.0670	1.1020	1.1050	1.19	1.0740	1.13	1.1180	1.1090
CHRYSENE	1.2280	1.1210	1.1210	1.17	1.1360	1.2110	1.0410	1.0580	1.0070	1.0050
BENZO(B)FLUORANTHENE	1.2040	0.9810	1.0780	1.1210	1.16	1.2490	1.1040	1.1650	1.1720	1.1570
BENZO(K)FLUORANTHENE	1.1440	1.0070	1.0920	1.1360	1.17	1.2150	1.1070	1.1760	1.1320	1.1310
BENZO(A)PYRENE	1.1280	1.0020	1.06	1.1090	1.1550	1.2150	1.0930	1.1740	1.1480	1.13
INDENO(1,2,3-CD)PYRENE	1.1510	0.8980	0.9310	0.9930	1.0320	1.1290	0.9960	1.1130	1.0940	1.09
DIBENZ(A,H)ANTHRACENE	1.0880	0.9940	1.0170	1.0480	1.0860	1.1610	1.0160	1.0960	1.0860	1.04
ANILINE		0.7770	0.7610	0.7640	0.8230	0.9080	0.8510	0.7110	0.7760	0.8250
BIS(2-CHLOROETHYL)ETHER		1.4820	1.3410	1.39	1.4180	1.4860	1.2630	1.3570	1.3930	1.2370
PHENOL		1.6190	1.6770	1.6970	1.7380	1.8090	1.7060	1.7060	1.76	1.6750
2-CHLOROPHENOL		1.3330	1.3710	1.4660	1.4760	1.4790	1.36	1.3730	1.3590	1.3520
N-DECANE		1.0490	0.9530	0.8550	0.8870	0.8840	0.7780	0.7910	0.80	0.7450
BENZYL ALCOHOL		0.8720	0.8840	0.9890	1.0680	1.1440	1.0820	1.1390	1.1670	1.1880
BIS(2-CHLOROISOPROPYL)ETHER		0.4960	0.4730	0.4820	0.51	0.51	0.4520	0.4710	0.4530	0.4490
2-METHYLPHENOL		1.4080	1.2820	1.3470	1.3120	1.3470	1.1980	1.2070	1.1770	1.1510
HEXACHLOROETHANE		0.6850	0.66	0.6350	0.6490	0.6580	0.6080	0.6350	0.6320	0.6310
N-NITROSODI-N-PROPYLAMINE		0.9450	0.9420	0.9340	0.99	0.9960	0.9020	0.9270	0.94	0.9270
3&4-METHYL PHENOL		1.5250	1.3750	1.4380	1.4780	1.5140	1.3540	1.3720	1.3310	1.2920
NITROBENZENE		0.3750	0.3650	0.3570	0.3660	0.3820	0.3420	0.3650	0.3550	0.3570
ISOPHORONE		0.6470	0.6580	0.6560	0.6570	0.6730	0.6450	0.6830	0.6790	0.6840
2-NITROPHENOL		0.1620	0.1780	0.19	0.1970	0.2020	0.1860	0.1920	0.19	0.19
2,4-DIMETHYLPHENOL		0.33	0.35	0.3540	0.3540	0.3680	0.34	0.3580	0.3510	0.3530
BIS(2-CHLORETHOXY)METHANE		0.4260	0.4230	0.4120	0.4130	0.4210	0.3920	0.4060	0.3960	0.3910
2,4-DICHLOROPHENOL		0.2620	0.2790	0.2840	0.2840	0.30	0.2680	0.2810	0.2750	0.2670
4-CHLOROANILINE		0.1290	0.13	0.1420	0.1440	0.1540	0.1430	0.1480	0.1490	0.1490
HEXACHLORO-1,3-BUTADIENE		0.1670	0.1660	0.1660	0.1610	0.1720	0.1540	0.1610	0.1570	0.1570
4-CHLORO-3-METHYLPHENOL		0.2790	0.2980	0.2920	0.2980	0.3220	0.2980	0.3140	0.3040	0.3050
HEXACHLOROCYCLOPENTADIENE		0.3390	0.3320	0.3670	0.3830	0.4060	0.3680	0.3970	0.3860	0.3790
2,4,6-TRICHLOROPHENOL		0.3950	0.3640	0.3710	0.3820	0.4030	0.3570	0.3720	0.36	0.3610
2,4,5-TRICHLOROPHENOL		0.38	0.3990	0.4030	0.3970	0.4240	0.3780	0.3930	0.3810	0.38
BIPHENYL		1.58	1.6240	1.6880	1.6590	1.6820	1.4410	1.53	1.42	1.3290
2-NITROANILINE		0.3880	0.4140	0.4230	0.4460	0.4770	0.4290	0.4490	0.4420	0.4290
DIMETHYL PHTHALATE		1.2940	1.2730	1.3290	1.3630	1.4080	1.2510	1.3110	1.30	1.2490
2,6-DINITROTOLUENE		0.3080	0.3190	0.3170	0.3180	0.3360	0.3060	0.3190	0.3130	0.3040
3-NITROANILINE		0.3180	0.3540	0.3450	0.3830	0.3990	0.3660	0.3740	0.3720	0.3710
DIBENZOFURAN		1.7430	1.6770	1.6660	1.6590	1.7570	1.4840	1.5360	1.4460	1.3640
2,4-DINITROTOLUENE		0.3360	0.3880	0.4040	0.4350	0.4630	0.40	0.43	0.4170	0.4060
DIETHYL PHTHALATE		1.21	1.27	1.2560	1.2870	1.3680	1.2420	1.30	1.2490	1.2150
4-NITROANILINE		0.3540	0.3820	0.3930	0.3980	0.4380	0.3970	0.4130	0.39	0.3960

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GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS26

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/22/19 11:52	04/22/19 12:13	04/22/19 12:34	04/22/19 12:55	04/22/19 13:16	04/22/19 13:37	04/22/19 13:58	04/22/19 14:19	04/22/19 14:40	04/22/19 15:01
AZOBENZENE		1.2690	1.3690	1.3460	1.3940	1.5010	1.3270	1.5350	1.4590	1.4260
N-NITROSODIPHENYLAMINE		0.5760	0.60	0.6380	0.6370	0.6680	0.5750	0.6020	0.5830	0.5630
HEXACHLOROBENZENE		0.2180	0.2030	0.2160	0.2020	0.2130	0.1860	0.1990	0.1930	0.19
N-OCTADECANE		0.1760	0.1510	0.1590	0.1620	0.1710	0.1490	0.1590	0.1510	0.1450
PENTACHLOROPHENOL		0.0660	0.0920	0.0980	0.11	0.1280	0.1160	0.1280	0.1320	0.1320
CARBAZOLE		1.0020	0.9440	1.04	1.0280	1.0570	0.9160	0.9690	0.9410	0.8990
DI-N-BUTYL PHTHALATE		1.0260	1.0780	1.1220	1.1540	1.25	1.10	1.16	1.0790	0.9930
BENZYLBUTYL PHTHALATE		0.5050	0.5240	0.5370	0.5840	0.6510	0.5960	0.6310	0.6270	0.6250
BIS(2-ETHYLHEXYL)PHTHALATE		0.7050	0.7120	0.7320	0.7840	0.8590	0.7840	0.8310	0.8250	0.81
2-FLUOROPHENOL		1.2760	1.2320	1.3140	1.3480	1.3650	1.2710	1.3050	1.3050	1.2890
PHENOL-D5		1.6840	1.6710	1.68	1.7980	1.8150	1.6490	1.6930	1.6920	1.6660
NITROBENZENE-D5		0.3650	0.3580	0.3650	0.3670	0.3870	0.3510	0.3730	0.3660	0.3670
2-FLUOROBIPHENYL		1.4310	1.3990	1.4130	1.4040	1.4410	1.2330	1.2630	1.2120	1.1710
2,4,6-TRIBROMOPHENOL		0.0980	0.0930	0.1010	0.1020	0.1120	0.0980	0.1030	0.1010	0.1010
P-TERPHENYL-D14		0.8130	0.7870	0.8610	0.8620	0.9030	0.7980	0.8330	0.8180	0.7970
PYRIDINE			1.42	1.4810	1.4510	1.5290	1.3850	1.4410	1.4690	1.4440
N-NITROSODIMETHYLAMINE			0.9340	0.7530	0.8590	0.7860	0.7570	0.8070	0.82	0.82
2,4-DINITROPHENOL			0.1280	0.1470	0.1790	0.2110	0.2060	0.2280	0.23	0.2310
4-NITROPHENOL			0.2620	0.2780	0.3120	0.3290	0.31	0.3210	0.3120	0.31
4,6-DINITRO-2-METHYLPHENOL			0.0960	0.12	0.1290	0.1480	0.1310	0.1420	0.1330	0.1330
BENZALDEHYDE										
ACETOPHENONE										
BENZOIC ACID										
CAPROLACTAM										
ATRAZINE										
BENZIDINE										
3,3-DICHLOROBENZIDINE										
1,2,4,5-TETRACHLOROBENZENE										
File ID:	0422_06	0422_07	0422_08	0422_09	0422_10	0422_11	0422_12	0422_13	0422_14	0422_15

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS26

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/22/19 15:22	04/22/19 15:43	04/22/19 16:04	04/22/19 16:25	04/22/19 16:46	04/22/19 17:07	04/22/19 17:28	04/22/19 17:49
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								
N-DECANE								
BENZYL ALCOHOL								
BIS(2-CHLOROISOPROPYL)ETHER								
2-METHYLPHENOL								
HEXACHLOROETHANE								
N-NITROSODI-N-PROPYLAMINE								
3&4-METHYL PHENOL								
NITROBENZENE								
ISOPHORONE								
2-NITROPHENOL								
2,4-DIMETHYLPHENOL								
BIS(2-CHLORETHOXY)METHANE								
2,4-DICHLOROPHENOL								
4-CHLOROANILINE								
HEXACHLORO-1,3-BUTADIENE								
4-CHLORO-3-METHYLPHENOL								
HEXACHLOROCYCLOPENTADIENE								
2,4,6-TRICHLOROPHENOL								
2,4,5-TRICHLOROPHENOL								
BIPHENYL								
2-NITROANILINE								
DIMETHYL PHTHALATE								
2,6-DINITROTOLUENE								
3-NITROANILINE								
DIBENZOFURAN								
2,4-DINITROTOLUENE								
DIETHYL PHTHALATE								
4-NITROANILINE								

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS26

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/22/19 15:22	04/22/19 15:43	04/22/19 16:04	04/22/19 16:25	04/22/19 16:46	04/22/19 17:07	04/22/19 17:28	04/22/19 17:49
AZOBENZENE								
N-NITROSODIPHENYLAMINE								
HEXACHLOROBENZENE								
N-OCTADECANE								
PENTACHLOROPHENOL								
CARBAZOLE								
DI-N-BUTYL PHTHALATE								
BENZYLBUTYL PHTHALATE								
BIS(2-ETHYLHEXYL)PHTHALATE								
2-FLUOROPHENOL								
PHENOL-D5								
NITROBENZENE-D5								
2-FLUOROBIPHENYL								
2,4,6-TRIBROMOPHENOL								
P-TERPHENYL-D14								
PYRIDINE								
N-NITROSODIMETHYLAMINE								
2,4-DINITROPHENOL								
4-NITROPHENOL								
4,6-DINITRO-2-METHYLPHENOL								
BENZALDEHYDE	0.7840	0.7990	0.7890	0.8060	0.79	0.7720	0.7420	0.72
ACETOPHENONE	1.8720	1.8940	1.8580	1.9620	1.9010	1.8510	1.7820	1.7820
BENZOIC ACID	0.2320	0.23	0.2460	0.2560	0.2360	0.2170	0.2060	0.1880
CAPROLACTAM	0.1070	0.1050	0.1070	0.1040	0.0920	0.0830	0.0780	
ATRAZINE	0.3640	0.3640	0.3680	0.39	0.3950	0.3630	0.3540	0.3520
BENZIDINE	0.6950	0.7050	0.7740	0.85	0.8690	0.87	0.8520	0.8430
3,3-DICHLOROBENZIDINE	0.4210	0.4070	0.4290	0.4660	0.4530	0.4380	0.4420	0.4320
1,2,4,5-TETRACHLOROBENZENE		0.2960	0.2770	0.2680	0.23	0.2030		
File ID:	0422_16	0422_17	0422_18	0422_19	0422_20	0422_21	0422_22	0422_23

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS26

Analyte Analysis date/time	RRF. Avg	%RSD	COD
NAPHTHALENE	1.014642	10.21	
2-METHYLNAPHTHALENE	0.659105	5.03	
1-METHYLNAPHTHALENE	0.637686	8.84	
2-CHLORONAPHTHALENE	1.189338	7.42	
ACENAPHTHYLENE	1.764453	8.13	
ACENAPHTHENE	1.239785	11.14	
FLUORENE	1.309997	7.85	
PHENANTHRENE	1.094839	12.57	
ANTHRACENE	1.096797	7.59	
FLUORANTHENE	1.124917	4.55	
PYRENE	1.327597	5.06	
BENZO(A)ANTHRACENE	1.161639	13.36	
CHRYSENE	1.10986	7.22	
BENZO(B)FLUORANTHENE	1.139154	6.48	
BENZO(K)FLUORANTHENE	1.13103	4.97	
BENZO(A)PYRENE	1.12131	5.35	
INDENO(1,2,3-CD)PYRENE	1.04268	8.29	
DIBENZ(A,H)ANTHRACENE	1.06316	4.67	
ANILINE	0.799548	7.3	
BIS(2-CHLOROETHYL)ETHER	1.374028	6.25	
PHENOL	1.709832	3.2	
2-CHLOROPHENOL	1.396729	4.23	
N-DECANE	0.860224	11.18	
BENZYL ALCOHOL	1.059066	11.22	
BIS(2-CHLOROISOPROPYL)ETHER	0.477316	5.04	
2-METHYLPHENOL	1.269996	7.08	
HEXACHLOROETHANE	0.64353	3.44	
N-NITROSODI-N-PROPYLAMINE	0.944823	3.2	
3&4-METHYL PHENOL	1.408818	5.91	
NITROBENZENE	0.362813	3.23	
ISOPHORONE	0.664482	2.26	
2-NITROPHENOL	0.187632	6.17	
2,4-DIMETHYLPHENOL	0.35096	3.03	
BIS(2-CHLORETHOXY)METHANE	0.408863	3.3	
2,4-DICHLOROPHENOL	0.27767	4.16	
4-CHLOROANILINE	0.143171	5.96	
HEXACHLORO-1,3-BUTADIENE	0.162392	3.54	
4-CHLORO-3-METHYLPHENOL	0.301169	4.08	
HEXACHLOROCYCLOPENTADIENE	0.372906	6.63	
2,4,6-TRICHLOROPHENOL	0.373817	4.35	
2,4,5-TRICHLOROPHENOL	0.392826	3.87	
BIPHENYL	1.550236	8.3	
2-NITROANILINE	0.432907	5.7	
DIMETHYL PHTHALATE	1.308603	3.98	
2,6-DINITROTOLUENE	0.315618	3.02	
3-NITROANILINE	0.364546	6.42	
DIBENZOFURAN	1.592474	8.75	
2,4-DINITROTOLUENE	0.408823	8.65	
DIETHYL PHTHALATE	1.266431	3.81	
4-NITROANILINE	0.39569	5.72	
AZOBENZENE	1.402879	6.1	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1
Instrument ID: BNAMS26

Analyte Analysis date/time	RRF. Avg	%RSD	COD
N-NITROSODIPHENYLAMINE	0.604689	5.89	
HEXACHLOROBENZENE	0.202235	5.7	
N-OCTADECANE	0.158169	6.44	
PENTACHLOROPHENOL	0.111464	20.17	0.997
CARBAZOLE	0.977299	5.82	
DI-N-BUTYL PHTHALATE	1.107044	6.92	
BENZYLBUTYL PHTHALATE	0.586608	9.03	
BIS(2-ETHYLHEXYL)PHTHALATE	0.782358	7.05	
2-FLUOROPHENOL	1.300393	3.09	
PHENOL-D5	1.705375	3.47	
NITROBENZENE-D5	0.366631	2.64	
2-FLUOROBIPHENYL	1.329496	8.1	
2,4,6-TRIBROMOPHENOL	0.100864	5.09	
P-TERPHENYL-D14	0.83019	4.62	
PYRIDINE	1.45261	2.95	
N-NITROSODIMETHYLAMINE	0.817066	7.21	
2,4-DINITROPHENOL	0.194959	20.36	0.998
4-NITROPHENOL	0.304184	7.47	
4,6-DINITRO-2-METHYLPHENOL	0.129031	12.17	
BENZALDEHYDE	0.775266	3.81	
ACETOPHENONE	1.862762	3.25	
BENZOIC ACID	0.226401	9.7	
CAPROLACTAM	0.096772	12.73	
ATRAZINE	0.368759	4.24	
BENZIDINE	0.807241	9.02	
3,3-DICHLOROBENZIDINE	0.436119	4.23	
1,2,4,5-TETRACHLOROBENZENE	0.254948	14.73	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS26

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 40K1**	**RRF: 04K2**	**RRF: .2K2**	**RRF: 1K2**	**RRF: 2K2**
Analysis date/time	03/19/19 09:38	03/19/19 09:58	03/19/19 10:19	03/19/19 10:40	03/19/19 11:01	03/19/19 11:21	03/19/19 11:42	03/19/19 12:03	03/19/19 12:23	03/19/19 12:44
N-NITROSODIETHYLAMINE	0.6120	0.6690	0.66	0.6120	0.6590	0.6660				
N-NITROSODI-N-BUTYLAMINE	0.2320	0.2370	0.2420	0.2090	0.1940	0.1620				
HEXACHLOROPHENE	34.30	52.40	80.90	91.90	123.60	141.40				
PENTACHLOROBENZENE							0.6150	0.5570	0.4630	0.4820
File ID:	0319_03	0319_04	0319_05	0319_06	0319_07	0319_08	0319_09	0319_10	0319_11	0319_12

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GC/MS INITIAL CALIBRATION DATA

SDG: L1092757 **Analytical Method:** 625.1

Instrument ID: BNAMS26

Analyte	**RRF: 5K2**	**RRF: 10K2**	**RRF: 20K2**	**RRF: 40K2**	**RRF. Avg**	**%RSD**	**COD**
Analysis date/time	03/19/19 13:05	03/19/19 13:26	03/19/19 13:47	03/19/19 14:07			
N-NITROSODIETHYLAMINE					0.646155	4.18	
N-NITROSODI-N-BUTYLAMINE					0.212597	14.38	
HEXACHLOROPHENE					87.4193	46.68	0.998
PENTACHLOROBENZENE	0.4790	0.4960	0.4810	0.4750	0.505969	10.37	
File ID:	0319_13	0319_14	0319_15	0319_16			

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0416_24-3	**Analysis date/time:**	04/16/19 16:53
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.619905	0.66117930		6.66		10	10.67	107	70 - 130
2,4,5-TRICHLOROPHENOL	0.383431	0.37780020		1.47		10	9.853	98.50	70 - 130
2,4,6-TRICHLOROPHENOL	0.364775	0.35379040		3.01		10	9.699	97	70 - 130
2,4-DICHLOROPHENOL	0.267648	0.27470370		2.64		10	10.26	103	70 - 130
2,4-DIMETHYLPHENOL	0.370388	0.35408060		4.40		10	9.560	95.60	70 - 130
2,4-DINITROPHENOL	0.188528	0.15973730		15.30		10	8.033	80.30	70 - 130
2,4-DINITROTOLUENE	0.422598	0.42326620		0.1580		10	10.02	100	70 - 130
2,6-DINITROTOLUENE	0.326228	0.31703950		2.82		10	9.718	97.20	70 - 130
2-CHLORONAPHTHALENE	1.183795	1.244481		5.13		10	10.51	105	70 - 130
2-CHLOROPHENOL	1.480093	1.433785		3.13		10	9.687	96.90	70 - 130
2-METHYLNAPHTHALENE	0.649426	0.65269520		0.5030		10	10.05	101	70 - 130
2-METHYLPHENOL	1.323366	1.211076		8.49		10	9.151	91.50	70 - 130
2-NITROANILINE	0.489833	0.46804890		4.45		10	9.555	95.60	70 - 130
2-NITROPHENOL	0.199126	0.186709		6.24		10	9.376	93.80	70 - 130
3&4-METHYL PHENOL	1.541321	1.402372		9.01		10	9.099	91	70 - 130
3-NITROANILINE	0.402560	0.39458660		1.98		10	9.802	98	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.112128	0.10533460		6.06		10	8.365	83.70	70 - 130
4-CHLORO-3-METHYLPHENOL	0.291071	0.28137090		3.33		10	9.667	96.70	70 - 130
4-CHLOROANILINE	0.113683	0.09276997		18.40		10	8.160	81.60	70 - 130
4-NITROANILINE	0.529689	0.46803410		11.60		10	8.836	88.40	70 - 130
4-NITROPHENOL	0.344819	0.32350330		6.18		10	9.382	93.80	70 - 130
ACENAPHTHENE	1.300169	1.332204		2.46		10	10.25	103	70 - 130
ACENAPHTHYLENE	1.831859	2.027158		10.70		10	11.07	111	70 - 130
ANILINE	0.655076	0.55354560		15.50		10	8.450	84.50	70 - 130
ANTHRACENE	1.061432	1.105591		4.16		10	10.42	104	70 - 130
AZOBENZENE	1.486889	1.296303		12.80		10	8.718	87.20	70 - 130
BENZO(A)ANTHRACENE	1.118993	1.130044		0.9880		10	10.10	101	70 - 130
BENZO(A)PYRENE	1.074977	1.099013		2.24		10	8.882	88.80	70 - 130
BENZO(B)FLUORANTHENE	1.138536	1.184915		4.07		10	10.41	104	70 - 130
BENZO(K)FLUORANTHENE	1.164881	1.179439		1.25		10	10.12	101	70 - 130
BENZYL ALCOHOL	1.047936	0.94416710		9.90		10	9.010	90.10	70 - 130
BENZYLBUTYL PHTHALATE	0.615006	0.61692460		0.3120		10	10.03	100	70 - 130
BIPHENYL	1.562679	1.513318		3.16		10	9.684	96.80	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.421141	0.39364050		6.53		10	9.347	93.50	70 - 130
BIS(2-CHLOROETHYL)ETHER	0.902950	0.74573980		17.40		10	8.259	82.60	70 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.509472	0.47646630		6.48		10	9.352	93.50	70 - 130
BIS(2-ETHYLHEXYL)PHTHALATE	0.864903	0.87987120		1.73		10	9.026	90.30	70 - 130
CARBAZOLE	1.047274	1.015993		2.99		10	9.701	97	70 - 130
CHRYSENE	1.110404	1.144116		3.04		10	10.30	103	70 - 130
DI-N-BUTYL PHTHALATE	1.215082	1.201315		1.13		10	9.887	98.90	70 - 130
DIBENZ(A,H)ANTHRACENE	1.042455	1.084750		4.06		10	8.921	89.20	70 - 130
DIBENZOFURAN	1.607065	1.668791		3.84		10	10.38	104	70 - 130
DIETHYL PHTHALATE	1.340898	1.371550		2.29		10	10.23	102	70 - 130
DIMETHYL PHTHALATE	1.297185	1.312092		1.15		10	10.11	101	70 - 130
FLUORANTHENE	1.051793	1.063582		1.12		10	10.11	101	70 - 130
FLUORENE	1.388442	1.454151		4.73		10	10.47	105	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.140862	0.16637340		18.10		10	11.81	118	70 - 130
HEXACHLOROBENZENE	0.205161	0.19854770		3.22		10	9.678	96.80	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0416_24-3	**Analysis date/time:**	04/16/19 16:53
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.412570	0.35243370		14.60		10	8.542	85.40	70 - 130
HEXACHLOROETHANE	0.667330	0.60331680		9.59		10	9.041	90.40	70 - 130
INDENO(1,2,3-CD)PYRENE	0.960718	1.039058		8.15		10	10.82	108	70 - 130
ISOPHORONE	0.639798	0.57759340		9.72		10	9.028	90.30	70 - 130
N-DECANE	0.697191	0.49835550		28.50		10	7.148	71.50	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.924281	0.742641		19.70		10	8.035	80.30	70 - 130
N-NITROSODIMETHYLAMINE	0.645631	0.46359390		28.20		10	7.180	71.80	70 - 130
N-NITROSODIPHENYLAMINE	0.651138	0.63368010		2.68		10	9.732	97.30	70 - 130
N-OCTADECANE	0.116779	0.08189979		29.90		10	7.013	70.10	70 - 130
NAPHTHALENE	1.036904	1.070848		3.27		10	10.33	103	70 - 130
NITROBENZENE	0.358925	0.31048950		13.50		10	8.651	86.50	70 - 130
PENTACHLOROPHENOL	0.111538	0.13951860		25.10		10	10.78	108	70 - 130
PHENANTHRENE	1.071696	1.087645		1.49		10	10.15	102	70 - 130
PHENOL	1.770643	1.517992		14.30		10	8.573	85.70	70 - 130
PYRENE	1.176635	1.226578		4.24		10	10.42	104	70 - 130
PYRIDINE	1.375299	1.179363		14.20		10	8.575	85.70	70 - 130
2,4,6-TRIBROMOPHENOL	0.110431	0.09522175		13.80		10	8.136	81.40	70 - 130
2-FLUOROBIPHENYL	1.340042	1.282699		4.28		10	9.572	95.70	70 - 130
2-FLUOROPHENOL	1.275610	1.094579		14.20		10	8.581	85.80	70 - 130
NITROBENZENE-D5	0.392969	0.31801710		19.10		10	8.093	80.90	70 - 130
P-TERPHENYL-D14	0.828816	0.76129510		8.15		10	9.185	91.90	70 - 130
PHENOL-D5	1.734388	1.415215		18.40		10	8.160	81.60	70 - 130

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0416_25-3	**Analysis date/time:**	04/16/19 17:14
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
1,2,4,5-TETRACHLOROBENZENE	0.201136	0.20193030		0.3950		10	10.04	100	70 - 130
3,3-DICHLOROBENZIDINE	0.085927	0.07366348		14.30		10	8.413	84.10	70 - 130
ACETOPHENONE	2.055843	2.229326		8.44		10	10.84	108	70 - 130
ATRAZINE	0.362229	0.36403010		0.4970		10	10.05	101	70 - 130
BENZALDEHYDE	0.829204	0.93606420		12.90		10	11.29	113	70 - 130
BENZIDINE	0.846735	0.82823270		2.19		10	9.498	95	70 - 130
BENZOIC ACID	0.175817	0.20115540		14.40		10	11.44	114	70 - 130
CAPROLACTAM	0.094785	0.11515870		21.50		10	12.15	121	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0501_03-1	**Analysis date/time:**	05/01/19 10:12
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.619905	0.69478060		12.10		10	11.21	112	70 - 130
2,4,5-TRICHLOROPHENOL	0.383431	0.42969530		12.10		10	11.21	112	70 - 130
2,4,6-TRICHLOROPHENOL	0.364775	0.40592090		11.30		10	11.13	111	69 - 130
2,4-DICHLOROPHENOL	0.267648	0.31766730		18.70		10	11.87	119	64 - 130
2,4-DIMETHYLPHENOL	0.370388	0.350134		5.47		10	9.453	94.50	58 - 130
2,4-DINITROPHENOL	0.188528	0.14847080		21.20		10	7.576	75.80	39 - 173
2,4-DINITROTOLUENE	0.422598	0.44794470		6		10	10.60	106	53 - 130
2,6-DINITROTOLUENE	0.326228	0.33562220		2.88		10	10.29	103	68 - 137
2-CHLORONAPHTHALENE	1.183795	1.213663		2.52		10	10.25	103	70 - 130
2-CHLOROPHENOL	1.480093	1.336137		9.73		10	9.027	90.30	55 - 130
2-METHYLNAPHTHALENE	0.649426	0.73817290		13.70		10	11.37	114	70 - 130
2-METHYLPHENOL	1.323366	1.122754		15.20		10	8.484	84.80	70 - 130
2-NITROANILINE	0.489833	0.44247080		9.67		10	9.033	90.30	70 - 130
2-NITROPHENOL	0.199126	0.20501710		2.96		10	10.30	103	61 - 163
3&4-METHYL PHENOL	1.541321	1.390115		9.81		10	9.019	90.20	70 - 130
3-NITROANILINE	0.402560	0.33220170		17.50		10	8.252	82.50	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.112128	0.14943660		33.30		10	11.53	115	56 - 130
4-CHLORO-3-METHYLPHENOL	0.291071	0.308213		5.89		10	10.59	106	68 - 130
4-CHLOROANILINE	0.113683	0.08726265		23.20		10	7.676	76.80	70 - 130
4-NITROANILINE	0.529689	0.36516890		31.10		10	6.894	68.90	70 - 130
4-NITROPHENOL	0.344819	0.26560820		23		10	7.703	77	35 - 130
ACENAPHTHENE	1.300169	1.231336		5.29		10	9.471	94.70	70 - 130
ACENAPHTHYLENE	1.831859	1.939798		5.89		10	10.59	106	60 - 130
ANILINE	0.655076	0.52457620		19.90		10	8.008	80.10	70 - 130
ANTHRACENE	1.061432	1.206732		13.70		10	11.37	114	58 - 130
AZOBENZENE	1.486889	1.493159		0.4220		10	10.04	100	70 - 130
BENZO(A)ANTHRACENE	1.118993	1.212577		8.36		10	10.84	108	42 - 133
BENZO(A)PYRENE	1.074977	1.256214		16.90		10	10.15	102	32 - 148
BENZO(B)FLUORANTHENE	1.138536	1.357181		19.20		10	11.92	119	42 - 140
BENZO(K)FLUORANTHENE	1.164881	1.323844		13.60		10	11.36	114	25 - 146
BENZYL ALCOHOL	1.047936	0.77799260		25.80		10	7.424	74.20	70 - 130
BENZYLBUTYL PHTHALATE	0.615006	0.563082		8.44		10	9.156	91.60	43 - 140
BIPHENYL	1.562679	1.549415		0.8490		10	9.915	99.20	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.421141	0.42574850		1.09		10	10.11	101	52 - 164
BIS(2-CHLOROETHYL)ETHER	0.902950	0.90303220		0.0091		10	10.00	100	52 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.509472	0.452624		11.20		10	8.884	88.80	63 - 139
BIS(2-ETHYLHEXYL)PHTHALATE	0.864903	0.78145840		9.65		10	8.020	80.20	43 - 137
CARBAZOLE	1.047274	1.123979		7.32		10	10.73	107	70 - 130
CHRYSENE	1.110404	1.198019		7.89		10	10.79	108	44 - 140
DI-N-BUTYL PHTHALATE	1.215082	1.382936		13.80		10	11.38	114	52 - 130
DIBENZ(A,H)ANTHRACENE	1.042455	1.216934		16.70		10	10.00	100	13 - 200
DIBENZOFURAN	1.607065	1.736796		8.07		10	10.81	108	70 - 130
DIETHYL PHTHALATE	1.340898	1.368714		2.07		10	10.21	102	47 - 130
DIMETHYL PHTHALATE	1.297185	1.420720		9.52		10	10.95	110	50 - 130
FLUORANTHENE	1.051793	1.176903		11.90		10	11.19	112	47 - 130
FLUORENE	1.388442	1.432968		3.21		10	10.32	103	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.140862	0.199859		41.90		10	14.19	142	68 - 130
HEXACHLOROBENZENE	0.205161	0.26407480		28.70		10	12.87	129	38 - 142

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0501_03-1	**Analysis date/time:**	05/01/19 10:12
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.412570	0.38220550		7.36		10	9.264	92.60	70 - 130
HEXACHLOROETHANE	0.667330	0.58351330		12.60		10	8.744	87.40	55 - 130
INDENO(1,2,3-CD)PYRENE	0.960718	1.208454		25.80		10	12.58	126	13 - 151
ISOPHORONE	0.639798	0.702738		9.84		10	10.98	110	52 - 180
N-DECANE	0.697191	0.68679840		1.49		10	9.851	98.50	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.924281	0.97718810		5.72		10	10.57	106	59 - 170
N-NITROSODIMETHYLAMINE	0.645631	0.56574540		12.40		10	8.763	87.60	70 - 130
N-NITROSODIPHENYLAMINE	0.651138	0.69038240		6.03		10	10.60	106	70 - 130
N-OCTADECANE	0.116779	0.09774517		16.30		10	8.370	83.70	70 - 130
NAPHTHALENE	1.036904	1.030430		0.6240		10	9.938	99.40	70 - 130
NITROBENZENE	0.358925	0.37976790		5.81		10	10.58	106	54 - 158
PENTACHLOROPHENOL	0.111538	0.09071672		18.70		10	7.215	72.20	42 - 152
PHENANTHRENE	1.071696	1.174001		9.55		10	10.95	110	67 - 130
PHENOL	1.770643	1.609980		9.07		10	9.093	90.90	48 - 130
PYRENE	1.176635	1.146397		2.57		10	9.743	97.40	70 - 130
PYRIDINE	1.375299	1.247164		9.32		10	9.068	90.70	70 - 130
2,4,6-TRIBROMOPHENOL	0.110431	0.13802570		25		10	11.37	114	70 - 130
2-FLUOROBIPHENYL	1.340042	1.394726		4.08		10	10.41	104	70 - 130
2-FLUOROPHENOL	1.275610	1.017895		20.20		10	7.980	79.80	70 - 130
NITROBENZENE-D5	0.392969	0.373694		4.90		10	9.510	95.10	46 - 219
P-TERPHENYL-D14	0.828816	0.82165430		0.8640		10	9.914	99.10	70 - 130
PHENOL-D5	1.734388	1.633104		5.84		10	9.416	94.20	48 - 208

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	04/16/19 16:32
Lab File ID:	0501_04-1	**Analysis date/time:**	05/01/19 10:33
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.	%
1,2,4,5-TETRACHLOROBENZENE	0.201136	0.30000280		49.20		10	14.92	149	70 - 130
3,3-DICHLOROBENZIDINE	0.085927	0.07580322		11.80		10	8.624	86.20	18 - 213
ACETOPHENONE	2.055843	1.884741		8.32		10	9.168	91.70	70 - 130
ATRAZINE	0.362229	0.53480480		47.60		10	14.76	148	70 - 130
BENZALDEHYDE	0.829204	0.83548590		0.7580		10	10.08	101	70 - 130
BENZIDINE	0.846735	0.58041420		31.50		10	6.941	69.40	70 - 130
BENZOIC ACID	0.175817	0.20260160		15.20		10	11.52	115	70 - 130
CAPROLACTAM	0.094785	0.11166340		17.80		10	11.78	118	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	03/19/19 09:38
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	03/19/19 16:13
Lab File ID:	0319_23-3	**Analysis date/time:**	03/19/19 16:33
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.*	*%*
HEXACHLOROPHENE	87.4193	0.07011843		99.90		20	14.96	74.80	70 - 130
N-NITROSODI-N-BUTYLAMINE	0.212597	0.21002730		1.21		10	9.879	98.80	70 - 130
N-NITROSODIETHYLAMINE	0.646155	0.65731420		1.73		10	10.17	102	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	03/19/19 09:38
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	03/19/19 16:13
Lab File ID:	0319_23A-3	**Analysis date/time:**	03/19/19 16:33
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.*	*%*
PENTACHLOROBENZENE	0.505969	0.48357670		4.43		10	9.557	95.60	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 11:52
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	04/22/19 17:49
Lab File ID:	0422_24-2	**Analysis date/time:**	04/22/19 18:10
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	0.637686	0.65352270		2.48		10	10.25	103	70 - 130
2,4,5-TRICHLOROPHENOL	0.392826	0.40698250		3.60		10	10.36	104	70 - 130
2,4,6-TRICHLOROPHENOL	0.373817	0.38612990		3.29		10	10.33	103	70 - 130
2,4-DICHLOROPHENOL	0.277670	0.29272620		5.42		10	10.54	105	70 - 130
2,4-DIMETHYLPHENOL	0.350960	0.390550		11.30		10	11.13	111	70 - 130
2,4-DINITROPHENOL	0.194959	0.20229960		3.77		10	9.436	94.40	70 - 130
2,4-DINITROTOLUENE	0.408823	0.46026970		12.60		10	11.26	113	70 - 130
2,6-DINITROTOLUENE	0.315618	0.34105170		8.06		10	10.81	108	70 - 130
2-CHLORONAPHTHALENE	1.189338	1.254247		5.46		10	10.55	106	70 - 130
2-CHLOROPHENOL	1.396729	1.428962		2.31		10	10.23	102	70 - 130
2-METHYLNAPHTHALENE	0.659105	0.65589570		0.4870		10	9.951	99.50	70 - 130
2-METHYLPHENOL	1.269996	1.281436		0.9010		10	10.09	101	70 - 130
2-NITROANILINE	0.432907	0.46877020		8.28		10	10.83	108	70 - 130
2-NITROPHENOL	0.187632	0.19669160		4.83		10	10.48	105	70 - 130
3&4-METHYL PHENOL	1.408818	1.446047		2.64		10	10.26	103	70 - 130
3-NITROANILINE	0.364546	0.40130660		10.10		10	11.01	110	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.129031	0.14194950		10		10	11.00	110	70 - 130
4-CHLORO-3-METHYLPHENOL	0.301169	0.316257		5.01		10	10.50	105	70 - 130
4-CHLOROANILINE	0.143171	0.15331580		7.09		10	10.71	107	70 - 130
4-NITROANILINE	0.395690	0.42202550		6.66		10	10.67	107	70 - 130
4-NITROPHENOL	0.304184	0.31137760		2.36		10	10.24	102	70 - 130
ACENAPHTHENE	1.239785	1.287359		3.84		10	10.38	104	70 - 130
ACENAPHTHYLENE	1.764453	1.961849		11.20		10	11.12	111	70 - 130
ANILINE	0.799548	0.87130640		8.97		10	10.90	109	70 - 130
ANTHRACENE	1.096797	1.154586		5.27		10	10.53	105	70 - 130
AZOBENZENE	1.402879	1.528872		8.98		10	10.90	109	70 - 130
BENZO(A)ANTHRACENE	1.161639	1.215843		4.67		10	10.47	105	70 - 130
BENZO(A)PYRENE	1.121310	1.156647		3.15		10	10.32	103	70 - 130
BENZO(B)FLUORANTHENE	1.139154	1.215938		6.74		10	10.67	107	70 - 130
BENZO(K)FLUORANTHENE	1.131030	1.203014		6.36		10	10.64	106	70 - 130
BENZYL ALCOHOL	1.059066	1.183436		11.70		10	11.17	112	70 - 130
BENZYLBUTYL PHTHALATE	0.586608	0.63210480		7.76		10	10.78	108	70 - 130
BIPHENYL	1.550236	1.579771		1.91		10	10.19	102	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.408863	0.45388370		11		10	11.10	111	70 - 130
BIS(2-CHLOROETHYL)ETHER	1.374028	1.472926		7.20		10	10.72	107	70 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.477316	0.50613090		6.04		10	10.60	106	70 - 130
BIS(2-ETHYLHEXYL)PHTHALATE	0.782358	0.85450660		9.22		10	10.92	109	70 - 130
CARBAZOLE	0.977299	1.003828		2.71		10	10.27	103	70 - 130
CHRYSENE	1.109860	1.182435		6.54		10	10.65	106	70 - 130
DI-N-BUTYL PHTHALATE	1.107044	1.212788		9.55		10	10.96	110	70 - 130
DIBENZ(A,H)ANTHRACENE	1.063160	1.104478		3.89		10	10.39	104	70 - 130
DIBENZOFURAN	1.592474	1.650085		3.62		10	10.36	104	70 - 130
DIETHYL PHTHALATE	1.266431	1.356951		7.15		10	10.71	107	70 - 130
DIMETHYL PHTHALATE	1.308603	1.402447		7.17		10	10.72	107	70 - 130
FLUORANTHENE	1.124917	1.182777		5.14		10	10.51	105	70 - 130
FLUORENE	1.309997	1.395809		6.55		10	10.66	107	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.162392	0.18716770		15.30		10	11.53	115	70 - 130
HEXACHLOROBENZENE	0.202235	0.210870		4.27		10	10.43	104	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 11:52
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	04/22/19 17:49
Lab File ID:	0422_24-2	**Analysis date/time:**	04/22/19 18:10
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	0.372906	0.37413210		0.3290		10	10.03	100	70 - 130
HEXACHLOROETHANE	0.643530	0.64454530		0.1580		10	10.02	100	70 - 130
INDENO(1,2,3-CD)PYRENE	1.042680	1.045466		0.2670		10	10.03	100	70 - 130
ISOPHORONE	0.664482	0.71673380		7.86		10	10.79	108	70 - 130
N-DECANE	0.860224	0.83718650		2.68		10	9.732	97.30	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.944823	0.95765680		1.36		10	10.14	101	70 - 130
N-NITROSODIMETHYLAMINE	0.817066	0.79727530		2.42		10	9.758	97.60	70 - 130
N-NITROSODIPHENYLAMINE	0.604689	0.62664680		3.63		10	10.36	104	70 - 130
N-OCTADECANE	0.158169	0.16193020		2.38		10	10.24	102	70 - 130
NAPHTHALENE	1.014642	1.055733		4.05		10	10.40	104	70 - 130
NITROBENZENE	0.362813	0.39034340		7.59		10	10.76	108	70 - 130
PENTACHLOROPHENOL	0.111464	0.14172980		27.20		10	11.16	112	70 - 130
PHENANTHRENE	1.094839	1.131312		3.33		10	10.33	103	70 - 130
PHENOL	1.709832	1.784222		4.35		10	10.44	104	70 - 130
PYRENE	1.327597	1.366264		2.91		10	10.29	103	70 - 130
PYRIDINE	1.452610	1.519524		4.61		10	10.46	105	70 - 130
2,4,6-TRIBROMOPHENOL	0.100864	0.09864059		2.20		10	9.780	97.80	70 - 130
2-FLUOROBIPHENYL	1.329496	1.324683		0.3620		10	9.964	99.60	70 - 130
2-FLUOROPHENOL	1.300393	1.229831		5.43		10	9.457	94.60	70 - 130
NITROBENZENE-D5	0.366631	0.35652990		2.76		10	9.724	97.20	70 - 130
P-TERPHENYL-D14	0.830190	0.82567940		0.5430		10	9.946	99.50	70 - 130
PHENOL-D5	1.705375	1.645680		3.50		10	9.650	96.50	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 11:52
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	04/22/19 17:49
Lab File ID:	0422_25-2	**Analysis date/time:**	04/22/19 18:31
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	0.254948	0.26639570		4.49		10	10.45	104	70 - 130
3,3-DICHLOROBENZIDINE	0.436119	0.43005980		1.39		10	9.861	98.60	70 - 130
ACETOPHENONE	1.862762	2.0114		7.98		10	10.80	108	70 - 130
ATRAZINE	0.368759	0.40248640		9.15		10	10.91	109	70 - 130
BENZIDINE	0.807241	0.601160		25.50		10	7.447	74.50	70 - 130
BENZOIC ACID	0.226401	0.0096742990		95.70		10	0.4273	4.27	70 - 130
CAPROLACTAM	0.096772	0.10938850		13		10	11.30	113	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 11:52
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	04/22/19 17:49
Lab File ID:	0430A_03-1	**Analysis date/time:**	04/30/19 23:47
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	0.637686	0.65782540		3.16		10	10.32	103	70 - 130
2,4,5-TRICHLOROPHENOL	0.392826	0.45575330		16		10	11.60	116	70 - 130
2,4,6-TRICHLOROPHENOL	0.373817	0.42391580		13.40		10	11.34	113	69 - 130
2,4-DICHLOROPHENOL	0.277670	0.28360690		2.14		10	10.21	102	64 - 130
2,4-DIMETHYLPHENOL	0.350960	0.34319050		2.21		10	9.779	97.80	58 - 130
2,4-DINITROPHENOL	0.194959	0.23383190		19.90		10	10.81	108	39 - 173
2,4-DINITROTOLUENE	0.408823	0.46741280		14.30		10	11.43	114	53 - 130
2,6-DINITROTOLUENE	0.315618	0.34446050		9.14		10	10.91	109	68 - 137
2-CHLORONAPHTHALENE	1.189338	1.247802		4.92		10	10.49	105	70 - 130
2-CHLOROPHENOL	1.396729	1.377417		1.38		10	9.862	98.60	55 - 130
2-METHYLNAPHTHALENE	0.659105	0.70078220		6.32		10	10.63	106	70 - 130
2-METHYLPHENOL	1.269996	1.310442		3.18		10	10.32	103	70 - 130
2-NITROANILINE	0.432907	0.48080410		11.10		10	11.11	111	70 - 130
2-NITROPHENOL	0.187632	0.20526140		9.40		10	10.94	109	61 - 163
3&4-METHYL PHENOL	1.408818	1.464567		3.96		10	10.40	104	70 - 130
3-NITROANILINE	0.364546	0.40940680		12.30		10	11.23	112	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.129031	0.13430460		4.09		10	10.41	104	56 - 130
4-CHLORO-3-METHYLPHENOL	0.301169	0.339081		12.60		10	11.26	113	68 - 130
4-CHLOROANILINE	0.143171	0.156179		9.09		10	10.91	109	70 - 130
4-NITROANILINE	0.395690	0.45325810		14.50		10	11.45	115	70 - 130
4-NITROPHENOL	0.304184	0.32917380		8.22		10	10.82	108	35 - 130
ACENAPHTHENE	1.239785	1.298214		4.71		10	10.47	105	70 - 130
ACENAPHTHYLENE	1.764453	2.140505		21.30		10	12.13	121	60 - 130
ANILINE	0.799548	0.89417640		11.80		10	11.18	112	70 - 130
ANTHRACENE	1.096797	1.065942		2.81		10	9.719	97.20	58 - 130
AZOBENZENE	1.402879	1.663997		18.60		10	11.86	119	70 - 130
BENZO(A)ANTHRACENE	1.161639	1.144289		1.49		10	9.851	98.50	42 - 133
BENZO(A)PYRENE	1.121310	1.221069		8.90		10	10.89	109	32 - 148
BENZO(B)FLUORANTHENE	1.139154	1.211325		6.34		10	10.63	106	42 - 140
BENZO(K)FLUORANTHENE	1.131030	1.236176		9.30		10	10.93	109	25 - 146
BENZYL ALCOHOL	1.059066	1.182220		11.60		10	11.16	112	70 - 130
BENZYLBUTYL PHTHALATE	0.586608	0.58176220		0.8260		10	9.917	99.20	43 - 140
BIPHENYL	1.550236	1.683915		8.62		10	10.86	109	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.408863	0.46391760		13.50		10	11.35	114	52 - 164
BIS(2-CHLOROETHYL)ETHER	1.374028	1.396767		1.65		10	10.17	102	52 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.477316	0.48373580		1.34		10	10.13	101	63 - 139
BIS(2-ETHYLHEXYL)PHTHALATE	0.782358	0.77171430		1.36		10	9.864	98.60	43 - 137
CARBAZOLE	0.977299	1.048609		7.30		10	10.73	107	70 - 130
CHRYSENE	1.109860	1.135612		2.32		10	10.23	102	44 - 140
DI-N-BUTYL PHTHALATE	1.107044	1.266415		14.40		10	11.44	114	52 - 130
DIBENZ(A,H)ANTHRACENE	1.063160	1.129146		6.21		10	10.62	106	13 - 200
DIBENZOFURAN	1.592474	1.918767		20.50		10	12.05	121	70 - 130
DIETHYL PHTHALATE	1.266431	1.520566		20.10		10	12.01	120	47 - 130
DIMETHYL PHTHALATE	1.308603	1.431269		9.37		10	10.94	109	50 - 130
FLUORANTHENE	1.124917	1.216758		8.16		10	10.82	108	47 - 130
FLUORENE	1.309997	1.499687		14.50		10	11.45	115	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.162392	0.190609		17.40		10	11.74	117	68 - 130
HEXACHLOROBENZENE	0.202235	0.236573		17		10	11.70	117	38 - 142

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 11:52
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	04/22/19 17:49
Lab File ID:	0430A_03-1	**Analysis date/time:**	04/30/19 23:47
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	0.372906	0.41356060		10.90		10	11.09	111	70 - 130
HEXACHLOROETHANE	0.643530	0.62678210		2.60		10	9.740	97.40	55 - 130
INDENO(1,2,3-CD)PYRENE	1.042680	1.115531		6.99		10	10.70	107	13 - 151
ISOPHORONE	0.664482	0.768752		15.70		10	11.57	116	52 - 180
N-DECANE	0.860224	0.81223360		5.58		10	9.442	94.40	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.944823	1.020064		7.96		10	10.80	108	59 - 170
N-NITROSODIMETHYLAMINE	0.817066	0.77769060		4.82		10	9.518	95.20	70 - 130
N-NITROSODIPHENYLAMINE	0.604689	0.65101910		7.66		10	10.77	108	70 - 130
N-OCTADECANE	0.158169	0.15766080		0.3210		10	9.968	99.70	70 - 130
NAPHTHALENE	1.014642	1.081779		6.62		10	10.66	107	70 - 130
NITROBENZENE	0.362813	0.41091440		13.30		10	11.33	113	54 - 158
PENTACHLOROPHENOL	0.111464	0.13502950		21.10		10	10.64	106	42 - 152
PHENANTHRENE	1.094839	1.051352		3.97		10	9.603	96	67 - 130
PHENOL	1.709832	1.777995		3.99		10	10.40	104	48 - 130
PYRENE	1.327597	1.335340		0.5830		10	10.06	101	70 - 130
PYRIDINE	1.452610	1.512615		4.13		10	10.41	104	70 - 130
2,4,6-TRIBROMOPHENOL	0.100864	0.129420		28.30		10	12.83	128	70 - 130
2-FLUOROBIPHENYL	1.329496	1.517623		14.20		10	11.42	114	70 - 130
2-FLUOROPHENOL	1.300393	1.334783		2.64		10	10.26	103	70 - 130
NITROBENZENE-D5	0.366631	0.41938690		14.40		10	11.44	114	46 - 219
P-TERPHENYL-D14	0.830190	0.88164520		6.20		10	10.62	106	70 - 130
PHENOL-D5	1.705375	1.777584		4.23		10	10.42	104	48 - 208

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	04/22/19 11:52
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	04/22/19 17:49
Lab File ID:	0430A_04-1	**Analysis date/time:**	05/01/19 00:07
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	0.254948	0.29302660		14.90		10	11.49	115	70 - 130
3,3-DICHLOROBENZIDINE	0.436119	0.44882320		2.91		10	10.29	103	18 - 213
ACETOPHENONE	1.862762	1.974630		6.01		10	10.60	106	70 - 130
ATRAZINE	0.368759	0.40627860		10.20		10	11.02	110	70 - 130
BENZALDEHYDE	0.775266	0.82846750		6.86		10	10.69	107	70 - 130
BENZIDINE	0.807241	0.79666050		1.31		10	9.869	98.70	70 - 130
BENZOIC ACID	0.226401	0.28478420		25.80		10	12.58	126	70 - 130
CAPROLACTAM	0.096772	0.11644570		20.30		10	12.03	120	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	03/19/19 09:38
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	03/19/19 16:13
Lab File ID:	0430A_40-1	**Analysis date/time:**	05/01/19 15:40
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	87.4193	0.0074449770		100		20	3.092	15.50	10 - 130
N-NITROSODI-N-BUTYLAMINE	0.212597	0.21156150		0.4870		10	9.951	99.50	10 - 130
N-NITROSODIETHYLAMINE	0.646155	0.63781550		1.29		10	9.871	98.70	10 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1092757	**Calibration (begin) date/time:**	03/19/19 09:38
Instrument ID:	BNAMS26	**Calibration (end) date/time:**	03/19/19 16:13
Lab File ID:	0430A_41-1	**Analysis date/time:**	05/01/19 16:01
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	0.505969	0.55534570		9.76		10	10.98	110	10 - 130

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-1

Lab Sample ID:	R3406931-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0430A_10	**Received Date/Time:**	_____
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 02:10
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	4.99	U		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	0	U		0.000309	0.0010	0.00100
Acetophenone	98-86-2	3.40	U		0.00271	0.01	0.0100
Aniline	62-53-3	2.97	U		0.00243	0.01	0.0100
Anthracene	120-12-7	6.01	U		0.000291	0.0010	0.00100
Azobenzene	103-33-3	5.44	U		0.000318	0.01	0.0100
Benzidine	92-87-5	0	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	0	U		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	0	U		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	0	U		0.000340	0.0010	0.00100
Carbazole	86-74-8	6.13	U		0.000260	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	0	U		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.02	U		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	0	U		0.000445	0.01	0.0100
4-Chloroaniline	106-47-8	0	U		0.000382	0.01	0.0100
2-Chloronaphthalene	91-58-7	0	U		0.000330	0.0010	0.00100
Chrysene	218-01-9	0	U		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	0	U		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.12	U		0.000338	0.01	0.0100
3,3-Dichlorobenzidine	91-94-1	0	U		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.09	U		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	0	U		0.000279	0.01	0.0100
Fluoranthene	206-44-0	6.86	U		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.34	U		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	0	U		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	0	U		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	0	U		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	0	U		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.63	U		0.000272	0.01	0.0100
2-Methylnaphthalene	91-57-6	4.34	U		0.000311	0.0010	0.00100
Naphthalene	91-20-3	3.92	U		0.000372	0.0010	0.00100
2-Nitroaniline	88-74-4	0	U		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	0	U		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	0	U		0.000349	0.01	0.0100
Nitrobenzene	98-95-3	3.48	U		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	0	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	0	U		0.000403	0.01	0.0100
Phenanthrene	85-01-8	5.98	U		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.68	U		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	0	U		0.000709	0.0030	0.00300

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-1

Lab Sample ID:	R3406931-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0430A_10	**Received Date/Time:**	_____
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 02:10
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*
Di-n-butyl phthalate	84-74-2	6.35	U		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.25	U		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.81	U		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.05	U		0.000330	0.0010	0.00100
Pyridine	110-86-1	2.03	U		0.00137	0.01	0.0100
n-Decane	124-18-5	3.07	U		0.000596	0.01	0.0100
n-Octadecane	593-45-3	5.85	U		0.000377	0.01	0.0100
Benzyl Alcohol	100-51-6	0	U		0.000393	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.25	U		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.07	U		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.31	U		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	0	U		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	0	U		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	0	U		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	0	U		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	0	U		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	0	U		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	0	U		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	0	U		0.000313	0.01	0.0100
Phenol	108-95-2	2.98	U		0.000334	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	0	U		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	0	U		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	0	U		0.000297	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.34	U		0.000332	0.0010	0.00100
Biphenyl	92-52-4	4.62	U		0.000325	0.01	0.0100
Atrazine	1912-24-9	0	U		0.000260	0.01	0.0100
Benzaldehyde	100-52-7	2.96	U		0.00140	0.01	0.0100
Caprolactam	105-60-2	4.15	U		0.00259	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-8

Lab Sample ID:	R3406931-8	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0430A_43	**Received Date/Time:**	_____
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 16:42
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result** *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.:
R3407174-3

Lab Sample ID:	R3407174-3	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0501_08	**Received Date/Time:**	_____
Instrument ID:	BNAMS23	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 11:58
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*
Benzoic Acid	65-85-0	3.84	U		0.00440	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-3

Lab Sample ID:	R3406931-3	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0430A_13	**Received Date/Time:**	_____
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 03:11
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*
Biphenyl	92-52-4	4.62	0.0365		0.000325	0.01	0.0100
Carbazole	86-74-8	6.13	0.0431		0.00162	0.01	0.0100
Acenaphthene	83-32-9	5.01	0.0369		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	4.90	0.0437		0.000309	0.0010	0.00100
Anthracene	120-12-7	6.02	0.0369		0.000291	0.0010	0.00100
Benzidine	92-87-5	6.97	0.0648		0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.38	0.0426		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.11	0.0416		0.0000896	0.0010	0.00100
Acetophenone	98-86-2	3.40	0.0374		0.00271	0.01	0.0100
Benzo(k)fluoranthene	207-08-9	10.15	0.0429		0.000355	0.0010	0.00100
Aniline	62-53-3	3	0.0529		0.00243	0.01	0.0100
Benzo(a)pyrene	50-32-8	10.70	0.0411		0.000340	0.0010	0.00100
Azobenzene	103-33-3	5.44	0.0443		0.000318	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	3.75	0.0351		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.02	0.0324		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.31	0.0331		0.000445	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.64	0.0355		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.43	0.0416		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	12.80	0.0424		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.12	0.0435		0.000338	0.01	0.0100
3,3-Dichlorobenzidine	91-94-1	8.36	0.0816		0.00202	0.01	0.0100
4-Chloroaniline	106-47-8	3.95	0.0368		0.000382	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.11	0.0432		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.85	0.0413		0.000279	0.01	0.0100
Fluoranthene	206-44-0	6.85	0.0429		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.34	0.0425		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.70	0.0426		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	3.99	0.0360		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.43	0.0304		0.00233	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	12.75	0.0420		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.63	0.0379		0.000272	0.01	0.0100
Naphthalene	91-20-3	3.93	0.0322		0.000372	0.0010	0.00100
Nitrobenzene	98-95-3	3.50	0.0339		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	1.93	0.0211		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.41	0.0382		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.39	0.0401		0.000403	0.01	0.0100
2-Methylnaphthalene	91-57-6	4.34	0.0324		0.000311	0.0010	0.00100
n-Decane	124-18-5	3.06	0.0274		0.000596	0.01	0.0100
Phenanthrene	85-01-8	5.98	0.0362		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.68	0.0413		0.000275	0.0030	0.00300
n-Octadecane	593-45-3	5.85	0.0348		0.000377	0.01	0.0100
2-Nitroaniline	88-74-4	4.71	0.0416		0.00190	0.01	0.0100
Bis(2-ethylhexyl)phthalate	117-81-7	8.44	0.0423		0.000709	0.0030	0.00300

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-3

Lab Sample ID:	R3406931-3	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0430A_13	**Received Date/Time:**	_____
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 03:11
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*
3-Nitroaniline	99-09-2	4.97	0.0394		0.000308	0.01	0.0100
Di-n-butyl phthalate	84-74-2	6.35	0.0454		0.000266	0.0030	0.00300
4-Nitroaniline	100-01-6	5.35	0.0416		0.000349	0.01	0.0100
Diethyl phthalate	84-66-2	5.25	0.0468		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.81	0.0410		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.05	0.0389		0.000330	0.0010	0.00100
1-Methylnaphthalene	90-12-0	4.40	0.0319		0.000217	0.0010	0.00100
Pyridine	110-86-1	1.95	0.0248		0.00137	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.24	0.0374		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.07	0.0317		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.31	0.0295		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.39	0.0304		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.83	0.0343		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.70	0.0346		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.37	0.0425		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.02	0.0339		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.68	0.0337		0.000320	0.01	0.0100
Benzyl Alcohol	100-51-6	3.25	0.0309		0.000393	0.01	0.0100
4-Nitrophenol	100-02-7	5.08	0.0158		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	5.84	0.0357		0.000313	0.01	0.0100
Phenol	108-95-2	2.98	0.0140		0.000334	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.54	0.0426		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.51	0.0419		0.000297	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.44	0.0392		0.00241	0.01	0.0100
Atrazine	1912-24-9	5.75	0.0447		0.00153	0.01	0.0100
Benzaldehyde	100-52-7	2.95	0.0476		0.00140	0.01	0.0100
Caprolactam	105-60-2	4.15	0.0145		0.00259	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-5

Lab Sample ID:	R3406931-5	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0430A_42	**Received Date/Time:**	_____
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 16:21
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	10.51	0.00868	J4	0.00144	0.05	0.0500
n-Nitrosodiethylamine	55-18-5	2.62	0.0384		0.000497	0.01	0.0100
n-Nitrosodi-n-butylamine	924-16-3	4.14	0.0471		0.000331	0.01	0.0100
Pentachlorobenzene	608-93-5	5.09	0.0423		0.000369	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407174-1

Lab Sample ID:	R3407174-1	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0501_06	**Received Date/Time:**	_____
Instrument ID:	BNAMS23	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 11:16
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*
Benzoic Acid	65-85-0	3.85	0.00698	J4	0.00440	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-4

Lab Sample ID:	R3406931-4	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0430A_14	**Received Date/Time:**	_____
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 03:31
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*
Biphenyl	92-52-4	4.62	0.0319		0.000325	0.01	0.0100
Carbazole	86-74-8	6.12	0.0393		0.00162	0.01	0.0100
Acenaphthene	83-32-9	5.01	0.0327		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	4.90	0.0387		0.000309	0.0010	0.00100
Anthracene	120-12-7	6.01	0.0336		0.000291	0.0010	0.00100
Benzidine	92-87-5	6.96	0.0309	J3	0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.38	0.0369		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.10	0.0370		0.0000896	0.0010	0.00100
Acetophenone	98-86-2	3.40	0.0347		0.00271	0.01	0.0100
Benzo(k)fluoranthene	207-08-9	10.15	0.0377		0.000355	0.0010	0.00100
Aniline	62-53-3	3	0.0311	J3	0.00243	0.01	0.0100
Benzo(a)pyrene	50-32-8	10.70	0.0362		0.000340	0.0010	0.00100
Azobenzene	103-33-3	5.44	0.0396		0.000318	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	3.75	0.0317		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.02	0.0318		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.31	0.0305		0.000445	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.64	0.0313		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.43	0.0359		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	12.80	0.0376		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.12	0.0381		0.000338	0.01	0.0100
3,3-Dichlorobenzidine	91-94-1	8.36	0.0689		0.00202	0.01	0.0100
4-Chloroaniline	106-47-8	3.95	0.0338		0.000382	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.11	0.0383		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.85	0.0360		0.000279	0.01	0.0100
Fluoranthene	206-44-0	6.85	0.0388		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.34	0.0383		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.70	0.0399		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	3.99	0.0315		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.43	0.0277		0.00233	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	12.75	0.0363		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.63	0.0348		0.000272	0.01	0.0100
Naphthalene	91-20-3	3.92	0.0285		0.000372	0.0010	0.00100
Nitrobenzene	98-95-3	3.50	0.0306		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	1.93	0.0236		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.41	0.0343		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.39	0.0371		0.000403	0.01	0.0100
2-Methylnaphthalene	91-57-6	4.34	0.0286		0.000311	0.0010	0.00100
n-Decane	124-18-5	3.06	0.0258		0.000596	0.01	0.0100
Phenanthrene	85-01-8	5.98	0.0330		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.68	0.0348		0.000275	0.0030	0.00300
n-Octadecane	593-45-3	5.85	0.0329		0.000377	0.01	0.0100
2-Nitroaniline	88-74-4	4.71	0.0384		0.00190	0.01	0.0100
Bis(2-ethylhexyl)phthalate	117-81-7	8.44	0.0360		0.000709	0.0030	0.00300

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-4

Lab Sample ID:	R3406931-4	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0430A_14	**Received Date/Time:**	_____
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 03:31
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*
3-Nitroaniline	99-09-2	4.97	0.0412		0.000308	0.01	0.0100
Di-n-butyl phthalate	84-74-2	6.35	0.0411		0.000266	0.0030	0.00300
4-Nitroaniline	100-01-6	5.35	0.0400		0.000349	0.01	0.0100
Diethyl phthalate	84-66-2	5.25	0.0417		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.81	0.0375		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.05	0.0336		0.000330	0.0010	0.00100
1-Methylnaphthalene	90-12-0	4.40	0.0281		0.000217	0.0010	0.00100
Pyridine	110-86-1	1.95	0.0183		0.00137	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.25	0.0357		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.07	0.0309		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.31	0.0312		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.39	0.0330		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.83	0.0311		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.70	0.0331		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.37	0.0381		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.02	0.0300		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.68	0.0303		0.000320	0.01	0.0100
Benzyl Alcohol	100-51-6	3.25	0.0342		0.000393	0.01	0.0100
4-Nitrophenol	100-02-7	5.08	0.0171		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	5.83	0.0311		0.000313	0.01	0.0100
Phenol	108-95-2	2.98	0.0160		0.000334	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.54	0.0375		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.51	0.0370		0.000297	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.44	0.0353		0.00241	0.01	0.0100
Atrazine	1912-24-9	5.75	0.0393		0.00153	0.01	0.0100
Benzaldehyde	100-52-7	2.95	0.0445		0.00140	0.01	0.0100
Caprolactam	105-60-2	4.15	0.0146		0.00259	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407174-2

Lab Sample ID:	R3407174-2	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0501_07	**Received Date/Time:**	_____
Instrument ID:	BNAMS23	**Preparation Date/Time:**	04/30/19 17:16
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 11:37
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*
Benzoic Acid	65-85-0	3.85	0.00547	J4	0.00440	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-6

Lab Sample ID:	R3406931-6	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 12:30
Lab File ID:	0430A_35	**Received Date/Time:**	04/26/19 08:45
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:17
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 10:39
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.01	0.0391		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	4.90	0.0454		0.000309	0.0010	0.00100
Anthracene	120-12-7	6.02	0.0409		0.000291	0.0010	0.00100
Benzidine	92-87-5	6.97	0.00877		0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.39	0.0455		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.11	0.0469		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.16	0.0475		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	10.71	0.0444		0.000340	0.0010	0.00100
Bis(2-chlorethoxy)methane	111-91-1	3.75	0.0369		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.02	0.0348		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.32	0.0340		0.000445	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.64	0.0366		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.44	0.0436		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	12.81	0.0437		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.12	0.0463		0.000338	0.01	0.0100
Biphenyl	92-52-4	4.62	0.0385		0.000325	0.01	0.0100
3,3-Dichlorobenzidine	91-94-1	8.37	0.0820		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.11	0.0504		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.85	0.0457		0.000279	0.01	0.0100
Fluoranthene	206-44-0	6.86	0.0494		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.34	0.0487		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.70	0.0487		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	3.99	0.0359		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.43	0.0313		0.00233	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	12.75	0.0439		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.63	0.0416		0.000272	0.01	0.0100
Carbazole	86-74-8	6.13	0.0479		0.00162	0.01	0.0100
Naphthalene	91-20-3	3.93	0.0308		0.000372	0.0010	0.00100
n-Decane	124-18-5	3.07	0.0277		0.000596	0.01	0.0100
n-Octadecane	593-45-3	5.86	0.0391		0.000377	0.01	0.0100
Nitrobenzene	98-95-3	3.50	0.0338		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	1.93	0.0233		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.41	0.0420		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.39	0.0427		0.000403	0.01	0.0100
Phenanthrene	85-01-8	5.98	0.0393		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.69	0.0458		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.44	0.0473		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.35	0.0522		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.25	0.0555		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.81	0.0474		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.05	0.0428		0.000330	0.0010	0.00100
Pyridine	110-86-1	1.95	0.0186		0.00137	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.25	0.0434		0.000263	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-6

Lab Sample ID:	R3406931-6	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/24/19 12:30
Lab File ID:	0430A_35	**Received Date/Time:**	04/26/19 08:45
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:17
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 10:39
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
2-Chlorophenol	95-57-8	3.07	0.0327		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.31	0.0332		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.39	0.0359		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.83	0.0354		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.70	0.0380		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.37	0.0478		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.03	0.0466		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.68	0.0346		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.08	0.0234		0.00201	0.01	0.0100
Benzoic Acid	65-85-0	3.76	0.0391		0.00440	0.01	0.0100
Pentachlorophenol	87-86-5	5.84	0.0448		0.000313	0.01	0.0100
Phenol	108-95-2	2.98	0.0165		0.000334	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.54	0.0469		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.51	0.0464		0.000297	0.01	0.0100
Acetophenone	98-86-2	3.40	0.0387		0.00271	0.01	0.0100
Aniline	62-53-3	3	0.0272		0.00243	0.01	0.0100
Azobenzene	103-33-3	5.44	0.0497		0.000318	0.01	0.0100
4-Chloroaniline	106-47-8	3.95	0.0306		0.000382	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.40	0.0331		0.000217	0.0010	0.00100
2-Methylnaphthalene	91-57-6	4.34	0.0336		0.000311	0.0010	0.00100
2-Nitroaniline	88-74-4	4.71	0.0468		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	4.97	0.0482		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	5.36	0.0496		0.000349	0.01	0.0100
Benzyl Alcohol	100-51-6	3.25	0.0380		0.000393	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.44	0.0419		0.00241	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-7

Lab Sample ID:	R3406931-7	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/24/19 12:30
Lab File ID:	0430A_36	**Received Date/Time:**	04/26/19 08:45
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:17
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 11:00
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	5.01	0.0418		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	4.91	0.0488		0.000309	0.0010	0.00100
Anthracene	120-12-7	6.02	0.0408		0.000291	0.0010	0.00100
Benzidine	92-87-5	6.97	0.00731		0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.39	0.0444		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.11	0.0476		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.17	0.0461		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	10.71	0.0451		0.000340	0.0010	0.00100
Bis(2-chlorethoxy)methane	111-91-1	3.75	0.0410		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.03	0.0399		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.32	0.0389		0.000445	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.64	0.0398		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.44	0.0427		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	12.81	0.0441		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.12	0.0487		0.000338	0.01	0.0100
Biphenyl	92-52-4	4.62	0.0398		0.000325	0.01	0.0100
3,3-Dichlorobenzidine	91-94-1	8.37	0.0818		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.11	0.0486		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.85	0.0466		0.000279	0.01	0.0100
Fluoranthene	206-44-0	6.86	0.0499		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.34	0.0495		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.70	0.0497		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	3.99	0.0398		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.43	0.0346		0.00233	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	12.76	0.0441		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.63	0.0431		0.000272	0.01	0.0100
Carbazole	86-74-8	6.14	0.0481		0.00162	0.01	0.0100
Naphthalene	91-20-3	3.92	0.0369		0.000372	0.0010	0.00100
n-Decane	124-18-5	3.07	0.0318		0.000596	0.01	0.0100
n-Octadecane	593-45-3	5.86	0.0404		0.000377	0.01	0.0100
Nitrobenzene	98-95-3	3.50	0.0386		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	1.93	0.0255		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.41	0.0437		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.39	0.0480		0.000403	0.01	0.0100
Phenanthrene	85-01-8	5.99	0.0401		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.69	0.0447		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.44	0.0465		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.35	0.0542		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.25	0.0562		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.81	0.0461		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.05	0.0421		0.000330	0.0010	0.00100
Pyridine	110-86-1	1.95	0.0194		0.00137	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.25	0.0461		0.000263	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406931-7

Lab Sample ID:	R3406931-7	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/24/19 12:30
Lab File ID:	0430A_36	**Received Date/Time:**	04/26/19 08:45
Instrument ID:	BNAMS26	**Preparation Date/Time:**	04/30/19 17:17
Analytical Batch:	WG1273971	**Analysis Date/Time:**	05/01/19 11:00
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*
2-Chlorophenol	95-57-8	3.07	0.0371		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.31	0.0378		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.39	0.0406		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.83	0.0393		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.70	0.0397		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.37	0.0503		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.03	0.0487		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.68	0.0400		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.08	0.0234		0.00201	0.01	0.0100
Benzoic Acid	65-85-0	3.75	0.0378		0.00440	0.01	0.0100
Pentachlorophenol	87-86-5	5.84	0.0461		0.000313	0.01	0.0100
Phenol	108-95-2	2.98	0.0195		0.000334	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.54	0.0503		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.51	0.0481		0.000297	0.01	0.0100
Acetophenone	98-86-2	3.40	0.0423		0.00271	0.01	0.0100
Aniline	62-53-3	3	0.0248		0.00243	0.01	0.0100
Azobenzene	103-33-3	5.44	0.0496		0.000318	0.01	0.0100
4-Chloroaniline	106-47-8	3.95	0.0225		0.000382	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.40	0.0361		0.000217	0.0010	0.00100
2-Methylnaphthalene	91-57-6	4.34	0.0357		0.000311	0.0010	0.00100
2-Nitroaniline	88-74-4	4.71	0.0476		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	4.97	0.0477		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	5.36	0.0515		0.000349	0.01	0.0100
Benzyl Alcohol	100-51-6	3.25	0.0419		0.000393	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.44	0.0455		0.00241	0.01	0.0100

8015M SVOC-GC-GLYCOLS

2A-OR

SURROGATE RECOVERY

Analytical Method: 8015M **SDG:** L1092757
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
WW-20190424-002 -DAY 1	L1092757-01	SVGC10	0430_16B	59.0D	1
BLANK	R3406633-1	SVGC10	0429_07	73.9	0
LCS	R3406633-2	SVGC10	0429_10	74.4	0
LCSD	R3406633-3	SVGC10	0429_11	75.7	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

L1092757-01

SAMPLE NO.:
R3406633-2
R3406633-3

LCS Sample / File ID:	R3406633-2 / 0429_10	**SDG:**	L1092757
LCSD Sample / File ID:	R3406633-3 / 0429_11	**Analytical Batch:**	WG1273140
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	91.9	89.9	102	99.9	80.0 - 120	2.20	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.:
R3406633-1

Lab Sample ID:	R3406633-1	**SDG:**	L1092757
Lab File ID:	0429_07	**Preparation Date/Time:**	04/28/19 15:55
Instrument ID:	SVGC10	**Analysis Date/Time:**	04/29/19 18:28
Analytical Batch:	WG1273140	**Dilution Factor:**	1
Analytical Method:	8015M	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3406633-2	SVGC10	0429_10	04/29/19 19:22
LCSD	R3406633-3	SVGC10	0429_11	04/29/19 19:39
WW-20190424-002-DAY 1	L1092757-01	SVGC10	0430_16B	05/01/19 02:35

Sample Narrative:

Dilution due to matrix impact on instrumentation at lower dilution

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0430_16B	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	SVGC10	**Preparation Date/Time:**	04/28/19 16:26
Analytical Batch:	WG1273140	**Analysis Date/Time:**	05/01/19 02:35
Dilution Factor:	100	**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		49.2	5.00	500

Sample Narrative:

Dilution due to matrix impact on instrumentation at lower dilution

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**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:	L1092757	**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:	L1092757	**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:	L1092757	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0429_04	**Analysis date/time:**	04/29/19 17:35
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	29.73	99.10	80 - 120
1,3-PROPANEDIOL	30	28.98	96.60	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0429_14	**Analysis date/time:**	04/29/19 20:33
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	29.33	97.80	80 - 120
1,3-PROPANEDIOL	30	28.28	94.30	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0430_04b	**Analysis date/time:**	04/30/19 23:01
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	30.15	101	80 - 120
1,3-PROPANEDIOL	30	28.90	96.30	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0430_09b	**Analysis date/time:**	05/01/19 00:30
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	29.86	99.50	80 - 120
1,3-PROPANEDIOL	30	28.20	94	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0430_22b	**Analysis date/time:**	05/01/19 04:22
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	28.69	95.60	80 - 120
1,3-PROPANEDIOL	30	27.20	90.70	50 - 150

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1092757	**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	SVGC100429190429_04465874	0429_04	04/29/19 17:35	1	
BLANK	R3406633-1	0429_07	04/29/19 18:28	1	WG1273140
LCS	R3406633-2	0429_10	04/29/19 19:22	1	WG1273140
LCSD	R3406633-3	0429_11	04/29/19 19:39	1	WG1273140
CCV	SVGC100429190429_14465874	0429_14	04/29/19 20:33	1	
CCV	SVGC10043019b0430_04b465874	0430_04b	04/30/19 23:01	1	
CCV	SVGC10043019b0430_09b465874	0430_09b	05/01/19 00:30	1	
WW-20190424-002-DAY 1	L1092757-01	0430_16B	05/01/19 02:35	100	WG1273140
CCV	SVGC10043019b0430_22b465874	0430_22b	05/01/19 04:22	1	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406633-1

Lab Sample ID:	R3406633-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0429_07	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	04/28/19 15:55
Analytical Batch:	WG1273140	**Analysis Date/Time:**	04/29/19 18:28
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.:
R3406633-2

Lab Sample ID:	R3406633-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0429_10	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	04/28/19 15:55
Analytical Batch:	WG1273140	**Analysis Date/Time:**	04/29/19 19:22
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	5.74	91.9		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406633-3

Lab Sample ID:	R3406633-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0429_11	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	04/28/19 15:55
Analytical Batch:	WG1273140	**Analysis Date/Time:**	04/29/19 19:39
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	89.9		0.492	5	5.00

8141 OP Pesticides

2A-OR

SURROGATE RECOVERY

Analytical Method: 8141 **SDG:** L1092757
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
WW-20190424-002 -DAY 1	L1092757-01	SVGC12	0429A_14	70.2	0
MS	R3408468-1	SVGC12	0503A_18	68.0	0
MSD	R3408468-2	SVGC12	0503A_19	69.0	0
BLANK	R3406638-1	SVGC12	0429A_04	63.0	0
LCS	R3406638-2	SVGC12	0429A_08	66.8	0
LCSD	R3406638-3	SVGC12	0429A_09	69.6	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

L1092757-01

SAMPLE NO.:
R3408468-1
R3408468-2

MS Sample / File ID:	R3408468-1 / 0503A_18	**SDG:**	L1092757
MSD Sample / File ID:	R3408468-2 / 0503A_19	**Analytical Batch:**	WG1273119
OS Sample / File ID:	L1092679-03 / 0503A_17	**Matrix:**	WW
Instrument ID:	SVGC12		
Analytical Method:	8141		

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	0.00319	0.00338	63.8	67.6	1	29.0 - 157	5.78	20
Chlorpyrifos	0.00500	U	0.00325	0.00324	65.0	64.8	1	42.0 - 131	0.308	20
Demeton,-O and -S	0.00250	U	0.00123	0.00137	49.2	54.8	1	30.0 - 152	10.8	20
Diazinon	0.00500	U	0.00343	0.00365	68.6	73.0	1	47.0 - 134	6.21	20
Malathion	0.00500	U	0.00329	0.00332	65.8	66.4	1	39.0 - 126	0.908	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

L1092757-01

SAMPLE NO.:
R3406638-2
R3406638-3

LCS Sample / File ID:	R3406638-2 / 0429A_08	**SDG:**	L1092757
LCSD Sample / File ID:	R3406638-3 / 0429A_09	**Analytical Batch:**	WG1273119
Instrument ID:	SVGC12	**Dilution Factor:**	1
Analytical Method:	8141	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Azinphos-Methyl	0.00500	0.00316	0.00332	63.2	66.4	43.0 - 142	4.94	20
Chlorpyrifos	0.00500	0.00326	0.00325	65.2	65.0	50.0 - 126	0.307	20
Demeton,-O and -S	0.00250	0.00127	0.00119	50.8	47.6	22.0 - 150	6.50	24
Diazinon	0.00500	0.00337	0.00339	67.4	67.8	54.0 - 130	0.592	20
Malathion	0.00500	0.00314	0.00319	62.8	63.8	47.0 - 121	1.58	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.:
R3406638-1

Lab Sample ID:	R3406638-1	**SDG:**	L1092757
Lab File ID:	0429A_04	**Preparation Date/Time:**	04/28/19 17:26
Instrument ID:	SVGC12	**Analysis Date/Time:**	04/29/19 05:08
Analytical Batch:	WG1273119	**Dilution Factor:**	1
Analytical Method:	8141	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3406638-2	SVGC12	0429A_08	04/29/19 07:15
LCSD	R3406638-3	SVGC12	0429A_09	04/29/19 07:47
WW-20190424-002-DAY 1	L1092757-01	SVGC12	0429A_14	04/29/19 10:34
OS	L1092679-03	SVGC12	0503A_17	05/03/19 21:52
MS	R3408468-1	SVGC12	0503A_18	05/03/19 22:23
MSD	R3408468-2	SVGC12	0503A_19	05/03/19 22:55

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1092757	**Analytical Method:**	8141
Instrument ID:	SVGC12	**Calibration Start Date:**	04/08/19 15:02
Std File:	AVG	**Calibration End Date:**	04/08/19 18:44
		Std Analysis Date:	AVG

Sample ID	File ID	TBP	
		Response	*RT*
STANDARD		1260192500	15.27
UPPER LIMIT		55213680	
LOWER LIMIT		18404560	
BLANK R3406638-1 WG1273119 1x	0429A_04	1399299000	15.11
LCS R3406638-2 WG1273119 1x	0429A_08	1404360000	15.10
LCSD R3406638-3 WG1273119 1x	0429A_09	1440853000	15.11
L1092757-01 WG1273119 1x	0429A_14	1437810000	15.11
OS L1092679-03 WG1273119 1x	0503A_17	1315591000	15.10
MS R3408468-1 WG1273119 1x	0503A_18	1286561000	15.10
MSD R3408468-2 WG1273119 1x	0503A_19	1285768000	15.10

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-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0429A_14	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:30
Analytical Batch:	WG1273119	**Analysis Date/Time:**	04/29/19 10:34
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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		0.000348	0.00100	0.00100
Chlorpyrifos	2921-88-2	0	U		0.000245	0.00100	0.00100
Demeton,-O and -S	8065-48-3	0	U		0.000341	0.00200	0.00200
Diazinon	333-41-5	0	U		0.000377	0.00100	0.00100
Malathion	121-75-5	0	U		0.000173	0.00100	0.00100

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	04/08/19 18:44
Analytical Method:	8141		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	16.02	16.02	16.02	16.02	15.84	16.02	16.03	16.03
DEMETON,-O AND -S	16.91	16.90	16.90	16.90	16.72	16.91	16.91	16.92
CHLORPYRIFOS	20.36	20.36	20.36	20.36	20.18	20.37	20.37	20.38
MALATHION	22.29	22.29	22.29	22.29	22.11	22.30	22.30	22.30
AZINPHOS-METHYL	27.01	27.01	27.01	27.01	27	27.02	27.02	27.02
TRIPHENYL PHOSPHATE	26.16	26.16	26.16	26.16	26.13	26.16	26.16	26.16
File ID:	0408_02	0408_03	0408_04	0408_05	0408_06	0408_07	0408_08	0408_09

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	04/08/19 18:44
Analytical Method:	8141		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	18.28	18.28	18.27	18.27	15.84	18.28	18.28	18.29
DEMETON,-O AND -S	16.93	16.93	16.94	16.94	16.72	16.94	16.95	16.95
CHLORPYRIFOS	22.76	22.77	22.77	22.77	20.18	22.78	22.78	22.79
MALATHION	22.61	22.61	22.61	22.61	22.11	22.62	22.63	22.64
AZINPHOS-METHYL	27.42	27.42	27.42	27.42	27	27.42	27.42	27.42
TRIPHENYL PHOSPHATE	26.71	26.71	26.72	26.71	26.13	26.72	26.72	26.72
File ID:	0408_02	0408_03	0408_04	0408_05	0408_06	0408_07	0408_08	0408_09

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/03/19 13:57
Analytical Method:	8141		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	15.82	15.82	15.82	15.82	15.83	15.83	15.83	15.84
DEMETON,-O AND -S	16.70	16.70	16.70	16.70	16.71	16.70	16.70	16.71
CHLORPYRIFOS	20.16	20.16	20.16	20.15	20.17	20.16	20.16	20.17
MALATHION	22.09	22.09	22.09	22.09	22.10	22.09	22.09	22.11
AZINPHOS-METHYL	27	26.99	26.99	26.99	26.99	27	26.99	26.99
TRIPHENYL PHOSPHATE	26.13	26.13	26.13	26.13	26.13	26.13	26.13	26.13
File ID:	0430B_02	0430B_03	0430B_04	0430B_05	0503A_02	0430B_07	0430B_08	0430B_09

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/03/19 13:57
Analytical Method:	8141		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	18.09	18.08	18.09	18.09	18.10	18.09	18.10	18.11
DEMETON,-O AND -S	16.74	16.75	16.74	16.75	16.76	16.75	16.75	16.76
CHLORPYRIFOS	22.58	22.58	22.57	22.58	22.59	22.58	22.59	22.60
MALATHION	22.42	22.42	22.42	22.42	22.44	22.43	22.44	22.46
AZINPHOS-METHYL	27.41	27.41	27.41	27.41	27.41	27.41	27.41	27.41
TRIPHENYL PHOSPHATE	26.70	26.69	26.70	26.70	26.70	26.70	26.70	26.70
File ID:	0430B_02	0430B_03	0430B_04	0430B_05	0503A_02	0430B_07	0430B_08	0430B_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	04/08/19 18:44
Analytical Method:	8141		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	0.9970	0.7660	0.80	1.0290	0.7030	0.7650	0.7110	0.5720
DEMETON,-O AND -S	1.5930	1.2970	1.2110	1.6310	1.2170	1.44	1.4510	1.2140
CHLORPYRIFOS	0.9380	0.6950	0.7520	0.9420	0.6790	0.7260	0.6450	0.5380
MALATHION	0.7450	0.6080	0.5990	0.8170	0.5650	0.6680	0.6040	0.5310
AZINPHOS-METHYL	0.6450	0.5420	0.5610	0.7250	0.5240	0.5870	0.5050	0.38
TRIPHENYL PHOSPHATE	0.8610	0.6790	0.6610	0.8350	0.6010	0.6540	0.5790	0.4620
File ID:	0408_02	0408_03	0408_04	0408_05	0408_06	0408_07	0408_08	0408_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	04/08/19 18:44
Analytical Method:	8141		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.792932	19.22	
DEMETON,-O AND -S	1.381876	12.43	
CHLORPYRIFOS	0.739348	18.84	
MALATHION	0.642278	14.95	
AZINPHOS-METHYL	0.558463	18.18	
TRIPHENYL PHOSPHATE	0.666373	19.68	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	04/08/19 18:44
Analytical Method:	8141		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	0.9150	0.90	0.8210	1.0720	0.7730	0.8230	0.8110	0.83
DEMETON,-O AND -S	1.4180	1.4490	1.3160	1.6560	1.2150	1.3310	1.3480	1.1370
CHLORPYRIFOS	1.07	0.7390	0.7570	0.9550	0.72	0.7820	0.7630	0.7660
MALATHION	0.9180	0.6870	0.6410	0.8110	0.62	0.6720	0.6580	0.6730
AZINPHOS-METHYL	1.0740	0.82	0.7420	0.9850	0.7410	0.8090	0.7840	0.77
TRIPHENYL PHOSPHATE	1.3460	1.0990	0.9790	1.2180	0.9320	1.0240	1.01	1.0280
File ID:	0408_02	0408_03	0408_04	0408_05	0408_06	0408_07	0408_08	0408_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	04/08/19 18:44
Analytical Method:	8141		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.868054	10.92	
DEMETON,-O AND -S	1.358973	11.55	
CHLORPYRIFOS	0.818925	15.23	
MALATHION	0.710002	14.31	
AZINPHOS-METHYL	0.840522	14.54	
TRIPHENYL PHOSPHATE	1.079596	12.76	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/03/19 13:57
Analytical Method:	8141		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	1.1130	0.9010	0.8520	0.9240	0.7890	0.7620	0.7060	0.6510
DEMETON,-O AND -S	1.6280	1.4180	1.3260	1.4830	1.3540	1.33	1.4080	1.3540
CHLORPYRIFOS	0.9440	0.7830	0.7820	0.8550	0.7440	0.7260	0.6730	0.5940
MALATHION	0.8010	0.7010	0.6340	0.6550	0.6170	0.6280	0.62	0.5840
AZINPHOS-METHYL	0.6210	0.5480	0.5490	0.6050	0.5350	0.5430	0.5060	0.4280
TRIPHENYL PHOSPHATE	0.8880	0.7580	0.7120	0.7210	0.6530	0.62	0.5890	0.5240
File ID:	0430B_02	0430B_03	0430B_04	0430B_05	0503A_02	0430B_07	0430B_08	0430B_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/03/19 13:57
Analytical Method:	8141		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.837298	17.35	
DEMETON,-O AND -S	1.412711	7.19	
CHLORPYRIFOS	0.762587	14.03	
MALATHION	0.654989	10.39	
AZINPHOS-METHYL	0.541885	10.92	
TRIPHENYL PHOSPHATE	0.683257	16.48	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/03/19 13:57
Analytical Method:	8141		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	1.0230	0.9860	0.8750	0.9610	0.8150	0.8450	0.8850	0.8640
DEMETON,-O AND -S	2.1410	1.88	1.23	1.4670	1.2770	1.3380	1.46	1.4220
CHLORPYRIFOS	1.3140	0.9120	0.8420	0.8870	0.7670	0.7970	0.8360	0.8380
MALATHION	1.2250	0.8070	0.7640	0.7690	0.6560	0.6790	0.7190	0.7290
AZINPHOS-METHYL	1.0160	0.9030	0.8080	0.8730	0.7990	0.7950	0.8280	0.8470
TRIPHENYL PHOSPHATE	1.4110	1.1670	1.0760	1.18	1.0280	1.0560	1.1450	1.1760
File ID:	0430B_02	0430B_03	0430B_04	0430B_05	0503A_02	0430B_07	0430B_08	0430B_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/03/19 13:57
Analytical Method:	8141		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.906648	8.17	
DEMETON,-O AND -S	1.527018	20.81	0.999
CHLORPYRIFOS	0.898922	19.32	
MALATHION	0.793337	22.81	0.998
AZINPHOS-METHYL	0.858515	8.61	
TRIPHENYL PHOSPHATE	1.154753	10.3	

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	04/08/19 18:44
Lab File ID:	0408_11	**Analysis date/time:**	04/08/19 19:47
Analytical Method:	8141	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.354	118	70 - 130
CHLORPYRIFOS	2	2.391	120	70 - 130
DEMETON,-O AND -S	1	1.219	122	70 - 130
DIAZINON	2	2.263	113	70 - 130
MALATHION	2	2.305	115	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	04/08/19 18:44
Lab File ID:	0408_11	**Analysis date/time:**	04/08/19 19:47
Analytical Method:	8141	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.161	108	70 - 130
CHLORPYRIFOS	2	2.227	111	70 - 130
DEMETON,-O AND -S	1	1.210	121	70 - 130
DIAZINON	2	2.227	111	70 - 130
MALATHION	2	2.294	115	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	04/08/19 18:44
Lab File ID:	0429A_02	**Analysis date/time:**	04/29/19 04:05
Analytical Method:	8141	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	1.820	91	80 - 120
CHLORPYRIFOS	2	1.770	88.50	80 - 120
DEMETON,-O AND -S	1	0.8314	83.10	80 - 120
DIAZINON	2	1.782	89.10	80 - 120
MALATHION	2	1.681	84.10	80 - 120
TRIPHENYL PHOSPHATE	2	1.745	87.30	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/08/19 15:02
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	04/08/19 18:44
Lab File ID:	0429A_02	**Analysis date/time:**	04/29/19 04:05
Analytical Method:	8141	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	1.688	84.40	80 - 120
CHLORPYRIFOS	2	1.639	82	80 - 120
DEMETON,-O AND -S	1	0.8448	84.50	80 - 120
DIAZINON	2	1.691	84.60	80 - 120
MALATHION	2	1.649	82.50	80 - 120
TRIPHENYL PHOSPHATE	2	1.611	80.50	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/03/19 13:57
Lab File ID:	0430B_11	**Analysis date/time:**	04/30/19 18:17
Analytical Method:	8141	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.168	108	70 - 130
CHLORPYRIFOS	2	2.147	107	70 - 130
DEMETON,-O AND -S	1	1.118	112	70 - 130
DIAZINON	2	2.022	101	70 - 130
MALATHION	2	2.172	109	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/03/19 13:57
Lab File ID:	0430B_11	**Analysis date/time:**	04/30/19 18:17
Analytical Method:	8141	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.146	107	70 - 130
CHLORPYRIFOS	2	1.953	97.60	70 - 130
DEMETON,-O AND -S	1	1.165	117	70 - 130
DIAZINON	2	2.062	103	70 - 130
MALATHION	2	2.101	105	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/03/19 13:57
Lab File ID:	0503A_02	**Analysis date/time:**	05/03/19 13:57
Analytical Method:	8141	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.118	106	80 - 120
CHLORPYRIFOS	2	1.976	98.80	80 - 120
DEMETON,-O AND -S	1	0.9537	95.40	80 - 120
DIAZINON	2	1.900	95	80 - 120
MALATHION	2	1.885	94.30	80 - 120
TRIPHENYL PHOSPHATE	2	1.947	97.30	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/30/19 13:32
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/03/19 13:57
Lab File ID:	0503A_02	**Analysis date/time:**	05/03/19 13:57
Analytical Method:	8141	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	1.806	90.30	80 - 120
CHLORPYRIFOS	2	1.691	84.60	80 - 120
DEMETON,-O AND -S	1	0.9253	92.50	80 - 120
DIAZINON	2	1.762	88.10	80 - 120
MALATHION	2	1.775	88.80	80 - 120
TRIPHENYL PHOSPHATE	2	1.721	86	80 - 120

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1092757	**Analytical Method:**	8141
Instrument ID:	SVGC12	**Calibration Start Date:**	04/08/19 15:02
		Calibration End Date:	04/08/19 18:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	100	0408_02	04/08/19 15:02	1	
CAL	200	0408_03	04/08/19 15:34	1	
CAL	500	0408_04	04/08/19 16:05	1	
CAL	1000	0408_05	04/08/19 16:37	1	
CAL	2000	0408_06	04/08/19 17:09	1	
CAL	5000	0408_07	04/08/19 17:40	1	
CAL	10000	0408_08	04/08/19 18:12	1	
CAL	20000	0408_09	04/08/19 18:44	1	
SSCV	SVGC120408190408_11470535	0408_11	04/08/19 19:47	1	
ICV	SVGC12042919A0429A_02470535	0429A_02	04/29/19 04:05	1	
BLANK	R3406638-1	0429A_04	04/29/19 05:08	1	WG1273119
LCS	R3406638-2	0429A_08	04/29/19 07:15	1	WG1273119
LCSD	R3406638-3	0429A_09	04/29/19 07:47	1	WG1273119
WW-20190424-002-DAY 1	L1092757-01	0429A_14	04/29/19 10:34	1	WG1273119

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1092757	**Analytical Method:**	8141
Instrument ID:	SVGC12	**Calibration Start Date:**	04/30/19 13:32
		Calibration End Date:	05/03/19 13:57

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	100	0430B_02	04/30/19 13:32	1	
CAL	200	0430B_03	04/30/19 14:04	1	
CAL	500	0430B_04	04/30/19 14:35	1	
CAL	1000	0430B_05	04/30/19 15:07	1	
CAL	5000	0430B_07	04/30/19 16:10	1	
CAL	10000	0430B_08	04/30/19 16:42	1	
CAL	20000	0430B_09	04/30/19 17:14	1	
SSCV	SVGC12043019B0430B_11471226	0430B_11	04/30/19 18:17	1	
CAL	2000	0503A_02	05/03/19 13:57	1	
ICV	SVGC12050319A0503A_02471226	0503A_02	05/03/19 13:57	1	
OS	L1092679-03	0503A_17	05/03/19 21:52	1	WG1273119
MS	R3408468-1	0503A_18	05/03/19 22:23	1	WG1273119
MSD	R3408468-2	0503A_19	05/03/19 22:55	1	WG1273119

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3406638-1

Lab Sample ID:	R3406638-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0429A_04	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:26
Analytical Batch:	WG1273119	**Analysis Date/Time:**	04/29/19 05:08
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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.:
R3406638-2

Lab Sample ID:	R3406638-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0429A_08	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:26
Analytical Batch:	WG1273119	**Analysis Date/Time:**	04/29/19 07:15
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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	27	0.00316	8.92
Chlorpyrifos	1	20.17	0.00326	2
Demeton,-O and -S	1	16.71	0.00127	6.92
Diazinon	1	15.83	0.00337	.297
Malathion	1	22.10	0.00314	5

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3406638-3

Lab Sample ID:	R3406638-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0429A_09	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:26
Analytical Batch:	WG1273119	**Analysis Date/Time:**	04/29/19 07:47
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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	27	0.00332	5.79
Chlorpyrifos	1	20.17	0.00325	14.7
Demeton,-O and -S	1	16.71	0.00119	3.37
Diazinon	1	15.83	0.00339	6.23
Malathion	1	22.10	0.00319	.156

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3408468-1

Lab Sample ID:	R3408468-1	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/22/19 09:09
Lab File ID:	0503A_18	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:30
Analytical Batch:	WG1273119	**Analysis Date/Time:**	05/03/19 22:23
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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	0.00319	7.16
	2	27.41	0.00343	
Chlorpyrifos	1	20.17	0.00325	8.03
	2	22.59	0.00300	
Demeton,-O and -S	1	16.71	0.00123	18.3
	2	16.76	0.00148	
Diazinon	1	15.83	0.00343	1.36
	2	18.10	0.00348	
Malathion	1	22.10	0.00329	9.84
	2	22.43	0.00299	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.: R3408468-2

Lab Sample ID:	R3408468-2	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/22/19 09:09
Lab File ID:	0503A_19	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:30
Analytical Batch:	WG1273119	**Analysis Date/Time:**	05/03/19 22:55
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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	27	0.00338	5.55
	2	27.41	0.00357	
Chlorpyrifos	1	20.16	0.00324	7.14
	2	22.59	0.00301	
Demeton,-O and -S	1	16.71	0.00137	21.4
	2	16.76	0.00169	
Diazinon	1	15.83	0.00365	10.2
	2	18.10	0.00330	
Malathion	1	22.10	0.00332	2.53
	2	22.43	0.00340	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406638-1

Lab Sample ID:	R3406638-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0429A_04	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:26
Analytical Batch:	WG1273119	**Analysis Date/Time:**	04/29/19 05:08
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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		0.000348	0.0010	0.00100
Chlorpyrifos	2921-88-2	0	U		0.000245	0.0010	0.00100
Demeton,-O and -S	8065-48-3	0	U		0.000341	0.0020	0.00200
Diazinon	333-41-5	0	U		0.000377	0.0010	0.00100
Malathion	121-75-5	0	U		0.000173	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406638-2

Lab Sample ID:	R3406638-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0429A_08	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:26
Analytical Batch:	WG1273119	**Analysis Date/Time:**	04/29/19 07:15
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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	27	0.00316		0.000348	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.17	0.00326		0.000245	0.0010	0.00100
Demeton,-O and -S	8065-48-3	16.71	0.00127		0.000341	0.0020	0.00200
Diazinon	333-41-5	15.83	0.00337		0.000377	0.0010	0.00100
Malathion	121-75-5	22.10	0.00314		0.000173	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3406638-3

Lab Sample ID:	R3406638-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0429A_09	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:26
Analytical Batch:	WG1273119	**Analysis Date/Time:**	04/29/19 07:47
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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	27	0.00332		0.000348	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.17	0.00325		0.000245	0.0010	0.00100
Demeton,-O and -S	8065-48-3	16.71	0.00119		0.000341	0.0020	0.00200
Diazinon	333-41-5	15.83	0.00339		0.000377	0.0010	0.00100
Malathion	121-75-5	22.10	0.00319		0.000173	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3408468-1

Lab Sample ID:	R3408468-1	**SDG:**	L1092757
Client Sample ID:	MS	**Collected Date/Time:**	04/22/19 09:09
Lab File ID:	0503A_18	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:30
Analytical Batch:	WG1273119	**Analysis Date/Time:**	05/03/19 22:23
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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	0.00319		0.000348	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.17	0.00325		0.000245	0.0010	0.00100
Demeton,-O and -S	8065-48-3	16.71	0.00123		0.000341	0.0020	0.00200
Diazinon	333-41-5	15.83	0.00343		0.000377	0.0010	0.00100
Malathion	121-75-5	22.10	0.00329		0.000173	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3408468-2

Lab Sample ID:	R3408468-2	**SDG:**	L1092757
Client Sample ID:	MSD	**Collected Date/Time:**	04/22/19 09:09
Lab File ID:	0503A_19	**Received Date/Time:**	04/25/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	04/28/19 17:30
Analytical Batch:	WG1273119	**Analysis Date/Time:**	05/03/19 22:55
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	8141	**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	27	0.00338		0.000348	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.16	0.00324		0.000245	0.0010	0.00100
Demeton,-O and -S	8065-48-3	16.71	0.00137		0.000341	0.0020	0.00200
Diazinon	333-41-5	15.83	0.00365		0.000377	0.0010	0.00100
Malathion	121-75-5	22.10	0.00332		0.000173	0.0010	0.00100

8151 Chlorinated Acid Herbicides (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: 8151 **SDG:** L1092757
Matrix: GW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 *% Rec.*	TOT Out
WW-20190424-002 -DAY 1	L1092757-03	SVGC11	0501_55	102	0
BLANK	R3407361-1	SVGC11	0501_50	93.2	0
LCS	R3407361-2	SVGC11	0501_51	96.0	0
LCSD	R3407361-3	SVGC11	0501_52	103	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

L1092757-03

SAMPLE NO.:
R3407361-2
R3407361-3

LCS Sample / File ID:	R3407361-2 / 0501_51	**SDG:**	L1092757
LCSD Sample / File ID:	R3407361-3 / 0501_52	**Analytical Batch:**	WG1273615
Instrument ID:	SVGC11	**Dilution Factor:**	1
Analytical Method:	8151	**Matrix:**	GW

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	0.00473	0.00448	94.6	89.6	50.0 - 125	5.43	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.:
R3407361-1

Lab Sample ID:	R3407361-1	**SDG:**	L1092757
Lab File ID:	0501_50	**Preparation Date/Time:**	04/30/19 10:48
Instrument ID:	SVGC11	**Analysis Date/Time:**	05/01/19 19:21
Analytical Batch:	WG1273615	**Dilution Factor:**	1
Analytical Method:	8151	**Matrix:**	GW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3407361-2	SVGC11	0501_51	05/01/19 19:35
LCSD	R3407361-3	SVGC11	0501_52	05/01/19 19:49
WW-20190424-002-DAY 1	L1092757-03	SVGC11	0501_55	05/01/19 20:31

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-03	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0501_55	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	SVGC11	**Preparation Date/Time:**	04/30/19 10:50
Analytical Batch:	WG1273615	**Analysis Date/Time:**	05/01/19 20:31
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	GW	**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	0.00200	0.00200

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	04/23/19 14:32
Analytical Method:	8151		

Analyte	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	5.12	5.12	5.12	5.12	5.12	5.12
2,4,5-TP (SILVEX)	6.09	6.09	6.08	6.08	6.08	6.08
File ID:	0423A_04	0423A_05	0423A_06	0423A_03	0423A_07	0423A_08

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	04/23/19 14:32
Analytical Method:	8151		

Analyte	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	5.32	5.31	5.31	5.31	5.31	5.31
2,4,5-TP (SILVEX)	6.29	6.29	6.29	6.29	6.29	6.28
File ID:	0423A_04	0423A_05	0423A_06	0423A_03	0423A_07	0423A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	04/23/19 14:32
Analytical Method:	8151		

Analyte	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	3818000	4036000	3729000	3637000	3441000	3533000
2,4,5-TP (SILVEX)	26610000	28850000	27740000	28710000	23750000	26190000
File ID:	0423A_04	0423A_05	0423A_06	0423A_03	0423A_07	0423A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	04/23/19 14:32
Analytical Method:	8151		

Analyte	RRF. Avg	%RSD	COD
2,4-DICHLOROPHENYL ACETIC ACID	3699244	5.75	
2,4,5-TP (SILVEX)	26974930	7.08	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	04/23/19 14:32
Analytical Method:	8151		

Analyte	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	2851000	4131000	4329000	4399000	4606000	4996000
2,4,5-TP (SILVEX)	25430000	28490000	29800000	30080000	28200000	30060000
File ID:	0423A_04	0423A_05	0423A_06	0423A_03	0423A_07	0423A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	04/23/19 14:32
Analytical Method:	8151		

Analyte	RRF. Avg	%RSD	COD
2,4-DICHLOROPHENYL ACETIC ACID	4218705	17.35	
2,4,5-TP (SILVEX)	28674070	6.23	

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	04/23/19 14:32
Lab File ID:	0423A_10	**Analysis date/time:**	04/23/19 15:02
Analytical Method:	8151	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.1829	91.40	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	04/23/19 14:32
Lab File ID:	0423A_10	**Analysis date/time:**	04/23/19 15:02
Analytical Method:	8151	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2112	106	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	04/23/19 14:32
Lab File ID:	0501_41	**Analysis date/time:**	05/01/19 17:15
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2888	144	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2477	124	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	04/23/19 14:32
Lab File ID:	0501_41	**Analysis date/time:**	05/01/19 17:15
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2876	144	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2528	126	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	04/23/19 14:32
Lab File ID:	0501_60	**Analysis date/time:**	05/01/19 21:38
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2977	149	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2448	122	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/23/19 13:19
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	04/23/19 14:32
Lab File ID:	0501_60	**Analysis date/time:**	05/01/19 21:38
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2745	137	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2491	125	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1092757	**Analytical Method:**	8151
Instrument ID:	SVGC11	**Calibration Start Date:**	04/23/19 13:19
		Calibration End Date:	04/23/19 14:32

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	200	0423A_03	04/23/19 13:19	1	
CAL	20	0423A_04	04/23/19 13:34	1	
CAL	50	0423A_05	04/23/19 13:49	1	
CAL	100	0423A_06	04/23/19 14:03	1	
CAL	500	0423A_07	04/23/19 14:18	1	
CAL	1000	0423A_08	04/23/19 14:32	1	
SSCV	SVGC11042319A0423A_10470350	0423A_10	04/23/19 15:02	1	
CCV	SVGC110501190501_41470350	0501_41	05/01/19 17:15	1	
BLANK	R3407361-1	0501_50	05/01/19 19:21	1	WG1273615
LCS	R3407361-2	0501_51	05/01/19 19:35	1	WG1273615
LCSD	R3407361-3	0501_52	05/01/19 19:49	1	WG1273615
WW-20190424-002-DAY 1	L1092757-03	0501_55	05/01/19 20:31	1	WG1273615
CCV	SVGC110501190501_60470350	0501_60	05/01/19 21:38	1	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3407361-1

Lab Sample ID:	R3407361-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0501_50	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	04/30/19 10:48
Analytical Batch:	WG1273615	**Analysis Date/Time:**	05/01/19 19:21
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	GW	**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.:
R3407361-2

Lab Sample ID:	R3407361-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0501_51	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	04/30/19 10:48
Analytical Batch:	WG1273615	**Analysis Date/Time:**	05/01/19 19:35
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	GW	**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	6.08	0.00473	2.74

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3407361-3

Lab Sample ID:	R3407361-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0501_52	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	04/30/19 10:48
Analytical Batch:	WG1273615	**Analysis Date/Time:**	05/01/19 19:49
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	GW	**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	6.08	0.00448	.425

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407361-1

Lab Sample ID:	R3407361-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0501_50	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	04/30/19 10:48
Analytical Batch:	WG1273615	**Analysis Date/Time:**	05/01/19 19:21
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	GW	**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.:
R3407361-2

Lab Sample ID:	R3407361-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0501_51	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	04/30/19 10:48
Analytical Batch:	WG1273615	**Analysis Date/Time:**	05/01/19 19:35
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	GW	**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	6.08	0.00473		0.000845	0.0020	0.00200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407361-3

Lab Sample ID:	R3407361-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0501_52	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	04/30/19 10:48
Analytical Batch:	WG1273615	**Analysis Date/Time:**	05/01/19 19:49
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	GW	**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	6.08	0.00448		0.000845	0.0020	0.00200

Calc. Calculated Results

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	NONE	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	NONE	**Preparation Date/Time:**	05/01/19 09:05
Analytical Batch:	WG1274236	**Analysis Date/Time:**	05/01/19 09:05
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	0.486		0.0317	0.100	0.100

EPA 608.3 Pesticides (GC)

2A-OR SURROGATE RECOVERY

Analytical Method: EPA 608.3 **SDG:** L1092757
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
WW-20190424-002 -DAY 1	L1092757-01	SVGC24	0501_20	77.9	69.1	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:** L1092757
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	DMC-2	TOT Out
				% Rec.	*% Rec.*	
BLANK	R3407083-3	SVGC24	0501_09	78.2	58.5	0
LCS	R3407083-1	SVGC24	0501_07	78.8	56.8	0
LCSD	R3407083-2	SVGC24	0501_08	73.6	58.5	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Decachlorobiphenyl	10.0 - 144
DMC-2	Tetrachloro-m-xylene	10.0 - 135

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

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1092757-01

SAMPLE NO.:
R3407083-1
R3407083-2

LCS Sample / File ID:	R3407083-1 / 0501_07	**SDG:**	L1092757
LCSD Sample / File ID:	R3407083-2 / 0501_08	**Analytical Batch:**	WG1273505
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*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Aldrin	0.00100	0.000723	0.000721	72.3	72.1	42.0 - 140	0.277	35
Alpha BHC	0.00100	0.000782	0.000800	78.2	80.0	37.0 - 140	2.28	36
Beta BHC	0.00100	0.000750	0.000763	75.0	76.3	17.0 - 147	1.72	44
Gamma BHC	0.00100	0.000759	0.000782	75.9	78.2	32.0 - 140	2.99	39
4,4-DDD	0.00100	0.000820	0.000815	82.0	81.5	31.0 - 141	0.612	39
4,4-DDE	0.00100	0.000806	0.000792	80.6	79.2	30.0 - 145	1.75	35
4,4-DDT	0.00100	0.000921	0.000926	92.1	92.6	25.0 - 160	0.541	42
Dieldrin	0.00100	0.000794	0.000797	79.4	79.7	36.0 - 146	0.377	49
Endosulfan I	0.00100	0.000797	0.000799	79.7	79.9	45.0 - 153	0.251	28
Endosulfan II	0.00100	0.000768	0.000771	76.8	77.1	1.00 - 202	0.390	53
Endosulfan sulfate	0.00100	0.000795	0.000802	79.5	80.2	26.0 - 144	0.877	38
Endrin	0.00100	0.000850	0.000851	85.0	85.1	30.0 - 147	0.118	48
Heptachlor	0.00100	0.000807	0.000802	80.7	80.2	34.0 - 140	0.622	43
Heptachlor epoxide	0.00100	0.000807	0.000810	80.7	81.0	37.0 - 142	0.371	26
Methoxychlor	0.00100	0.00101	0.00102	101	102	44.0 - 160	0.985	22

*: 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.:
R3407083-3

Lab Sample ID:	R3407083-3	**SDG:**	L1092757
Lab File ID:	0501_09	**Preparation Date/Time:**	04/30/19 20:37
Instrument ID:	SVGC24	**Analysis Date/Time:**	05/01/19 09:18
Analytical Batch:	WG1273505	**Dilution Factor:**	1
Analytical Method:	EPA 608.3	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3407083-1	SVGC24	0501_07	05/01/19 08:48
LCSD	R3407083-2	SVGC24	0501_08	05/01/19 09:03
WW-20190424-002-DAY 1	L1092757-01	SVGC24	0501_20	05/01/19 12:00

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1092757	**Analytical Method:**	EPA 608.3
Instrument ID:	SVGC24	**Calibration Start Date:**	04/16/19 11:05
Std File:	AVG	**Calibration End Date:**	04/16/19 16:44
		Std Analysis Date:	AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE	
		Response	*RT*
STANDARD		500406100	2.69
UPPER LIMIT		979060800	
LOWER LIMIT		244765200	
LCS R3407083-1 WG1273505 1x	0501_07	574576800	2.46
LCSD R3407083-2 WG1273505 1x	0501_08	596512800	2.46
BLANK R3407083-3 WG1273505 1x	0501_09	582503800	2.46
L1092757-01 WG1273505 1x	0501_20	599178500	2.46

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-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0501_20	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	SVGC24	**Preparation Date/Time:**	04/30/19 20:38
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 12:00
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:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	04/16/19 16:44
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	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70		
ALPHA BHC	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41		
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	5.52	5.52	5.52	5.52		
DIELDRIN	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17		
DECACHLOROBIPHENYL	10.14	10.14	10.14	10.14	10.14	10.14	10.14	10.14		
HEPTACHLOR		5.19	5.19	5.19	5.19	5.19	5.19	5.19		
HEPTACHLOR EPOXIDE		6.24	6.24	6.24	6.24	6.24	6.24	6.24		
ENDOSULFAN I		6.80	6.80	6.80	6.80	6.80	6.80	6.80		
4,4-DDE		7.01	7.01	7.01	7.01	7.01	7.01	7.01		
ENDRIN		7.54	7.54	7.54	7.54	7.54	7.54	7.54		
4,4-DDD		7.73	7.73	7.74	7.73	7.73	7.73	7.74		
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		8.82	8.82	8.82	8.82	8.82	8.82	8.82		
TOXAPHENE									7.10	7.10
CHLORDANE										
File ID:	0416_13	0416_14	0416_15	0416_16	0416_17	0416_18	0416_19	0416_20	0416_24	0416_25

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	04/16/19 16:44
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					5	5	5	5	5	5
File ID:	0416_26	0416_27	0416_28	0416_29	0416_31	0416_32	0416_33	0416_34	0416_35	0416_36

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	04/16/19 16:44
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	4.42	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	7.19	7.19	7.19	7.19	7.19		
HEPTACHLOR		5.22	5.22	5.22	5.22	5.22	5.22	5.22		
HEPTACHLOR EPOXIDE		6.30	6.30	6.31	6.31	6.31	6.31	6.31		
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		
DECACHLOROBIPHENYL		9.89	9.89	9.89	9.89	9.89	9.89	9.89		
TOXAPHENE									7.10	7
CHLORDANE										
File ID:	0416_13	0416_14	0416_15	0416_16	0416_17	0416_18	0416_19	0416_20	0416_24	0416_25

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	04/16/19 16:44
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										
HEPTACHLOR										
HEPTACHLOR EPOXIDE										
ENDOSULFAN I										
4,4-DDE										
ENDRIN										
4,4-DDD										
ENDOSULFAN II										
4,4-DDT										
ENDOSULFAN SULFATE										
METHOXYCHLOR										
DECACHLOROBIPHENYL										
TOXAPHENE	7	7	7	7						
CHLORDANE					5	5	5	5	5	5
File ID:	0416_26	0416_27	0416_28	0416_29	0416_31	0416_32	0416_33	0416_34	0416_35	0416_36

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	04/16/19 16:44
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	1.3270	1.1860	1.1860	1.1330	1.0980	1.06	1.0480	1.0580
ALPHA BHC	1.6080	1.4560	1.6150	1.6060	1.5960	1.6020	1.6210	1.6720
GAMMA BHC	1.5790	1.37	1.4860	1.4550	1.4340	1.43	1.4460	1.4870
BETA BHC	0.8410	0.7180	0.7030	0.6560	0.6120	0.5930	0.5890	0.5940
ALDRIN	1.5110	1.3750	1.4590	1.4320	1.3950	1.3790	1.3680	1.3770
DIELDRIN	1.4750	1.3130	1.3770	1.3460	1.3130	1.2760	1.2550	1.2530
DECACHLOROBIPHENYL	1.2010	1.0690	1.07	0.9950	0.9480	0.9080	0.9030	0.9210
HEPTACHLOR		1.31	1.33	1.2950	1.25	1.2350	1.2240	1.2330
HEPTACHLOR EPOXIDE		1.3210	1.37	1.3310	1.2720	1.2220	1.1840	1.1820
ENDOSULFAN I		1.2750	1.3030	1.2470	1.1990	1.1460	1.1180	1.1020
4,4-DDE		1.2080	1.3110	1.2980	1.2790	1.2660	1.2680	1.2860
ENDRIN		1.17	1.2080	1.1760	1.1350	1.1060	1.0850	1.0820
4,4-DDD		0.9710	1.0350	1.0070	0.9820	0.9880	0.9840	1.0010
ENDOSULFAN II		1.1980	1.2110	1.1460	1.1030	1.0610	1.0330	1.0310
4,4-DDT		0.7050	0.7560	0.7480	0.7570	0.7890	0.83	0.8840
ENDOSULFAN SULFATE		1.1850	1.1940	1.1250	1.0840	1.0380	1.0150	1.0180
METHOXYCHLOR		0.3880	0.3770	0.36	0.3520	0.3560	0.3640	0.3760
TOXAPHENE								
CHLORDANE								
File ID:	0416_13	0416_14	0416_15	0416_16	0416_17	0416_18	0416_19	0416_20

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	04/16/19 16:44
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	1.3360	0.7470	0.6720	0.7120	0.6280	0.64		
CHLORDANE							1.2160	1.0550
File ID:	0416_24	0416_25	0416_26	0416_27	0416_28	0416_29	0416_31	0416_32

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	04/16/19 16:44
Analytical Method:	EPA 608.3		

Analyte	RRF: 100C	RRF: 200C	RRF: 500C	RRF: 1KC	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					1.137131	8.31	
ALPHA BHC					1.596841	3.87	
GAMMA BHC					1.460772	4.13	
BETA BHC					0.66335	13.24	
ALDRIN					1.411954	3.63	
DIELDRIN					1.325941	5.58	
DECACHLOROBIPHENYL					1.00191	10.47	
HEPTACHLOR					1.268062	3.36	
HEPTACHLOR EPOXIDE					1.26877	5.91	
ENDOSULFAN I					1.198528	6.61	
4,4-DDE					1.273461	2.6	
ENDRIN					1.137431	4.29	
4,4-DDD					0.995361	2.13	
ENDOSULFAN II					1.111755	6.76	
4,4-DDT					0.78128	7.6	
ENDOSULFAN SULFATE					1.094279	6.94	
METHOXYCHLOR					0.367696	3.5	
TOXAPHENE					0.789202	34.42	0.999
CHLORDANE	0.9340	0.9060	0.8680	0.8770	0.975966	13.93	
File ID:	0416_33	0416_34	0416_35	0416_36			

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	04/16/19 16:44
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	1.41	1.2450	1.20	1.1510	1.1150	1.0750	1.0630	1.0580
ALPHA BHC	1.66	1.4980	1.5980	1.6060	1.6220	1.6230	1.6380	1.66
GAMMA BHC	1.55	1.38	1.4560	1.4450	1.4440	1.4350	1.4470	1.4690
BETA BHC	0.8540	0.7450	0.7250	0.6690	0.6260	0.5940	0.5870	0.5860
ALDRIN	1.5880	1.4230	1.4240	1.3990	1.3920	1.3740	1.3680	1.3640
DIELDRIN	1.6260	1.3420	1.3350	1.3140	1.2970	1.2720	1.2550	1.2430
HEPTACHLOR		1.3870	1.3390	1.3040	1.2840	1.2610	1.26	1.2560
HEPTACHLOR EPOXIDE		1.39	1.34	1.2810	1.2360	1.1960	1.1720	1.1480
ENDOSULFAN I		1.2960	1.2650	1.2180	1.1820	1.1360	1.1090	1.09
4,4-DDE		1.1890	1.2360	1.2190	1.2350	1.2380	1.2510	1.2520
ENDRIN		1.2260	1.2310	1.1990	1.1820	1.1520	1.1460	1.1260
4,4-DDD		0.99	1.0480	0.9970	1.0270	0.9880	1.0060	1.0080
ENDOSULFAN II		1.2480	1.29	1.2050	1.2020	1.1160	1.10	1.1170
4,4-DDT		0.6610	0.7190	0.7420	0.7850	0.8360	0.9340	0.9980
ENDOSULFAN SULFATE		1.4150	1.3870	1.32	1.2630	1.2110	1.1830	1.1690
METHOXYCHLOR		0.3870	0.4150	0.4140	0.4210	0.4340	0.4540	0.4740
DECACHLOROBIPHENYL		1.5070	1.4430	1.3190	1.24	1.1650	1.1360	1.1350
TOXAPHENE								
CHLORDANE								
File ID:	0416_13	0416_14	0416_15	0416_16	0416_17	0416_18	0416_19	0416_20

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	04/16/19 16:44
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								
HEPTACHLOR								
HEPTACHLOR EPOXIDE								
ENDOSULFAN I								
4,4-DDE								
ENDRIN								
4,4-DDD								
ENDOSULFAN II								
4,4-DDT								
ENDOSULFAN SULFATE								
METHOXYCHLOR								
DECACHLOROBIPHENYL								
TOXAPHENE	1.3310	0.8690	0.6930	0.6480	0.6560	0.6730		
CHLORDANE							1.0180	0.9660
File ID:	0416_24	0416_25	0416_26	0416_27	0416_28	0416_29	0416_31	0416_32

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	04/16/19 16:44
Analytical Method:	EPA 608.3		

Analyte	RRF: 100C	RRF: 200C	RRF: 500C	RRF: 1KC	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					1.164649	10.28	
ALPHA BHC					1.613134	3.22	
GAMMA BHC					1.453301	3.24	
BETA BHC					0.67351	14.21	
ALDRIN					1.416559	5.17	
DIELDRIN					1.335555	9.19	
HEPTACHLOR					1.298588	3.77	
HEPTACHLOR EPOXIDE					1.251801	7.16	
ENDOSULFAN I					1.185212	6.63	
4,4-DDE					1.231633	1.77	
ENDRIN					1.180194	3.46	
4,4-DDD					1.009081	2.14	
ENDOSULFAN II					1.182345	6.2	
4,4-DDT					0.810738	14.87	
ENDOSULFAN SULFATE					1.278108	7.7	
METHOXYCHLOR					0.428427	6.72	
DECACHLOROBIPHENYL					1.277825	11.77	
TOXAPHENE					0.811751	32.92	0.999
CHLORDANE	0.9060	0.8750	0.8640	0.8650	0.91578	6.9	
File ID:	0416_33	0416_34	0416_35	0416_36			

7B-OR

PESTICIDE BREAKDOWN

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24	**Calibration (end) date/time:**	04/16/19 16:44
Lab File ID:	0501_02	**Analysis date/time:**	05/01/19 07:35
Analytical Method:	EPA 608.3		

Analyte	Column 2 Response	Column 2 %Breakdown
ENDRIN ALDEHYDE	520495	
ENDRIN KETONE	2153301	
ENDRIN	175550000	1.52
4,4-DDE	1070971	
4,4-DDD	627278	
4,4-DDT	285769000	0.5940

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	04/16/19 16:44
Lab File ID:	0416_22-1	**Analysis date/time:**	04/16/19 13:18
Analytical Method:	EPA 608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.05	0.04967	99.30	80 - 120
4,4-DDE	0.05	0.04903	98.10	80 - 120
4,4-DDT	0.05	0.05066	101	80 - 120
ALDRIN	0.05	0.04780	95.60	80 - 120
ALPHA BHC	0.05	0.05077	102	80 - 120
BETA BHC	0.05	0.04684	93.70	80 - 120
CHLORPYRIFOS	0.05	0.04369	87.40	80 - 120
DECACHLOROBIPHENYL	0.05	0.04711	94.20	10 - 144
DIELDRIN	0.05	0.04786	95.70	80 - 120
ENDOSULFAN I	0.05	0.04717	94.30	80 - 120
ENDOSULFAN II	0.05	0.04792	95.80	80 - 120
ENDOSULFAN SULFATE	0.05	0.04484	89.70	80 - 120
ENDRIN	0.05	0.04794	95.90	80 - 120
GAMMA BHC	0.05	0.04860	97.20	80 - 120
HEPTACHLOR	0.05	0.04826	96.50	80 - 120
HEPTACHLOR EPOXIDE	0.05	0.04782	95.60	80 - 120
HEXACHLOROBENZENE	0.05	0.04630	92.60	80 - 120
METHOXYCHLOR	0.05	0.05162	103	80 - 120
TETRACHLORO-M-XYLENE	0.05	0.04677	93.50	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	04/16/19 16:44
Lab File ID:	0416_22-1	**Analysis date/time:**	04/16/19 13:18
Analytical Method:	EPA 608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.05	0.05005	100	80 - 120
4,4-DDE	0.05	0.05029	101	80 - 120
4,4-DDT	0.05	0.05201	104	80 - 120
ALDRIN	0.05	0.04779	95.60	80 - 120
ALPHA BHC	0.05	0.05074	101	80 - 120
BETA BHC	0.05	0.04631	92.60	80 - 120
CHLORPYRIFOS	0.05	0.05334	107	80 - 120
DECACHLOROBIPHENYL	0.05	0.04738	94.80	10 - 144
DIELDRIN	0.05	0.04740	94.80	80 - 120
ENDOSULFAN I	0.05	0.04726	94.50	80 - 120
ENDOSULFAN II	0.05	0.04800	96	80 - 120
ENDOSULFAN SULFATE	0.05	0.04494	89.90	80 - 120
ENDRIN	0.05	0.04844	96.90	80 - 120
GAMMA BHC	0.05	0.04926	98.50	80 - 120
HEPTACHLOR	0.05	0.04838	96.80	80 - 120
HEPTACHLOR EPOXIDE	0.05	0.04778	95.60	80 - 120
HEXACHLOROBENZENE	0.05	0.04595	91.90	80 - 120
METHOXYCHLOR	0.05	0.05080	102	80 - 120
TETRACHLORO-M-XYLENE	0.05	0.04636	92.70	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	04/16/19 16:44
Lab File ID:	0501_03-1	**Analysis date/time:**	05/01/19 07:49
Analytical Method:	EPA 608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.02	0.01860	93	75 - 125
4,4-DDE	0.02	0.02086	104	75 - 125
4,4-DDT	0.02	0.02349	117	75 - 125
ALDRIN	0.02	0.01934	96.70	75 - 125
ALPHA BHC	0.02	0.01918	95.90	69 - 125
BETA BHC	0.02	0.01790	89.50	75 - 125
CHLORPYRIFOS	0.02	0.02028	101	75 - 125
DECACHLOROBIPHENYL	0.02	0.02387	119	70 - 130
DIELDRIN	0.02	0.01914	95.70	48 - 125
ENDOSULFAN I	0.02	0.01943	97.20	75 - 125
ENDOSULFAN II	0.02	0.01931	96.60	75 - 125
ENDOSULFAN SULFATE	0.02	0.01927	96.30	70 - 125
ENDRIN	0.02	0.02078	104	5 - 125
GAMMA BHC	0.02	0.01890	94.50	75 - 125
HEPTACHLOR	0.02	0.01994	99.70	75 - 125
HEPTACHLOR EPOXIDE	0.02	0.01984	99.20	75 - 125
HEXACHLOROBENZENE	0.02	0.01960	98	75 - 125
METHOXYCHLOR	0.02	0.02439	122	75 - 125
TETRACHLORO-M-XYLENE	0.02	0.01982	99.10	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	04/16/19 16:44
Lab File ID:	0501_03-1	**Analysis date/time:**	05/01/19 07:49
Analytical Method:	EPA 608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.02	0.01901	95.10	75 - 125
4,4-DDE	0.02	0.01902	95.10	75 - 125
4,4-DDT	0.02	0.02442	122	75 - 125
ALDRIN	0.02	0.01855	92.80	75 - 125
ALPHA BHC	0.02	0.01875	93.80	69 - 125
BETA BHC	0.02	0.01794	89.70	75 - 125
CHLORPYRIFOS	0.02	0.02277	114	75 - 125
DECACHLOROBIPHENYL	0.02	0.02352	118	70 - 130
DIELDRIN	0.02	0.01865	93.30	48 - 125
ENDOSULFAN I	0.02	0.01931	96.60	75 - 125
ENDOSULFAN II	0.02	0.01905	95.30	75 - 125
ENDOSULFAN SULFATE	0.02	0.01854	92.70	70 - 125
ENDRIN	0.02	0.02037	102	5 - 125
GAMMA BHC	0.02	0.01893	94.70	75 - 125
HEPTACHLOR	0.02	0.01998	99.90	75 - 125
HEPTACHLOR EPOXIDE	0.02	0.01795	89.80	75 - 125
HEXACHLOROBENZENE	0.02	0.01866	93.30	75 - 125
METHOXYCHLOR	0.02	0.02567	128	75 - 125
TETRACHLORO-M-XYLENE	0.02	0.01846	92.30	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	04/16/19 16:44
Lab File ID:	0501_04-1	**Analysis date/time:**	05/01/19 08:04
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
TOXAPHENE	0.10	0.1035	104	68 - 134

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	04/16/19 16:44
Lab File ID:	0501_04-1	**Analysis date/time:**	05/01/19 08:04
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
TOXAPHENE	0.10	0.1100	110	68 - 134

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 1	**Calibration (end) date/time:**	04/16/19 16:44
Lab File ID:	0501_05-1	**Analysis date/time:**	05/01/19 08:19
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
CHLORDANE	0.10	0.09121	91.20	75 - 125

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/16/19 11:05
Instrument ID:	SVGC24 - 2	**Calibration (end) date/time:**	04/16/19 16:44
Lab File ID:	0501_05-1	**Analysis date/time:**	05/01/19 08:19
Analytical Method:	EPA 608.3	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
CHLORDANE	0.10	0.09554	95.50	75 - 125

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1092757	**Analytical Method:**	EPA 608.3
Instrument ID:	SVGC24	**Calibration Start Date:**	04/16/19 11:05
		Calibration End Date:	04/16/19 16:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.4	0416_13	04/16/19 11:05	1	
CAL	1	0416_14	04/16/19 11:20	1	
CAL	5	0416_15	04/16/19 11:34	1	
CAL	10	0416_16	04/16/19 11:49	1	
CAL	20	0416_17	04/16/19 12:04	1	
CAL	50	0416_18	04/16/19 12:19	1	
CAL	100	0416_19	04/16/19 12:33	1	
CAL	200	0416_20	04/16/19 12:48	1	
SSCV	SVGC240416190416_22-1469844	0416_22-1	04/16/19 13:18	20	
CAL	10T	0416_24	04/16/19 13:47	1	
CAL	50T	0416_25	04/16/19 14:02	1	
CAL	100T	0416_26	04/16/19 14:17	1	
CAL	200T	0416_27	04/16/19 14:31	1	
CAL	500T	0416_28	04/16/19 14:46	1	
CAL	1KT	0416_29	04/16/19 15:01	1	
CAL	10C	0416_31	04/16/19 15:31	1	
CAL	50C	0416_32	04/16/19 15:45	1	
CAL	100C	0416_33	04/16/19 16:00	1	
CAL	200C	0416_34	04/16/19 16:15	1	
CAL	500C	0416_35	04/16/19 16:29	1	
CAL	1KC	0416_36	04/16/19 16:44	1	
BREAKDOWN	SVGC240501190501_02469844	0501_02	05/01/19 07:35	10	
ICV	SVGC240501190501_03-1469844	0501_03-1	05/01/19 07:49	10	
CCV	SVGC240501190501_04-1469844	0501_04-1	05/01/19 08:04	10	
CCV	SVGC240501190501_05-1469844	0501_05-1	05/01/19 08:19	10	
LCS	R3407083-1	0501_07	05/01/19 08:48	1	WG1273505
LCSD	R3407083-2	0501_08	05/01/19 09:03	1	WG1273505
BLANK	R3407083-3	0501_09	05/01/19 09:18	1	WG1273505
WW-20190424-002-DAY 1	L1092757-01	0501_20	05/01/19 12:00	1	WG1273505

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3407083-3

Lab Sample ID:	R3407083-3	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0501_09	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 09:18
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	**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.:
R3407083-1

Lab Sample ID:	R3407083-1	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0501_07	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 08:48
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	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Aldrin	1	5.52	0.000723	3.59
Alpha BHC	1	4.41	0.000782	.706
Beta BHC	1	4.87	0.000750	.333
Gamma BHC	1	4.77	0.000759	.787
4,4-DDD	1	7.73	0.000820	3.41
4,4-DDE	1	7.01	0.000806	1.88
4,4-DDT	1	8.08	0.000921	10.4
Dieldrin	1	7.17	0.000794	2.04
Endosulfan I	1	6.80	0.000797	.44
Endosulfan II	1	7.80	0.000768	.972
Endosulfan sulfate	1	8.48	0.000795	.126
Endrin	1	7.54	0.000850	.768
Heptachlor	1	5.19	0.000807	1.11
Heptachlor epoxide	1	6.24	0.000807	3.08
Methoxychlor	1	8.82	0.00101	4.98

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3407083-2

Lab Sample ID:	R3407083-2	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0501_08	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 09:03
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	0.000721	3.46
Alpha BHC	1	4.41	0.000800	1.01
Beta BHC	1	4.87	0.000763	.262
Gamma BHC	1	4.77	0.000782	.448
4,4-DDD	1	7.73	0.000815	.616
4,4-DDE	1	7.01	0.000792	1.65
4,4-DDT	1	8.08	0.000926	10.3
Dieldrin	1	7.17	0.000797	1.77
Endosulfan I	1	6.80	0.000799	.439
Endosulfan II	1	7.80	0.000771	1.1
Endosulfan sulfate	1	8.48	0.000802	1.07
Endrin	1	7.54	0.000851	.177
Heptachlor	1	5.19	0.000802	1.36
Heptachlor epoxide	1	6.24	0.000810	4.35
Methoxychlor	1	8.82	0.00102	8.21

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407083-3

Lab Sample ID:	R3407083-3	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0501_09	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 09:18
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	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Aldrin	309-00-2	0	U		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	0	U		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	0	U		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	0	U		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	0	U		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	0	U		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	0	U		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	0	U		0.00000751	0.000050	0.0000500
Endosulfan I	959-98-8	0	U		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	0	U		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	0	U		0.0000196	0.000050	0.0000500
Endrin	72-20-8	0	U		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	0	U		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	0	U		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	0	U		0.0000193	0.000050	0.0000500
Chlordane	57-74-9	0	U		0.0000977	0.0005	0.000500
Toxaphene	8001-35-2	0	U		0.000168	0.0005	0.000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407083-1

Lab Sample ID:	R3407083-1	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0501_07	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 08:48
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*
Aldrin	309-00-2	5.52	0.000723		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.41	0.000782		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.87	0.000750		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.77	0.000759		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	7.73	0.000820		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	7.01	0.000806		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	8.08	0.000921		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	7.17	0.000794		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.80	0.000797		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	7.80	0.000768		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	8.48	0.000795		0.0000196	0.000050	0.0000500
Endrin	72-20-8	7.54	0.000850		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.19	0.000807		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	6.24	0.000807		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	8.82	0.00101		0.0000193	0.000050	0.0000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407083-2

Lab Sample ID:	R3407083-2	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0501_08	**Received Date/Time:**	_____
Instrument ID:	SVGC24	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 09:03
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	0.000721		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.41	0.000800		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.87	0.000763		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.77	0.000782		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	7.73	0.000815		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	7.01	0.000792		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	8.08	0.000926		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	7.17	0.000797		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.80	0.000799		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	7.80	0.000771		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	8.48	0.000802		0.0000196	0.000050	0.0000500
Endrin	72-20-8	7.54	0.000851		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.19	0.000802		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	6.24	0.000810		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	8.82	0.00102		0.0000193	0.000050	0.0000500

EPA-608.3 Polychlorinated Biphenyls (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA-608.3 **SDG:** L1092757
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
WW-20190424-002 -DAY 1	L1092757-01	SVGC20	0501_10	77.6	72.5	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:** L1092757
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	DMC-2	TOT Out
				% Rec.	*% Rec.*	
BLANK	R3407002-1	SVGC20	0501_05	78.9	55.6	0
LCS	R3407002-2	SVGC20	0501_06	85.5	61.7	0
LCSD	R3407002-3	SVGC20	0501_07	88.5	62.2	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.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1092757-01

SAMPLE NO.:
R3407002-2
R3407002-3

LCS Sample / File ID:	R3407002-2 / 0501_06	**SDG:**	L1092757
LCSD Sample / File ID:	R3407002-3 / 0501_07	**Analytical Batch:**	WG1273505
Instrument ID:	SVGC20	**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*	*mg/l*	*%*	*%*	*%*	*%*	*%*
PCB 1260	0.00250	0.00201	0.00215	80.4	86.0	8.00 - 140	6.73	38
PCB 1016	0.00250	0.00203	0.00219	81.2	87.6	50.0 - 140	7.58	36

*: 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.:
R3407002-1

Lab Sample ID:	R3407002-1	**SDG:**	L1092757
Lab File ID:	0501_05	**Preparation Date/Time:**	04/30/19 20:37
Instrument ID:	SVGC20	**Analysis Date/Time:**	05/01/19 09:50
Analytical Batch:	WG1273505	**Dilution Factor:**	1
Analytical Method:	EPA-608.3	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3407002-2	SVGC20	0501_06	05/01/19 10:04
LCSD	R3407002-3	SVGC20	0501_07	05/01/19 10:18
WW-20190424-002-DAY 1	L1092757-01	SVGC20	0501_10	05/01/19 11:00

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1092757	**Analytical Method:**	EPA-608.3
Instrument ID:	SVGC20	**Calibration Start Date:**	04/13/19 12:33
Std File:	AVG	**Calibration End Date:**	04/13/19 15:34
		Std Analysis Date:	AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE	
		Response	*RT*
STANDARD		16327779	1.91
UPPER LIMIT		32298200	
LOWER LIMIT		8074550	
BLANK R3407002-1 WG1273505 1x	0501_05	32790300	1.57
LCS R3407002-2 WG1273505 1x	0501_06	33741610	1.57
LCSD R3407002-3 WG1273505 1x	0501_07	32896840	1.57
L1092757-01 WG1273505 1x	0501_10	33736920	1.56

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-20190424-002-DAY 1

Lab Sample ID:	L1092757-01	**SDG:**	L1092757
Client Sample ID:	WW-20190424-002-DAY 1	**Collected Date/Time:**	04/24/19 12:28
Lab File ID:	0501_10	**Received Date/Time:**	04/26/19 08:00
Instrument ID:	SVGC20	**Preparation Date/Time:**	04/30/19 20:38
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 11:00
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:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 1	**Calibration (end) date/time:**	04/13/19 15:34
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	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*			
AROCLOR 1016(1)	*3.28*	*3.28*	*3.28*	*3.28*	*3.28*	*3.28*	*3.28*			
AROCLOR 1016(2)	*3.66*	*3.65*	*3.66*	*3.65*	*3.66*	*3.66*	*3.66*			
AROCLOR 1016(3)	*4.04*	*4.04*	*4.04*	*4.04*	*4.04*	*4.04*	*4.04*			
AROCLOR 1016(4)	*4.52*	*4.52*	*4.52*	*4.52*	*4.52*	*4.52*	*4.52*			
AROCLOR 1016(5)	*4.98*	*4.98*	*4.98*	*4.98*	*4.98*	*4.98*	*4.98*			
AROCLOR 1260(1)	*5.45*	*5.45*	*5.45*	*5.45*	*5.45*	*5.45*				
AROCLOR 1260(2)	*5.85*	*5.85*	*5.85*	*5.85*	*5.85*	*5.85*	*5.85*			
AROCLOR 1260(3)	*6.12*	*6.12*	*6.12*	*6.12*	*6.12*	*6.12*	*6.12*			
AROCLOR 1260(4)	*6.30*	*6.30*	*6.30*	*6.30*	*6.30*	*6.30*	*6.30*			
AROCLOR 1260(5)	*6.55*	*6.55*	*6.55*	*6.55*	*6.55*	*6.55*	*6.55*			
DECACHLOROBIPHENYL	*7.34*	*7.35*	*7.35*	*7.35*	*7.35*	*7.35*	*7.35*			
AROCLOR 1221(1)								*2.22*		
AROCLOR 1221(2)								*3.08*		
AROCLOR 1221(3)								*3.22*		
AROCLOR 1221(4)								*3.28*		
AROCLOR 1221(5)								*4.04*		
AROCLOR 1232(1)									*3.28*	
AROCLOR 1232(2)									*3.65*	
AROCLOR 1232(3)									*4.23*	
AROCLOR 1232(4)									*4.52*	
AROCLOR 1232(5)									*5*	
AROCLOR 1242(1)										*3.28*
AROCLOR 1242(2)										*3.65*
AROCLOR 1242(3)										*4.04*
AROCLOR 1242(4)										*4.15*
AROCLOR 1242(5)										*4.52*
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:	0413A_09	0413A_08	0413A_07	0413A_06	0413A_05	0413A_04	0413A_03	0413A_10	0413A_11	0413A_12

6D-OR

RETENTION TIME INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 1	**Calibration (end) date/time:**	04/13/19 15:34
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)	*4.04*			
AROCLOR 1248(2)	*4.61*			
AROCLOR 1248(3)	*5*			
AROCLOR 1248(4)	*5.31*			
AROCLOR 1248(5)	*5.72*			
AROCLOR 1254(1)		*4.32*		
AROCLOR 1254(2)		*4.98*		
AROCLOR 1254(3)		*5.31*		
AROCLOR 1254(4)		*5.72*		
AROCLOR 1254(5)		*5.85*		
AROCLOR 1262(1)			*5.45*	
AROCLOR 1262(2)			*5.91*	
AROCLOR 1262(3)			*6.12*	
AROCLOR 1262(4)			*6.30*	
AROCLOR 1262(5)			*6.95*	
AROCLOR 1268(1)				*6.12*
AROCLOR 1268(2)				*6.54*
AROCLOR 1268(3)				*6.74*
AROCLOR 1268(4)				*6.95*
AROCLOR 1268(5)				*7.17*
File ID:	0413A_13	0413A_14	0413A_15	0413A_16

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 2	**Calibration (end) date/time:**	04/13/19 15:34
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	*2.91*	*2.91*	*2.91*	*2.91*	*2.91*	*2.91*	*2.91*			
AROCLOR 1016(1)	*3.33*	*3.33*	*3.33*	*3.33*	*3.33*	*3.33*	*3.33*			
AROCLOR 1016(2)	*3.67*	*3.67*	*3.67*	*3.67*	*3.67*	*3.67*	*3.67*			
AROCLOR 1016(3)	*4.08*	*4.08*	*4.08*	*4.08*	*4.08*	*4.08*	*4.08*			
AROCLOR 1016(4)	*4.52*	*4.52*	*4.52*	*4.52*	*4.52*	*4.52*	*4.52*			
AROCLOR 1016(5)	*5.02*	*5.01*	*5.01*	*5.01*	*5.01*	*5.01*	*5.01*			
AROCLOR 1260(1)	*5.43*	*5.43*	*5.43*	*5.43*	*5.43*	*5.43*	*5.43*			
AROCLOR 1260(2)	*5.83*	*5.83*	*5.83*	*5.83*	*5.83*	*5.82*	*5.82*			
AROCLOR 1260(3)	*6.08*	*6.08*	*6.08*	*6.08*	*6.08*	*6.08*	*6.08*			
AROCLOR 1260(4)	*6.30*	*6.30*	*6.30*	*6.29*	*6.29*	*6.29*	*6.29*			
AROCLOR 1260(5)	*6.49*	*6.49*	*6.49*	*6.49*	*6.49*	*6.49*	*6.49*			
DECACHLOROBIPHENYL	*7.24*	*7.24*	*7.24*	*7.24*	*7.24*	*7.24*	*7.24*			
AROCLOR 1221(1)								*2.31*		
AROCLOR 1221(2)								*3.14*		
AROCLOR 1221(3)								*3.29*		
AROCLOR 1221(4)								*3.33*		
AROCLOR 1221(5)								*4.08*		
AROCLOR 1232(1)									*3.33*	
AROCLOR 1232(2)									*3.67*	
AROCLOR 1232(3)									*4.36*	
AROCLOR 1232(4)									*4.52*	
AROCLOR 1232(5)									*5.01*	
AROCLOR 1242(1)										*3.33*
AROCLOR 1242(2)										*3.67*
AROCLOR 1242(3)										*4.08*
AROCLOR 1242(4)										*4.19*
AROCLOR 1242(5)										*4.52*
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:	0413A_09	0413A_08	0413A_07	0413A_06	0413A_05	0413A_04	0413A_03	0413A_10	0413A_11	0413A_12

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 2	**Calibration (end) date/time:**	04/13/19 15:34
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)	*4.08*			
AROCLOR 1248(2)	*4.52*			
AROCLOR 1248(3)	*5.01*			
AROCLOR 1248(4)	*5.30*			
AROCLOR 1248(5)	*5.70*			
AROCLOR 1254(1)		*4.35*		
AROCLOR 1254(2)		*5.01*		
AROCLOR 1254(3)		*5.30*		
AROCLOR 1254(4)		*5.70*		
AROCLOR 1254(5)		*5.83*		
AROCLOR 1262(1)			*5.43*	
AROCLOR 1262(2)			*5.91*	
AROCLOR 1262(3)			*6.08*	
AROCLOR 1262(4)			*6.30*	
AROCLOR 1262(5)			*6.92*	
AROCLOR 1268(1)				*6.07*
AROCLOR 1268(2)				*6.51*
AROCLOR 1268(3)				*6.67*
AROCLOR 1268(4)				*6.92*
AROCLOR 1268(5)				*7.11*
File ID:	0413A_13	0413A_14	0413A_15	0413A_16

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 1	**Calibration (end) date/time:**	04/13/19 15:34
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	1.2970	1.2720	1.2150	1.2010	1.0960	1.0860	1.1010			
AROCLOR 1016(1)	0.03	0.0310	0.0290	0.0270	0.0240	0.0230	0.0220			
AROCLOR 1016(2)	0.0590	0.06	0.0540	0.0490	0.0430	0.0410	0.04			
AROCLOR 1016(3)	0.12	0.1150	0.1080	0.1030	0.0930	0.0920	0.0920			
AROCLOR 1016(4)	0.0470	0.0420	0.0370	0.0340	0.03	0.0290	0.0280			
AROCLOR 1016(5)	0.0330	0.0280	0.0260	0.0240	0.0210	0.02	0.0190			
AROCLOR 1260(1)	0.0830	0.0770	0.0720	0.0650	0.0580	0.0570				
AROCLOR 1260(2)	0.1340	0.12	0.1140	0.1050	0.0950	0.0950	0.0950			
AROCLOR 1260(3)	0.0830	0.0750	0.0710	0.0640	0.0580	0.0580	0.0580			
AROCLOR 1260(4)	0.1650	0.1510	0.1470	0.1370	0.13	0.1320	0.13			
AROCLOR 1260(5)	0.1280	0.1130	0.1080	0.0990	0.0920	0.0930	0.0910			
DECACHLOROBIPHENYL	1.2340	1.1550	1.1350	1.07	1.0740	1.1140	1.1270			
AROCLOR 1221(1)								0.01		
AROCLOR 1221(2)								0.0140		
AROCLOR 1221(3)								0.0090		
AROCLOR 1221(4)								0.0310		
AROCLOR 1221(5)								0.0060		
AROCLOR 1232(1)									0.0240	
AROCLOR 1232(2)									0.02	
AROCLOR 1232(3)									0.0130	
AROCLOR 1232(4)									0.0120	
AROCLOR 1232(5)									0.0180	
AROCLOR 1242(1)										0.0190
AROCLOR 1242(2)										0.0340
AROCLOR 1242(3)										0.07
AROCLOR 1242(4)										0.0310
AROCLOR 1242(5)										0.0240
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:	0413A_09	0413A_08	0413A_07	0413A_06	0413A_05	0413A_04	0413A_03	0413A_10	0413A_11	0413A_12

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 1	**Calibration (end) date/time:**	04/13/19 15:34
Analytical Method:	EPA-608.3		

Analyte	RRF: 1248	RRF: 1254	RRF: 1262	RRF: 1268	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					1.181103	7.41	
AROCLOR 1016(1)					0.026432	13.95	
AROCLOR 1016(2)					0.049445	17.27	1
AROCLOR 1016(3)					0.10332	11.08	
AROCLOR 1016(4)					0.035125	20.65	0.998
AROCLOR 1016(5)					0.024211	20.63	0.997
AROCLOR 1260(1)					0.068583	15.09	
AROCLOR 1260(2)					0.108383	13.99	
AROCLOR 1260(3)					0.066699	14.73	
AROCLOR 1260(4)					0.141723	9.28	
AROCLOR 1260(5)					0.103399	13.48	
DECACHLOROBIPHENYL					1.129727	4.91	
AROCLOR 1221(1)					0.009913		
AROCLOR 1221(2)					0.013564		
AROCLOR 1221(3)					0.008785		
AROCLOR 1221(4)					0.031267		
AROCLOR 1221(5)					0.005903		
AROCLOR 1232(1)					0.024467		
AROCLOR 1232(2)					0.019892		
AROCLOR 1232(3)					0.013284		
AROCLOR 1232(4)					0.012197		
AROCLOR 1232(5)					0.018171		
AROCLOR 1242(1)					0.018959		
AROCLOR 1242(2)					0.034356		
AROCLOR 1242(3)					0.070235		
AROCLOR 1242(4)					0.031312		
AROCLOR 1242(5)					0.023803		
AROCLOR 1248(1)	0.0430				0.043292		
AROCLOR 1248(2)	0.0420				0.041934		
AROCLOR 1248(3)	0.0710				0.070882		
AROCLOR 1248(4)	0.0260				0.026486		
AROCLOR 1248(5)	0.02				0.01953		
AROCLOR 1254(1)		0.0230			0.023079		
AROCLOR 1254(2)		0.0520			0.051806		
AROCLOR 1254(3)		0.0830			0.082954		
AROCLOR 1254(4)		0.0650			0.065167		
AROCLOR 1254(5)		0.08			0.080494		
AROCLOR 1262(1)			0.0440		0.044004		
AROCLOR 1262(2)			0.0720		0.072365		
AROCLOR 1262(3)			0.0680		0.067677		
AROCLOR 1262(4)			0.1370		0.136734		
AROCLOR 1262(5)			0.0520		0.052402		
AROCLOR 1268(1)				0.0390	0.038842		
AROCLOR 1268(2)				0.1640	0.164039		
AROCLOR 1268(3)				0.1330	0.132951		
AROCLOR 1268(4)				0.06	0.05986		
AROCLOR 1268(5)				0.4240	0.423502		
File ID:	0413A_13	0413A_14	0413A_15	0413A_16			

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 2	**Calibration (end) date/time:**	04/13/19 15:34
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	0.8540	0.8590	0.7990	0.8040	0.7890	0.7820	0.7940			
AROCLOR 1016(1)	0.0220	0.0240	0.0330	0.0320	0.0280	0.0270	0.0260			
AROCLOR 1016(2)	0.0310	0.0310	0.03	0.0280	0.0250	0.0250	0.0240			
AROCLOR 1016(3)	0.0550	0.0660	0.06	0.0590	0.0550	0.0520	0.0520			
AROCLOR 1016(4)	0.0260	0.0250	0.0230	0.0230	0.0220	0.0210	0.02			
AROCLOR 1016(5)	0.0280	0.0140	0.0130	0.0120	0.0110	0.0110	0.0110			
AROCLOR 1260(1)	0.0390	0.0390	0.0350	0.0360	0.0330	0.0320	0.0310			
AROCLOR 1260(2)	0.0760	0.0770	0.0650	0.07	0.0720	0.0710	0.07			
AROCLOR 1260(3)	0.05	0.0470	0.04	0.0430	0.0440	0.0430	0.0420			
AROCLOR 1260(4)	0.13	0.1280	0.1110	0.1180	0.1460	0.1450	0.1430			
AROCLOR 1260(5)	0.0640	0.0620	0.0520	0.0580	0.0610	0.0620	0.0610			
DECACHLOROBIPHENYL	1.3690	1.3820	1.1470	1.2730	1.2350	1.2110	1.2870			
AROCLOR 1221(1)								0.0060		
AROCLOR 1221(2)								0.0090		
AROCLOR 1221(3)								0.0060		
AROCLOR 1221(4)								0.0220		
AROCLOR 1221(5)								0.0030		
AROCLOR 1232(1)									0.0170	
AROCLOR 1232(2)									0.01	
AROCLOR 1232(3)									0.0070	
AROCLOR 1232(4)									0.0090	
AROCLOR 1232(5)									0.0070	
AROCLOR 1242(1)										0.0110
AROCLOR 1242(2)										0.02
AROCLOR 1242(3)										0.0430
AROCLOR 1242(4)										0.0190
AROCLOR 1242(5)										0.0180
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:	0413A_09	0413A_08	0413A_07	0413A_06	0413A_05	0413A_04	0413A_03	0413A_10	0413A_11	0413A_12

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 2	**Calibration (end) date/time:**	04/13/19 15:34
Analytical Method:	EPA-608.3		

Analyte	RRF: 1248	RRF: 1254	RRF: 1262	RRF: 1268	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					0.811484	3.9	
AROCLOR 1016(1)					0.027422	13.59	
AROCLOR 1016(2)					0.027675	11.03	
AROCLOR 1016(3)					0.05702	8.58	
AROCLOR 1016(4)					0.022949	9.22	
AROCLOR 1016(5)					0.014261	43.65	1
AROCLOR 1260(1)					0.035056	9.29	
AROCLOR 1260(2)					0.07148	5.41	
AROCLOR 1260(3)					0.04409	7.54	
AROCLOR 1260(4)					0.13154	10.55	
AROCLOR 1260(5)					0.06001	6.35	
DECACHLOROBIPHENYL					1.271955	6.61	
AROCLOR 1221(1)					0.005797		
AROCLOR 1221(2)					0.008541		
AROCLOR 1221(3)					0.005578		
AROCLOR 1221(4)					0.021832		
AROCLOR 1221(5)					0.003356		
AROCLOR 1232(1)					0.016894		
AROCLOR 1232(2)					0.010482		
AROCLOR 1232(3)					0.006687		
AROCLOR 1232(4)					0.008655		
AROCLOR 1232(5)					0.00715		
AROCLOR 1242(1)					0.011188		
AROCLOR 1242(2)					0.020434		
AROCLOR 1242(3)					0.042844		
AROCLOR 1242(4)					0.019183		
AROCLOR 1242(5)					0.017656		
AROCLOR 1248(1)	0.0250				0.025196		
AROCLOR 1248(2)	0.0270				0.02717		
AROCLOR 1248(3)	0.03				0.030243		
AROCLOR 1248(4)	0.0140				0.014206		
AROCLOR 1248(5)	0.0130				0.012508		
AROCLOR 1254(1)		0.0150			0.015153		
AROCLOR 1254(2)		0.0290			0.028667		
AROCLOR 1254(3)		0.0460			0.045904		
AROCLOR 1254(4)		0.0260			0.026267		
AROCLOR 1254(5)		0.0470			0.047355		
AROCLOR 1262(1)			0.0250		0.025068		
AROCLOR 1262(2)			0.0510		0.050562		
AROCLOR 1262(3)			0.0480		0.047916		
AROCLOR 1262(4)			0.1240		0.124089		
AROCLOR 1262(5)			0.0570		0.056549		
AROCLOR 1268(1)				0.0290	0.028575		
AROCLOR 1268(2)				0.1430	0.142919		
AROCLOR 1268(3)				0.1370	0.137478		
AROCLOR 1268(4)				0.06	0.060043		
AROCLOR 1268(5)				0.4690	0.469246		
File ID:	0413A_13	0413A_14	0413A_15	0413A_16			

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 1	**Calibration (end) date/time:**	04/13/19 15:34
Lab File ID:	0413A_18-1	**Analysis date/time:**	04/13/19 16:02
Analytical Method:	EPA-608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.09161	91.60	70 - 130
PCB 1016	0.10	0.09801	98	80 - 120
PCB 1260	0.10	0.09432	94.30	80 - 120
TETRACHLORO-M-XYLENE	0.10	0.09081	90.80	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 2	**Calibration (end) date/time:**	04/13/19 15:34
Lab File ID:	0413A_18-1	**Analysis date/time:**	04/13/19 16:02
Analytical Method:	EPA-608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.08679	86.80	70 - 130
PCB 1016	0.10	0.09862	98.60	80 - 120
PCB 1260	0.10	0.08935	89.30	80 - 120
TETRACHLORO-M-XYLENE	0.10	0.09506	95.10	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 1	**Calibration (end) date/time:**	04/13/19 15:34
Lab File ID:	0501_03-1	**Analysis date/time:**	05/01/19 09:22
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.1008	101	70 - 130
PCB 1016	0.10	0.1044	104	75 - 125
PCB 1260	0.10	0.09666	96.70	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.09636	96.40	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1092757	**Calibration (begin) date/time:**	04/13/19 12:33
Instrument ID:	SVGC20 - 2	**Calibration (end) date/time:**	04/13/19 15:34
Lab File ID:	0501_03-1	**Analysis date/time:**	05/01/19 09:22
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.08541	85.40	70 - 130
PCB 1016	0.10	0.1032	103	75 - 125
PCB 1260	0.10	0.08562	85.60	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.1023	102	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1092757	**Analytical Method:**	EPA-608.3
Instrument ID:	SVGC20	**Calibration Start Date:**	04/13/19 12:33
		Calibration End Date:	04/13/19 15:34

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	500	0413A_03	04/13/19 12:33	1	
CAL	200	0413A_04	04/13/19 12:47	1	
CAL	100	0413A_05	04/13/19 13:01	1	
CAL	50	0413A_06	04/13/19 13:15	1	
CAL	20	0413A_07	04/13/19 13:29	1	
CAL	10	0413A_08	04/13/19 13:43	1	
CAL	5	0413A_09	04/13/19 13:57	1	
CAL	1221	0413A_10	04/13/19 14:11	1	
CAL	1232	0413A_11	04/13/19 14:25	1	
CAL	1242	0413A_12	04/13/19 14:38	1	
CAL	1248	0413A_13	04/13/19 14:52	1	
CAL	1254	0413A_14	04/13/19 15:06	1	
CAL	1262	0413A_15	04/13/19 15:20	1	
CAL	1268	0413A_16	04/13/19 15:34	1	
SSCV	SVGC20041319A0413A_18-1469665	0413A_18-1	04/13/19 16:02	1	
ICV	SVGC200501190501_03-1469665	0501_03-1	05/01/19 09:22	1	
BLANK	R3407002-1	0501_05	05/01/19 09:50	1	WG1273505
LCS	R3407002-2	0501_06	05/01/19 10:04	1	WG1273505
LCSD	R3407002-3	0501_07	05/01/19 10:18	1	WG1273505
WW-20190424-002-DAY 1	L1092757-01	0501_10	05/01/19 11:00	1	WG1273505

10B-OR

MULTI COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3407002-1

Lab Sample ID:	R3407002-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0501_05	**Received Date/Time:**	_____
Instrument ID:	SVGC20	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 09:50
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*	**%D**
PCB 1260	1	0	*	U	0
PCB 1016	1	0	*	U	0
PCB 1221	1	0	*	U	0
PCB 1232	1	0	*	U	0
PCB 1242	1	0	*	U	0
PCB 1248	1	0	*	U	0
PCB 1254	1	0	*	U	0
Total PCBs	1	0	*	U	0

*: Primary, reported result.

10B-OR

MULTI COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3407002-2

Lab Sample ID:	R3407002-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0501_06	**Received Date/Time:**	_____
Instrument ID:	SVGC20	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 10:04
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*	**%D**
PCB 1260	1	6.0440	*	0.00201	14.5
PCB 1016	1	4.0860	*	0.00203	5.95

*: Primary, reported result.

10B-OR

MULTI COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3407002-3

Lab Sample ID:	R3407002-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0501_07	**Received Date/Time:**	_____
Instrument ID:	SVGC20	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 10:18
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	**Column**	**RT**		**Concentration** *mg/l*	**%D**
PCB 1260	1	6.0440	*	0.00215	14.1
PCB 1016	1	4.0860	*	0.00219	3.58

*: Primary, reported result.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407002-1

Lab Sample ID:	R3407002-1	**SDG:**	L1092757
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0501_05	**Received Date/Time:**	_____
Instrument ID:	SVGC20	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 09:50
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.:
R3407002-2

Lab Sample ID:	R3407002-2	**SDG:**	L1092757
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0501_06	**Received Date/Time:**	_____
Instrument ID:	SVGC20	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 10:04
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	6.0440	0.00201		0.0000146	0.0005	0.000500
PCB 1016	12674-11-2	4.0860	0.00203		0.0000198	0.0005	0.000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3407002-3

Lab Sample ID:	R3407002-3	**SDG:**	L1092757
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0501_07	**Received Date/Time:**	_____
Instrument ID:	SVGC20	**Preparation Date/Time:**	04/30/19 20:37
Analytical Batch:	WG1273505	**Analysis Date/Time:**	05/01/19 10:18
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	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
PCB 1260	11096-82-5	6.0440	0.00215		0.0000146	0.0005	0.000500
PCB 1016	12674-11-2	4.0860	0.00219		0.0000198	0.0005	0.000500

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

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MQL	Method Quantitation Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.

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

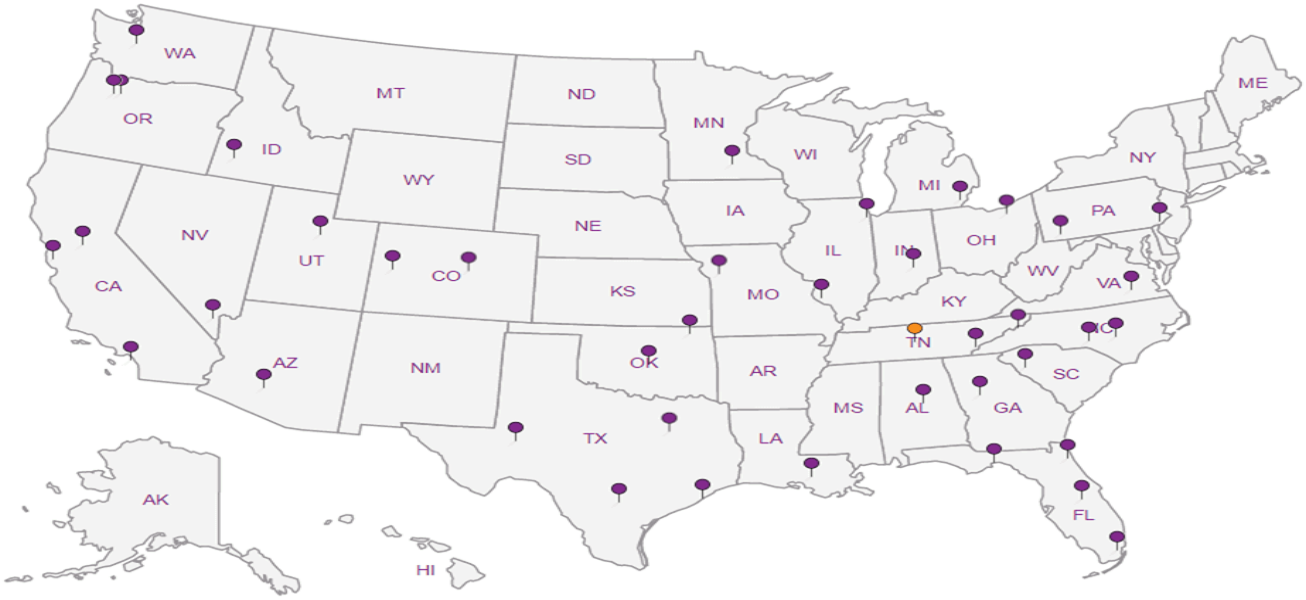
Third Party Federal Accreditations

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): Stephanie Healey

Site/Facility ID # 002 Outfall

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)
X Two Day ___ 10 Day (Rad Only)
X 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# 1092757

A154

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	~~***CBOD*** 500mlHDPE NoPres~~ 1,2 Dibromoethane 8011 no pres	***CR6, TDS*** 250mlHDPE-NoPres	8081/8082 100ml Amb-NoPres	8141 100ml Amb NoPres	8270AP9 100ml Amb NoPres	COD, NH3, PT, TKN 250mlHDPE-H2SO4	~~COLIFORT Microbiological~~ 2,4,5-TP (SVOC) 8151 no pres	Chloride, pH, CHLORR 250mlHDPE-NoPres	Ethylene Glycol 40mlAmb-NoPres	~~Extra Volume 1L Amb-No Pres~~ TSS no pres	Remarks	Sample # (lab only)
~~GW~~						36	X	X	X	X	X	X	X	X	X	X		
WW-20190424-002-DAY	Composite	WW	—	4/24/19	1228		X	X	X	X	X	X	X	X	X	X		01/03
~~WW-20190424-002-DAY~~	~~Grab~~	~~WW~~	—	~~4/24/19~~	~~1228~~													

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL/ MeoH TBR	
	4/25/19	16:10		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: A3 BF°C 3.0±0=3.0	Bottles Received: 32
	4/25/19	10:00			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-26-19	Time: 8:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Cardno - Newark, DE

121 Continental Drive Suite 308
Newark, DE 19713

Billing Information:
Accounts Payable
121 Continental Drive Suite 308
Newark, DE 19713

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): Stephanie Healy

Site/Facility ID # 002

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)
X Two Day ___ 10 Day (Rad Only)
X 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# 1092757

Table #

Acctnum: CARDNONDE

Template: T149278

Prelogin: P704877

TSR: 034 - Craig Cothron

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Extra Volume 40mlAmb-NoPres Oil & Grease 1664	Metals 250mlHDPE-HNO3	OCHEX 1L-Cl-Add HCl Dioxins/Furans No pres 8290/1613	PFAS/PFOS- Sub 1L-HDPE-NoPres	SV8151 1L Amb No Pres 8260	SV8290 1L Amb-NoPres	Sulfide 125mlAmb-S-NaOH+ZnAc	TOC 250mlAmb-HCl	TSS 1L HDPE NoPres	Total Cyanide 250mlHDPEAmb-NaOH	Remarks	Sample # (lab only)
		GW				36	X	X	X	X	X	X	X	X	X	X		
WW-20190424-002-DAY1	Grab	WW	—	4/24/19	1228		X									X		02
WW-20190424-002-DAY1	Comp	WW	—	4/24/19	1228			X	X	X	X		X	X				01/03

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

RADSCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	2/25/19	16:10	4/25/19 16:10		
Relinquished by : (Signature)	Date: 4/25/19	Time: 20:00	Received by: (Signature)	Temp: A3 °C 3.0±0=3.0 °C Bottles Received: 32	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-26-19 Time: 8:00	Hold: Conditions NCF / OK

Andy Vann

From: Craig Cothron
Sent: Wednesday, May 08, 2019 2:03 PM
To: Darren Reeder; Login; Volatiles; Sample Storage
Subject: Uninvoice rush relog

Importance: High

L1092757-01 / L1093332-01 / L1093435-01

Darren – please uninvoice ASAP

Login – Please log the 3 extra VOC vials as V624.1AP9. 3 additional samples A, B, and C. The L1092757 goes out of hold today. Log this as next day and others as 2 day rush.

Craig Cothron
Technical Service Representative

Pace Analytical National Center for Testing & Innovation
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9664 | Cell 615.406.9719

ccothron@pacenational.com | pacenational.com