

July 13, 2012

Ms. Marni Solheim Senior Regulatory & Facilities Specialist Waste 2 Resources Program Washington State Department of Ecology 4601 North Monroe Street Spokane, Washington 99205-1295

RE: WAC 173-351-990 APPENDIX III SAMPLE RESULTS AND SAMPLING AND ANALYSIS PLAN REVIEW

Dear Ms. Solheim:

Schwyn Environmental Services, LLC (Schwyn), on behalf of the City of Walla Walla (City) prepared this letter to present the WAC 173-351-990 Appendix III groundwater sample results from the first scheduled Sudbury Road Landfill Remedial Investigation (RI) sampling event. Based on the results no changes are proposed to the groundwater sampling and analytical procedures described in the Sudbury Road Landfill RI Work Plan<sup>i</sup> and the Sampling and Analysis Plan (SAP).

The SAP describes the following procedures:

Groundwater samples will be collected and analyzed for Appendix III assessment monitoring parameters from the downgradient compliance groundwater monitoring wells (MW-11, MW-14, and MW-15) during the first groundwater monitoring event of the RI. Upon receipt of the analytical results, the RI groundwater sampling program will be reviewed to assure that any significant Appendix III analytical detections exceeding MTCA screening levels are included during the remaining sampling events. If no new constituents are reported then the RI monitoring would revert to the groundwater sample plan as proposed in the SAP.

# PROCEDURES AND RESULTS

Groundwater samples were collected during June 4 through 8, 2012, and analyzed in accordance with the SAP. A replicate sample was collected from MW-15 (identified as sample D15) and additional water samples were collected from MW-11 for laboratory quality control (MS/MSD samples). A summary of the analytical results are provided on Table 1. The laboratory analytical reports are attached. The results of each analytical group are summarized below.

- Volatile Organic Constituents (VOCs): Nine VOCs were detected; however, each of the detected parameters is monitored for on a regular basis and the concentrations were consistent with historical levels. No new or unusual parameters were reported.
- Dissolved and Total Metals: Dissolved barium, chromium, and vanadium, and total nickel were reported at concentrations above the method reporting level (MRL). All reported metals concentrations except for vanadium were below the respective screening levels. All reported concentrations were consistent with historical levels, and the vanadium concentrations are also consistent with upgradient levels.
- Organochlorine pesticides: No organochlorine pesticides were reported at or above the respective constituent MRL.
- Polychlorinated Biphenyls (PCBs): No PCBs (Aroclors) were reported at or above the MRL.
- Organophosphorus Compounds: No organophosphorus compounds were reported at or above the respective constituent MRL.
- Chlorinated Herbicides: No chlorinated herbicides were reported at or above the respective constituent MRL.
- Semi-Volatile Organic Constituents (SVOCs): No SVOCs were reported at or above the respective constituent MRL.
- Total Cyanide: Total cyanide was not reported at or above the MRL.
- Total Sulfide: Total sulfide was not reported at or above the MRL.

Based on the Appendix III results, no changes to the groundwater monitoring plan detailed in the SAP are proposed. If you have any questions please call Frank Nicholson at (509) 524-4510.

Sincerely,

SCHWYN ENVIRONMENTAL SERVICES, LLC

Craig C. Schwyn, L.Hg.

Principal

Cc: Frank Nicholson, City Engineering

Craig C. Xchwyn

Bill Joyce, Joyce, Ziker, Parkinson, PLLC

<sup>&</sup>lt;sup>i</sup> Schwyn Environmental Services, LLC. *Data Summary and Remedial Investigation Work Plan, Sudbury Road Landfill, Walla Walla, Washington.* December 282011.

# TABLE 1 APPENDIX III DETECTED PARAMETER SUMMARY City of Walla Walla Sudbury Road Landfill

				Monitor	ing Well		Screening
Analyses	Method	Units	MW-11	MW-14b	MW-15	D15	Level(a)
Detected VOCs							
Dichlorodifluoromethane	USEPA Method 8260B	μg/L	0.56	0.56	2.8	2.9	1600
	USEPA Method 8260B	μg/L	ND	ND	0.67	0.65	0.029
Vinyl Chloride	USEPA Method 8206B SIM	μg/L	ND	ND	0.78	0.79	0.029
Trichlorofluoromethane	USEPA Method 8260B	μg/L	ND	ND	0.63	0.65	2400
1,1-Dichloroethane	USEPA Method 8260B	μg/L	ND	ND	3.1	3	1600
cis-1,2-Dichloroethene	USEPA Method 8260B	μg/L	ND	ND	9.1	9	16
Chloroform	USEPA Method 8260B	μg/L	1.1	1.1	ND	ND	80
Trichloroethene (TCE)	USEPA Method 8260B	μg/L	ND	ND	1.6	1.6	0.54
Tetrachloroethene (PCE)	USEPA Method 8260B	μg/L	1.2	0.67	5	4.8	5
Toluene	USEPA Method 8260B	μg/L	ND	ND	0.59	ND	640
Dissolved Metals							
Antimony	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Arsenic	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Barium	USEPA Method 6010C	μg/L	66.9	71.9	180	179	3200
Beryllium	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Cadmium	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Chromium	USEPA Method 6010C	μg/L	ND	2.4	ND	3	100
Cobalt	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Copper	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Lead	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Selenium	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Silver	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Thallium	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Tin	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Vanadium	USEPA Method 6010C	μg/L	14.2	14.8	14.8	15.3	1.1
Zinc	USEPA Method 6010C	μg/L	ND	ND	ND	ND	
Total Metals							
Total Nickel	USEPA Method 6010C	μg/L	8.4	9.2	8.5	8	NR
Total Mercury	USEPA Method 7470A	μg/L	ND	ND	ND	ND	
Other Analytes							
Organochlorine pesticides	USEPA Method 8081A	μg/L	ND	ND	ND	ND	
PCBs (Aroclors)	USEPA Method 8082	μg/L	ND	ND	ND	ND	
O-managharan		μg/L		.,-			
Organophosphorus compounds	USEPA Method 8141A		ND	ND	ND	ND	
Chlorinated herbicides	USEPA Method 8151A	μg/L	ND	ND	ND	ND	
SVOCs	USEPA Method 8270D	μg/L	ND	ND	ND	ND	
Total cyanide	SM 4500 S2 D	mg/L	ND	ND	ND	ND	
Total sulfide	EPA 335.4	mg/L	ND	ND	ND	ND	

# Notes:

D15 = Duplicate sample collected from MW-15

(a) Screening level based on MTCA Chapter 173-340 WAC Method B standard groundwater cleanup levels using CLARC formula values based on 10-6 cancer risk or Hazard Index of 1.

# Columbia Analytical Services 1317 South 13th, Kelso, WA 98626

(360) 577-7222 FAX (360) 636-1068

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Project Name: City of Walla Walla Sudbu	City of Walla Walla Sudbury Road Landfill Remedial Investigation							THE PARTY OF THE P
Project Manager: Craig Schwyn		1111 - 150/(		1.	[Ca, od			
Company: Schwyn Environmental Services 4621 South Custer Court State on Washington 90773	· · · · · · · · · · · · · · · · · · ·	ntainers	ecial list)	y <b>82</b> 60 SI	Na (Meth  Alkalinity       4500)  	rameters		
509-448-3187: Craig@schwynenviro.com	nviro.cam	er of Co	(8260B s	Chloride	od 300.0) g, Mn, K,	idix III Pa elow)	ISD	
Sample I.D. Date	Time LABID Matrix	Num	voc	Viny	(Met Fe, M 6010 (Met [Ami [TO(		MS/N	REMARKS
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7	250	0	×	×				
Kinman 6/6/12	300	<i>e.</i>	X,	X				
MW-19 6/6/12	4:30	10	×	×	×	糊		
MW-15 6/6/2	6:00	24	义	×	X	×		
0) 15	6:00	24	×	X.	X	X		SECURIOR CONTRACTOR CO
MW-146 6/7/	9.00	24	X	X	X	×		
MW-18 6/7/12	9:30	~	Ŕ	X	X			
ma-23 6/7/12	10:00	10	X	K	7			
MW-24 6/7/12	10:30	ίÖ	X	X	X			
IRNAROUND REQUIREMENTS ' '	REPORT REQUIREMENTS	MODE COMPANY	Appendix III Para	[[Para	meters			
24 hr 5 day	I. Routine Report: Results, Method Blank,		Dissolved Metals:		Sb, As, Ba, Be, Cd, Cr, Co, (	u, Ph. S	še, Ag. 170 s	Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb. Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C
Provide FAX Preliminary Results	N. II. Report Dup., MS, MSD as required	Orga	nochlo	Organochlorine pe	Organochlorine pesticides by USEPA Method 8081A	8081A	#/UA	
Requested Report Date:	III. Data Validation Report (includes	РСВ	s (Aroc	lors) by	PCBs (Aroclors) by USEPA Method 8082		•	
P.O. #	raw data) IV. CLP Deliverable Report	Chlo	mopho. rinated	sphoru   herbic	Organophosphorus compounds by USEPA Method 8141A Chlorinated herbicides by USEPA Method 8151A	TA	4 A	
Bill to: Schwyn Environmental Services	X V. EDD	SVO Tota	Cs US Leyani	SVOCs USEPA M Total cyanide by Sl	SVOCs USEPA Method 8270D  Total cyanide by SM 4500 S2 D and Total sulfide by EPA 335.4	i <b>de</b> by E	PA 33:	
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# Columbia Analytical Services 1317 South 13th. Kelso, WA 98626

(360) 577-7222 FAX (360) 636-1068

Date/Time:	Firm: Schwyn Environmental Services	Printed Name: CUSchuy	Signature: Cranton	RELINQUISHED BY:	Bill to: Schwyn Environmental Services	TY() #	Requested Report Date:	X Standard (21 days)  Provide FAX Preliminary Results	24 hr 48 hr 5 day	PNADALICAGANIA	the state of the s	Current Harris Anna Anna Anna Anna Anna Anna Anna Ann	COLUMN TO THE PROPERTY OF T			THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNE	SECTION OF THE PROPERTY OF T	2/4/9 21-mm	Sample 1.1). Date	Company: Schwyn Environmental Services 4621 South Custer Court Spokane, Washington 99223 509-448-3187: Craig@schwynenviro.com Sampler's Signature:	Project Manager: Craig Schwyn	Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation
Date/Time:	Firm:	Printed Name:	Signature:	RECEIVED BY:		IV. CLP Deliverable Report		Surrogate, as required  N. H. Report Dipp., MS, MSD as required	I. Routine Report: Results, Method Blank,	DEBUDTA BEOLIE MANAGEMENT OF THE CONTROL OF THE CON	THE PROPERTY OF THE PROPERTY O		THE PROPERTY OF THE PROPERTY O	THE PROPERTY OF THE PROPERTY O			-	1:30 W	Time (187.1	es enviro.com		ury Road Landfill Remedial Investigation
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Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services

300.0

Analysis Method:

Service Request: K1205520 City of Walla Walla Sudbury Road Landfill Remedial Project: **Date Collected:** 06/06/12 - 06/07/12

Sample Matrix: Water Date Received: 06/8/12

Units: mg/L Basis: NA

#### Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	129	4.0	20	06/08/12 13:12	
MW-15	K1205520-007	126	4.0	20	06/08/12 13:26	
D15	K1205520-008	127	4.0	20	06/08/12 13:39	
MW-14b	K1205520-009	143	4.0	20	06/08/12 13:53	
MW-18	K1205520-010	157	4.0	20	06/08/12 14:06	
MW-23	K1205520-011	124	4.0	20	06/08/12 14:20	
MW-24	K1205520-012	101	4.0	20	06/08/12 14:33	
MW-17	K1205520-013	141	4.0	20	06/08/12 14:47	
Method Blank	K1205520-MB1	ND U	0.20	1	06/08/12 07:09	

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QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205520

Project

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected:

06/06/12

Sample Matrix:

Water

Date Received: Date Analyzed: 06/08/12 06/08/12

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name:

MW-19

Units:

mg/L

Lab Code:

K1205520-006

Basis: NA

Duplicate

Sample

K1205520-

Analysis Method

300.0

Sample Result

006DUP10

RPD RPD Limit

Analyte Name Chloride

MRL 4.0

129

Result 130

Average 130

< 1

20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results stagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/21/2012 12:16:56 PM

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QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected: 06/06/12

Sample Matrix:

Water

Date Received: 06/08/12

Date Analyzed: 06/8/12

**Duplicate Matrix Spike Summary** 

Chloride

Sample Name:

MW-19

Units: mg/L

Lab Code:

K1205520-006

Basis: NA

Analysis Method:

300.0

Matrix Spike

**Duplicate Matrix Spike** 

K1205520-006MS3

K1205520-006DMS3

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Chloride	129	175	40.0	115 *	175	40.0	114 *	90-110	< 1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Project: Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520

Date Analyzed: 06/08/12

Sample Matrix:

Water

Lab Control Sample Summary

Chloride

Analysis Method:

300.0

Units: mg/L

Basis: NA

Analysis Lot: 295189

 Sample Name
 Lab Code
 Result
 Amount
 % Rec
 Limits

 Lab Control Sample
 K1205520-LCS3
 4.72
 5.00
 94
 90-110

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Analytical Report

Client:

Schwyn Environmental Services

Project:

Sample Matrix:

Analysis Method:

City of Walla Walla Sudbury Road Landfill Remedial

**Date Collected:** 06/06/12 - 06/07/12

Water

300.0

Date Received: 06/8/12

Service Request: K1205520

Units: mg/L Basis: NA

# Nitrate as Nitrogen

					Date	
Sample Name	Lab Code	Result	MRL	Dil.	Analyzed	Q
MW-19	K1205520-006	9.1	1.0	20	06/08/12 13:12	
MW-15	K1205520-007	6.9	1.0	20	06/08/12 13:26	
D15	K1205520-008	6.9	1.0	20	06/08/12 13:39	
MW-146	K1205520-009	8.3	1.0	20	06/08/12 13:53	
MW-18	K1205520-010	9.5	1.0	20	06/08/12 14:06	
MW-23	K1205520-011	10.2	1.0	20	06/08/12 14:20	
MW-24	K1205520-012	9.0	1.0	20	06/08/12 14:33	
MW-17	K1205520-013	10.1	1.0	20	06/08/12 14:47	
Method Blank	K1205520-MB1	ND U	0.050	1	06/08/12 07:09	

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project

Service Request:

K1205520

City of Walla Walla Sudbury Road Landfill Remedial

**Date Collected:** 

06/06/12

Sample Matrix:

Water

Date Received: Date Analyzed:

06/08/12 06/08/12

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name:

MW-19

Units:

mg/L

Lab Code:

K1205520-006

Basis:

NA

Duplicate

Sample

K1205520-

Analysis Method

Sample Result

006DUP10

Result Average

RPD

Analyte Name

1.0

9.1

9.2

9.16

2

RPD Limit

Nitrate as Nitrogen

300.0

**MRL** 

20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable. Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/21/2012 12:16:56 PM

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services

Project: City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water Service Request: K1205520

Date Collected: 06/06/12 Date Received: 06/08/12

Date Analyzed: 06/8/12

**Duplicate Matrix Spike Summary** Nitrate as Nitrogen

Sample Name:

Analysis Method:

MW-19

300,0

Lab Code:

K1205520-006

Units: mg/L Basis: NA

Matrix Spike

**Duplicate Matrix Spike** 

K1205520-006MS3

K1205520-006DMS3

Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Nitrate as Nitrogen	9.1	50.6	40.0	104	50.2	40,0	103	90-110	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520 Date Analyzed: 06/08/12

Sample Matrix:

Water

Lab Control Sample Summary

Nitrate as Nitrogen

Analysis Method:

300.0

Units: mg/L

Basis: NA

Analysis Lot: 295189

			Spike		% Rec
Sample Name	Lab Code	Result	Amount	% Rec	Limits
Lab Control Sample	K1205520-LCS3	18.1	17.7	102	90-110

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Analytical Report

Client:

Schwyn Environmental Services

Project:

Sample Matrix:

Water

City of Walla Walla Sudbury Road Landfill Remedial

**Date Collected:** 06/06/12 - 06/07/12

Service Request: K1205520

Date Received: 06/8/12

Units: mg/L

Basis: NA

Analysis Method: 300.0

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	39.4	4.0	20	06/08/12 13:12	
MW-15	K1205520-007	37,9	4.0	20	06/08/12 13:26	
D15	K1205520-008	38.0	4.0	20	06/08/12 13:39	
MW-14b	K1205520-009	37.4	4.0	20	06/08/12 13:53	
MW-18	K1205520-010	32.8	4.0	20	06/08/12 14:06	
MW-23	K1205520-011	31,0	4.0	20	06/08/12 14:20	
MW-24	K1205520-012	29.6	4.0	20	06/08/12 14:33	
MW-17	K1205520-013	29,0	4.0	20	06/08/12 14:47	
Method Blank	K1205520-MB1	ND U	0.20	1	06/08/12 07:09	

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services Service Request: K1205520

ProjectCity of Walla Walla Sudbury Road Landfill RemedialDate Collected:06/06/12Sample Matrix:WaterDate Received:06/08/12

Date Analyzed: 06/08/12

Replicate Sample Summary General Chemistry Parameters

 Sample Name:
 MW-19
 Units: mg/L

 Lab Code:
 K1205520-006
 Rasis: NA

205520-006 **Basis:** NA

Duplicate
Sample
K1205520Analysis Sample 006DUP10

Analyte NameMethodMRLResultResultAverageRPDRPD LimitSulfate300.04.039.439.839.6120

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

Date Collected: 06/06/12

Date Received: 06/08/12

Date Analyzed: 06/8/12

**Duplicate Matrix Spike Summary** 

Sulfate

Sample Name:

MW-19

Lab Code:

K1205520-006

Units: mg/L Basis: NA

Analysis Method:

300.0

Matrix Spike

**Duplicate Matrix Spike** 

K1205520-006MS3

K1205520-006DMS3

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Sulfate	39.4	81.2	40.0	104	81.7	40,0	106	90-110	< [	20

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520

Sample Matrix:

Water

Date Analyzed: 06/08/12

Lab Control Sample Summary

Sulfate

Analysis Method:

300.0

Units: mg/L

Basis: NA

Analysis Lot: 295189

Spike % Rec Sample Name Lab Code Result Amount % Rec Limits Lab Control Sample K1205520-LCS3 4.60 5.00 92 90-110

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Now part of the ALS Group

Analytical Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Analysis Method:

Water

**Date Collected:** 06/06/12 - 06/07/12

Service Request: K1205520

Date Received: 06/8/12

SM 2320 B

Units: mg/L

Basis: NA

Alkalinity as CaCO3, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	332	9.0	1	06/13/12 20:53	-
MW-15	K1205520-007	491	9.0	ţ	06/13/12 20:53	
D15	K1205520-008	484	9,0	<b>P</b>	06/13/12 20:53	
MW-14b	K1205520-009	280	9.0	1	06/13/12 20:53	
MW-18	K1205520-010	315	9.0	and the same	06/13/12 20:53	
MW-23	K1205520-011	281	9.0	1	06/13/12 20:53	
MW-24	K1205520-012	285	9.0	1	06/13/12 20:53	
MW-17	K1205520-013	299	9.0	1	06/13/12 20:53	
Method Blank	K1205520-MB1	ND U	9.0	1	06/13/12 20:53	
Method Blank	K1205520-MB2	ND U	9.0	1	06/13/12 20:53	

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services

Service Request: K1205520

Project City of Walla Walla Sudbury Road Landfill Remedial Date Collected: NA Sample Matrix: Water Date Received: NA

Analysis Method: SM 2320 B Units: mg/L

NA Basis:

# **Duplicate Sample Summary** Alkalinity as CaCO3, Total

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1205411-033DUP1	9.0	91.1	94,6	92.9	4	20	06/13/12
Batch QC	K1205452-001DUP3	9.0	267	282	275	5	20	06/13/12
Batch QC	K1205477-004DUP8	9.0	92.1	96.6	94,4	5	20	06/13/12
Batch QC	K1205477-010DUP9	9.0	96.0	95.5	95.8	<1	20	06/13/12

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520 Date Analyzed: 06/13/12

Sample Matrix:

Water

Lab Control Sample Summary Alkalinity as CaCO3, Total

Analysis Method:

SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 296181

Sample Name	Lah Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample Lab Control Sample	K1205520-LCS3	65.8	64.9	101	94-106
	K1205520-LCS4	66.4	64.9	102	94-106

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Now part of the ALS Group

Analytical Report

Schwyn Environmental Services Client:

SM 2540 C

Project:

Analysis Method:

Service Request: K1205520 City of Walla Walla Sudbury Road Landfill Remedial **Date Collected:** 06/06/12 - 06/07/12

Sample Matrix: Water

Date Received: 06/8/12

Units: mg/L Basis: NA

# Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	745	10	l	06/13/12 00:00	
MW-15	K1205520-007	988	13	1	06/13/12 00:00	
D15	K1205520-008	953	13	1	06/13/12 00:00	
MW-14b	K1205520-009	711	13	l	06/13/12 00:00	
MW-18	K1205520-010	764	13	1	06/13/12 00:00	
MW-23	K1205520-011	736	13	1	06/13/12 00:00	······
MW-24	K1205520-012	600	10	Î	06/13/12 00:00	
MW-17	K1205520-013	669	10	l	06/13/12 00:00	
Method Blank	K1205520-MB1	ND U	5.0	1	06/13/12 00:00	
Method Blank	K1205520-MB2	ND U	5.0	1	06/13/12 00:00	

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Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services Service Request: K1205520

Project City of Walla Walla Sudbury Road Landfill Remedial Date Collected: 06/07/12

Sample Matrix: Water Date Received: 06/08/12
Date Analyzed: 06/13/12

Replicate Sample Summary General Chemistry Parameters

Sample Name: MW-17 Units: mg/L

Lab Code: K1205520-013 Basis: NA

Duplicate Sample K1205520-013DUP17

Sample Result Analyte Name Analysis Method MRL Result RPD RPD Limit Average Solids, Total Dissolved SM 2540 C 10 669 673 671  $\leq 1$ 10

Results flagged with an asterisk (\*) indicate values outside control criteria.

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QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520 Date Analyzed: 06/13/12

Sample Matrix:

Water

Lab Control Sample Summary Solids, Total Dissolved

Analysis Method:

SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 296007

 Sample Name
 Lab Code
 Result
 Amount
 % Rec
 Limits

 Lab Control Sample
 K1205520-LCS3
 1180
 1240
 95
 90-108

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Analytical Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Analysis Method:

Water

Prep Method:

SM 4500-CN-E SM 4500-CN-C

Service Request: K1205520

**Date Collected:** 06/06/12 - 06/07/12

Date Received: 06/8/12

Units: mg/L

Basis: NA

Cyanide, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
MW-15	K1205520-007	ND U	0.010	l	06/19/12 17:53	6/19/12	
D15	K1205520-008	ND U	0.010	1	06/19/12 17:53	6/19/12	
MW-14b	K1205520-009	ND U	0.010	1	06/19/12 17:53	6/19/12	
Method Blank	K1205520-MB1	ND U	0.0047	1	06/19/12 17:53	6/19/12	

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205520

Project

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected:

NA

Sample Matrix:

Water

Date Received:

NA **Date Analyzed:** 06/19/12

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name:

Batch QC

Units:

mg/L

Lab Code:

K1205452-001

Basis: NA

Duplicate Sample

K1205452-

Sample

001DUP3

**Analysis Method** Analyte Name Result MRL Result RPD RPD Limit Average Cvanide, Total SM 4500-CN-E 0.010 ND ND NC NC 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected: N/A

Sample Matrix:

Water

Date Received: N/A

Date Analyzed: 06/19/12

Date Extracted: 06/19/12

Duplicate Matrix Spike Summary Cyanide, Total

Sample Name:

Batch QC

Units: mg/L

Lab Code:

K1205452-001

Basis: NA

Analysis Method:

SM 4500-CN-E

Prep Method:

SM 4500-CN-C

Matrix Spike

**Duplicate Matrix Spike** 

K1205452-001MST

K1205452-001DMS1

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Cyanide, Total	ND	0.094	0.100	94	0.097	0.100	97	23-148	3	20

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Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial

Project: Date Analyzed: 06/19/12 Sample Matrix: Water Date Extracted: 06/19/12

Lab Control Sample Summary

Cyanide, Total

Analysis Method: SM 4500-CN-E Units: mg/L

Prep Method: SM 4500-CN-C Basis: NA

Analysis Lot: 297025

Service Request: K1205520

Spike % Rec Sample Name Amount Limits Lab Code Result % Rec Lab Control Sample K1205520-LCS3 1,47 1.46 101 84-115

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Analytical Report

Client:

Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520

Project: Sample Matrix:

Water

Date Received: 06/8/12

**Date Collected:** 06/06/12 - 06/07/12

Analysis Method:

SM 4500-NH3 E

Units: mg/L Basis: NA

# Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	ND U	0.050	1	06/11/12 08:30	
MW-15	K1205520-007	ND U	0.050	1	06/11/12 08:30	
D15	K1205520-008	ND U	0.050	1	06/11/12 08:30	
MW-14b	K1205520-009	ND U	0.050	1	06/11/12 08:30	
MW-18	K1205520-010	ND U	0.050	l	06/11/12 08:30	
MW-23	K1205520-011	ND U	0.050	1	06/11/12 08:30	
MW-24	K1205520-012	ND U	0.050	l	06/11/12 08:30	
MW-17	K1205520-013	ND U	0.050	l	06/11/12 08:30	
Method Blank	K1205520-MB1	ND U	0.050	]	06/11/12 08:30	
Method Blank	K1205520-MB2	ND U	0.050	1	06/11/12 08:30	

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#### Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected:

NA

Sample Matrix:

Water

Date Received: NA

Analysis Method:

SM 4500-NH3 E

Units:

mg/L NΑ Basis:

# **Duplicate Sample Summary** Ammonia as Nitrogen

			Sample	Duplicate			RPD	Date
Sample Name:	Lab Code:	MRL	Result	Result	Average	RPD	Limit	Analyzed
Batch QC	K1205452-001DUP3	0,050	0.051	ND	NC	NC	20	06/11/12
Batch QC	K1205587-001DUP21	0.050	ND	ND	NC	NC	20	06/11/12
Batch QC	K1205587-007DUP27	0.050	ND	ND	NC	NC	20	06/11/12

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected: N/A

Sample Matrix:

Water

**Date Received:** N/A **Date Analyzed:** 06/11/12

Matrix Spike Summary Ammonia as Nitrogen

Sample Name:

Batch QC

Lab Code:

K1205452-001

Analysis Method:

SM 4500-NH3 E

Units: mg/L

Basis: NA

Matrix Spike K1205452-001MS2

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	0.051	10.2	10.0	101	80-115

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected: N/A

Sample Matrix:

Water

Date Received: N/A
Date Analyzed: 06/11/12

Matrix Spike Summary Ammonia as Nitrogen

Sample Name:

Batch QC

Lab Code:

K1205587-001

Analysis Method:

SM 4500-NH3 E

Units: mg/L

Basis: NA

Superset Reference: 12-0000214292 rev 00

# Matrix Spike

K1205587-001MS4

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	ND	9.83	10.0	98	80-115

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected: N/A

Sample Matrix:

Water

Date Received: N/A

Date Analyzed: 06/11/12

Matrix Spike Summary Ammonia as Nitrogen

Sample Name:

Batch QC

,

Units: mg/L

Lab Code:

K1205587-007

Basis: NA

Analysis Method:

SM 4500-NH3 E

Matrix Spike K1205587-007MS5

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nítrogen	ND	10.2	10.0	102	80-115

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client: Project: Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520

Date Analyzed: 06/11/12

Sample Matrix:

Water

Lab Control Sample Summary Ammonia as Nitrogen

Analysis Method:

SM 4500-NH3 E

Units: mg/L

Basis: NA

Analysis Lot: 295524

			Spike		% Rec
Sample Name	Lab Code	Result	Amount	% Rec	Limits
Lab Control Sample	K1205520-LCS3	14.3	13.9	103	80-115
Lab Control Sample	K1205520-LCS4	13.6	13.9	98	80-115

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Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services

Service Request: K1205520

**Date Collected:** 06/06/12 - 06/07/12 Project: City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water Date Received: 06/8/12

Analysis Method: SM 4500-S2-D Units: mg/L

Basis: NA

#### **Total Sulfide**

Sample Name	Lah Code			Date		
		Result	MRL	Dil.	Analyzed	Q
MW-15	K1205520-007	ND U	0.050	1	06/08/12 22:29	
D15	K1205520-008	ND U	0.050	1	06/08/12 22:29	
MW-14b	K1205520-009	ND U	0.050	1	06/08/12 22:29	
Method Blank	K1205520-MB1	ND U	0.050	1	06/08/12 22:29	

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205520

Project

City of Walla Walla Sudbury Road Landfill Remedial

**Date Collected:** 

NA

Sample Matrix:

Water

Date Received:

NA

Date Analyzed: 06/08/12

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name:

Batch QC

Units:

mg/L

Lab Code:

Basis: NA

K1205452-001

Duplicate

Sample

K1205452-

001DUP3

Analyte Name Total Sulfide

**Analysis Method** SM 4500-S2-D

MRL 0.050

ND

Sample

Result

Result ND

Average NC

RPD NC

RPD Limit 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected: N/A

Sample Matrix:

Water

Date Received: N/A Date Analyzed: 06/8/12

**Duplicate Matrix Spike Summary Total Sulfide** 

Sample Name:

Lab Code:

Batch QC

K1205452-001

Units: mg/L

Basis: NA

Analysis Method:

SM 4500-S2-D

Matrix Spike

**Duplicate Matrix Spike** 

K1205452-001MS1

K1205452-001DMS1

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Total Sulfide	ND	1.69	1.77	96	1.70	1.77	96	70-120	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Date Analyzed: 06/08/12

Sample Matrix:

Water

Lab Control Sample Summary

Total Sulfide

Analysis Method:

SM 4500-S2- D

Units: mg/L

Basis: NA

Analysis Lot: 295328

			Spike		% Rec
Sample Name	Lab Code	Result	Amount	% Rec	Limits
Lab Control Sample	K1205520-LCS3	1.63	1.77	92	89-106

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Now part of the ALS Group

Analytical Report

Client: Project: Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

**Analysis Method:** 

Water

**Date Collected:** 06/06/12 - 06/07/12

Service Request: K1205520

Date Received: 06/8/12

SM 5310 C

Units: mg/L Basis: NA

Carbon, Total Organic

				Date	
Lab Code	Result	MRL	Dil.	Analyzed	Q
K1205520-006	0.71	0.50	I	06/13/12 10:00	
K1205520-007	1.38	0.50	J	06/13/12 10:00	
K1205520-008	1.29	0.50	1	06/13/12 10:00	
K1205520-009	0.65	0.50	1	06/13/12 10:00	
K1205520-010	0.59	0.50	1	06/13/12 10:00	
K1205520-011	0.73	0.50	1	06/13/12 10:00	
K1205520-012	0.74	0.50	1	06/13/12 10:00	
K1205520-013	0.75	0.50	I	06/13/12 10:00	
K1205520-MB1	ND U	0.50	Ī	06/13/12 10:00	
K1205520-MB2	ND U	0.50	1	06/13/12 10:00	
K1205520-MB3	ND U	0.50	1	06/18/12 18:17	
K1205520-MB4	ND U	0.50	1	06/18/12 18:17	
	K1205520-006 K1205520-007 K1205520-008 K1205520-009 K1205520-010 K1205520-011 K1205520-012 K1205520-013 K1205520-MB1 K1205520-MB2 K1205520-MB3	K1205520-006       0.71         K1205520-007       1.38         K1205520-008       1.29         K1205520-009       0.65         K1205520-010       0.59         K1205520-011       0.73         K1205520-012       0.74         K1205520-013       0.75         K1205520-MB1       ND U         K1205520-MB2       ND U         K1205520-MB3       ND U	K1205520-006       0.71       0.50         K1205520-007       1.38       0.50         K1205520-008       1.29       0.50         K1205520-009       0.65       0.50         K1205520-010       0.59       0.50         K1205520-011       0.73       0.50         K1205520-012       0.74       0.50         K1205520-013       0.75       0.50         K1205520-MB1       ND U       0.50         K1205520-MB2       ND U       0.50         K1205520-MB3       ND U       0.50	K1205520-006       0.71       0.50       1         K1205520-007       1.38       0.50       1         K1205520-008       1.29       0.50       1         K1205520-009       0.65       0.50       1         K1205520-010       0.59       0.50       1         K1205520-011       0.73       0.50       1         K1205520-012       0.74       0.50       1         K1205520-013       0.75       0.50       1         K1205520-MB1       ND U       0.50       1         K1205520-MB2       ND U       0.50       1         K1205520-MB3       ND U       0.50       1	Lab Code         Result         MRL         Dil.         Analyzed           K1205520-006         0.71         0.50         1         06/13/12 10:00           K1205520-007         1.38         0.50         1         06/13/12 10:00           K1205520-008         1.29         0.50         1         06/13/12 10:00           K1205520-009         0.65         0.50         1         06/13/12 10:00           K1205520-010         0.59         0.50         1         06/13/12 10:00           K1205520-011         0.73         0.50         1         06/13/12 10:00           K1205520-012         0.74         0.50         1         06/13/12 10:00           K1205520-013         0.75         0.50         1         06/13/12 10:00           K1205520-MB1         ND U         0.50         1         06/13/12 10:00           K1205520-MB2         ND U         0.50         1         06/13/12 10:00           K1205520-MB3         ND U         0.50         1         06/13/12 18:17

#### Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services Service Request: K1205520

Project City of Walla Sudbury Road Landfill Remedial Date Collected: 06/06/12 - 06/07/12

Sample Matrix: Water Date Received: 06/08/12

Analysis Method: SM 5310 C Units: mg/L
Basis: NA

Duplicate Sample Summary Carhon, Total Organic

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-19	K1205520-006DUP10	0.50	0.71	0.78	0.744	9	10	06/13/12
MW-15	K1205520-007DUP11	0.50	1.38	1.41	1.39	2	10	06/13/12
D15	K1205520-008DUP12	0.50	1.29	1.34	1.32	4	10	06/13/12
MW-14b	K1205520-009DUP13	0.50	0.65	0.53	0.588	20 *	10	06/13/12
MW-18	K1205520-010DUP14	0.50	0.59	0.60	0.596	ì	10	06/13/12
MW-23	K1205520-011DUP15	0.50	0.73	0.70	0.711	4	10	06/13/12
MW-24	K1205520-012DUP16	0.50	0.74	0.81	0.776	9	10	06/13/12
MW-17	K1205520-013DUP17	0.50	0.75	0.71	0.732	6	10	06/13/12

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/21/2012 12:16:56 PM Superset Reference: 12-0000214292 rev 00

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected: N/A

Sample Matrix:

Water

Date Received: N/A

Matrix Spike Summary

Date Analyzed: 06/13/12

Carbon, Total Organic

Sample Name:

Batch QC

Units: mg/L

Lab Code:

K1205452-001

Basis: NA

Analysis Method:

SM 5310 C

Matrix Spike

K1205452-001MS2

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	0,66	25.7	25.0	100	83-117

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/21/2012 12:16:56 PM

Superset Reference: 12-0000214292 rev 00

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205520

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Date Collected: N/A

Sample Matrix:

Water

Date Received: N/A

Date Analyzed: 06/13/12

Matrix Spike Summary Carbon, Total Organic

Sample Name:

Batch QC

Units: mg/L

Lab Code:

K1205587-001

Basis: NA

Analysis Method:

SM 5310 C

Matrix Spike K1205587-001MS4

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	ND	25.7	25.0	103	83-117

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/21/2012 12:16:56 PM

Superset Reference: 12-0000214292 rev 00

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520 Date Analyzed: 06/18/12

Sample Matrix:

Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Analysis Method:

SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 296664

Lab Control Sample K1205520-LCS1

Duplicate Lab Control Sample K1205520-DLCS1

		Spike			Spike		% Rec		RPD
Analyte Name	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Carbon, Total Organic	22.1	22.7	97	21.9	22,7	96	83-117	Į	10

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services

Service Request: K1205520 City of Walla Walla Sudbury Road Landfill Remedial Date Analyzed: 06/18/12

Project:

Sample Matrix: Water

> **Duplicate Lab Control Sample Summary General Chemistry Parameters**

Analysis Method: SM 5310 C Units: mg/L

Basis: NA

Analysis Lot: 296664

Lab Control Sample K1205520-LCS2

**Duplicate Lab Control Sample** K1205520-DLCS2

		Spike			Spike		% Rec		RPD
Analyte Name	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Carbon, Total Organic	22.2	22 7	98	22.0	22.7	97	83-117	1	10

Printed 6/21/2012 12:16:56 PM Superset Reference: 12-0000214292 rev 00

# - Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

Project Name: Project No.:

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520

Sample Name:	<u>Lab Code:</u>
Batch QC1D	K1205452-001D
Batch QC2D	K1205452-001DISSD
Batch QC2S	K1205452-001DISSS
Batch QC1S	K1205452-001S
MW-19	K1205520-006DISS
MW-15	K1205520-007
MW-15	K1205520-007DISS
D15	K1205520-008
D15	K1205520-008DISS
MW-14h	K1205520-009
MW-14h	K1205520-009DISS
MW-18	K1205520-010DISS
MW-23	K1205520-011DISS
MW-24	K1205520-012DISS
MW-17	K1205520-013DISS
Method Blank	K1205520-MB

Comments:

Date: Approved By:

## Metals

#### - 1 -

# INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

Service Request: K1205520

Project No.:

Date Collected:

06/06/12

Project Name: City of Walla Walla Sudbury Roa

Date Received:

06/08/12

Matrix:

WATER

Units:

ug/L

Basis: NA

Sample Name:

MW-19

Lab Code:

K1205520-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	ō.
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	128000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	22.5		
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	53400		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	9.8		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7710		
Sodium	6010C	200	1.0	06/11/12	06/20/12	21300		

## Metals

#### -1-

## INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

Service Request: K1205520

Project No.:

Date Collected:

06/06/12

Project Name: City of Walla Walla Sudbury Roa

Date Received:

06/08/12

Matrix:

WATER

Units: ug/L

Basis: NA

Sample Name:

MW-15

Lab Code:

K1205520-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Õ
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	U	
Nickel	6010C	2.0	1.0	06/11/12	06/20/12	8.5		

## Metals

# - 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services

Service Request: K1205520

Project No.: NA

Date Collected:

06/06/12

3

Project Name: City of Walla Walla Sudbury Roa

Date Received: 0

06/08/12

Matrix:

WATER

Date Received.

00/00/1

Units:

ug/L

Basis: NA

Sample Name:

MW-15

Lab Code:

K1205520-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Antimony	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Arsenic	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Barium	6010C	2.0	1.0	06/11/12	06/20/12	180		
Beryllium	6010C	0.2	1,0	06/11/12	06/20/12	0.2	ប	
Cadmium	6010C	0.5	1.0	06/11/12	06/20/12	0.5	U	
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	152000		
Chromium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	υ	
Cobalt	6010C	1.0	1.0	06/11/12	06/20/12	1.0	ប	
Copper	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Iron	6010C	20.0	1,0	06/11/12	06/20/12	20.0	U	
Lead	6010C	10.0	1.0	06/11/12	06/20/12	10.0	υ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	48500		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	36.3		
Potassium	6010C	400	1.0	06/11/12	06/20/12	8300		
Selenium	6010c	20.0	1.0	06/11/12	06/20/12	20.0	υ	
Silver	6010C	2.0	1.0	06/11/12	06/20/12	2.0	υ	
Sodium	6010C	200	1.0	06/11/12	06/20/12	54100		
Thallium	6010C	10.0	1.0	06/11/12	06/20/12	10.0	ប	
Tin	6010c	10.0	1.0	06/11/12	06/20/12	10.0	υ	
Vanadium	6010C	2.0	1.0	06/11/12	06/20/12	14.8		
Zinc	6010C	2.0	1.0	06/11/12	06/20/12	2.0	υ	

## Metals

#### -1-

## INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

Service Request: K1205520

Units:

Project No.:

NA

Date Collected:

06/06/12

Project Name: City of Walla Walla Sudbury Roa

Date Received:

06/08/12

Matrix:

WATER

ug/L

Basis: NA

Sample Name:

D15

Lab Code:

K1205520-008

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	U	Q
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	บ	
Nickel	6010℃	2.0	1.0	06/11/12	06/20/12	8.0		

## Metals

#### -1-

#### INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

Service Request: K1205520

Project No.:

NA

Date Collected:

06/06/12

Project Name: City of Walla Walla Sudbury Roa

Date Received: 06/08/12

Matrix:

WATER

Units: ug/L

Basis: NA

Sample Name:

D15

Lab Code:

K1205520-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Antimony	6010C	10.0	1.0	06/11/12	06/20/12	10.0	บ	
Arsenic	6010C	10.0	1.0	06/11/12	06/20/12	10.0	บ	
Barium	6010C	2.0	1.0	06/11/12	06/20/12	179		
Beryllium	6010C	0.2	1.0	06/11/12	06/20/12	0.2	บ	
Cadmium	6010C	0.5	1.0	06/11/12	06/20/12	0.5	บ	
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	151000		
Chromium	6010C	2.0	1.0	06/11/12	06/20/12	3.0		
Cobalt	6010C	1.0	1.0	06/11/12	06/20/12	1.0	ซ	
Copper	6010C	2.0	1.0	06/11/12	06/20/12	2.0	บ	
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	ប	
Lead	6010C	10.0	1.0	06/11/12	06/20/12	10.0	ซ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	48500		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	36.1		
Potassium	6010C	400	1.0	06/11/12	06/20/12	8230		
Selenium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	ប	
Silver	6010C	2.0	1.0	06/11/12	06/20/12	2.0	บ	
Sodium	6010C	200	1.0	06/11/12	06/20/12	52300		
Thallium	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Tin	6010C	10.0	1.0	06/11/12	06/20/12	10.0	บ	
Vanadium	6010C	2.0	1.0	06/11/12	06/20/12	15.3		
Zinc	6010C	2.0	1.0	06/11/12	06/20/12	2.0	บ	

#### Metals

#### - 1 -

#### INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

Service Request: K1205520

Project No.:

NA

06/07/12

Date Collected:

Project Name: City of Walla Walla Sudbury Roa

Date Received:

06/08/12

Matrix:

WATER

Units:

ug/L

Basis: NΑ

Sample Name:

MW-14b

Lab Code:

K1205520-009

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	U	Q
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	ט	
Nickel	6010C	2.0	1.0	06/11/12	06/20/12	9.2		

#### Metals

## - 1 -INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services

Service Request: K1205520

Project No.: NA

Date Collected:

06/07/12

Project Name: City of Walla Walla Sudbury Roa

Date Received:

Units:

06/08/12

Matrix:

WATER

Date Received.

ug/L

Basis: NA

Sample Name:

MW-14b

Lab Code:

K1205520-009DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Antimony	6010C	10.0	1.0	06/11/12	06/20/12	10.0	บ	
Arsenic	6010C	10.0	1.0	06/11/12	06/20/12	10.0	ט	
Barium	6010C	2.0	1.0	06/11/12	06/20/12	71.9		
Beryllium	6010C	0.2	1.0	06/11/12	06/20/12	0.2	ប	
Cadmium	6010c	0.5	1.0	06/11/12	06/20/12	0.5	บ	Í
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	121000		
Chromium	6010c	2.0	1.0	06/11/12	06/20/12	2.4		
Cobalt	6010C	1.0	1.0	06/11/12	06/20/12	1.0	บ	
Copper	6010C	2.0	1.0	06/11/12	06/20/12	2.0	ט	
Iron	6010c	20.0	1.0	06/11/12	06/20/12	20.0	U	
Lead	6010C	10.0	1.0	06/11/12	06/20/12	10.0	ט	
Magnesium	6010c	20.0	1.0	06/11/12	06/20/12	48000		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	45.3		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7410		
Selenium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	ប	
Silver	6010C	2.0	1.0	06/11/12	06/20/12	2.0	ט	
Sodium	6010C	200	1.0	06/11/12	06/20/12	17300		
Thallium	6010C	10.0	1.0	06/11/12	06/20/12	10.0	ប	
Tin	6010c	10.0	1.0	06/11/12	06/20/12	10.0	ซ	
Vanadium	6010c	2.0	1.0	06/11/12	06/20/12	14.8		
Zinc	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	-

## Metals

#### - 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services

Service Request: K1205520

Project No.: NA

Date Collected:

06/07/12

Project Name: City of Walla Walla Sudbury Roa

Date Received: 06/08/12

Matrix:

WATER

Units: ug/L

Basis: NA

Sample Name:

MW-18

Lab Code:

K1205520-010DISS

Analyte	Analysis Method MR		Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	121000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	บ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	51200		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	17.5		
Potassium	6010C	400	1.0	06/11/12	06/20/12	8170		
Sodium	6010C	200	1.0	06/11/12	06/20/12	28400		

#### Metals

#### -1-

## INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services

K1205520 Service Request:

Project No.:

Date Collected: 06/07/12

Project Name: City of Walla Walla Sudbury Roa

06/08/12 Date Received:

WATER

Units: ug/L

Basis: NA

Sample Name:

Matrix:

MW-23

Lab Code: K1205520-011DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	109000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	บ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	44500		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	25.3		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7650		
Sodium	6010c	200	1.0	06/11/12	06/20/12	25400		

## Metals

#### - 1 -

#### INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services

Service Request: K1205520

Project No.: NA

Date Collected:

06/07/12

Project Name: City of Walla Walla Sudbury Roa

06/08/12

Matrix:

WATER

Units: ug/L

Date Received:

Basis: NA

Sample Name:

MW-24

Lab Code: K1205520-012DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	100000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	ប	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	41900		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	146		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7540		
Sodium	6010C	200	1.0	06/11/12	06/20/12	25900		

## Metals

#### -1-

# INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205520

Project No.:

06/07/12 Date Collected:

Project Name: City of Walla Walla Sudbury Roa

06/08/12 Date Received:

Matrix:

WATER

Units: ug/L

Basis: NA

Sample Name:

MW-17

Lab Code: K1205520-013DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	113000		
Iron	6010c	20.0	1.0	06/11/12	06/20/12	20.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	47700		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	64.9		
Potassium	6010C	400	1.0	06/11/12	06/20/12	8000		
Sodium	6010C	200	1.0	06/11/12	06/20/12	29100		

## Metals

#### -1-

# INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

Service Request:

K1205520

Project No.:

NA

Date Collected:

Project Name: City of Walla Walla Sudbury Roa

Date Received:

Units:

Matrix:

WATER

ug/L

Basis: NA

Sample Name:

Method Blank

Lab Code:

K1205520-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Antimony	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Arsenic	6010C	10.0	1.0	06/11/12	06/20/12	10.0	Ü	
Barium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Beryllium	6010C	0.2	1.0	06/11/12	06/20/12	0.2	U	
Cadmium	6010C	0.5	1.0	06/11/12	06/20/12	0.5	U	
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	50. <b>0</b>	บ	
Chromium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	ט	
Cobalt	6010C	1.0	1.0	06/11/12	06/20/12	1.0	ט	
Copper	6010C	2.0	1.0	06/11/12	06/20/12	2.0	Ü	
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	ט	
Lead	6010C	10.0	1.0	06/11/12	06/20/12	10.0	ប	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	5.0	U	
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	U	
Potassium	6010C	400	1.0	06/11/12	06/20/12	400	บ	
Selenium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	บ	
Silver	6010C	2.0	1.0	06/11/12	06/20/12	2.0	บ	
Sodium	6010C	200	1.0	06/11/12	06/20/12	200	บ	
Thallium	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Tin	6010C	10.0	1.0	06/11/12	06/20/12	10.0	บ	
Vanadium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	บ	
Zinc	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	

#### Metals - 5A -SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services Service Request: K1205520

Project No.: NA

Units:

Project Name: City of Walla Walla Sudbury Roa

Basis:

NА

UG/L

Matrix:

WATER

Sample Name: Batch QC1S

Lab Code: K1205452-001S

Analyte	Control Limit %R	Spike Result	С	Sample Result	С	Spike Added	% <b>R</b>	Ω	Method
Antimony	86 - 116	479		10.0	U	500.00	95.8		6010C
Arsenic	79 - 121	949		10.0	ט	1000.00	94.9		6010C
Barium	80 - 124	2000		67.3		2000.00	96.6		6010C
Beryllium	87 - 114	48.8		0.2	υ	50.00	97.6		6010C
Cadmium	75 - 125	47.2		0.5	υ	50.00	94.4		6010C
Calcium		99000		90000		10000.00	90.0		6010C
Chromium	89 - 117	194		2.0	ט	200.00	97.0		6010C
Cobalt	88 - 117	480		1.0	υ	500.00	96.0		6010C
Copper	86 - 113	233		2.0	บ	250.00	93.2		6010C
Iron	75 - 125	967		20.0	บ	1000.00	96.7		6010C
Lead	75 - 125	493		10.0	υ	500.00	98.6		6010C
Magnesium	75 - 125	45000		35400		10000.00	96.0		6010C
Manganese	84 - 121	480		5.0	υ	500.00	96.0		6010C
Mercury	76 - 126	1.00		0.2	υ	1.00	100.0		7470A
Potassium	75 - 125	17900		8020		10000.00	98.8		6010C
Selenium	82 - 119	913		20.0	υ	1000.00	91.3		6010C
Silver	79 - 120	47.0		2.0	บ	50.00	94.0		6010C
Sodium	75 - 125	46300		36500		10000.00	98.0		6010C
Thallium	75 - 125	1010		10.0	υ	1000.00	101.0		6010C
Tin	75 - 125	10300		10.0	ט	10000.00	103.0		6010C
Vanadium	89 - 115	518		13.7		500.00	100.9		6010C
Zinc	87 - 113	462		2.0	υ	500.00	92.4		6010C

#### Metals - 5A -SPIKE SAMPLE RECOVERY

Client: Schwyn

Schwyn Environmental Services

Service Request: K1205520

Project No.: NA

Units: UG/L

Project Name: City of Walla Walla Sudbury Roa

Basis: NA

Matrix:

WATER

Sample Name: Batch QC2S Lab Code: K1205452-001DISSS

Analyte	Control Limit %R	Spike Result	С	Sample Result	С	Spike Added	%R	Q	Method
Antimony	86 - 116	474		10.0	U	500.00	94.8		6010C
Arsenic	79 - 121	952		10.0	U	1000.00	95.2		6010C
Barium	80 - 124	2010		66.9		2000.00	97.2		6010C
Beryllium	87 - 114	48.7		0.2	U	50.00	97.4		6010C
Cadmium	75 - 125	47.5		0.5	U	50,00	95.0		6010C
Calcium		98500		89400		10000.00	91.0		6010C
Chromium	89 - 117	196		2.0	U	200.00	98.0		6010C
Cobalt	88 - 117	480		1.0	U	500.00	96.0		6010C
Copper	86 - 113	231		2.0	U	250,00	92.4		6010C
Iron	75 - 125	963		20.0	U	1000.00	96.3		6010C
Lead	75 - 125	498		10.0	U	500.00	99.6		6010C
Magnesium	75 - 125	44400		35400		10000.00	90.0		6010C
Manganese	84 - 121	484		5.0	U	500.00	96.8		6010C
Potassium	75 - 125	17600		8010		10000.00	95.9		6010C
Selenium	82 - 119	919		20.0	U	1000.00	91.9		6010C
Silver	79 - 120	46.8		2.0	U	50.00	93.6		6010C
Sodium	75 - 125	45400		36700		10000.00	87.0		6010C
Thallium	75 - 125	1020		10.0	U	1000.00	102.0		6010C
Tin	75 - 125	10400		10.0	U	10000.00	104.0		6010C
Vanadium	89 - 115	521		14.2		500.00	101.4		6010C
Zinc	87 - 113	468		2.0	U	500.00	93.6		6010C

Now part of the ALS Group

#### Metals

# -6-**DUPLICATES**

Client:

Schwyn Environmental Services

Service Request:

K1205520

Project No.:

Units:

UG/L

Project Name: City of Walla Walla Sudbury Roa

Basis: NA

Matrix:

WATER

Sample Name:

Batch QC1D

Lab Code:

K1205452-001D

Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	Method
Antimony		10.0	U	10.0	Ū			6010C
Arsenic		10.0	υ	10.0	ט			6010C
Barium	20	67.3		67.1		0.3		6010C
Beryllium		0.2	U	0.2	ט			6010C
Cadmium		0.5	U	0.5	U			6010C
Calcium	20	90000		89100		1.0		6010C
Chromium		2.0	U	2.0	U			6010C
Cobalt		1.0	U	1.0	ט			6010C
Copper		2.0	U	2.0	U			6010C
Iron		20.0	U	20.0	U			6010C
Lead		10.0	Ū	10.0	Ū			6010C
Magnesium	20	35400		35600		0.6		6010C
Manganese		5.0	U	5.0	Ū			6010C
Mercury		0.2	U	0.2	บ			7470A
Potassium	20	8020		8070		0.6		6010C
Selenium		20.0	บ	20.0	ט			6010C
Silver		2.0	U	2.0	ប			6010C
Sodium	20	36500		36800		8.0		6010C
Thallium		10.0	U	10.0	ט			6010C
Tin		10.0	U	10.0	บ			6010C
Vanadium	20	13.7		13.4		2.2		6010C
Zinc		2.0	บ	2.0	บ			6010C

#### Metals

## - 6 -**DUPLICATES**

Client:

Schwyn Environmental Services

Service Request: K1205520

Project No.:

Units: UG/L

Project Name: City of Walla Walla Sudbury Roa

Basis: NA

Matrix:

WATER

Sample Name:

Batch QC2D

Lab Code:

K1205452-001DISSD

Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	Method
Antimony		10.0	U	10.0	ט			6010C
Arsenic		10.0	U	10.0	ט			6010C
Barium	20	66.9		66.2		1.1		6010C
Beryllium		0.2	U	0.2	ט			6010C
Cadmium		0.5	U	0.5	ט			6010C
Calcium	20	89400		88600		0.9		6010C
Chromium		2.0	U	2.0	ט			6010C
Cobalt		1.0	บ	1.0	ט			6010C
Copper		2.0	U	2.0	ט			6010C
Iron		20.0	U	20.0	บ			6010C
Lead		10.0	U	10.0	ט			6010C
Magnesium	20	35400		35100		0.9		6010C
Manganese		5.0	U	5.0	ט			6010C
Potassium	20	8010		7910		1.3		6010C
Selenium		20.0	U	20.0	ט			6010C
Silver		2.0	Ü	2.0	ט			6010C
Sodium	20	36700		36300		1.1		6010C
Thallium		10.0	U	10.0	ប			6010C
Tin		10.0	ប	10.0	บ			6010C
Vanadium	20	14.2		13.6		4.3		6010C
Zinc		2.0	ט	2.0	ט			6010C

# Metals -7-

## LABORATORY CONTROL SAMPLE

Client:

Schwyn Environmental Services

Service Request: K1205520

Project No.: NA

Project Name: City of Walla Walla Sudbury Roa

Aqueous LCS Source:

CAS MIXED

Solid LCS Source:

	Aqueous	(ug/L)			Soli	d (mg/	kg)	•
Analyte	True	Found	%R	True	Found	С	Limits	%R
Antimony	2500	2450	98.0					
Arsenic	2500	2400	96.0					
Barium	5000	4890	97.8					
Beryllium	125	123	98.4		1			
Cadmium	1250	1210	96.8					
Calcium	12500	12200	97.6			<u> </u>		
Chromium	500	493	98.6				<u> </u>	
Cobalt	l 1250	1240	99.2				<u> </u>	
Copper	625	604	96.6					
Iron	2500	2380	95.2		1			
Lead	2500	2470	98.8					
Magnesium	12500	12200	97.6					
Manganese	1250	1240	99.2				<u> </u>	
Mercury	5	5.16	103.2		]		<u> </u>	
Potassium	12500	12300	98.4			<u> </u>		
Selenium	2500	2370	94.8		1			
Silver	625	587	93.9					
Sodium	12500	12400	99.2					
Thallium	2500	2540	101.6					
Tin	10000	10000	100.0					
Vanadium	1250	1260	100.8					
Zinc	1250	1190	95.2		1			

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Water Sample Matrix:

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# Organochlorine Pesticides

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 3535A

**Analysis Method:** 

8081B

Units: ug/L Basis: NA

Level: Low

	p. 1/ 0	MOT	Dilution	Date	Date	Extraction	Note
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
alpha-BHC	ND U	0.010	]	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
Al <b>d</b> rin	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	-
Endrin	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND U	0.010	l	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND U	0.010	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND U	0.50	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	85	20-106	06/15/12	Acceptable
Decachlorobiphenyl	100	19-127	06/15/12	Acceptable

Comments:

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SuperSet Reference: RR142927

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# **Organochlorine Pesticides**

Sample Name:

D15

Lab Code:

K1205520-008

Extraction Method:

EPA 3535A

Units: ug/L Basis: NA

Level: Low

**Analysis Method:** 

808IB

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.010	L	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND		0.010	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0,010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND		0.010	I	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND		0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND		0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND		0.010	1	06/13/12	06/15/12	KWG1206513	
4.4'-DDD	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND		0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND		0.010	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND		0.50	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	l	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Tetrachloro-m-xylene	76	20-106	06/15/12	Acceptable	
Decachlorobiphenyl	94	19-127	06/15/12	Acceptable	

Comments:

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RR142927 SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/07/2012

**Date Received:** 06/08/2012

# Organochlorine Pesticides

Sample Name:

MW-14b

Lab Code:

K1205520-009

Extraction Method:

EPA 3535A

**Analysis Method:** 

8081B

Units: ug/L Basis: NA

Level: Low

	D 14		MDI	Dilution	Date Extracted	Date	Extraction Lot	Note
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed		Note
alpha-BHC	ND	U	0.0098	l	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND	U	0.0098	i i	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.0098	l	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.0098	I	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0.0098	I	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND	U	0,0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND	U	0.49	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	l	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Tetrachloro-m-xylene	75	20-106	06/15/12	Acceptable	
Decachlorobiphenyl	91	19-127	06/15/12	Acceptable	

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

Date Collected: NA
Date Received: NA

# Organochlorine Pesticides

Sample Name:

Method Blank

Lab Code:

KWG1206513-6

**Extraction Method:** 

EPA 3535A

Analysis Method:

8081B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	0	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	·····	0.0098	1	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND		0.0098	ì	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND		0.0098	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	***************************************
Heptachlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND		0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	Ü	0.0098	l	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND		0.0098	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND		0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0,0098	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND		0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND		0.49	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	74	20-106	06/15/12	Acceptable
Decachlorobiphenyl	91	19-127	06/15/12	Acceptable

Comments:

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Page 1 of 1

SuperSet Reference: RR142927

Now part of the ALS Group QA/QC Report

Schwyn Environmental Services Client:

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Surrogate Recovery Summary** Organochlorine Pesticides

**Extraction Method:** 

EPA 3535A

Analysis Method:

8081B

Service Request: K1205520

Units: PERCENT

Level: Low

Sample Name	Lab Code	<u>Sur I</u>	Sur2
Batch QC	K1205452-001	88	105
MW-15	K1205520-007	85	100
D15	K1205520-008	76	94
MW-14b	K1205520-009	75	91
Method Blank	KWG1206513-6	74	91
Batch QCMS	KWG1206513-1	74	91
Batch QCDMS	KWG1206513-2	74	91
Lab Control Sample	KWG1206513-3	74	87
Lab Control Sample	KWG1206513-4	70	91
Duplicate Lab Control Sample	KWG1206513-5	69	79

Surrogate Recovery Control Limits (%)

20-106 Sur1 = Tetrachloro-m-xylene 19-127 Sur2 = Decachlorobiphenyl

Results flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a puund (#) indicate the control criteria is not applicable.

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Form 2A - Organic

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RR142927 SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/13/2012 **Date Analyzed:** 06/15/2012

## Matrix Spike/Duplicate Matrix Spike Summary Organochlorine Pesticides

Sample Name:

Batch QC

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 3535A

Analysis Method:

8081B

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206513

Batch QCDMS Batch QCMS KWG1206513-1 KWG1206513-2

	Sample		VG1206513- Matrix Spike	1		vG1206513		%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
alpha-BHC	ND	0.174	0.196	89	0.179	0.196	91	31-123	3	30
beta-BHC	ND	0.164	0.196	83	0.169	0.196	86	31-118	3	30
gamma-BHC (Lindane)	ND	0.177	0.196	90	0.182	0.196	93	31-123	3	30
delta-BHC	ND	0.188	0.196	96	0.194	0.196	99	40-129	3	30
Heptachlor	ND	0.174	0.196	89	0.184	0.196	94	23-124	6	30
Aldrin	ND	0.133	0.196	68	0.150	0.196	76	18-111	12	30
Heptachlor Epoxide	ND	0.171	0.196	87	0.176	0.196	90	28-122	3	30
Endosulfan I	ND	0.139	0.196	71	0.145	0.196	74	17-118	4	30
Dieldrin	ND	0.171	0.196	87	0.176	0.196	90	32-121	3	30
4,4'-DDE	ND	0.166	0.196	85	0.173	0.196	88	24-129	4	30
Endrin	ND	0.173	0.196	88	0.186	0.196	95	34-133	8	30
Endosulfan II	ND	0.154	0.196	<b>7</b> 9	0.159	0.196	81	19-122	3	30
4.4'-DDD	ND	0.170	0.196	87	0.177	0.196	90	29-125	4	30
Endrin Aldehyde	ND	0.169	0.196	86	0.172	0.196	88	10-108	2	30
Endosulfan Sulfate	ND	0.172	0.196	88	0.176	0.196	90	30-120	2	30
4,4'-DDT	ND	0.184	0.196	94	0.190	0.196	97	28-139	3	30
Methoxychlor	ND	0.182	0.196	93	0.189	0.196	96	30-137	4	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

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SuperSet Reference: RR142927

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 Date Extracted: 06/13/2012

**Date Analyzed:** 06/15/2012

# Lab Control Spike Summary Organochlorine Pesticides

**Extraction Method:** EPA 3535A

**Analysis Method:** 

8081B

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206513

Lab Control Sample KWG1206513-3

	Lab	Control Spik	e	%Rec
Analyte Name	Result	Expected	%Rec	Limits
alpha-BHC	0.178	0.200	89	36-122
beta-BHC	0.166	0.200	83	42-125
gamma-BHC (Lindane)	0.179	0.200	90	44-117
delta-BHC	0.191	0.200	96	48-123
Heptachlor	0.180	0.200	90	40-115
Aldrin	0.139	0.200	69	10-102
Heptachlor Epoxide	0.173	0.200	87	49-109
Endosulfan I	0.141	0.200	71	35-115
Dieldrin	0.173	0.200	86	50-115
4,4'-DDE	0.167	0.200	83	41-116
Endrin	0.180	0.200	90	48-126
Endosulfan II	0.154	0.200	77	28-128
4,4'-DDD	0.172	0.200	86	33-132
Endrin Aldehyde	0.157	0.200	78	27-104
Endosulfan Sulfate	0.169	0.200	84	38-118
4,4'-DDT	0.183	0.200	92	42-143
Methoxychlor	0.176	0.200	88	43-143

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

Page 1 of

SuperSet Reference: RR142927

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sndbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/13/2012

**Date Analyzed:** 06/15/2012

### Lab Control Spike/Duplicate Lab Control Spike Summary Organochlorine Pesticides

Extraction Method: EPA 3535A

**Analysis Method:** 

8081B

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206513

Lab Control Sample

KWG1206513-4

**Duplicate Lab Control Sample** 

KWG1206513-5

	Lab	Lab Control Spike Duplicate Lab Control Spike %Re			%Rec		RPD		
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Chlordane	2.22	2.00	111	1.91	2.00	96	45-148	15	30
Toxaphene	1,85	2.00	92	1.87	2.00	94	36-137	I	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded,

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Form 3C - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

## Polychlorinated Biphenyls (PCBs)

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 3535A

**Analysis Method:** 

8082A

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND	U	0.40	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND		0,20	l	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND	U	0.20	· l	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	

Surrogate Name	%Rec	Centrel Limits	Date Analyzed	Note	
Decachlorobiphenyl	111	36-113	06/17/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

### Polychlorinated Biphenyls (PCBs)

Sample Name:

D15

Lab Code:

K1205520-008

**Extraction Method:** EPA 3535A

Analysis Method:

8082A

Units: ug/L Basis: NA

Level: Low

	<b>75.</b> 1.	_	MATERIA	Dilution	Date	Date	Extraction	<b>W</b> 1 4
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Aroclor 1016	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND	U	0.40	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND		0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND		0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	

Comments:

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Form IA - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water

Service Request: K1205520 **Date Collected:** 06/07/2012

**Date Received:** 06/08/2012

## Polychlorinated Biphenyls (PCBs)

Sample Name:

MW-14b

Lab Code:

K1205520-009

**Extraction Method:** 

EPA 3535A

Analysis Method:

8082A

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0,20	I	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND	U	0.39	Ĭ	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND		0.20	l l	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND.	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	

Surrogate Name	%Rec	Centrel Limits	Date Analyzed	Note	
Decachlorobiphenyl	113	36-113	06/17/12	Acceptable	

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Wa

Water

Service Request: K1205520

Date Collected: NA
Date Received: NA

### Polychlorinated Biphenyls (PCBs)

Sample Name:

Method Blank

Lab Code:

KWG1206512-4

**Extraction Method:** 

EPA 3535A

Analysis Method:

8082A

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
ND	U	0.39	1	06/13/12	06/17/12	KWG1206512	
ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
		0.20	1	06/13/12	06/17/12	KWG1206512	
ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
ND	U	0,20	1	06/13/12	06/17/12	KWG1206512	
ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
	ND ND ND ND ND ND	Result Q  ND U  ND U	ND U 0.20 ND U 0.39 ND U 0.20 ND U 0.20 ND U 0.20 ND U 0.20 ND U 0.20 ND U 0.20	ND U 0.20 I ND U 0.39 I ND U 0.20 I	ND U 0.20 I 06/13/12 ND U 0.39 I 06/13/12 ND U 0.20 I 06/13/12	ND U 0.20 1 06/13/12 06/17/12 ND U 0.39 1 06/13/12 06/17/12 ND U 0.20 1 06/13/12 06/17/12	ND U 0.20 I 06/13/12 06/17/12 KWG1206512 ND U 0.39 I 06/13/12 06/17/12 KWG1206512 ND U 0.20 I 06/13/12 06/17/12 KWG1206512

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	101	36-113	06/17/12	Acceptable

Comments:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Surrogate Recovery Summary** Polychlorinated Biphenyls (PCBs)

**Extraction Method:** 

EPA 3535A

Analysis Method:

8082A

Units: PERCENT

Service Request: K1205520

Level: Low

Sample Name	Lab Code	<u>Sur1</u>
Batch QC	K1205452-001	105
MW-15	K1205520-007	111
D15	K1205520-008	104
MW-14b	K1205520-009	113
Method Blank	KWG1206512-4	101
Batch QCMS	KWG1206512-1	98
Batch QCDMS	KWG1206512-2	102
Lab Control Sample	KWG1206512-3	91

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl

36-113

Results flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

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Form 2A - Organic

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

ND

1.86

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/13/2012

**Date Analyzed:** 06/17/2012

Matrix Spike/Duplicate Matrix Spike Summary Polychlorinated Biphenyls (PCBs)

Sample Name:

Batch QC

Lab Code:

Aroclor 1260

K1205452-001

**Extraction Method:** 

EPA 3535A

**Analysis Method:** 

8082A

Units: ug/L

Basis: NA

Level: Low

47-115

Extraction Lot: KWG1206512

89

6

30

		KV	Batch QCMS Batch QCMS KWG1206512-1 KWG1206512-1 Batch QCMS WG120 Matrix Spike Duplicate M:				2					
Analyte Name	Sample Result	Result	Expected	%Rec	Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit		
Aroclor 1016	ND	1.85	1.96	94	1.72	1.96	88	31-118	7	30		

95

1.75

1.96

1.96

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial Project:

Sample Matrix:

Water

Service Request: K1205520

**Date Extracted:** 06/13/2012 **Date Analyzed:** 06/17/2012

Lab Control Spike Summary Polychlorinated Biphenyls (PCBs)

**Extraction Method: Analysis Method:** 

EPA 3535A

8082A

Units: ug/L

Basis: NA

Level: Low Extraction Lot: KWG1206512

Lab Control Sample KWG1206512-3

	Lao	<b>Lao</b> Сопетов Spike			
Analyte Name	Result	Expected	%Rec	Limits	
Aroclor 1016	1.67	2,00	83	41-113	
Aroclor 1260	1.74	2.00	87	47-117	

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

Organophosphorus Pesticides

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 3535A

Analysis Method:

8141B

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Phorate	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND U	0.98	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
ributyl Phosphate	100	54-115	06/24/12	Acceptable
riphenyl Phosphate	86	57-112	06/24/12	Acceptable

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# Organophosphorus Pesticides

Sample Name:

D15

Lab Code:

K1205520-008

**Extraction Method:** 

EPA 3535A

Analysis Method:

8141B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Datc Analyzed	Extraction Lot	Note
Phorate	ND U	0.50	1	06/13/12	06/24/12	KWG1206535	-
Sulfotep	ND U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND U	0.99	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND U	0.50	Ì	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND U	0.50	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND U	0.50	1	06/13/12	06/24/12	KWG1206535	1,1,1,1,1,1,1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	99	54-115	06/24/12	Acceptable
Triphenyl Phosphate	93	57-112	06/24/12	Acceptable

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/07/2012 **Date Received:** 06/08/2012

## Organophosphorus Pesticides

Sample Name:

MW-14b

Lab Code:

K1205520-009

**Extraction Method:** 

EPA 3535A

**Analysis Method:** 

8141B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phorate	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfotou	ND U	0.98	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	,

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
butyl Phosphate	105	54-115	06/24/12	Acceptable
Triphenyl Phosphate	96	57-112	06/24/12	Acceptable

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

uest: K120552

Date Collected: NA
Date Received: NA

### Organophosphorus Pesticides

Sample Name: Lab Code: Method Blank

KWG1206535-6

EPA 3535A

Extraction Method: Analysis Method:

8141B

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Phorate	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND U	0.20	I	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND U	0.98	Ĭ.	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND U	0.49	l	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate Triphenyl Phosphate	104	54-115	06/24/12	Acceptable
	86	57-112	06/24/12	Acceptable

Comments:

Now part of the ALS Group QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Surrogate Recovery Summary Organophosphorus Pesticides

**Extraction Method:** 

EPA 3535A

Analysis Method:

8141B

Service Request: K1205520

Units: PERCENT

Level: Low

Sample Name	Lab Code	<u>Sur1</u>	Sur2
Batch QC	K1205452-001	107	95
MW-15	K1205520-007	100	86
D15	K1205520-008	99	93
MW-14b	K1205520-009	105	96
Method Blank	KWG1206535-6	104	86
Batch QCMS	KWG1206535-1	102	85
Batch QCDMS	KWG1206535-2	98	89
Lab Control Sample	KWG1206535-3	98	81
Lab Control Sample	KWG1206535-4	102	86
Duplicate Lab Coutrol Sample	KWG1206535-5	100	88

Surrogate Recovery Control Limits (%)

54-115 Sur1 = Tributyl Phosphate 57-112 Sur2 = Triphenyl Phosphate

Results flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

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SuperSet Reference: RR143050 1 of 1

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 Date Extracted: 06/13/2012

**Date Analyzed:** 06/24/2012

### Matrix Spike/Duplicate Matrix Spike Summary Organophosphorus Pesticides

Sample Name:

Batch QC

Lab Code:

K1205452-001

Extraction Method: Analysis Method:

EPA 3535A

8141B

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206535

Batch QCMS

Batch QCDMS

KWG1206535-1

KWG1206535-2

	Sample	Matrix Spike			Duplicate Matrix Spike			%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits R	RPD	) Limit
Sulfotep	ND	1.65	1.98 1.98	83 116	1.65 2.21	1.96 1.96	84 113	40-111 44-127	0	30 30
Methyl Parathion Ethyl Parathion	ND ND	2.31 1.91	1.98	96	1.90	1.96	97	46-127	Ö	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/13/2012

**Date Analyzed:** 06/24/2012

Lab Control Spike Summary Organophosphorus Pesticides

Extraction Method: EPA 3535A

**Analysis Method:** 

8141B

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206535

Lab Control Sample KWG1206535-3

Analyte Name	Lab	Lab Control Spike					
	Result	Expected	%Rec	Limits		 	
Sulfotep	1.57	2.00	78	40-111			
Methyl Parathion	2.16	2.00	108	44-127			
Ethyl Parathion	1.74	2.00	87	46-127			

Results flagged with au asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded,

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Extracted:** 06/13/2012

Datc Analyzed: 06/24/2012 -

06/26/2012

Lab Control Spike/Duplicate Lab Control Spike Summary Organophosphorus Pesticides

Extraction Method:

EPA 3535A

**Analysis Method:** 

8141B

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206535

Lab Control Sample

KWG1206535-4

**Duplicate Lab Control Sample** 

KWG1206535-5

Duplicate Lab Control Spike Lab Control Spike %Rec RPD RPD Limit Limits %Rec %Rec Expected Result Expected Result Analyte Name 30 29-128 4 1.97 2.00 98 2.05 102 2.00 Phorate 7 30 104 33-119 2.09 2.00 2.24 2.00 112 Disulfoton 30 2.00 100 35-132 5 2.00 95 2.00 1.90 Dimethoate

Results flagged with au asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Result Q

ND U

ND U

ND U

ND U

75

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

Units: ug/L

KWG1206627

KWG1206627

KWG1206627

Basis: NA

## **Chlorinated Herbicides**

Sample Name:

MW-15

Lab Code:

Analyte Name

2,4,5-TP (Silvex)

2,4-D

2,4,5-T

Dinoseb

K1205520-007

**Extraction Method:** 

**METHOD** 

8151A **Analysis Method:** 

2,4-Dichlorophenylacetic Acid

			]	Level: Low				
MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note			
0.42	1	06/13/12	06/22/12	KWG1206627				

06/22/12

06/22/12

06/22/12

06/22/12

06/13/12

06/13/12

06/13/12

06/13/12

1

1

1

Acceptable

		Control	Date	
Surrogate Name	%Rec	Limits	Analyzed	Note

06/22/12

0.42

0.21

0.21

0.21

17-113

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

### **Chlorinated Herbicides**

Sample Name:

D15

Lab Code:

K1205520-008

**Extraction Method:** 

**METHOD** 

Analysis Method:

8151A

Units: ug/L

Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND U	0.40	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND U	0.20	l	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	71	17-113	06/22/12	Acceptable

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sndbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/07/2012 **Date Received:** 06/08/2012

### **Chlorinated Herbicides**

Sample Name:

MW-14b

Lab Code:

K1205520-009

**Extraction Method:** 

**METHOD** 

Analysis Method:

8151A

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2.4-D	ND U	0.40	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND U	0.20	7	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND U	0.20	Ì	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	73	17-113	06/22/12	Acceptable

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

Date Collected: NA Date Received: NA

### **Chlorinated Herbicides**

Sample Name:

Method Blank

Lah Code:

KWG1206627-6

**Extraction Method:** 

**METHOD** 

Analysis Method:

8151A

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND U	0.39	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	***************************************

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
2,4-Dichlorophenylacetic Acid	69	17-113	06/22/12	Acceptable	

Comments:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Surrogate Recovery Summary Chlorinated Herbicides** 

**Extraction Method:** 

**METHOD** 

Analysis Method:

8151A

Service Request: K1205520

Units: PERCENT

Level: Low

Sample Name	Lab Code	<u>Sur1</u>
Batch QC	K1205452-001	71
MW-15	K1205520-007	75
D15	K1205520-008	71
MW-14b	K1205520-009	73
Batch QC	K1205521-001	74
Method Blank	KWG1206627-6	69
Batch QCMS	KWG1206627-1	68
Batch QCDMS	KWG1206627-2	66
Batch QCMS	KWG1206627-3	75
Batch QCDMS	KWG1206627-4	81
Lab Control Sample	KWG1206627-5	82

Surrogate Recovery Control Limits (%)

Sur1 = 2,4-Dichlorophenylacetic Acid

17-113

Results flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

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Form 2A - Organic

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water

Service Request: K1205520 Date Extracted: 06/13/2012

**Date Analyzed:** 06/22/2012

### Matrix Spike/Duplicate Matrix Spike Summary Chlorinated Herbicides

Sample Name:

Batch QC

Lab Code:

K1205521-001

Extraction Method: Analysis Method:

METHOD

8151A

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206627

Batch QCMS Batch QCDMS KWG1206627-1 KWG1206627-2

Analyte Name	Sample	Matrix Spike			Duplic	Duplicate Matrix Spike				RPD
	Result	Result	Expected	%Rec	Result	Expected	%Rec	%Rec Limits		Limit
2,4-D	ND	1.56	2.53	62	1.45	2.45	59	41-108	7	30
2,4,5-TP (Silvex)	ND	1.71	2.53	68	1.61	2.45	66	44-108	6	30
2,4,5-T	ND	1.70	2.53	67	1.58	2.45	65	31-106	7	30
Dinoseb	ND	1.40	2.53	55	1.35	2.45	55	44-81	3	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/13/2012

**Date Analyzed:** 06/22/2012

### Matrix Spike/Duplicate Matrix Spike Summary **Chlorinated Herbicides**

Sample Name:

Batch QC

Lab Code:

Project:

K1205452-001

Extraction Method: Analysis Method:

**METHOD** 8151A

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206627

Batch QCMS Batch QCDMS KWG1206627-3 KWG1206627-4

	Sample	Matrix Spike			Duplicate Matrix Spike			%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
2,4-D	ND	1.57	2.43	65	1.64	2.40	68	41-108	4	30
2,4,5-TP (Silvex)	ND	1.72	2.43	71	1.79	2.40	75	44-108	5	30
2,4,5-T	ND	1.70	2.43	70	1.77	2.40	74	31-106	4	30
Dinoseb	ND	1.18	2.43	49	1.54	2.40	64	44-81	26	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

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Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial Project:

Water Sample Matrix:

Service Request: K1205520 **Date Extracted:** 06/13/2012

**Date Analyzed:** 06/22/2012

Lab Control Spike Summary Chlorinated Herbicides

Units: ug/L Extraction Method: METHOD Basis: NA Analysis Method: 8151A

Level: Low

Extraction Lot: KWG1206627

Lab Control Sample KWG1206627-5 Lah Control Snike

	Lau	Control Spike	C	%Rec		
Analyte Name	Result	Expected	%Rec	Limits		
2,4-D	1.68	2,50	67	35-110		
2,4,5-TP (Silvex)	1.79	2.50	71	37-114		
2,4,5-T	1.80	2.50	72	30-120		
Dinoseb	1.42	2.50	57	11-105		

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services

Project: City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water

Service Request: K1205520 Date Collected: 06/06/2012 Date Received: 06/08/2012

Units: ug/L

Basis: NA Level: Low

### Volatile Organic Compounds

Sample Name:

Camp

Lab Code:

K1205520-001

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Analyte Name	Result	0	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	Ŭ	0.50	1	06/18/12	06/18/12	KWG1206609	***************************************
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	Control
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethenc	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND		20	1 .	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
I,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	I	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	0.86		0.50	1	06/18/12	06/18/12	KWG1206609	

Co	m	ner	ıts	:

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Form 1A - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Service Request:** K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

## Volatile Organic Compounds

Sample Name:

Camp

Lab Code:

K1205520-001

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

		_		Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	and a second
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromoflnorobenzene	78	68-117	06/18/12	Acceptable

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 Date Collected: 06/06/2012

**Date Received:** 06/08/2012

### Volatile Organie Compounds

Sample Name:

C2

Lab Code:

K1205520-002

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	,,
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butauone (MEK)	ND		20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND		0,50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	I	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND		20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND		0.50	I	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	0.81		0.50	1	06/18/12	06/18/12	KWG1206609	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: W

Water

**Service Request:** K1205520 **Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

## Volatile Organic Compounds

Sample Name:

C2

Lab Code:

K1205520-002

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND U	20	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzeue	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	•
o-Xylene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND U	0.50	]	06/18/12	06/18/12	KWG1206609	
Bromoform	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1.2-Dichlorobenzene	ND U	0,50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	79	73-122	06/18/12	Acceptable	
Toluene-d8	89	65-144	06/18/12	Acceptable	
4-Bromofluorobenzenc	77	68-117	06/18/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services

Project: City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water

**Date Collected:** K1205520 **Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

## **Volatile Organic Compounds**

Sample Name:SchmidtUnits:ug/LLab Code:K1205520-003Basis:NAExtraction Method:EPA 5030BLevel:Low

Analysis Method: 8260C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0,50	1.	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
l,l-Dichloroethene	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1.	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND		20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	<u> </u>	06/18/12	06/18/12	KWG1206609	
Chloroform	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	I	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	I	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	Provide	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND		20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND		0.50	l	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	_	0,50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	

Comments:

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Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water Service Request: K1205520 **Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name: Lab Code:

Schmidt

K1205520-003

**Extraction Method:** 

EPA 5030B

Units: ug/L Basis: NA

Level: Low

Analysis Method: 8260C

			Dilution	Date	Date	Extraction	<b></b>
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND U	20	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	······································
Ethylbenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND U	0.50	I	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND U	0,50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/18/12	06/18/12	KWG1206609	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1,2,3-Trichloropropane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	79	73-122	06/18/12	Acceptable	
Toluene-d8	89	65-144	06/18/12	Acceptable	
4-Bromofluorobenzene	79	68-117	06/18/12	Acceptable	

Comments:

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Form 1A - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

## Volatile Organic Compounds

Sample Name:

Small

Lab Code:

K1205520-004

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	Assessment Autoritit
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0,50	I	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	I	06/18/12	06/18/12	KWG1206609	
Trichloroetheue (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	I	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	1.4		0.50	1	06/18/12	06/18/12	KWG1206609	and the state of t

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Form 1A - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

## Volatile Organic Compounds

Sample Name:

Small

Lab Code:

K1205520-004

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1.	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	Ì	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10 -	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	80	73-122	06/18/12	Acceptable	
Toluene-d8	90	65-144	06/18/12	Acceptable	
4-Bromofluorobenzene	78	68-117	06/18/12	Acceptable	

Comments:

Merged

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

Date Received: 06/08/2012

# Volatile Organic Compounds

Sample Name:

Kinman

Lab Code:

K1205520-005

Extraction Method:

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethaue	ND	U	0.50	1.	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	l	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	I.	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1.1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	,

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Service Request:** K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

#### Volatile Organic Compounds

Sample Name:

Kinman

Lab Code:

K1205520-005

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND U	20	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND U	2.0	l	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND U	0.50	I	06/18/12	06/18/12	KWG1206609	
Bromoform	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/18/12	06/18/12	KWG1206609	. *
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND U	IO	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1.2-Dichlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	80	73-122	06/18/12	Acceptable	
Toluene-d8	89	65-144	06/18/12	Acceptable	
4-Bromofluorobenzene	76	68-117	06/18/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

Units: ug/L Basis: NA

Level: Low

# **Volatile Organic Compounds**

Sample Name:

MW-19

Lab Code:

K1205520-006

Extraction Method:

EPA 5030B

Analysis Method: 8260C								
Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	1.4		0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0,50	I	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	A
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1.1-Dichloroethane	0.92		0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	9.0		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	0.52		0.50	I	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	1.3		0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	1.8		0.50	1	06/18/12	06/18/12	KWG1206609	
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Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-19

Lab Code:

K1205520-006

**Extraction Method:** Analysis Method:

EPA 5030B

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND U	20	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND U	0.50	l	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND U	0.50	I	06/18/12	06/18/12	KWG1206609	
Bromoform	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	81	73-122	06/18/12	Acceptable	
Toluene-d8	89	65-144	06/18/12	Acceptable	
4-Bromofluorobenzene	77	68-117	06/18/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# **Volatile Organic Compounds**

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	2.8		0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	I	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	0.67		0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	0.63		0.50	1	06/18/12	06/18/12	KWG1206609	
Acrolein	ND	U	20	l	06/18/12	06/18/12	KWG1206609	
I,I-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	Commitment of Albert and College College
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
3-Chloro-1-propene	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Acetonitrile	ND	U	50	1	06/18/12	06/18/12	KWG1206609	
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	3.1		0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Chloroprene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
2,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,2-Dichloroethene	9.1		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	l	06/18/12	06/18/12	KWG1206609	
Propionitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Methacrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1, I-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Isobutyl Alcohol	ND	U	100	1	06/18/12	06/18/12	KWG1206609	*
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	1.6		0.50	1	06/18/12	06/18/12	KWG1206609	

Comments:
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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
1,2-Dichloropropane	ND	Ü	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Methyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	I	06/18/12	06/18/12	KWG1206609	
Toluene	0,59		0,50	l	06/18/12	06/18/12	KWG1206609	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	5.0		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Hexanone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	A
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*
1,2,4-Trichlorobenzene	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	

*	See	Case	Narrative	
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Comr	nents:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 Date Collected: 06/06/2012

**Date Received:** 06/08/2012

Volatile Organic Compounds

Sample Name:

MW-15

Lab Code:

K1205520-007

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	82	73-122	06/18/12	Acceptable
Toluene-d8	88	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	78	68-117	06/18/12	Acceptable

Comments:

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Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial Project:

Water Sample Matrix:

Service Request: K1205520 **Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

> Units: ng/L Basis: NA

Level: Low

# Volatile Organic Compounds

Sample Name:

D15

Lab Code:

K1205520-008

Extraction Method:

EPA 5030B

Name   Result   Q   MRL   Factor   Extracted   Canalyzed   Lot   Note	Analysis Method: 8260C							
Dichlorodifluoromethane	Analyte Name	Result Q	MRL		**			Note
Chloromethane		2.9	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride         0.62         0.50         1         06/18/12         KWG1206609           Bromomethane         ND U         0.50         1         06/18/12         06/18/12         KWG1206609           Chloroethane         ND U         0.50         1         06/18/12         06/18/12         KWG1206609           Trichlorofluoromethane         0.65         0.50         1         06/18/12         06/18/12         KWG1206609           Acrolein         ND U         20         1         06/18/12         06/18/12         KWG1206609           1,1-Dichloroethene         ND U         20         1         06/18/12         06/18/12         KWG1206609           1,1-Dichloroethene         ND U         20         1         06/18/12         06/18/12         KWG1206609           Acetone         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Carbon Disulfide         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Acetone         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Carbon Disulfide         ND U         5.0         1         06/18/12         06						06/18/12	KWG1206609	
Chloroethane				1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	Bromomethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acrolein ND U 20 1 06/18/12 06/18/12 KWG1206609 1,1-Dichloroethene ND U 0.50 1 06/18/12 06/18/12 KWG1206609 Acetone ND U 20 1 06/18/12 06/18/12 KWG1206609 Iodomethane ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Carbon Disulfide ND U 0.50 1 06/18/12 06/18/12 KWG1206609 Carbon Disulfide ND U 5.0 1 06/18/12 06/18/12 KWG1206609 3-Chloro-1-propene ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Acetonitrile ND U 50 1 06/18/12 06/18/12 KWG1206609 Acetonitrile ND U 50 1 06/18/12 06/18/12 KWG1206609 Acetonitrile ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Acetylouitrile ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Acrylouitrile ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Acrylouitrile ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Itans-1,2-Dichloroethene ND U 0.50 1 06/18/12 06/18/12 KWG1206609 I,1-Dichloroethane 3.0 0.50 1 06/18/12 06/18/12 KWG1206609 I,1-Dichloroethane ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Chloroprene ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Vinyl Acetate ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Chloroprene ND U 0.50 1 06/18/12 KWG1206609 2,2-Dichloropropane ND U 0.50 1 06/18/12 06/18/12 KWG1206609	Chloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	Trichlorofluoromethane	0.65	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone         ND U         20         1         06/18/12         06/18/12         KWG1206609           Iodomethane         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Carbon Disulfide         ND U         0.50         1         06/18/12         06/18/12         KWG1206609         *           3-Chloro-1-propene         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Acetonitrile         ND U         50         1         06/18/12         06/18/12         KWG1206609           Methylene Chloride         ND U         2.0         1         06/18/12         06/18/12         KWG1206609           Acrylouitrile         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           4 crylouitrile         ND U         0.50         1         06/18/12         06/18/12         KWG1206609           4 crylouitrile         ND U         0.50         1         06/18/12         06/18/12         KWG1206609           1,1-Dichloroethane         3.0         0.50         1         06/18/12         06/18/12         KWG1206609           Vinyl Acetate         ND U         10 <td< td=""><td>Acrolein</td><td>ND U</td><td></td><td>1</td><td></td><td></td><td></td><td></td></td<>	Acrolein	ND U		1				
Indomethane	1,1-Dichloroethene	ND U	0.50	1	06/18/12			
Carbon Disulfide	Acetone	ND U	20	1	06/18/12	06/18/12		
3-Chloro-1-propene         ND U         5.0         1         06/18/12 06/18/12 KWG1206609           Acetonitrile         ND U         50         1         06/18/12 06/18/12 KWG1206609           Methylene Chloride         ND U         2.0         1         06/18/12 06/18/12 KWG1206609           Acrylouitrile         ND U         5.0         1         06/18/12 06/18/12 KWG1206609           trans-1,2-Dichloroethene         ND U         0.50         1         06/18/12 06/18/12 KWG1206609           1,1-Dichloroethane         3.0         0.50         1         06/18/12 06/18/12 KWG1206609           Vinyl Acetate         ND U         5.0         1         06/18/12 06/18/12 KWG1206609           Chloroprene         ND U         10         1         06/18/12 06/18/12 KWG1206609           2,2-Dichloropropane         ND U         0.50         1         06/18/12 06/18/12 KWG1206609         *           cis-1,2-Dichloroethene         9.0         0.50         1         06/18/12 06/18/12 KWG1206609         *           2-Butanone (MEK)         ND U         20         1         06/18/12 06/18/12 KWG1206609         *           Methacrylonitrile         ND U         5.0         1         06/18/12 06/18/12 KWG1206609         *	lodomethane	ND U	5.0	l				
Acetonitrile         ND U         50         1         06/18/12         06/18/12         KWG1206609           Methylene Chloride         ND U         2.0         1         06/18/12         06/18/12         KWG1206609           Acrylouitrile         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           trans-1,2-Dichloroethene         ND U         0.50         1         06/18/12         06/18/12         KWG1206609           1,1-Dichloroethane         3.0         0.50         1         06/18/12         06/18/12         KWG1206609           Vinyl Acetate         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Chloroprene         ND U         10         1         06/18/12         06/18/12         KWG1206609           2,2-Dichloropropane         ND U         0.50         1         06/18/12         06/18/12         KWG1206609           2-Butanone (MEK)         ND U         20         1         06/18/12         06/18/12         KWG1206609           Propionitrile         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Methacrylonitrile         ND U         5.0 <td< td=""><td>Carbon Disulfide</td><td>ND U</td><td>0.50</td><td>1</td><td>06/18/12</td><td>06/18/12</td><td></td><td>*</td></td<>	Carbon Disulfide	ND U	0.50	1	06/18/12	06/18/12		*
Methylene Chloride         ND U         2.0         1         06/18/12 06/18/12 06/18/12 KWG1206609           Acrylouitrile         ND U         5.0         1         06/18/12 06/18/12 KWG1206609           trans-1,2-Dichloroethene         ND U         0.50         1         06/18/12 06/18/12 KWG1206609           1,1-Dichloroethane         3.0         0.50         1         06/18/12 06/18/12 KWG1206609           Vinyl Acetate         ND U         5.0         1         06/18/12 06/18/12 KWG1206609           Chloroprene         ND U         10         1         06/18/12 06/18/12 KWG1206609           2,2-Dichloropropane         ND U         0.50         1         06/18/12 06/18/12 KWG1206609         *           cis-1,2-Dichloroethene         9.0         0.50         1         06/18/12 06/18/12 KWG1206609         *           2-Butanone (MEK)         ND U         20         1         06/18/12 06/18/12 KWG1206609         KWG1206609           Propionitrile         ND U         5.0         1         06/18/12 06/18/12 KWG1206609         KWG1206609           Methacrylonitrile         ND U         5.0         1         06/18/12 06/18/12 KWG1206609         KWG1206609	3-Chloro-1-propene	ND U	5.0	1	06/18/12	06/18/12	KWG1206609	
Acrylouitrile         ND U         5.0         1         06/18/12         KWG1206609           trans-1,2-Dichloroethene         ND U         0.50         1         06/18/12         KWG1206609           1,1-Dichloroethane         3.0         0.50         1         06/18/12         KWG1206609           Vinyl Acetate         ND U         5.0         1         06/18/12         KWG1206609           Chloroprene         ND U         10         1         06/18/12         KWG1206609           2,2-Dichloropropane         ND U         0.50         1         06/18/12         KWG1206609           2,2-Dichloroethene         9.0         0.50         1         06/18/12         KWG1206609           2-Butanone (MEK)         ND U         20         1         06/18/12         KWG1206609           Propionitrile         ND U         5.0         1         06/18/12         KWG1206609           Methacrylonitrile         ND U         5.0         1         06/18/12         KWG1206609	Acetonitrile	ND U	50	1	06/18/12	06/18/12		
trans-1,2-Dichloroethene ND U 0.50 1 06/18/12 KWG1206609 1,1-Dichloroethane 3.0 0.50 1 06/18/12 06/18/12 KWG1206609 Vinyl Acetate ND U 5.0 1 06/18/12 06/18/12 KWG1206609 Chloroprene ND U 10 1 06/18/12 06/18/12 KWG1206609 2,2-Dichloropropane ND U 0.50 1 06/18/12 KWG1206609 2,2-Dichloroethene 9.0 0.50 1 06/18/12 KWG1206609 2-Butanone (MEK) ND U 20 1 06/18/12 KWG1206609 Propionitrile ND U 5.0 1 06/18/12 KWG1206609 Methacrylonitrile ND U 5.0 1 06/18/12 KWG1206609 Methacrylonitrile ND U 5.0 1 06/18/12 KWG1206609	Methylene Chloride		2.0	1				
1,1-Dichloroethane         3.0         0.50         1         06/18/12         KWG1206609           Vinyl Acetate         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Chloroprene         ND U         10         1         06/18/12         06/18/12         KWG1206609           2,2-Dichloropropane         ND U         0.50         1         06/18/12         06/18/12         KWG1206609           cis-1,2-Dichloroethene         9.0         0.50         1         06/18/12         06/18/12         KWG1206609           2-Butanone (MEK)         ND U         20         1         06/18/12         KWG1206609           Propionitrile         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Methacrylonitrile         ND U         5.0         1         06/18/12         06/18/12         KWG1206609	Acrylouitrile	ND U	5.0	1	06/18/12	06/18/12		
Vinyl Acetate         ND U         5.0         1         06/18/12         KWG1206609           Chloroprene         ND U         10         1         06/18/12         KWG1206609           2,2-Dichloropropane         ND U         0.50         1         06/18/12         KWG1206609           2,2-Dichlorocthene         9.0         0.50         1         06/18/12         KWG1206609           2-Butanone (MEK)         ND U         20         1         06/18/12         KWG1206609           Propionitrile         ND U         5.0         1         06/18/12         KWG1206609           Methacrylonitrile         ND U         5.0         1         06/18/12         KWG1206609	trans-1,2-Dichloroethene	ND U	0.50	1				
Chloroprene         ND U         10         1         06/18/12         KWG1206609           2,2-Dichloropropane         ND U         0.50         1         06/18/12         06/18/12         KWG1206609         *           cis-1,2-Dichlorocthene         9.0         0.50         1         06/18/12         06/18/12         KWG1206609         *           2-Butanone (MEK)         ND U         20         1         06/18/12         KWG1206609         *           Propionitrile         ND U         5.0         1         06/18/12         KWG1206609         *           Methacrylonitrile         ND U         5.0         1         06/18/12         KWG1206609         *	1,1-Dichloroethane			1				
2,2-Dichloropropane         ND U         0.50         1         06/18/12 06/18/12 06/18/12 KWG1206609         *           cis-1,2-Dichloroethene         9.0         0.50         1         06/18/12 06/18/12 KWG1206609         *           2-Butanone (MEK)         ND U         20         1         06/18/12 06/18/12 KWG1206609           Propionitrile         ND U         5.0         1         06/18/12 06/18/12 KWG1206609           Methacrylonitrile         ND U         5.0         1         06/18/12 06/18/12 KWG1206609	Vinyl Acetate	ND U	5.0	1	06/18/12	06/18/12		
cis-1,2-Dichloroethene         9.0         0.50         1         06/18/12         06/18/12         KWG1206609           2-Butanone (MEK)         ND U         20         1         06/18/12         KWG1206609           Propionitrile         ND U         5.0         1         06/18/12         KWG1206609           Methacrylonitrile         ND U         5.0         1         06/18/12         KWG1206609	Chloroprene							
2-Butanone (MEK) ND U 20 1 06/18/12 KWG1206609 Propionitrile ND U 5.0 1 06/18/12 KWG1206609 Methacrylonitrile ND U 5.0 1 06/18/12 KWG1206609	2,2-Dichloropropane							*
Propionitrile         ND U         5.0         1         06/18/12         06/18/12         KWG1206609           Methacrylonitrile         ND U         5.0         1         06/18/12         06/18/12         KWG1206609	cis-1,2-Dichloroethene	9.0	0.50	1				
Methacrylonitrile         ND U         5.0         1         06/18/12         KWG1206609	2-Butanone (MEK)	ND U	20	1				
Notified your first and the second se	Propionitrile			Ī				
Bromochloromethane ND II 0.50 I 06/18/12 06/18/12 KWG1206609	Methacrylonitrile	ND U	5.0	1	06/18/12		A	
B) Office of the control of the cont	Bromochloromethane	ND U	0.50	1	06/18/12	06/18/12		
Chloroform ND U 0.50 1 06/18/12 KWG1206609	Chloroform	ND U	0.50	1	06/18/12	06/18/12		
1,1,1-Trichloroethane (TCA) ND U 0.50 1 06/18/12 KWG1206609	1,1,1-Trichloroethane (TCA)	ND U	0.50	1	06/18/12	06/18/12		
Carbon Tetrachloride ND U 0.50 l 06/18/12 06/18/12 KWG1206609	Carbon Tetrachloride			1				
1,1-Dichloropropene ND U 0.50 1 06/18/12 KWG1206609	1,1-Dichloropropene							
Isobutyl Alcohol ND U 100 1 06/18/12 06/18/12 KWG1206609 *	Isobutyl Alcohol	ND U	100	1	06/18/12	06/18/12		*
Benzene ND U 0.50 1 06/18/12 06/18/12 KWG1206609	Benzene			1				
1,2-Dichloroethane (EDC) ND U 0.50 1 06/18/12 KWG1206609	1,2-Dichloroethane (EDC)							
Trichloroethene (TCE) 1.6 0.50 1 06/18/12 06/18/12 KWG1206609	Trichloroethene (TCE)	1.6	0.50	1	06/18/12	06/18/12	KWG1206609	

Comments:
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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012 Date Received: 06/08/2012

Units: ug/L

Basis: NA

Level: Low

# Volatile Organic Compounds

Sample Name:

D15

Lab Code:

K1205520-008

**Extraction Method:** Analysis Method:

EPA 5030B

8260C

Analyte Name	Result Q	MRL	Dilution Faetor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dichloropropane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Methyl Methacrylate	ND U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND U	20	l	06/18/12	06/18/12	KWG1206609	
Toluene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethyl Methacrylate	ND U	5.0	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	4.8	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Hexanone	ND U	20	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichloropropane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND U	0,50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND U	0.50	I	06/18/12	06/18/12	KWG1206609	
Bromoform	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND U	01	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND U	10	I	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND U	0.50	l	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	*
1,2,4-Trichlorobenzene	ND U	2.0	1	06/18/12	06/18/12	KWG1206609	

* !	See	Case	Narrative
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Comments:

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RR142822

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Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

**Date Received:** 06/08/2012

**Service Request:** K1205520 **Date Collected:** 06/06/2012

Sample Matrix:

Water

Volatile Organic Compounds

Sample Name:

D15

Lab Code:

K1205520-008

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	80	73-122	06/18/12	Acceptable	
Toluene-d8	89	65-144	06/18/12	Acceptable	
4-Bromofluorobenzene	77	68-117	06/18/12	Acceptable	

Comments:

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Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 Date Collected: 06/07/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-14b

Lab Code:

K1205520-009

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	0.56		0,50	1	06/19/12	06/19/12	KWG1206659	······································
Chloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Chloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Acrolein	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
1.1-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	*
Acetone	ND	U	20	henced	06/19/12	06/19/12	KWG1206659	
Iodomethane	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	*
Carbon Disulfide	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
3-Chloro-1-propene	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Acetonitrile	ND	U	50	1	06/19/12	06/19/12	KWG1206659	*
Methylene Chloride	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Acrylonitrile	ND	U	5.0	I	06/19/12	06/19/12	KWG1206659	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1.1-Dichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Acetate	ND	U	5.0	Parent	06/19/12	06/19/12	KWG1206659	
Chloroprene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
2,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Propionitrile	ND	Ŭ	5.0	i	06/19/12	06/19/12	KWG1206659	
Methacrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Bromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroform	1.1		0.50	1	06/19/12	06/19/12	KWG1206659	
I, I, I-Trichloroethane (TCA)	ND	U	0.50	1.	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride	ND	U	0.50	1.	06/19/12	06/19/12	KWG1206659	
1,1-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Isobutyl Alcohol	ND	U	100	1	06/19/12	06/19/12	KWG1206659	*
Benzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloroethane (EDC)	ND	U	0.50	I	06/19/12	06/19/12	KWG1206659	
Trichloroethene (TCE)	ND	U	0.50	I	06/19/12	06/19/12	KWG1206659	Committee of the Committee of the Committee

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/07/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-14b

Lab Code:

K1205520-009

**Extraction Method:** 

Analyte Name

EPA 5030B

Analysis Method:

1,2-Dichloropropane

Methyl Methacrylate

Bromodichloromethane

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

Ethyl Methacrylate

1,1,2-Trichloroethane

1,3-Dichloropropane

Dibromochloromethane

1.2-Dibromoethane (EDB)

1.1.1.2-Tetrachloroethane

Tetrachloroethene (PCE)

4-Methyl-2-pentanone (MIBK)

Dibromomethane

Toluene

2-Hexanone

Chlorobenzene

Ethylbenzene

m,p-Xylenes

o-Xvlene

Styrene

8260C

Units: ug/L Basis: NA Level: Low

Extraction Dilution Date Date Factor Lot Result O MRL Extracted Analyzed Note KWG1206659 06/19/12 06/19/12 0.50 1 ND U KWG1206659 ND U 0.50 1 06/19/12 06/19/12 KWG1206659 5.0 Ì 06/19/12 06/19/12 ND U KWG1206659 L ND U 0.50 06/19/12 06/19/12 KWG1206659 ND U 0.501 06/19/12 06/19/12 ND U 20 1 06/19/12 06/19/12 KWG1206659 KWG1206659 ND U 1 06/19/12 0.50 06/19/12 KWG1206659 0.50 1 06/19/12 06/19/12 ND U KWG1206659 1 06/19/12 06/19/12 ND U 5.0 KWG1206659 1 06/19/12 ND U 0.50 06/19/12 KWG1206659 0.50 1 06/19/12 06/19/12 0.67 KWG1206659 ND U 20 1 06/19/12 06/19/12 KWG1206659 ND U 0.50 7 06/19/12 06/19/12 06/19/12 06/19/12 KWG1206659 ND U 0.50 1 KWG1206659 1 06/19/12 06/19/12 ND U 2.0 1 06/19/12 06/19/12 KWG1206659 ND U 0.50 KWG1206659 06/19/12 ND U 0.50 1 06/19/12 KWG1206659 1 06/19/12 06/19/12 ND U 0.50KWG1206659 1 06/19/12 0.50 06/19/12 ND U

1

1

06/19/12

06/19/12

06/19/12

06/19/12

divienc	110	0.50	•	0 0, 1,, 1	· - · - · - ·	
Bromoform	ND U	0.50	1	06/19/12	06/19/12	KWG1206659
cis-1,4-Dichloro-2-butene	ND U	10	1.	06/19/12	06/19/12	KWG1206659
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659
trans-1,4-Dichloro-2-butene	ND U	10	1	06/19/12	06/19/12	KWG1206659
1,2,3-Trichloropropane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659
1,3-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659
1,4-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659
1.2-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/19/12	06/19/12	KWG1206659
1,2,4-Trichlorobenzene	ND U	2.0	1	06/19/12	06/19/12	KWG1206659

0.50

0.50

Comments:
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KWG1206659

KWG1206659

SuperSet Reference:

RR142822

ND U

ND U

<sup>\*</sup> See Case Narrative

# COLUMBIA ANALYTICAL SERVICES, INC. Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520 **Date Collected:** 06/07/2012

**Date Received:** 06/08/2012

Volatile Organic Compounds

Sample Name:

MW-14b

Lab Code:

K1205520-009

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	06/19/12	Acceptable
Toluene-d8	100	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	88	68-117	06/19/12	Acceptable

Comments:

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Merged

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water Service Request: K1205520

Date Collected: 06/07/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-18

Lab Code:

K1205520-010

Extraction Method:

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

		Dilution	Date	Date	Extraction	
Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
0.58	0.50	***	06/19/12	06/19/12	KWG1206659	
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
0.93	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	0,50	I	06/19/12	06/19/12	KWG1206659	*
ND U	20	1	06/19/12	06/19/12	KWG1206659	
ND U	5.0	l	06/19/12	06/19/12	KWG1206659	*
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	2.0	1	06/19/12	06/19/12	KWG1206659	
ND U	5.0	1	06/19/12	06/19/12	KWG1206659	
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	-
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	5.0	1	06/19/12	06/19/12	KWG1206659	
ND U	0,50	I	06/19/12	06/19/12	KWG1206659	
ND U	20	1	06/19/12	06/19/12		
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
0.68	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	0.50	1				
ND U	0.50	1	06/19/12	06/19/12		
ND U	0.50	l	06/19/12	06/19/12		
ND U	0.50	1				
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	***************************************
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	0.50	1	06/19/12	06/19/12		
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	0.50	l	06/19/12	06/19/12	KWG1206659	
ND U	20	1	06/19/12	06/19/12		
ND U	0,50	1	06/19/12	06/19/12	KWG1206659	
ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
ND U	0.50	1	06/19/12	06/19/12		
1.0	0.50	1	06/19/12	06/19/12	KWG1206659	
	0.58 ND U	0.58       0.50         ND U       20         ND U       20         ND U       2.0         ND U       2.0         ND U       2.0         ND U       0.50         ND U	Result Q         MRL         Factor           0.58         0.50         1           ND U         20         1           ND U         20         1           ND U         5.0         1           ND U         0.50         1	Result Q         MRL         Factor         Extracted           0.58         0.50         1         06/19/12           ND U         2.0         1         06/19/12           ND U         0.50         1         06/19/12	Result Q         MRL         Factor         Extracted         Analyzed           0.58         0.50         1         06/19/12         06/19/12           ND U         0.50         1         06/19/12         06/19/12           ND U         0.50         1         06/19/12         06/19/12           ND U         0.50         1         06/19/12         06/19/12           0.93         0.50         1         06/19/12         06/19/12           ND U         0.50         1         06/19/12         06/19/12           ND U	Result Q   MRL

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Service Request:** K1205520 **Date Collected:** 06/07/2012

**Date Collected:** 06/07/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-18

Lab Code:

K1205520-010

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND U	20	1	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	,,,,,,
Ethylbenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
nı,p-Xylenes	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	,,,,
o-Xylene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	06/19/12	Acceptable
Toluene-d8	99	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	89	68-117	06/19/12	Acceptable

Comments:

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services

Project: City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water Service Request: K1205520 **Date Collected:** 06/07/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Units: ug/L Sample Name: MW-23 Basis: NA Lab Code: K1205520-011 Level: Low **Extraction Method:** EPA 5030B

Analysis Method: 8260C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	1,0		0.50	1	06/19/12	06/19/12	KWG1206659	
Chloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Chloride	ND	U	0.50	I	06/19/12	06/19/12	KWG1206659	
Bromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	*
Acetone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Iodomethane	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	*
Carbon Disulfide	ND	U	0.50	l	06/19/12	06/19/12	KWG1206659	
Methylene Chloride	ND		2.0	1	06/19/12	06/19/12	KWG1206659	
Acrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Acetate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	ND		20	1	06/19/12	06/19/12	KWG1206659	
Bromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroform	0.66		0.50	l	06/19/12	06/19/12	KWG1206659	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Benzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichloroethene (TCE)	0.63		0,50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromodichloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Toluene	ND	U	0.50	I	06/19/12	06/19/12	KWG1206659	A.
trans-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,2-Trichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Tetrachloroethene (PCE)	0.85	·//	0.50	1	06/19/12	06/19/12	KWG1206659	and a second of the second of

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520 Date Collected: 06/07/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-23

Lab Code:

K1205520-011

**Extraction Method:** 

EPA 5030B

Units: ug/L Basis: NA

Level: Low

Analysis Method:

8260C

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND U	20	1	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethylbenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
m,p-Xylenes	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND U	0.50	I	06/19/12	06/19/12	KWG1206659	
Bromoform	ND U	0,50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND U		1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND U	10	].	06/19/12	06/19/12	KWG1206659	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1,2,3-Trichloropropane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND U	0,50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND U		1.	06/19/12	06/19/12	KWG1206659	

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromoflnoromethane	98	73-122	06/19/12	Acceptable
Toluene-d8	101	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	87	68-117	06/19/12	Acceptable

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

Date Collected: 06/07/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-24

Lab Code:

K1205520-012

Extraction Method:

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name         Result Q         MRL         Factor         Extracted         Analyzed         Lot         Note           Dichlorodifluoromethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Chloromethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Vinyl Chloride         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Chloroethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Trichlorofluoromethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Trichlorofluoromethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,1-Dichloroethane         ND U         2.0         1         06/19/12         06/19/12         KWG1206659           1,1-Dichloroethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Actylanifide         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Actylanifide         ND					Dilution	Date	Date	Extraction	
Chioromethane	Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	Dichlorodifluoromethane	ND	U	0.50	1	06/19/12	06/19/12		-
Bromomethane	Chloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	Vinyl Chloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	Bromomethane	ND	U	0.50	l	06/19/12			
1,1-Dichloroethene	Chloroethane	ND	U		1				
Acetone	Trichlorofluoromethane	ND	U	0.50	1.	06/19/12	06/19/12	KWG1206659	
Carbon Disulfide	1,1-Dichloroethene	ND	U	0,50	1	06/19/12			*
Carbon Disulfide         ND U         0.50         1         06/19/12         KWG1206659           Methylene Chloride         ND U         2.0         1         06/19/12         06/19/12         KWG1206659           Acrylonitrile         ND U         5.0         1         06/19/12         06/19/12         KWG1206659           trans-1,2-Dichloroethene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,1-Dichloroethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           2-Butanone (MEK)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           2-Butanone (MEK)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           2-Butanone (MEK)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           2-Butanone (MEK)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           2-Butanone (MEK)         ND U         0.50         1	Acetone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Methylene Chloride         ND U         2.0         1         06/19/12 06/19/12 06/19/12 KWG1206659           Acrylonitrile         ND U         5.0         1         06/19/12 06/19/12 WKG1206659           trans-1,2-Dichloroethene         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Bromochloromethane         ND U         0.50         1	Iodomethane	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	*
Acrylonitrile         ND U         5.0         1         06/19/12 06/19/12 06/19/12 WGG1206659           trans-1,2-Dichloroethene         ND U         0.50         1         06/19/12 06/19/12 WGG1206659           1,1-Dichloroethane         ND U         0.50         1         06/19/12 06/19/12 WGG1206659           Vinyl Acetate         ND U         5.0         1         06/19/12 06/19/12 WGG1206659           Vinyl Acetate         ND U         0.50         1         06/19/12 06/19/12 WGG1206659           cis-1,2-Dichloroethene         ND U         0.50         1         06/19/12 06/19/12 WGG1206659           2-Butanone (MEK)         ND U         20         1         06/19/12 06/19/12 WGG1206659           2-Butanone (MEK)         ND U         0.50         1         06/19/12 06/19/12 WGG1206659           Bromochloromethane         ND U         0.50         1         06/19/12 06/19/12 WGG1206659           Chloroform         0.76         0.50         1         06/19/12 06/19/12 WGG1206659           1,1,1-Trichloroethane (TCA)         ND U         0.50         1         06/19/12 06/19/12 WGG1206659           Benzene         ND U         0.50         1         06/19/12 06/19/12 WGG1206659           1,2-Dichloroethane (EDC)         ND U         0.50<	Carbon Disulfide	ND	U	0.50	l	06/19/12	06/19/12		
No.   No.	Methylene Chloride	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethane	Acrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethane	trans-1,2-Dichloroethene	ND	U	0,50	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene         ND U         0.50         1         06/19/12 06/19/12 06/19/12 KWG1206659           2-Butanone (MEK)         ND U         20         1         06/19/12 06/19/12 06/19/12 KWG1206659           Bromochloromethane         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Chloroform         0.76         0.50         1         06/19/12 06/19/12 KWG1206659           Chloroform         0.76         0.50         1         06/19/12 06/19/12 KWG1206659           Carbon Tetrachloride         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Carbon Tetrachloride         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Benzene         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           1,2-Dichloroethane (EDC)         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Trichloroethene (TCE)         0.70         0.50         1         06/19/12 06/19/12 KWG1206659           1,2-Dichloropropane         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           Bromodichloronuethane         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           cis-1,3-Dichloropropene         ND U </td <td>· ·</td> <td>ND</td> <td>U</td> <td>0.50</td> <td>1</td> <td>06/19/12</td> <td>06/19/12</td> <td>KWG1206659</td> <td></td>	· ·	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	Vinyl Acetate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Description	cis-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12		
Chloroform         0.76         0.50         1         06/19/12         06/19/12         KWG1206659           1,1,1-Trichloroethane (TCA)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Carbon Tetrachloride         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Benzene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,2-Dichloroethane (EDC)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Trichloroethene (TCE)         0.70         0.50         1         06/19/12         06/19/12         KWG1206659           1,2-Dichloropropane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,2-Dichloropropane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Bromodichlororuethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           cis-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           4-Methyl-2-pentanone (MIBK)	2-Butanone (MEK)	ND	U	20	I	06/19/12	06/19/12		
1,1,1-Trichloroethane (TCA)       ND U       0.50       1       06/19/12       06/19/12       KWG1206659         Carbon Tetrachloride       ND U       0.50       1       06/19/12       06/19/12       KWG1206659         Benzene       ND U       0.50       1       06/19/12       06/19/12       KWG1206659         1,2-Dichloroethane (EDC)       ND U       0.50       1       06/19/12       06/19/12       KWG1206659         Trichloroethene (TCE)       0.70       0.50       1       06/19/12       06/19/12       KWG1206659         1,2-Dichloropropane       ND U       0.50       1       06/19/12       06/19/12       KWG1206659         Dibromomethane       ND U       0.50       1       06/19/12       06/19/12       KWG1206659         Bromodichlorouethane       ND U       0.50       1       06/19/12       06/19/12       KWG1206659         cis-1,3-Dichloropropene       ND U       0.50       1       06/19/12       06/19/12       KWG1206659         Toluene       ND U       0.50       1       06/19/12       06/19/12       KWG1206659         trans-1,3-Dichloropropene       ND U       0.50       1       06/19/12       06/19/12       KWG1206659	Bromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Benzene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,2-Dichloroethane (EDC)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Trichloroethene (TCE)         0.70         0.50         1         06/19/12         06/19/12         KWG1206659           1,2-Dichloropropane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Dibromomethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Bromodichloromethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           cis-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           4-Methyl-2-pentanone (MIBK)         ND U         0.50         1         06/19/12         KWG1206659           Toluene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           trans-1,3-Dichloropropene         ND U         0.	Chloroform	0.76		0.50	1	06/19/12	06/19/12		
Benzene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,2-Dichloroethane (EDC)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Trichloroethene (TCE)         0.70         0.50         1         06/19/12         06/19/12         KWG1206659           1,2-Dichloropropane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Dibromomethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Bromodichloronuethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           cis-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           4-Methyl-2-pentanone (MIBK)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Toluene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           trans-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,1,2-Trichloroethane	1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/19/12	06/19/12		
1,2-Dichloroethane (EDC)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Trichloroethene (TCE)         0.70         0.50         1         06/19/12         06/19/12         KWG1206659           1,2-Dichloropropane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Dibromomethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Bromodichloromethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           cis-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           4-Methyl-2-pentanone (MIBK)         ND U         20         1         06/19/12         06/19/12         KWG1206659           Toluene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           trans-1,3-Dichloropropene         ND U         0.50         1         06/19/12         KWG1206659           1,1,2-Trichloroethane         ND U         0.50         1         06/19/12         KWG1206659	Carbon Tetrachloride	ND	U	0.50	1	06/19/12	06/19/12		
Trichloroethene (TCE)         0.70         0.50         1         06/19/12         06/19/12         KWG1206659           1,2-Dichloropropane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Dibromomethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Bromodichlororuethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           cis-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           4-Methyl-2-pentanone (MIBK)         ND U         20         1         06/19/12         06/19/12         KWG1206659           Toluene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           trans-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,1,2-Trichloroethane         ND U         0.50         1         06/19/12         KWG1206659	Benzene	ND	U	0,50	1				
Trichloroethene (TCE)         0.70         0.50         1         06/19/12         CWG1206659           1,2-Dichloropropane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Dibromomethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Bromodichlorouethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           cis-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           4-Methyl-2-pentanone (MIBK)         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           Toluene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           trans-1,3-Dichloropropene         ND U         0.50         1         06/19/12         KWG1206659           1,1,2-Trichloroethane         ND U         0.50         1         06/19/12         KWG1206659	1,2-Dichloroethane (EDC)	ND	U	0.50	1				
Dibromomethane         ND U         0.50         1         06/19/12 06/19/12 06/19/12 KWG1206659           Bromodichlororuethane         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           cis-1,3-Dichloropropene         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           4-Methyl-2-pentanone (MIBK)         ND U         20         1         06/19/12 06/19/12 KWG1206659           Toluene         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           trans-1,3-Dichloropropene         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           1,1,2-Trichloroethane         ND U         0.50         1         06/19/12 06/19/12 KWG1206659		0.70		0.50	1	06/19/12	06/19/12		
Bromodichlororuethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           cis-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           4-Methyl-2-pentanone (MIBK)         ND U         20         1         06/19/12         06/19/12         KWG1206659           Toluene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           trans-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,1,2-Trichloroethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659	1,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12		
cis-1,3-Dichloropropene         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           4-Methyl-2-pentanone (MIBK)         ND U         20         1 06/19/12 06/19/12 KWG1206659           Toluene         ND U         0.50         1 06/19/12 06/19/12 KWG1206659           trans-1,3-Dichloropropene         ND U         0.50         1 06/19/12 06/19/12 KWG1206659           1,1,2-Trichloroethane         ND U         0.50         1 06/19/12 06/19/12 KWG1206659		ND	U	0.50	1	06/19/12	06/19/12		
4-Methyl-2-pentanone (MIBK)         ND U         20         1         06/19/12 06/19/12 06/19/12 KWG1206659           Toluene         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           trans-1,3-Dichloropropene         ND U         0.50         1         06/19/12 06/19/12 KWG1206659           1,1,2-Trichloroethane         ND U         0.50         1         06/19/12 06/19/12 KWG1206659	Bromodichlororuethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Toluene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           trans-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,1,2-Trichloroethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659	cis-1,3-Dichloropropene	ND	U	0.50	1				
trans-1,3-Dichloropropene         ND U         0.50         1         06/19/12         06/19/12         KWG1206659           1,1,2-Trichloroethane         ND U         0.50         1         06/19/12         06/19/12         KWG1206659	4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/19/12	06/19/12		
1,1,2-Trichloroethane ND U 0.50 1 06/19/12 KWG1206659	Toluene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,2-Trichloroethane ND U 0.50 1 06/19/12 KWG1206659	trans-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12		
Tetrachloroethene (PCE) 0.78 0.50 1 06/19/12 06/19/12 KWG1206659		ND	U	0.50	1				
	Tetrachloroethene (PCE)	0.78		0.50	1	06/19/12	06/19/12	KWG1206659	

Comments:

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Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water

**Service Request:** K1205520 **Date Collected:** 06/07/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-24

Lab Code:

K1205520-012

Extraction Method:

EPA 5030B

**X12**03320-012

Basis: NA Level: Low

Units: ug/L

Analysis Method: 8260C

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND U	20	1	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND U	0.50	ì	06/19/12	06/19/12	KWG1206659	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ethylbenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
m,p-Xylenes	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND U	10	1 1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND U	0.50	I	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	99	73-122	06/19/12	Acceptable	
Toluene-d8	99	65-144	06/19/12	Acceptable	
4-Bromofluorobenzene	87	68-117	06/19/12	Acceptable	

Comments:

Printed: 06/21/2012 13:16:16

Merged

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

Date Collected: 06/07/2012

**Date Received:** 06/08/2012

#### Volatile Organic Compounds

Sample Name:

MW-17

Lab Code:

K1205520-013

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Dilution Date Date Extraction Note **MRL** Factor Extracted Analyzed Lot Analyte Name Result Q KWG1206659 Dichlorodifluoromethane ND U 0.50 1 06/19/12 06/19/12 KWG1206659 ND U 0.50 1 06/19/12 06/19/12 Chloromethane 06/19/12 06/19/12 KWG1206659 Vinyl Chloride ND U 0.50 1 ND U 0.50 I 06/19/12 06/19/12 KWG1206659 Bromomethane 06/19/12 06/19/12 KWG1206659 ND U 0.50 1 Chloroethane KWG1206659 06/19/12 0.50 1 06/19/12 Trichlorofluoromethane 0.63 0.50 1 06/19/12 06/19/12 KWG1206659 ND U 1.1-Dichloroethene KWG1206659 06/19/12 ND U 20 1 06/19/12 Acetone KWG1206659 1 06/19/12 06/19/12 ND U 5.0 Iodomethane KWG1206659 1 06/19/12 06/19/12 Carbon Disulfide ND U 0.50 KWG1206659 1 06/19/12 06/19/12 Methylene Chloride ND U 2.0 KWG1206659 5.0 1 06/19/12 06/19/12 Acrylonitrile ND U 1 06/19/12 KWG1206659 ND U 0.50 06/19/12 trans-1,2-Dichloroethene KWG1206659 1 06/19/12 06/19/12 ND U 0.50 1.1-Dichloroethane KWG1206659 1 06/19/12 06/19/12 Vinyl Acetate ND U 5.0 KWG1206659 1 06/19/12 ND U 06/19/12 0.50 cis-1.2-Dichloroethene 06/19/12 KWG1206659 2-Butanone (MEK) ND U 20 1 06/19/12 KWG1206659 1 06/19/12 Bromochloromethane ND U 0.50 06/19/12 I KWG1206659 0.50 06/19/12 06/19/12 Chloroform 0.66 KWG1206659 1 06/19/12 06/19/12 1,1,1-Trichloroethane (TCA) ND U 0.50KWG1206659 1 06/19/12 Carbon Tetrachloride ND U 0.50 06/19/12 KWG1206659 1 06/19/12 06/19/12 ND U 0.50 Benzene KWG1206659 1,2-Dichloroethane (EDC) ì 06/19/12 06/19/12 ND U 0.50 KWG1206659 Trichloroethene (TCE) ND U 0.501 06/19/12 06/19/12 KWG1206659 1 06/19/12 06/19/12 1,2-Dichloropropane ND U 0.50 KWG1206659 ND U 0.50 1 06/19/12 06/19/12 Dibromomethane KWG1206659 1 06/19/12 Bromodichloromethane ND U 0.50 06/19/12 1 KWG1206659 ND U 0.50 06/19/12 06/19/12 cis-1,3-Dichloropropene KWG1206659 ND U 20 1 06/19/12 06/19/12 4-Methyl-2-pentanone (MIBK) KWG1206659 06/19/12 ND U 0.50 1 06/19/12 Toluene KWG1206659 1 06/19/12 ND U 0.50 06/19/12 trans-1,3-Dichloropropene KWG1206659 1,1,2-Trichloroethane ND U 0.50 Į 06/19/12 06/19/12 KWG1206659 Tetrachloroethene (PCE) 0.77 0.50 1 06/19/12 06/19/12

Comments:

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Form 1A - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520 Date Collected: 06/07/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-17

Lab Code:

K1205520-013

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND U	20	]	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethylbenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
ın,p-Xylenes	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND U	0,50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND U	0.50	I	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	99	73-122	06/19/12	Acceptable	
Toluene-d8	100	65-144	06/19/12	Acceptable	
4-Bromofluorobenzene	88	68-117	06/19/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520 **Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name: Lab Code:

Trip Blank

K1205520-014

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND		0.50	l	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	_
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND		0,50	l	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	ì	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	

Comments:	

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Form 1A - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520 Date Collected: 06/06/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name: Lab Code:

Trip Blank

K1205520-014

**Extraction Method:** Analysis Method:

EPA 5030B

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	l	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
ın,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	l	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND		2.0	1	06/18/12	06/18/12	KWG1206609	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	80	73-122	06/18/12	Acceptable	
Toluene-d8	89	65-144	06/18/12	Acceptable	
4-Bromofluorobenzene	78	68-117	06/18/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

Date Collected: NA Date Received: NA

# Volatile Organic Compounds

Sample Name: Lab Code:

Method Blank

**Extraction Method:** 

KWG1206609-5

Analysis Method:

EPA 5030B 8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Λ	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
	ND		0,50	r actor	06/18/12	06/18/12	KWG1206609	rvote
Dichlorodifluoromethane Chloromethane	ND ND		0.50	1	06/18/12	06/18/12	KWG1206609	
	ND ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride				*				
Bromomethane	ND		0,50	Ì	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND		0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	<u> </u>	06/18/12	06/18/12	KWG1206609	
Acroleiu	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	I	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
3-Chloro-1-propene	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Acetonitrile	ND	U	50	1	06/18/12	06/18/12	KWG1206609	
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Chloroprene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
2,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Propionitrile	ND	U	5,0	1	06/18/12	06/18/12	KWG1206609	
Methacrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1.	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Isobutyl Alcohol	ND	U	100	1	06/18/12	06/18/12	KWG1206609	*
Benzene	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	

Comments:

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Form 1A - Organic

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Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services

Project: City of Walla Walla Sudbury Road Landfill Remedial

Water Sample Matrix:

Service Request: K1205520

Date Collected: NA Date Received: NA

# Volatile Organic Compounds

Units: ug/L Sample Name: Method Blank Basis: NA Lab Code: KWG1206609-5 Level: Low **Extraction Method:** EPA 5030B

Analysis Method: 8260C

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Methyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Hexanone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	Ü	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	Į.	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0,50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*
1,2,4-Trichlorobenzene	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	

<sup>\*</sup> See Case Narrative

Comments:	

Form 1A - Organic Page 2 of 3 Printed: 06/21/2012 13:16:28 SuperSet Reference: RR142822

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Code:

Method Blank

KWG1206609-5

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	76	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	79	68-117	06/18/12	Acceptable

Comments:

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial Project:

Sample Matrix: Water Service Request: K1205520

Units: ug/L

Basis: NA Level: Low

Date Collected: NA Date Received: NA

# Volatile Organic Compounds

Sample Name: Method Blank Lab Code: KWG1206659-4 **Extraction Method:** EPA 5030B

8260C Analysis Method:

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloromethane	ND		0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Chloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromomethane	ND	U	0,50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Acrolein	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	*
Acetone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Iodomethane	ND	U	5.0	l	06/19/12	06/19/12	KWG1206659	*
Carbon Disulfide	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
3-Chloro-I-propene	ND	U	5.0	I	06/19/12	06/19/12	KWG1206659	
Acetonitrile	ND	U	50	1	06/19/12	06/19/12	KWG1206659	*
Methylene Chloride	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Acrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
trans-1,2-Dichloroethene	ND		0.50	1	06/19/12	06/19/12	KWG1206659	
l, l-Dichloroethane	ND		0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Acetate	ND	U	5.0	I	06/19/12	06/19/12	KWG1206659	
Chloroprene	ND		10	1	06/19/12	06/19/12	KWG1206659	
2,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene	ND	U	0.50	l	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Propionitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Methacrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Bromochloromethane	ND	U	0.50	l	06/19/12	06/19/12	KWG1206659	
Chloroform	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloropropene	ND		0.50	1	06/19/12	06/19/12	KWG1206659	
Isobutyl Alcohol	ND	U	100	1	06/19/12	06/19/12	KWG1206659	*
Benzene	ND		0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichloroethene (TCE)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	

Comments:	

Form 1A - Organic 1 of 3 Page Printed: 06/21/2012 13:16:32 SuperSet Reference: RR142822

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Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520 Date Collected: NA

Date Received: NA

Units: ug/L

Basis: NA Level: Low

# Volatile Organic Compounds

Sample Name:

Method Blank

Lab Code:

KWG1206659-4

Extraction Method: EPA 5030B

Analysis Method:

8260C

Analysis Method: 8260C							
Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dichloropropane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromomethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Methyl Methacrylate	ND U	5.0	I	06/19/12	06/19/12	KWG1206659	
Bromodichloromethane	ND U	0.50	į.	06/19/12	06/19/12	KWG1206659	***************************************
cis-1,3-Dichloropropene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
4-Methyl-2-pentanone (MIBK)	ND U	20	I	06/19/12	06/19/12	KWG1206659	
Toluene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,3-Dichloropropene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethyl Methacrylate	ND U	5.0	1	06/19/12	06/19/12	KWG1206659	
1,1,2-Trichloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Tetrachloroethene (PCE)	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Hexanone	ND U	20	1	06/19/12	06/19/12	KWG1206659	
1,3-Dichloropropane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethylbenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
m,p-Xylenes	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,3-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.
1,4-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	hadaalaada wadda da da da waxaa da d
1,2,4-Trichlorobenzene	ND U	2.0	1	06/19/12	06/19/12	KWG1206659	

<sup>\*</sup> See Case Narrative

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Com	me	nts:

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Form 1A - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name:

Method Blank

Lab Code:

KWG1206659-4

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	06/19/12	Acceptable
Toluene-d8	101	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	88	68-117	06/19/12	Acceptable

Comments:

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Surrogate Recovery Summary** Volatile Organic Compounds

**Extraction Method:** Analysis Method:

Lab Control Sample

EPA 5030B

8260C

Units: PERCENT

Service Request: K1205520

Level: Low

Sample Name	Lab Code	Sur1	Sur2	<u>Sur3</u>
Camp	K1205520-001	79	89	78
C2 1	K1205520-002	79	89	77
Schmidt	K1205520-003	79	89	79
Small	K1205520-004	80	90	78
Kinman	K1205520-005	80	89	76
MW-19	K1205520-006	81	89	77
MW-15	K1205520-007	82	88	78
D15	K1205520-008	80	89	77
MW-14b	K1205520-009	99	100	88
MW-18	K1205520-010	97	99	89
MW-23	K1205520-011	98	101	87
MW-24	K1205520-012	99	99	87
MW-17	K1205520-013	99	100	88
Trip Blank	K1205520-014	80	89	78
Batch QC	K1205525-002	100	100	89
Method Blank	KWG1206609-5	76	89	79
Method Blank	KWG1206659-4	97	101	88
Batch QCMS	KWG1206659-1	99	102	94
Batch QCDMS	KWG1206659-2	97	102	95
Lab Control Sample	KWG1206609-3	85	92	81
Duplicate Lab Control Sample	KWG1206609-4	86	92	80

KWG1206659-3

#### Surrogate Recovery Control Limits (%)

Sur1	==	Dibromofluoromethane	73-122
Sur2	=	Toluene-d8	65-144
Sur3	=	4-Bromofluorobenzene	68-117

Results flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/19/2012

**Date Analyzcd:** 06/19/2012

# Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds

Sample Name:

Batch QC

Lab Code:

K1205525-002

Extraction Method:

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206659

	Sample	Batch QCMS KWG1206659-1 Matrix Spike			Batch QCDMS KWG1206659-2 Duplicate Matrix Spike			%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Vinyl Chloride	ND	10.2	10.0	102	9.43	10.0	94	49-136	8	30
1,1-Dichloroethene	ND	9.66	10.0	97	8.84	10.0	88	59-171	9	30
Chloroform	ND	10.5	10.0	105	10.2	10.0	102	64-133	3	30
Carbon Tetrachloride	ND	8.62	10.0	86	8.37	10.0	84	53-161	3	30
Benzene	ND	10.8	10.0	108	10.3	10.0	103	63-144	4	30
Trichloroethene (TCE)	ND	9.49	10.0	95	9.04	10.0	90	53-139	5	30
Bromodichloromethane	ND	10.1	10.0	101	10.1	10.0	101	61-134	0	30
Toluene	0.70	10.4	10.0	97	9.87	10.0	92	71-136	5	30
1,1,2-Trichloroethane	ND	10.8	10.0	108	10.6	10.0	106	74-124	1	30
2-Hexanone	ND	47.8	50.0	96	50.2	50.0	100	53-132	5	30
Chlorobenzene	ND	9.34	10.0	93	8.91	10.0	89	69-126	5	30
Ethylbenzene	ND	8.94	10.0	89	8.56	10.0	86	66-136	4	30
1,2,3-Trichloropropane	ND	10.3	10.0	103	10.3	10.0	103	71-127	0	30
1,2-Dichlorobenzene	ND	9.83	10.0	98	9.55	10.0	96	72-119	3	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

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Now part of the ALS Group

QA/QC Report

Schwyn Environmental Services Client:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Project:

Water

Service Request: K1205520 **Date Extracted:** 06/18/2012

**Date Analyzed:** 06/18/2012

### Lab Control Spike/Duplicate Lab Control Spike Summary Volatile Organic Compounds

EPA 5030B Extraction Method: 8260C **Analysis Method:** 

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206609

Lab Control Sample KWG1206609-3 Lab Control Spike

Duplicate Lab Control Sample KWG1206609-4

		Control Spik	Duplicate Lab Control Spike			%Rec		RPD	
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Dichlorodifluoromethane	10,1	10.0	101	9,83	10.0	98	32-124	2	30
Chloromethane	9,64	10.0	96	8.90	10.0	89	34-130	8	30
Vinyl Chloride	8.73	10.0	87	8.36	10.0	84	55-123	4	30
Bromomethane	7.83	10.0	78	7.43	10.0	74	35-113	5	30
Chloroethane	9.54	10.0	95	9.28	10.0	93	58-134	3	30
Trichlorofluoromethane	8.71	10.0	87	8,39	10.0	84	52-141	4	30
Acrolein	99.0	100	99	107	100	107	42-118	7	30
1,1-Dichloroethene	11.3	10.0	113	10.7	10.0	107	66-129	5	30
Acetone	57.3	50.0	115	60.2	50,0	120	68-135	5	30
Iodomethane	44.4	30.0	148	42.3	30.0	141	51-164	5	30
Carbon Disulfide	13.7	20.0	68	13.0	20.0	65	46-144	5	30
3-Chloro-1-propene	25,8	30.0	86	24.4	30.0	81	42-147	5	30
Acetonitrile	304	300	101	329	300	110	69-132	8	30
Methylene Chloride	9.91	10.0	99	9.72	10.0	97	71-122	2	30
Acrylonitrile	34,6	40.0	86	37.6	40.0	94	65-129	8	30
trans-1,2-Dichloroethene	9.87	10.0	99	9.54	10.0	95	67-125	3	30
I, I-Dichloroethane	10.0	10.0	100	9.74	10.0	97	68-132	3	30
Vinyl Acetate	40.1	50.0	80	41.9	50.0	84	44-156	4	30
Chloroprene	32.3	30.0	108	30.7	30.0	102	43-146	5	30
2,2-Dichloropropane	7.41	10.0	74	7.02	10.0	70	37-145	5	30
cis-1,2-Dichloroethene	9.50	10.0	95	8.95	10.0	90	71-118	6	30
2-Butanone (MEK)	44.0	50.0	88	46.9	50.0	94	71-149	7	30
Propionitrile	26.9	30.0	90	30.1	30.0	100	46-137	11	30
Methacrylonitrile	25,2	30.0	84	27.7	30.0	92	47-136	9	30
Bromochloromethane	10.5	10.0	105	10.6	10.0	106	75-131	1	30
Chloroform	10.2	10.0	102	9.75	10.0	98	70-129	4	30
1,1,1-Trichloroethane (TCA)	9.14	10.0	91	8.67	10.0	87	59-136	5	30
Carbon Tetrachloride	8,95	10.0	90	8.37	10.0	84	55-140	7	30
1,1-Dichloropropene	8.70	10.0	87	8.44	10.0	84	59-134	3	30
Isobntyl Alcohol	217	300	72	246	300	82	36-142	12	30
Benzene	9.40	10.0	94	9.09	10.0	91	69-124	3	30
1,2-Dichloroethane (EDC)	10.5	10.0	105	10.7	10.0	107	56-142	2	30
Trichloroethene (TCE)	9.35	10.0	94	9.02	10.0	90	67-128	4	30
1,2-Dichloropropane	9.20	10.0	92	8.88	10.0	89	67-126	4	30
Dibromomethane	8.87	10.0	89	9.29	10.0	93	69-128	5	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Extracted:** 06/18/2012

**Date Analyzed:** 06/18/2012

# Lab Control Spike/Duplicate Lab Control Spike Summary Volatile Organic Compounds

**Extraction Method:** Analysis Method:

EPA 5030B

8260C

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206609

Lab Control Sample KWG1206609-3

Duplicate Lab Control Sample KWG1206609-4

	Lab	Control Spik	e	Duplicate Lab Control Spike			%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result Expected	%Rec	Limits	RPD	Limit	
Methyl Methacrylate	23,9	30.0	80	25.8	30.0	86	46-138	8	30
Bromodichloromethane	8.51	10.0	85	8.41	10.0	84	63-129	1	30
cis-1,3-Dichloropropene	8.36	10.0	84	8.36	10.0	84	62-132	0	30
4-Methyl-2-pentanone (MIBK)	42.1	50.0	84	46.2	50.0	92	64-134	9	30
Toluene	9.40	10.0	94	9.14	10.0	91	69-124	3	30
trans-1,3-Dichloropropene	6.98	10.0	70	7.38	10.0	74	59-125	6	30
Ethyl Methacrylate	23,3	30.0	78	25.5	30.0	85	48-143	9	30
1,1,2-Trichloroethane	8.24	10.0	82	8.84	10.0	88	74-118	7	30
Tetrachloroethene (PCE)	9.56	10.0	96	9.17	10.0	92	62-126	4	30
2-Hexanone	39.6	50.0	79	44.7	50.0	89	59-131	12	30
1,3-Dichloropropane	8.82	10.0	88	9.21	10.0	92	75-116	4	30
Dibromochloromethane	7.87	10.0	79	8.06	10.0	81	67-126	2	30
1,2-Dibromoethane (EDB)	8.59	10.0	86	9.19	10.0	92	74-118	7	30
Chlorobenzene	9.41	10.0	94	9.23	10.0	92	72-116	2	30
Ethylbenzene	8.72	10.0	87	8.72	10.0	87	67-121	0	30
1,1,1,2-Tetrachloroethane	8.91	10.0	89	8.78	10.0	88	66-124	1	30
m,p-Xylenes	18.4	20.0	92	18.0	20.0	90	69-121	2	30
o-Xylene	9.00	10.0	90	8.93	10.0	89	71-119	1	30
Styrene	9,36	10.0	94	9.61	10.0	96	74-121	3	30
Bromoform	6,62	10.0	66	6.91	10.0	69	52-144	4	30
cis-1,4-Dichloro-2-butene	19.7	30.0	66	21.1	30.0	70	26-171	7	30
1,1,2,2-Tetrachloroethane	7.83	10.0	78	8.63	10.0	86	70-127	10	30
trans-1,4-Dichloro-2-butene	21.3	30,0	71	23.5	30.0	78	46-170	10	30
1,2,3-Trichloropropane	8.93	10.0	89	9,49	10.0	95	69-123	6	30
1,3-Dichlorobenzene	9,45	10.0	95	9,29	10.0	93	70-116	2	30
1,4-Dichlorobenzene	9.54	10.0	95	9.38	10.0	94	73-115	2	30
1,2-Dichlorobenzene	9,22	10.0	92	9.41	10.0	94	72-115	2	30
1,2-Dibromo-3-chloropropane	6.45	10.0	65	7.38	10.0	74	55-132	13	30
1,2,4-Trichlorobenzene	8.69	10.0	87	9.15	10.0	92	58-126	5	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

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RR142822 SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services

Project: City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water

 Service Request:
 K1205520

 Date Extracted:
 06/19/2012

 Date Analyzed:
 06/19/2012

# Lab Control Spike Summary Volatile Organic Compounds

**Extraction Method:** EPA 5030B **Analysis Method:** 8260C

Units: ug/L Basis: NA Level: Low

Extraction Lot: KWG1206659

Lab Control Sample KWG1206659-3 Lab Control Spike

	Lab Control Spike			%Rec
Analyte Name	Result	Expected	%Rec	Limits
Dichlorodifluoromethane	8.18	10.0	82	32-124
Chloromethane	10.7	10.0	107	34-130
Vinyl Chloride	8.59	10.0	86	55-123
Bromomethane	7.98	10.0	80	35-113
Chloroethane	9,53	10.0	95	58-134
Trichlorofluoromethane	6.12	10.0	61	52-141
Acrolein	70.1	100	70	42-118
1,1-Dichloroethene	8.01	10.0	80	66-129
Acetone	66,9	50.0	134	68-135
Iodomethane	27.7	30.0	92	51-164
Carbon Disulfide	15.6	20.0	78	46-144
3-Chloro-1-propene	33.2	30.0	111	42-147
Acetonitrile	397	300	132	69-132
Methylene Chloride	9.69	10.0	97	71-122
Acrylonitrile	47.9	40.0	120	65-129
trans-1,2-Dichloroethene	8.82	10.0	88	67-125
1.1-Dichloroethane	9.81	10.0	98	68-132
Vinyl Acetate	40.9	50.0	82	44-156
Chloroprene	36.0	30.0	120	43-146
2,2-Dichloropropane	6.96	10,0	70	37-145
cis-1,2-Dichloroethene	9.44	10.0	94	71-118
2-Butanone (MEK)	58.1	50.0	116	71-149
Propionitrile	37.5	30.0	125	46-137
Methacrylonitrile	34.1	30.0	114	47-136
Bromochloromethane	9.22	10.0	92	75-131
Chloroform	9.91	10.0	99	70-129
1,1,1-Trichloroethane (TCA)	7,32	10.0	73	59-136
Carbon Tetrachloride	6.95	10.0	70	55-140
1,1-Dichloropropene	8.29	10.0	83	59-134
Isobutyl Alcohol	356	300	119	36-142
Benzene	9.94	10.0	99	69-124
1,2-Dichloroethane (EDC)	11.1	10.0	111	56-142
Trichloroethene (TCE)	8.49	10.0	85	67-128
1,2-Dichloropropane	10.6	10.0	106	67-126
Dibromomethane	10.0	10.0	100	69-128

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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 Form 3C - Organic
 Page 1 of 2
 2

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 SuperSet Reference:
 RR142822

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services

Project: City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix: Water

 Service Request:
 K1205520

 Date Extracted:
 06/19/2012

 Date Analyzed:
 06/19/2012

Lab Control Spike Summary Volatile Organic Compounds

Extraction Method: EPA 5030B Analysis Method: 8260C Units: ug/L
Basis: NA
Level: Low

Extraction Lot: KWG1206659

Lab Control Sample KWG1206659-3 Lab Control Spike

	Lab Control Spike			%Rec
Analyte Name	Result	Expected	%Rec	Limits
Methyl Methacrylate	33.2	30,0	III	46-138
Bromodichloromethane	9.71	10.0	97	63-129
cis-1,3-Dichloropropene	9.79	10.0	98	62-132
4-Methyl-2-pentanone (MIBK)	53.7	50.0	107	64-134
Toluene	9.08	10.0	91	69-124
trans-1,3-Dichloropropene	8.23	10.0	82	59-125
Ethyl Methacrylate	32.6	30.0	109	48-143
1,1,2-Trichloroethane	10.1	10.0	101	74-118
Tetrachloroethene (PCE)	7.03	10.0	70	62-126
2-Hexanone	51.9	50.0	104	59-131
1,3-Dichloropropane	10.2	10.0	102	75-116
Dibromochloromethane	8.24	10.0	82	67-126
1,2-Dibromoethane (EDB)	9.14	10.0	91	74-118
Chlorobenzene	8.65	10.0	87	72-116
Ethylbenzene	8.03	10.0	80	67-121
1,1,1,2-Tetrachloroethane	8.13	10.0	81	66-124
ın,p-Xylenes	16.3	20.0	81	69-121
o-Xylene	8.50	10.0	85	71-119
Styrene	8.95	10.0	90	74-121
Bromoform	7.83	10.0	78	52-144
cis-1,4-Dichloro-2-butene	27.4	30.0	91	26-171
1,1,2,2-Tetrachloroethane	11.3	10.0	113	70-127
trans-1,4-Dichloro-2-butene	35.4	30.0	118	46-170
1,2,3-Trichloropropane	10.1	0.01	101	69-123
1,3-Dichlorobenzene	9.45	10.0	95	70-116
1,4-Dichlorobenzene	9.57	10.0	96	73-115
1,2-Dichlorobenzene	9.38	10.0	94	72-115
1,2-Dibromo-3-chloropropane	9.09	10.0	91	55-132
1,2,4-Trichlorobenzene	8.59	10.0	86	58-126

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

**Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

Volatile Organic Compounds

Sample Name:

Camp

Lab Code:

K1205520-001

**Extraction Method:** 

EPA 5030B

Units: ng/L

Basis: NA

Level: Low

Analysis Method:

8260C SIM

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	06/19/12	Acceptable
Toluene-d8	114	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Water Sample Matrix:

Service Request: K1205520

Date Collected: 06/06/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

C2

Lab Code:

K1205520-002

**Extraction Method:** 

EPA 5030B

Units: ng/L

Basis: NA

Level: Low

Analysis Method:

8260C SIM

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	108	77-123	06/19/12	Acceptable	
Toluene-d8	114	74-112	06/19/12	Outside Control Limits	
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable	

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

Schmidt

Lab Code:

K1205520-003

**Extraction Method:** 

EPA 5030B

Units: ng/L Basis: NA

Level: Low

Analysis Method:

8260C SIM

			Dilution	Date	Date	Extraction	Note
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	108	77-123	06/19/12	Acceptable	
Toluene-d8	113	74-112	06/19/12	Outside Control Limits	
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

Small

Lab Code:

K1205520-004

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C SIM

Units: ng/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	109	77-123	06/19/12	Acceptable	
Toluene-d8	113	74-112	06/19/12	Outside Control Limits	
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable	

Comments:

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Merged

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

**Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

Kinman

Lab Code:

K1205520-005

**Extraction Method:** 

EPA 5030B

Units: ng/L Basis: NA

Level: Low

Analysis Method:

8260C SIM

A . 1 4 - NY	Donald O	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Analyte Name	Result Q	MINL	ractor	Extracted	Minaryzeu	Dot	11000
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	109	77-123	06/19/12	Acceptable	
Toluene-d8	113	74-112	06/19/12	Outside Control Limits	
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-19

Lab Code:

K1205520-006

**Extraction Method:** 

EPA 5030B

Units: ng/L Basis: NA

Level: Low

Analysis Method:

8260C SIM

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments:

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Merged

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

**Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

Volatile Organic Compounds

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C SIM

Units: ng/L

Basis: NA

Level: Low

Amalinta Noma	Result O	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Analyte Name	Result Q	TALLYTY	Factor 1	15AH acteu	2 Klintyzeu	Dot	11000
Vinyl Chloride	780	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments:

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SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

**Date Collected:** 06/06/2012

Service Request: K1205520

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

D15

Lab Code:

K1205520-008

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C SIM

Units: ng/L

Basis: NA

Level: Low

			Dilution	Dilution Date Date Extrac			
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinvl Chloride	790	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	110	77-123	06/19/12	Acceptable	
Toluene-d8	112	74-112	06/19/12	Acceptable	
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520

**Date Collected:** 06/07/2012

Sample Matrix:

Water

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-14b

Lab Code:

K1205520-009

Units: ng/L

**Extraction Method:** 

EPA 5030B

Basis: NA

Level: Low

Analysis Method:

8260C SIM

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/07/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-18

Lab Code:

K1205520-010

**Extraction Method:** 

EPA 5030B

Units: ng/L Basis: NA

Level: Low

**Analysis Method:** 

8260C SIM

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	111	77-123	06/19/12	Acceptable	
Toluene-d8	113	74-112	06/19/12	Outside Control Limits	
4-Bromofluorobenzene	82	46-118	06/19/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sample Matrix:

City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

**Date Collected:** 06/07/2012 **Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-23

Lab Code:

K1205520-011

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C SIM

Units: ng/L

Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	112	77-123	06/19/12	Acceptable	
Tolucue-d8	113	74-112 46-118	06/19/12 06/19/12	Outside Control Limits Acceptable	
4-Bromofluorobenzene	82	40-116	00/19/12	Acceptable	

Comments:

SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/07/2012

**Date Received:** 06/08/2012

# Volatile Organic Compounds

Sample Name:

MW-24

Lab Code:

K1205520-012

Extraction Method:

EPA 5030B

Analysis Method:

8260C SIM

Units: ng/L

Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	112	77-123	06/19/12	Acceptable	
Toluene-d8	113	74-112	06/19/12	Outside Control Limits	
4-Bromofluorobenzene	82	46-118	06/19/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/07/2012

**Date Received:** 06/08/2012

Volatile Organic Compounds

Sample Name:

MW-17

Lab Code:

K1205520-013

Extraction Method:

EPA 5030B

Analysis Method:

8260C SIM

Units: ng/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	T T T T T T T T T T T T T T T T T T T	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520 **Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

Volatile Organic Compounds

Sample Name:

Trip Blank

Lab Code:

K1205520-014

**Extraction Method:** Analysis Method:

EPA 5030B 8260C SIM

Units: ng/L

Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	112	77-123	06/19/12	Acceptable	
Toluene-d8	113	74-112	06/19/12	Outside Control Limits	
4-Bromofluorobenzene	84	46-118	06/19/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Code: Method Blank

**Extraction Method:** 

KWG1206617-4

Analysis Method:

EPA 5030B 8260C SIM Units: ng/L Basis: NA

Level: Low

Date Date Extraction Dilution Note MRL **Factor** Extracted Analyzed Lot Result Q Analyte Name KWG1206617 06/18/12 1 06/18/12 Vinyl Chloride 20 ND U

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	107	77-123	06/18/12	Acceptable	
Toluene-d8	114	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable	

Comments:

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SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

Date Collected: NA Date Received: NA

# Volatile Organic Compounds

Sample Name:

Method Blank

Lab Code:

KWG1206657-4

Units: ng/L Basis: NA

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C SIM

Level: Low

Analyte Name	Result O	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	111	77-123	06/19/12	Acceptable	
Toluene-d8	113	74-112	06/19/12	Outside Control Limits	
4-Bromofluorobenzene	84	46-118	06/19/12	Acceptable	

Comments:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Surrogate Recovery Summary** Volatile Organic Compounds

**Extraction Method:** Analysis Method:

EPA 5030B

8260C SIM

Service Request: K1205520

Units: PERCENT

Level: Low

Sample Name	Lah Code	<u>Sur1</u>	Sur2	Sur3
Batch QC	K1205381-010	107	113 *	83
Camp	K1205520-001	108	114 *	83
C2	K1205520-002	108	114 *	83
Schmidt	K1205520-003	108	113 *	83
Small	K1205520-004	109	113 *	83
Kinman	K1205520-005	109	113 *	83
MW-19	K1205520-006	110	112	83
MW-15	K1205520-007	110	112	83
D15	K1205520-008	110	112	83
MW-14b	K1205520-009	110	112	83
MW-18	K1205520-010	111	113 *	82
MW-23	K1205520-011	112	113 *	82
MW-24	K1205520-012	112	113 *	82
MW-17	K1205520-013	112	112	83
Trip Blank	K1205520-014	112	113 *	84
Method Blank	KWG1206617-4	107	114 *	84
Method Blank	KWG1206657-4	111	113 *	84
Batch QCMS	KWG1206617-I	109	115 *	92
Batch QCDMS	KWG1206617-2	109	115 *	92
Lab Control Sample	KWG1206617-3	110	115 *	92
Lab Control Sample	KWG1206657-3	112	114 *	93

# Surrogate Recovery Control Limits (%)

Sur1	=	Dibromofluoromethane	77-123
Sur2	=	Toluene-d8	74-112
Sur3	==	4-Bromofluorobenzene	46-118

Results flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

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Form 2A - Organic

1 of 1 Page

SuperSet Reference: RR142797

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/18/2012

**Date Analyzed:** 06/18/2012

Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds

Sample Name: Lab Code:

Batch QC

K1205381-010

**Extraction Method:** Analysis Method:

EPA 5030B 8260C SIM

Basis: NA Level: Low

Units: ng/L

Extraction Lot: KWG1206617

Batch QCMS

KWG1206617-1

Batch QCDMS KWG1206617-2

	Sample		Matrix Spike	_	Duplio	cate Matrix S	pike	%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Vinyl Chloride	ND	2210	2000	111	2070	2000	104	70-130	7	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A ~ Organic

Page

1 of 1

SuperSet Reference: RR142797

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

Date Extracted: 06/18/2012 Date Analyzed: 06/18/2012

Lab Control Spike Summary Volatile Organic Compounds

**Extraction Method: Analysis Method:** 

EPA 5030B

Units: ng/L

Basis: NA Level: Low

Extraction Lot: KWG1206617

8260C SIM

Lab Control Sample KWG1206617-3

Lab Control Spike

%Rec

Limits Expected %Rec Result Analyte Name 70-136 Vinyl Chloride 2240 2000 112

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

1 of 1 Page

RR142797 SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project: Sample Matrix: City of Walla Walla Sudbury Road Landfill Remedial

Water

Service Request: K1205520

Date Extracted: 06/19/2012

**Date Analyzed:** 06/19/2012

Lab Control Spike Summary Volatile Organic Compounds

Extraction Method:

EPA 5030B

Units: ng/L

Basis: NA

Level: Low

Analysis Method:

8260C SIM

Extraction Lot: KWG1206657

Lab Control Sample KWG1206657-3

Lab Control Spike

%Rec

**Analyte Name** Vinyl Chloride

Expected Result 2120 2000

Limits

%Rec

106

70-136

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed: 06/21/2012 10:49:53

Form 3C - Organic

Page

1 of 1

RR142797 SuperSet Reference:

# Columbia Analytical Services 1317 South 13th, Kelso, WA 98626 (360) 577-7222 FAX (360) 636-1068

*******	Firm: Schwyn Environmental Services Firm:	me: 1-0: 2 5: 6 42 4 m		RELINQUISHED BY:	Bill to: Schwyn Environmental Services	Invoice Information P.O. #	X Standard (21 days) Provide FAX Preliminary Results Requested Report Date:	JRNAROUND REQUIREMENTS 24 hr 48 hr 5 day									manufacture and the second		Date	Project Name: City of Walla Walla Sudbury Road L Project Manager: Craig Schwyn Company: Schwyn Environmental Services 4621 South Custer Court Spokane, Washington 99223 509-448-3187: Craig@schwynenviro.com Sampler's Signature:
Date/Time:	n:	Printed Name:	Signature: Kelk	RECEIVED BY:	X V. EDD	raw data) IV. CLP Deliverable Report	X II. Report Dup., MS, MSD as required III. Data Validation Report (includes	REPORT REQUIREMENTS  I. Routine Report: Results, Method Blank,								600 8		M	Time LABID Matrix	City of Walla Walla Sudbury Road Landfill Remedial Investigation r: Craig Schwyn r: Craig Schwyn wyn Environmental Services 21 South Custer Court 21 South Custer Court 3-448-3187: Craig@schwynenviro.com
Date/	Fírm:	Printe	Signature:	REL	Total	Che	Orga PCBs	CONTRACTOR OF THE PERSON							Ō	Ö	(0)	10	Nui	mber of Containers
Date/Time: _		Printed Name:	ture:	RELINQUISHED	cyanid	Organophosphorus Chlorinated herbici	Organochlorine pes	Appendix III Parameters Dissolved Metals: Sb, As					-		<	X	×	×	vo	OCs (8260B special list)
MC1000000000000000000000000000000000000		    -			e by SN	phorus herbici	ine pes ors) by	l Param etals: S							X	X	X	×	Vin	nyl Chloride by 8260 SIM
THE THE PROPERTY OF THE PROPER	(	a Naud Food of the Annual Food o	. I de parte la	BY:	Total cyanide by SM 4500 S2 D and Total sulfide by EPA 335.4	Organophosphorus compounds by OSEFA Method 8151A  Chlorinated herbicides by USEPA Method 8151A	Organochlorine pesticides by USEPA Method 8081A PCBs (Aroclors) by USEPA Method 8082	Appendix III Parameters Dissolved Metals: Sb, As, Ba, Be, Cd, Ct, Co, Cu, Pb, Se, As Tyrol Maraks: Ni, Ho, by IJSEPA Method 6010C, and 7470A	mentalik umbikkentytetasseteateikalikykyes ta masadoksaliukoppiseense	oppose unampagno na tradició polo polo na como dobra do tradición para esta de persona do tradición de persona				SI I (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	×	A CAMINETE TRESPERSOR THE STATE OF THE THE STATE OF THE S	PRESENTATION CONTRACTOR AND	THE STATE OF THE PROPERTY OF THE STATE OF TH	(M Fe, 601 (M [A	hloride, Nitrate, Sulfate ethod 300.0)] [Ca, , Mg, Mn, K, Na (Method 10C)] [Alkalinity lethod 2320B)] mmonia (SM 4500)] OC (Method 415.1)] DS (SM 2540C)]
STREET, (ASSESSED TO STREET, S					alfide by	151A	d 8081/	Cu, Pb											B -	opendix III Parameters se below)
Date/Time:	Firm:	Printe	Signature		EPA 3	31412	8141	, Se, Ag 7470A		The state of the s								Canada Maria	M	s/MSD
fime: 48113 072	2010 2000	Printed Name & WWW. MITS	wet MUDNIN	RECEIVED BY:	35.4	e e		Appendix III Parameters  Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C  Taked Marate: Ni, Ha, by USEPA Method 6010C, and 7470A	THE PROPERTY OF THE PROPERTY O	пликати облазуваться (святати собладати по выполня выполня в выполня в выполня в выполня в выполня в выполня в	INVOCABILITABICIO COCIATION INSTITUTE DE TRESTATION DE CONTRACTORISMO DE LA COMPONIMIENTO DEL COMPONIMIENTO DE LA COMPONIMIENTO DEL COMPONIMIENTO DE LA COMPONIMIENTO DE LA COMPONIMIENTO DEL COMPONIMIENTO DEL COMPONIMIENTO DE LA COMPONIMIENTO DEL COMPONIMIENTO DE LA COMPONIMIENTO DE LA COMPONIMIENTO DEL COMPONIMIENTO DE LA COMPONIMIENTO DEL COMPONIMIENTO DEL COMPONIMIENTO DEL COMPONIMIENTO DE LA COMPONIMIENTO DEL COMPONIMIENTO DE LA COMPONIMIENTO DEL COMPONIMIENTO DEL COMPONIMIENTO DEL COMPONIMIENTO DE	OR OF STREET OF STREET,	FINITE MENTAL PROPERTY OF THE CONTROL OF THE CONTRO	wenty were transferred to the control of the contro	THE DESCRIPTION OF THE PROPERTY OF THE PROPERT		OS VILLEN DE L'ANTICA L'ANTICA DE L'ANTICA L'ANT	cossepately));covactions are taxed and the contraction of the contract	${ m REMARKS}$	

# Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

(360) 577-7222 FAX (360) 636-1068

Printed Name: CEGy Sen wy		Signature: Cara Market	RELINQUISHED BY: /	Bill to: Schwyn Environmental Services	P.O. #	HOURTHONE THEORY OF THE STATE O	Requested Report Date:	Provide FAX Preliminary Results	X Standard (21 days)	24 hr 48 hr 5 day	JRNAROUND REQUIREMENTS	W-18	New 7	91-AN	NW-15D	WW. IS	VIV-14b	NAW-12b	MW-11	MW-10 (3)	MW-9 \ 6/5/12	WW-5	MW-3	Sample I.D. Bate	Sampler's Signature	Spokane, Washington 99223 509-448-3187: Craig@schwynenviro.com	Company: Schwyn Environmental Services 4621 South Custer Court	Project Manager: Craig Schwyn	Project Name: City of Walla Walla Su
Filled Name.		Signature:	RECEIVED BY:	s X V.EDD	IV. CLP Deliverable Report	raw datu)	II. Data Valda	x 11. Report Dup.	Surrogate, as required	l. Routine Repo	REPORT REQUIREMENTS		AND THE PROPERTY OF THE PROPER	THE REAL PROPERTY OF THE PROPE			AMBITATION OF THE PROPERTY OF	REAL PROPERTY AND DESCRIPTION OF THE PROPERTY	12 8 PC	12 4.95			A CONTRACTOR OF THE PROPERTY O	Time	A CONTROL OF THE PROPERTY OF T	ynenviro.com	rvices		City of Walla Walla Sudbury Road Landfill Remedial Investigation
I P	W	×.	Register	. S		<b>251-44</b> 0182	************	D as required		l. Routine Report: Results, Nothod Blank, I	uumokkoosa	Vater	1918/M	Water	1318/M.	Water	Water	Water	Water	Water		A 35.6.4	A 3 fel	LABID Matrix	Server provide the server of t	vienus intrinsuorios (silikus v.	No.	ngarang at na shinka ka sa	nvestigation
F BHIGH INZHAG.	linted 71	Signature:	RELINQUISHED BY:	SVOCs USEPA Met Total cyanide by SM	Horina	Organophosphorus	PCBs (Aroclors) by	rganocl	Total Metals: Ni, H	issolved	Appendix III Parameters		and the control of th						(40) X		(%)	X		_	<del>lisanderia e</del>	of Con	tainers ecial list)		
шь.			USHEI	JSEPA N	ed herb	osphor	octors) l	norme [	tals: Ni,	Metals:	hence henc henc								×	X	X	X			-		y 8260 Si	M	1200
	**************************************		84:	SVOCs USEPA Method 8270D Total cyanide by SM 4500 S2 D and Total sulfide by EPA 335.4	Chlorinated herbicides by USEPA Method 8151A	us compounds by USEPA Method 8141A	y USEPA Method 8082	Organochlorine pesticides by USEPA Method 8081A	Hg by USEPA Method 6010C, and 7470A	Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag,	ameters	TO THE PROPERTY OF THE PROPERT	WARREN OF AN ANTHER PROPERTY OF THE THE PROPERTY OF THE PROPER	AND THE	THE THE PROPERTY OF THE PROPER				X	And the second s	ANTERIOR PRINTED STATES OF THE PRINTED STATE	THE ACT OF THE STATE OF THE THE STATE OF THE	A MARKATAN ON THE CONTROL OF THE PROPERTY OF THE CONTROL OF THE CO	(Mo Fe, 601 (Mo  An  TC	ethod Mg, I (OC) ethod nmon OC (M	300.0)  Mn, K, M [, 2320B)  ia (SM iethod 4 M 25400	4500)  15.1)	Ca hod	
+ + + + + + + + + + + + + + + + + + +	ت آ	S. S.	(m)	ide by El	A	ethod 81		8081A	C, and 74	Ju, Pb, S			The second secon					an a		217.000.000.000.000.000.000.000.000.000.0		And the second s		bel	ow) S/MSD				
The same of the sa	Printed Name: Market Smith	Signature: Milamuth	RECEIVED BY:	А 335.4		A			70A	e, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C		THE COLUMN TO TH		TO THE	THE PROPERTY OF THE PROPERTY O				1 500 on 200 3. H.	TO THE PROPERTY OF THE PROPERT	A THE PROPERTY OF THE PROPERTY	AND THE PROPERTY OF THE PROPER	AND STATE OF THE S	REMARKS					Apalysis Requested

Firm: Schwyn Environmental Services

Fill

Firm:



Cooler Receipt and Preservation Form

Page\_\_\_\_of\_\_

- Calerin	Coolei	Receipt 2	ino i i c			55	7			
Client / Project: Chun	* 101	,		Service	Request K.	116	<u>~</u>			$\overline{}$
Received: $(2 8 12-0)$	pened: 10 8	12	By:	()	Unloade	d: <i>Q[</i> 3	5/12	By:	40	
1. Samples were received via?	Mail Fed-Ex	) UPS	DHL	PDX	Courie	r Hand	l Delivered	1		
2. Samples were received in: (circl	e) (Cooler)	Box	Envelo	ope	Other				NA	
3. Were <u>custody seals</u> on coolers?	NA	$Y \left( \hat{N} \right)$	Ify	es, how n	nany and wh	ere?				
If present, were custody seals in	tact?	YN		If present	, were they s	igned and	dated?		Y	N
	Thermometer 🔭	Cooler/0								
Temp °C Blank °C	304	ID:	<u>l NA</u>			Tracking	vumber	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	NA	Filed
	-0/							3		
		·								
7. Packing material: (Inserts) Bo	iggies Bubble V	Vrap Gel I	Packs (	Wet Ice	Dry Ice S	leeves				<del></del>
8. Were custody papers properly fi	lled out (ink, signe	ed, etc.)?						NA	$\bigcirc$	N
Did all bottles arrive in good co	ndition (unbroken)	)? Indicate	in the tal	ble below.				NA	(F	) N
10. Were all sample labels complet	e (i.e analysis, pre	servation, et	tc.)?					NA.	(Y	) N
11. Did all sample labels and tags a	gree with custody	papers? Inc	dicate ma	ajor discre	epancies in t	he table on	page 2.	NA	(Y	N
12. Were appropriate bottles/contain	ners and volumes	received for	the tests	indicated	?			NA	Y	) N
13. Were the pH-preserved bottles	(see SMO GEN SOF	o) received a	it the app	ropriate p	H? <i>Indicate</i>	in the tabi	e below	NA	Y	) N
14. Were VOA vials received with	out headspace? In	dicate in the	table be	low.				(NA)	Y	N
15. Was C12/Res negative?								NA	(Y	) N
Sample ID on Bottle		Sample ID	27 COG				dentified by			
Sample is on some		- Sample ID	011 000	<u> </u>			zenanea bj	<u>'* </u>		
						***************************************				
	630 · 43 ·	<b>.</b> 82 a	D Pa		* 887.44 T	secutivities de l'és	taringtioner messer	m stiggter sife	1 2 7 91	
Sample ID	Bottle Count Bottle Type	Out of Head Temp space	- e Broke	рН	Reagent	Volume added	Reagent I Numbe		nitials	Time
					1					
Notes, Discrepancies, & Resolu	tions:									
, <b>- F</b>					,					
								1		



ALS			PC PC
4	Cooler Receipt and P	reservation Form	, C
Client / Project: <u>SW</u> Sch	iwyn .	Service Request K12 545	<u> </u>
Received: 6/4/12 Or	pened: 6/7/12 By:_	40 Unloaded: 617	12 By: 45
<ol> <li>Samples were received via?</li> <li>Samples were received in: (circle</li> <li>Were custody seals on coolers?</li> </ol>	(Cooler Box Em	HL PDX Courier Hand Delivelope Other If yes, how many and where?	<i>NA</i>
If present, were custody seals int		If present, were they signed and dated	
Cooler Temp T Temp °C Blank °C	nermometer Cooler/COC ID ID N	IA Tracking Numb	per NA Filed
2 0	300		<u></u>
.0 1.7	91	SHORTH	
	ggies Bubble Wrap Gel Packs	Wet Ice Dry Ice Sleeves	
<ul><li>10. Were all sample labels complete</li><li>11. Did all sample labels and tags at</li><li>12. Were appropriate bottles/contain</li></ul>	led out (ink, signed, etc.)? dition (unbroken)? Indicate in the (i.e analysis, preservation, etc.)? gree with custody papers? Indicate hers and volumes received for the te	table below.  major discrepancies in the table on page sts indicated?  ppropriate pH? Indicate in the table belo below.	NA Y N NA Y N NA Y N NA Y N
Sample ID	Bottle Count Out of Head- Bottle Type Temp space Brok		gent Lot imber initials Time
	-		
	100. ( il	in algorithms to	- 100 and 11 ml
Notes, Discrepancies, & Resolution  MW-21D 6/6/ MW-21S 6/6  MW-21D 6/6/	ons: MW-11 CefCefi 12 1000 12 1000 :	12 0800 ms/ms) fo Ambers and n mw 5 le/s/12	rivie and Genchen Blass on Hold [le00]
mw-25 6/6/	2 1130	2-TB	****
MN-9 4/5/ MN-10 6/5	12 1600 + Die	I not receive COC	Mpage ing of Cooler

	:
	:

Now part of the ALS Group

### Analytical Report

Client: Schwyn Environmental Services

Project: Sudbury Road Landfill RI

Sample Matrix: Water

Analysis Method:

Water 300.0

Service Request: K1205452

Date Collected: 06/6/12

Date Received: 06/7/12

Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW+11	K1205452-001	85.0	4.0	20	06/07/12 16:38	
MW-21D	K1205452-002	150	4.0	20	06/07/12 17:32	
MW-21S	K1205452-003	141	4.0	20	06/07/12 17:45	
MW-22D	K1205452-004	157	4.0	20	06/07/12 22:15	
MW-22S	K1205452-005	156	4.0	20	06/07/12 22:28	
Method Blank	K1205452-MB1	ND U	0.20	1	06/07/12 07:17	
Method Blank	K1205452-MB2	ND U	0.20	1	06/07/12 18:26	

Printed 6/21/2012 12:01:19 PM Superset Reference: 12-0000213963 rev 00

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205452

Project

Sudbury Road Landfill RI

**Date Collected:** 

06/06/12

Sample Matrix:

Water

Date Received: Date Analyzed: 06/07/12 06/07/12

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name:

MW-11

Units:

mg/L

Lab Code:

Chloride

K1205452-001

300.0

Basis: NA

Duplicate

Sample

K1205452-

Analysis Method Analyte Name

Sample Result MRI 85.0 4.0

001DUP4 Result 85,3

RPD Limit RPD Average 85.2 <1 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/21/2012 12:01:19 PM

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/06/12

Date Received: 06/07/12 Date Analyzed: 06/7/12

**Duplicate Matrix Spike Summary** 

Chloride

Sample Name:

MW-11

Lab Code:

K1205452-001

Analysis Method:

300.0

Units: mg/L

Basis: NA

Matrix Spike

**Duplicate Matrix Spike** 

K1205452-001MS2

K1205452-001DMS2

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Chloride	85.0	130	40.0	112 *	130	40.0	112 *	90-110	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Service Request: K1205452 Date Analyzed: 06/07/12

Sample Matrix:

Water

**Lab Control Sample Summary** 

Chloride

Analysis Method:

300.0

Units: mg/L

Basis: NA

Analysis Lot: 294965

			% Rec		
Sample Name	Lab Code	Result	Amount	% Rec	Limits
Lab Control Sample	K1205452-LCS3	4,75	5.00	95	90-110
Lab Control Sample	K1205452-LCS4	4.66	5.00	93	90-110

Now part of the ALS Group

Analytical Report

Client: Project: Schwyn Environmental Services

Sudbury Road Landfill RI Water

Analysis Method:

Sample Matrix:

300.0

Service Request: K1205452

Date Collected: 06/6/12

Date Received: 06/7/12

Units: mg/L Basis: NA

Nitrate as Nitrogen

				Date				
Sample Name	Lab Code	Result	MRL	Dil.	Analyzed	Q		
MW-11	K1205452-001	8,0	1.0	20	06/07/12 16:38			
MW-21D	K1205452-002	10.4	1.0	20	06/07/12 17:32			
MW-21S	K1205452-003	9.1	1.0	20	06/07/12 17:45			
MW-22D	K1205452-004	10.0	1.0	20	06/07/12 22:15			
MW-22S	K1205452-005	9.2	1.0	20	06/07/12 22:28			
Method Blank	K1205452-MB1	ND U	0.050	1	06/07/12 07:17			
Method Blank	K1205452-MB2	ND U	0.050	1	06/07/12 18:26			

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205452

Project

Sudbury Road Landfill RI

Date Collected:

Sample Matrix:

Water

Date Received:

NA NA

Date Analyzed:

**Replicate Sample Summary** 

**General Chemistry Parameters** 

Sample Name:

Analyte Name

Nitrate as Nitrogen

Batch QC

Units:

NC

mg/L

20

06/07/12

Lab Code:

K1205449-001

Basis:

NA

Duplicate

Sample

K1205449-

Analysis Method

300.0

Sample Result  $\overline{ND}$ 

MRL

2.5

001DUP3

ND

RPD Limit Result <u>Average</u> RPD

NC

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/21/2012 12:01:19 PM

Now part of the ALS Group

QA/QC Report

Client: Project:

Schwyn Environmental Services

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: N/A

Date Received: N/A

Date Analyzed: 06/7/12

Duplicate Matrix Spike Summary Nitrate as Nitrogen

Sample Name:

Batch QC

Lab Code: Analysis Method: K1205449-001

300.0

Units: mg/L

Basis: NA

Matrix Spike

**Duplicate Matrix Spike** 

K1205449-001MS1

K1205449-001DMS1

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrate as Nitrogen	ND	95.1	100	95	96.3	100	96	90-110	1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/21/2012 12:01:19 PM

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Service Request: K1205452

Sample Matrix:

Water

Date Analyzed: 06/07/12

Lab Control Sample Summary

Nitrate as Nitrogen

Analysis Method:

300.0

Units: mg/L

Basis: NA

Analysis Lot: 294965

			Spike			
Sample Name	Lah Code	Result	Amount	% Rec	Limits	
Lab Control Sample	K1205452-LCS3	17.9	17.7	101	90-110	
Lab Control Sample	K1205452-LCS4	17.8	17.7	101	90-110	

Printed 6/21/2012 12:01:19 PM

Now part of the ALS Group

Analytical Report

Client:

Sample Matrix:

Analysis Method:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Water

300.0

Service Request: K1205452

**Date Collected:** 06/6/12

Date Received: 06/7/12

Units: mg/L Basis: NA

Sulfate

					Date		
Sample Name	Lab Code	Result	MRL	Dil.	Analyzed	Q	
MW-11	K1205452-001	27.6	4.0	20	06/07/12 16:38		
MW-21D	K1205452-002	31.2	4.0	20	06/07/12 17:32		
MW-21S	K1205452-003	32.5	4.0	20	06/07/12 17:45		
MW-22D	K1205452-004	32.4	4.0	20	06/07/12 22:15		
MW-22S	K1205452-005	33.8	4.0	20	06/07/12 22:28		
Method Blank	K1205452-MB1	ND U	0.20	1	06/07/12 07:17		
Method Blank	K1205452-MB2	ND U	0.20	1	06/07/12 18:26		

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205452

**Project** 

Sudbury Road Landfill RI

**Date Collected:** 

06/06/12

Sample Matrix:

Date Received:

06/07/12

Water

Date Analyzed:

06/07/12

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name:

MW-11

Units:

mg/L

Lab Code:

K1205452-001

Basis: NA

Duplicate

Sample

K1205452-

Sample

001DUP4

RPD RPD Limit Average

Analysis Method Analyte Name

MRL

Result

Result

Sulfate

27,6

300.0

4.0

27.6

27.6

<1

20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/21/2012 12:01:19 PM

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/06/12

**Date Received:** 06/07/12 **Date Analyzed:** 06/7/12

**Duplicate Matrix Spike Summary** 

Sulfate

Sample Name:

MW-11

Lab Code:

K1205452-001

Analysis Method:

300.0

Units: mg/L

Basis: NA

Matrix Spike

**Duplicate Matrix Spike** 

K1205452-001MS2

K1205452-001DMS2

	Sample		Spike			Spike		% Rec		RPD	
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit	
Sulfate	27.6	67.6	40.0	100	67.8	40.0	100	90-110	<1	20	

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Service Request: K1205452 Date Analyzed: 06/07/12

Sample Matrix:

Water

Lab Control Sample Summary

Sulfate

Analysis Method:

300.0

Units: mg/L

Basis: NA

Analysis Lot: 294965

			Spike		% Rec
Sample Name	Lab Code	Result	Amount	% Rec	Limits
Lab Control Sample	K1205452-LCS3	4.58	5,00	92	90-110
Lab Control Sample	K1205452-LCS4	4.56	5,00	91	90-110

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Now part of the ALS Group

Analytical Report

Service Request: K1205452

Superset Reference: 12-0000213963 rev 00

Client: Schwyn Environmental Services

Sudbury Road Landfill RI Project:

Sample Matrix:

Date Collected: 06/6/12 Date Received: 06/7/12 Water

Units: mg/L **Analysis Method:** SM 2320 B Basis: NA

Alkalinity as CaCO3, Total

					Date	
Sample Name	Lab Code	Result	MRL	Dil.	Analyzed	Q
MW-11	K1205452-001	267	9.0	1	06/13/12 20:53	
MW-21D	K1205452-002	295	9.0	1	06/13/12 20:53	
MW-21S	K1205452-003	300	9.0	1	06/13/12 20:53	
MW-22D	K1205452-004	290	9.0	1	06/13/12 20:53	
MW-22S	K1205452-005	309	9.0	1	06/13/12 20:53	
Method Blank	K1205452-MB1	ND U	9.0	1	06/13/12 20:53	
Method Blank	K1205452-MB2	ND U	9.0	1	06/13/12 20:53	

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205452

Project

Sudbury Road Landfill RI

**Date Collected:** 

06/06/12

Sample Matrix:

Water

Date Received:

06/07/12

Date Analyzed:

06/13/12

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name:

Alkalinity as CaCO3, Total

MW-11

Units:

mg/L

Lab Code:

K1205452-001

Basis:

NA

5

Duplicate

Sample

K1205452-

Sample Result 001DUP4

Analyte Name Analysis
Method

SM 2320 B

MRL 9.0

267

Result 282

Average 275 RPD RPD Limit

20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is nnt applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Service Request: K1205452

Sample Matrix:

Water

Date Analyzed: 06/13/12

Lab Control Sample Summary Alkalinity as CaCO3, Total

Analysis Method:

SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 296181

				% Rec	
Sample Name	Lab Code	Result	Amount	% Rec	Limits
Lab Control Sample	K1205452-LCS3	65.8	64.9	101	94-106
Lab Control Sample	K1205452-LCS4	66.4	64.9	102	94-106

Now part of the ALS Group

Analytical Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Date Collected: 06/6/12

Service Request: K1205452

Sample Matrix:

Water

Date Received: 06/7/12

Analysis Method:

SM 2540 C

Units: mg/L

Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1205452-001	583	10	1	06/13/12 00:00	
MW-21D	K1205452-002	704	13	1	06/13/12 00:00	
MW-21S	K1205452-003	693	13	1	06/13/12 00:00	
MW-22D	K1205452-004	697	13	1	06/13/12 00:00	
MW-22S	K1205452-005	779	13	1	06/13/12 00:00	
Method Blank	K1205452-MB1	ND U	5.0	1	06/13/12 00:00	
Method Blank	K1205452-MB2	ND U	5.0	1	06/13/12 00:00	

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205452

Project

Sudbury Road Landfill RI

**Date Collected:** 

06/06/12

Sample Matrix:

Water

Date Received:

06/07/12

Replicate Sample Summary

Date Analyzed: 06/13/12

**General Chemistry Parameters** 

Sample Name:

MW-11

Units:

mg/L

Lab Code:

K1205452-001

Duplicate

NA Basis:

Sample

K1205452-

001DUP4

Sample Analyte Name Analysis Method MRI.

Result

Result **RPD** RPD Limit **Average** 

Solids, Total Dissolved

SM 2540 C

10

583

566

575 3

10

Results flagged with an asterisk (\*) indicate values outside control criteria.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Date Analyzed: 06/13/12

Service Request: K1205452

**Lab Control Sample Summary** 

Solids, Total Dissolved

Analysis Method:

SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 296007

 Sample Name
 Lab Code
 Result
 Amount
 % Rec
 Limits

 Lab Control Sample
 K1205452-LCS3
 1180
 1240
 95
 90-108

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Now part of the ALS Group

Analytical Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

SM 4500-CN- E

Prep Method:

Analysis Method:

SM 4500-CN-C

Service Request: K1205452

**Date Collected:** 06/6/12

Date Received: 06/7/12

Units: mg/L

Basis: NA

Cyanide, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
MW-11	K1205452-001	ND U	0,010	1	06/19/12 17:53	6/19/12	
Method Blank	K1205452-MB1	ND U	0.0047	1	06/19/12 17:53	6/19/12	

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Service Request: K1205452

Project

Sudbury Road Landfill RI

**Date Collected:** 

06/06/12

Sample Matrix:

Water

Date Received:

Date Analyzed:

06/07/12

Replicate Sample Summary

06/19/12

**General Chemistry Parameters** 

Sample Name:

MW-11

Units: Basis: mg/L

NA

Lab Code:

K1205452-001

Duplicate

Sample

K1205452-

Sample

001DUP4

RPD Limit Result RPD Analyte Name **Analysis Method** MRL Result Average ND NDNC NC 20 Cyanide, Total SM 4500-CN-E 0.010

Results flagged with an asterisk (\*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded,

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QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/06/12

Date Received: 06/07/12

Date Analyzed: 06/19/12

Date Extracted: 06/19/12

Units: mg/L

Basis: NA

**Duplicate Matrix Spike Summary** 

Cyanide, Total

Sample Name:

MW-11

Lab Code:

K1205452-001

Analysis Method:

SM 4500-CN- E

Prep Method:

SM 4500-CN-C

Matrix Spike

Duplicate Matrix Spike

K1205452-001MS2

K1205452-001DMS2

**RPD** Spike % Rec Sample Spike % Rec Limits RPD Limit Result % Rec Amount Analyte Name Result Amount Result 94 0.100 23-148 20 0,100 0,097 Cyanide, Total  $\overline{ND}$ 0.094

Results flagged with an asterisk (\*) indicate values outside control criteria.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Analyzed: 06/19/12

Date Extracted: 06/19/12

Lab Control Sample Summary

Cyanide, Total

Analysis Method:

SM 4500-CN-E

Prep Method:

SM 4500-CN-C

Units: mg/L

Basis: NA

Analysis Lot: 297025

iatysis Bot. 277025

 Sample Name
 Lab Code
 Result
 Amount
 % Rec
 Limits

 Lab Control Sample
 K1205452-LCS3
 1.47
 1.46
 101
 84-115

Now part of the ALS Group

Analytical Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Service Request: K1205452 **Date Collected:** 06/6/12

Sample Matrix:

Water

Date Received: 06/7/12

Analysis Method:

SM 4500-NH3 E

Units: mg/L Basis: NA

Ammonia as Nitrogen

					Date	
Sample Name	Lab Code	Result	MRL	Dil,	Analyzed	Q
MW-11	K1205452-001	0.051	0.050	1	06/11/12 08:30	
MW-21D	K1205452-002	ND U	0.050	1	06/11/12 08:30	
MW-21S	K1205452-003	ND U	0.050	1	06/11/12 08:30	
MW-22D	K1205452-004	ND U	0.050	1	06/11/12 08:30	
MW-22S	K1205452-005	ND U	0.050	1	06/11/12 08:30	
Method Blank	K1205452-MB1	ND U	0.050	I	06/11/12 08:30	
Method Blank	K1205452-MB2	ND U	0.050	1	06/11/12 08:30	

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QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205452

Project

Sudbury Road Landfill RI

**Date Collected:** 

06/06/12

Sample Matrix:

Water

Date Received:

06/07/12

Date Analyzed:

06/11/12

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name:

MW-11

Units:

mg/L

Lab Code:

K1205452-001

Basis: NA

Duplicate Sample

K1205452-

Sample

001DUP4

Analyte Name

**Analysis Method** 

MRL

Result

Result

Average

RPD RPD Limit\_

Ammonia as Nitrogen

SM 4500-NH3 E

0.050

0.051

ND

NC

NC

20

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QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/06/12

**Date Received:** 06/07/12

Date Analyzed: 06/11/12

Matrix Spike Summary Ammonia as Nitrogen

Sample Name:

MW-11

Lab Code:

K1205452-001

Analysis Method:

SM 4500-NH3 E

Units: mg/L

Basis: NA

Matrix Spike K1205452-001MS3

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	0.051	10.2	10.0	101	80-115

Results flagged with an asterisk (\*) indicate values outside control criteria.

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QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Date Analyzed: 06/11/12

Service Request: K1205452

Sample Matrix:

Water

Lab Control Sample Summary Ammonia as Nitrogen

Analysis Method:

SM 4500-NH3 E

Units: mg/L

Basis: NA

Analysis Lot: 295524

			Spike		% Rec
Sample Name	Lab Code	Result	Amount	% Rec	Limits
Lab Control Sample	K1205452-LCS3	14.3	13.9	103	80-115
Lab Control Sample	K1205452-LCS4	13.6	13.9	98	80-115

Now part of the ALS Group

Analytical Report

Client: Project: Schwyn Environmental Services

Sudbury Road Landfill RI

Service Request: K1205452

**Date Collected:** 06/6/12

Sample Matrix:

Water

Date Received: 06/7/12

Analysis Method:

SM 4500-S2-D

Units: mg/L

Basis: NA

**Total Sulfide** 

					Date	
Sample Name	Lab Code	Result	MRL	Dil.	Analyzed	Q
MW-11	K1205452-001	ND U	0,050	1	06/08/12 22:29	
Method Blank	K1205452-MB1	ND U	0.050	1	06/08/12 22:29	

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QA/QC Report

Client:

Schwyn Environmental Services

Service Request:

K1205452

Project

Sudbury Road Landfill RI

**Date Collected:** 

06/06/12

Sample Matrix:

Water

Date Received:

06/07/12

Replicate Sample Summary

Date Analyzed:

06/08/12

**General Chemistry Parameters** 

Sample Name:

MW-11

Units:

mg/L

RPD Limit

20

Lab Code:

K1205452-001

Basis: NA

Duplicate

Sample K1205452-

Sample

001DUP4

Analyte Name **Analysis Method** MRL Result Result RPD Average Total Sulfide SM 4500-S2-D 0.050 ND ND NC NC

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/06/12

Date Received: 06/07/12

Date Analyzed: 06/8/12

**Duplicate Matrix Spike Summary** 

Total Sulfide

Sample Name:

MW-11

Lab Code:

K1205452-001

Units: mg/L

Basis: NA

Analysis Method:

SM 4500-S2-D

Matrix Spike

K1205452-001MS2

**Duplicate Matrix Spike** 

K1205452-001DMS2

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Total Sulfide	ND	1,69	1.77	96	1.70	1.77	96	70-120	<1	20

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Service Request: K1205452

Date Analyzed: 06/08/12

Sample Matrix:

Water

Lab Control Sample Summary

**Total Sulfide** 

Analysis Method:

SM 4500-S2-D

Units: mg/L

Basis: NA

Analysis Lot: 295328

Spike % Ree Lab Code Amount % Rec Limits Sample Name Result Lab Control Sample K1205452-LCS3 1.63 1.77 92 89-106

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Now part of the ALS Group

Analytical Report

Client:

Schwyn Environmental Services

Project:

Sample Matrix:

Analysis Method:

Water

SM 5310 C

Sudbury Road Landfill RI

Service Request: K1205452 **Date Collected:** 06/6/12

Date Received: 06/7/12

Units: mg/L Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1205452-001	0.66	0.50	I	06/13/12 10:00	
MW-21D	K1205452-002	0.71	0.50	1	06/13/12 10:00	
MW-21S	K1205452-003	0.85	0.50	1	06/13/12 10:00	
MW-22D	K1205452-004	0.73	0,50	1	06/13/12 10:00	
MW-22S	K1205452-005	0.74	0.50	1	06/13/12 10:00	
Method Blank	K1205452-MB1	ND U	0.50	1	06/13/12 10:00	
Method Blank	K1205452-MB2	ND U	0.50	1	06/13/12 10:00	
Method Blank	K1205452-MB3	ND U	0.50	1	06/18/12 18:17	
Method Blank	K1205452-MB4	ND U	0.50	I	06/18/12 18:17	

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

**Project** 

Sudbury Road Landfill RI

Service Request:

K1205452

Sample Matrix:

Date Collected:

06/06/12

Water

Date Received:

06/07/12

Analysis Method:

SM 5310 C

Units: mg/L

Basis: NA

#### **Duplicate Sample Summary** Carbon, Total Organic

			Sample	Duplicate			RPD	Date
Sample Name:	Lab Code:	MRL	Result	Result	Average	RPD	Limit	Analyzed
MW-11	K1205452-001DUP4	0.50	0,66	0.63	0.648	5	10	06/13/12
MW-21D	K1205452-002DUP5	0.50	0.71	0.74	0.723	5	10	06/13/12
MW-21S	K1205452-003DUP6	0.50	0.85	0.83	0.840	2	10	06/13/12
MW-22D	K1205452-004DUP7	0.50	0.73	0,84	0.783	14 *	10	06/13/12
MW-22S	K1205452-005DUP8	0.50	0.74	0.79	0.761	7	10	06/13/12

Results flagged with an asterisk (\*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/06/12

Date Received: 06/07/12 Date Analyzed: 06/13/12

Matrix Spike Summary

Carbon, Total Organic

Sample Name:

MW-11

Lab Code:

Analysis Method:

K1205452-001

SM 5310 C

Units: mg/L

Basis: NA

Matrix Spike K1205452-001MS3

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	0.66	25.7	25.0	100	83-117

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded,

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Service Request: K1205452

Sample Matrix:

Water

Date Analyzed: 06/18/12

**Duplicate Lab Control Sample Summary** 

**General Chemistry Parameters** 

Analysis Method:

SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 296664

Lab Control Sample K1205452-LCS1

**Duplicate Lab Control Sample** K1205452-DLCS1

		Spike			Spike		% Rec		RPD
Analyte Name	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Carbon Total Organic	22.1	22.7	97	21.9	22.7	96	83-117	1	10

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Service Request: K1205452

Sample Matrix:

Water

Date Analyzed: 06/18/12

**Duplicate Lab Control Sample Summary** 

**General Chemistry Parameters** 

Analysis Method:

SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 296664

Lab Control Sample K1205452-LCS2

**Duplicate Lab Control Sample** K1205452-DLCS2

		Spike			Spike		% Rec		RPD
Analyte Name	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Carbon, Total Organic	22.2	22.7	98	22.0	22.7	97	83-117	1	10

#### - Cover Page -INORGANIC ANALYSIS DATA PACKAGE

Client: Project Name: Schwyn Environmental Services Sudbury Road Landfill RI

Project No.:

Service Request: K1205452

Sample Name:	Lab Code:
MW-11	K1205452-001
MW-11D	K1205452-001D
MW-11	K1205452-001DISS
MW-11D	K1205452-001DISSD
MW-11S	K1205452-001DISSS
MW-11S	K1205452-001S
MW-21D	K1205452-002DISS
MW-21S	K1205452-003DISS
MW-22D	K1205452-004DISS
MW-22S	K1205452-005DISS
Method Blank	K1205452-MB

Comments:

Date: Approved By:

#### Metals

-1-

#### **INORGANIC ANALYSIS DATA PACKAGE**

Client:

Schwyn Environmental Services

Service Request: K1205452

Project No.: NA

Date Collected:

06/06/12

\_

Project Name: Sudbury Road Landfill RI

Date Received:

06/07/12

Matrix:

WATER

.

Units:

ug/L

Basis: NA

Sample Name:

MW-11

Lab Code:

K1205452-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	U	Q
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	Ū	
Nickel	6010C	2.0	1.0	06/11/12	06/20/12	8.4		

#### Metals

### - 1 - INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services

Service Request: K1205452

Project No.: NA

Date Collected: 06/06/12

Project Name: Sudbury Road Landfill RI

Date Received: 06/07/12

Units: ug/L

Basis: NA

Sample Name:

Matrix:

MW-11

WATER

Lab Code:

K1205452-001DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Antimony	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Arsenic	6010C	10.0	1.0	06/11/12	06/20/12	10.0	ט	
Barium	6010C	2,0	1.0	06/11/12	06/20/12	66.9		
Beryllium	6010C	0.2	1.0	06/11/12	06/20/12	0.2	υ	
Cadmium	6010C	0.5	1.0	06/11/12	06/20/12	0.5	U	
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	89400		
Chromium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	บ	
Cobalt	6010C	1.0	1.0	06/11/12	06/20/12	1.0	บ	
Copper	6010C	2.0	1.0	06/11/12	06/20/12	2.0	Ŭ	
Iron	6010c	20.0	1.0	06/11/12	06/20/12	20.0	บ	
Lead	6010C	10.0	1.0	06/11/12	06/20/12	10.0	υ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	35400		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	5.0	Ū	
Potassium	6010C	400	1.0	06/11/12	06/20/12	8010		
Selenium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	บ	į.
Silver	6010C	2.0	1.0	06/11/12	06/20/12	2.0	υ	
Sodium	6010C	200	1.0	06/11/12	06/20/12	36700		
Thallium	6010C	10.0	1.0	06/11/12	06/20/12	10.0	υ	
Tin	6010c	10.0	1.0	06/11/12	06/20/12	10.0	υ	
Vanadium	6010C	2.0	1.0	06/11/12	06/20/12	14.2		
Zinc	6010C	2.0	1.0	06/11/12	06/20/12	2.0	บ	

#### Metals

#### - 1 -INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

K1205452 Service Request:

Project No.:

Date Collected:

06/06/12

Project Name: Sudbury Road Landfill RI

Date Received:

06/07/12

Matrix:

WATER

Units: ug/L

Basis: ΝA

Sample Name:

MW-21D

Lab Code:

K1205452-002DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	119000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	บ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	53900		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	8.1		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7730		
Sodium	6010C	200	1.0	06/11/12	06/20/12	19200		

#### Metals

### - 1 - INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

Service Request: K1205452

Project No.: NA

-

Date Collected: 06/06/12

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Project Name: Sudbury Road Landfill RI

Date Received: 06/07/12

Matrix:

WATER

Units: ug/L

Basis: NA

Sample Name:

MW-21S

Lab Code:

K1205452-003DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	116000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	บ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	49300		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	159		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7930		
Sodium	6010C	200	1.0	06/11/12	06/20/12	25400		

#### Metals

#### - 1 -INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services

Service Request: K1205452

Project No.: NA

Date Collected:

06/06/12

2

Project Name: Sudbury Road Landfill RI

Date Received:

06/07/12

Matrix:

WATER

Units: u

Units: ug/L

Basis: NA

Sample Name:

MW-22D

Lab Code:

K1205452-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	121000	Ì	
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	บ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	54500		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	236		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7980		
Sodium	6010C	200	1.0	06/11/12	06/20/12	19200		

#### Metals

#### - 1 -

#### INORGANIC ANALYSIS DATA PACKAGE

Client:

Schwyn Environmental Services

Service Request: K1205452

Project No.:

Date Collected:

06/06/12

Project Name: Sudbury Road Landfill RI

06/07/12

Matrix:

WATER

Date Received:

ug/L

Units:

Basis: NA

Sample Name:

MW-22S

Lab Code:

K1205452-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Õ
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	122000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	บ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	52800		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	15.5		
Potassium	6010C	400	1.0	06/11/12	06/20/12	8080		
Sodium	6010C	200	1.0	06/11/12	06/20/12	25500		

#### Metals

#### -1-**INORGANIC ANALYSIS DATA PACKAGE**

Client:

Schwyn Environmental Services

Service Request:

K1205452

Project No.:

Date Collected:

Project Name: Sudbury Road Landfill RI

Date Received:

Matrix:

WATER

ug/L Units:

Basis: NA

Sample Name:

Method Blank

Lab Code:

K1205452-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	С	Q
Antimony	6010C	10.0	1.0	06/11/12	06/20/12	10.0	ប	
Arsenic	6010C	10.0	1.0	06/11/12	06/20/12	10.0	บ	
Barium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Beryllium	6010C	0.2	1.0	06/11/12	06/20/12	0.2	ט	
Cadmium	6010C	0.5	1.0	06/11/12	06/20/12	0.5	U	
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	50.0	บ	
Chromium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Cobalt	6010C	1.0	1.0	06/11/12	06/20/12	1.0	ט	
Copper	6010C	2.0	1.0	06/11/12	06/20/12	2.0	บ	
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	Ū	
Lead	6010C	10.0	1.0	06/11/12	06/20/12	10.0	บ	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	ט	
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	5.0	ט	
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	U	
Potassium	6010c	400	1.0	06/11/12	06/20/12	400	U	
Selenium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Silver	6010c	2.0	1.0	06/11/12	06/20/12	2.0	ט	
Sodium	6010C	200	1.0	06/11/12	06/20/12	200	ט	
Thallium	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Tin	6010C	10.0	1.0	06/11/12	06/20/12	10.0	ט	
Vanadium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	ם	
Zinc	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	

#### Metals - 5A -SPIKE SAMPLE RECOVERY

Client:

Schwyn Environmental Services

Service Request: K1205452

Project No.:

NA

Units: UG/L

Project Name: Sudbury Road Landfill RI

Basis: NΑ

Matrix:

WATER

Sample Name: MW-11S

Lab Code: K1205452-001S

Analyte	Control Limit %R	Spike Result	C Sample Result	С	Spike Added	%R	Q	Method
Antimony	86 - 116	479	10.0	ט	500.00	95.8		6010C
Arsenic	79 - 121	949	10.0	ט	1000.00	94.9		6010C
Barium	80 - 124	2000	67.3		2000.00	96.6		6010C
Beryllium	87 - 114	48.8	0.2	ט	50.00	97.6		6010C
Cadmium	75 - 125	47.2	0.5	ប	50.00	94.4		6010C
Calcium		99000	90000		10000.00	90.0		6010C
Chromium	89 - 117	194	2.0	ַט	200.00	97.0		6010C
Cobalt	88 - 117	480	1.0	ט	500.00	96.0		6010C
Copper	86 - 113	233	2.0	ប	250.00	93.2		6010C
Iron	75 - 125	967	20.0	ប	1000.00	96.7		6010C
Lead	75 - 125	493	10.0	ប	500.00	98.6		6010C
Magnesium	75 - 125	45000	35400	1	10000.00	96.0		6010C
Manganese	84 - 121	480	5.0	ט	500.00	96.0		6010C
Mercury	76 - 126	1.00	0.2	ט	1.00	100.0		7470A
Potassium	75 - 125	17900	8020		10000.00	98.8		6010C
Selenium	82 - 119	913	20.0	U	1000.00	91.3		6010C
Silver	79 - 120	47.0	2.0	ט	50.00	94.0		6010C
Sodium	75 - 125	46300	36500		10000.00	98.0		6010C
Thallium	75 - 125	1010	10.0	ט	1000.00	101.0		6010C
Tin	75 - 125	10300	10.0	ט	10000.00	103.0		6010C
Vanadium	89 - 115	518	13.7		500.00	100.9		6010C
Zinc	87 - 113	462	2.0	ט	500.00	92.4		6010C

#### Metals - 5A -SPIKE SAMPLE RECOVERY

Client:

Schwyn Environmental Services

Service Request: K1205452

Project No.:

Project Name: Sudbury Road Landfill RI

Units: UG/L

Basis: NA

Matrix:

WATER

Sample Name: MW-11S

Lab Code: K1205452-001DISSS

Analyte	Control Limit %R	Spike Result	С	Sample Result	С	Spike Added	%R	Q	Method
Antimony	86 - 116	474		10.0	ָט	500.00	94.8		6010C
Arsenic	79 - 121	952		10.0	U	1000.00	95.2		6010C
Barium	80 - 124	2010		66.9		2000.00	97.2		6010C
Beryllium	87 - 114	48.7		0.2	U	50.00	97.4		6010C
Cadmium	75 - 125	47.5		0.5	ט	50.00	95.0		6010C
Calcium	į	98500		89400		10000.00	91.0		6010C
Chromium	89 - 117	196	******	2.0	U	200.00	98.0		6010C
Cobalt	88 - 117	480		1.0	U	500.00	96.0		6010C
Copper	86 - 113	231		2.0	U	250.00	92.4		6010C
Iron	75 - 125	963	OHANGEUP CO	20.0	U	1000.00	96.3		6010C
Lead	75 - 125	498		10.0	υ	500.00	99.6		6010C
Magnesium	75 - 125	44400		35400		10000.00	90.0		6010C
Manganese	84 - 121	484		5.0	U	500.00	96.8		6010C
Potassium	75 - 125	17600		8010		10000.00	95.9		6010C
Selenium	82 - 119	919		20.0	ט	1000.00	91.9		6010C
Silver	79 - 120	46.8		2.0	U	50.00	93.6		6010C
Sodium	75 - 125	45400		36700		10000.00	87.0		6010C
Thallium	75 - 125	1020		10.0	U	1000.00	102.0		6010C
Tin	75 - 125	10400		10.0	บ	10000.00	104.0		6010C
Vanadium	89 - 115	521		14.2		500.00	101.4		6010C
Zinc	87 - 113	468		2.0	บ	500.00	93.6		6010C

#### Metals

#### - 6 -**DUPLICATES**

Client:

Schwyn Environmental Services

Service Request: K1205452

Project No.:

Units: UG/L

Basis:

NΑ

Matrix:

WATER

Project Name: Sudbury Road Landfill RI

Sample Name:

MW-11D

Lab Code: K1205452-001D

Analyte	nalyte Control Sample (S)		С	Duplicate (D)	С	RPD	ō	Method
Antimony		10.0	ט	10.0	บ		j	6010C
Arsenic		10.0	υ	10.0	U			6010C
Barium	20	67.3		67.1		0.3	Ì	6010C
Beryllium		0.2	U	0.2	Ū		į	6010C
Cadmium		0.5	υ	0.5	บ			6010C
Calcium	20	90000		89100		1.0		6010C
Chromium		2.0	υ	2.0	ט		Ì	6010C
Cobalt		1.0	U	1.0	Ū			6010C
Copper		2.0	U	2.0	Ū			6010C
Iron		20.0	U	20.0	Ų		Ì	6010C
Lead		10.0	U	10.0	ប			6010C
Magnesium	20	35400		35600		0.6		6010C
Manganese		5.0	υ	5.0	ט		į	6010C
Mercury		0.2	υ	0.2	U			7470A
Potassium	20	8020		8070		0.6	į	6010C
Selenium		20.0	υ	20.0	บ			6010C
Silver		2.0	υ	2.0	Ų		ĺ	6010C
Sodium	20	36500		36800		0.8		6010C
Thallium		10.0	U	10.0	Ū			6010C
Tin		10.0	U	10.0	ט		j	6010C
Vanadium	20	13.7		13.4		2,2		6010C
Zinc		2.0	U	2.0	Ų		Ì	6010C

Now part of the ALS Group

#### Metals

# - 6 -**DUPLICATES**

Client:

Schwyn Environmental Services

Service Request: K1205452

Project No.: NΑ

Units:

UG/L

Project Name: Sudbury Road Landfill RI

Basis:

Matrix:

WATER

Sample Name:

MW-11D

Lab Code:

K1205452-001DISSD

Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	Method
Antimony		10.0	U	10.0	U			6010C
Arsenic		10.0	U	10.0	บ			6010C
Barium	20	66.9		66.2		1.1		6010C
Beryllium		0.2	U	0.2	U		ĺ	6010C
Cadmium		0.5	U	0.5	U		ļ	6010C
Calcium	20	89400		88600		0.9		6010C
Chromium		2.0	บ	2.0	บ			6010C
Cobalt		1.0	บ	1.0	ប			6010C
Copper		2.0	U	2.0	U			6010C
Iron		20.0	บ	20.0	ប			6010C
Lead		10.0	บ	10.0	บ		Ī	6010C
Magnesium	20	35400		35100		0.9	1	6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	8010		7910		1.3		6010C
Selenium		20.0	ט	20.0	υ			6010C
Silver		2.0	ט	2.0	Ū			6010C
Sodium	20	36700		36300		1.1		6010C
Thallium		10.0	υ	10.0	บ			6010C
Tin		10.0	Ū	10.0	Ū		-	6010C
Vanadium	20	14.2		13.6		4.3		6010C
Zinc		2.0	Ū	2.0	υ		į	6010C

# COLUMBIA ANALYTICAL SERVICES, INC. Now part of the ALS Group

# Metals

# LABORATORY CONTROL SAMPLE

Client:

Schwyn Environmental Services

Service Request: K1205452

Project No.:

NA

Project Name: Sudbury Road Landfill RI

Aqueous LCS Source:

CAS MIXED

Solid LCS Source:

	Aqueous (ug/L)			Solid (mg/kg)					
Analyte	True	Found	%R	True	Found	С	<u>Limi</u> ts	%R	
Antimony	2500	2450	98.0		1				
Arsenic	2500	2400	96.0						
Barium	5000	4890	97.8		1				
Beryllium	125	123	98.4				]		
Cadmium	1250	1210	96.8						
Calcium	12500	12200	97.6						
Chromium	500	493	98.6		_		<u> </u>		
Cobalt	1250	1240	99.2						
Copper	625	604	96.6						
Iron	2500	2380	95.2						
Lead	2500	2470	98.8						
Magnesium	12500	12200	97.6						
Manganese	1250	1240	99.2						
Mercury	5	5.16	103.2				<u> </u>		
Potassium	12500	12300	98.4						
Selenium	2500	2370	94.8						
Silver	625	587	93.9						
Sodium	12500	12400	99.2				<u> </u>		
Thallium	2500	2540	101.6				<u> </u>		
Tin	10000	10000	100.0						
Vanadium	1250	1260	100.8						
Zinc	1250	1190	95.2		1	II			

		:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

# Organochlorine Pesticides

Sample Name:

MW-11

Lab Code:

K1205452-001

Extraction Method:

EPA 3535A

Analysis Method:

8081B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0,0099	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND	U	0.50	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Tetrachloro-m-xylene	88	20-106	06/15/12	Acceptable	
Decachlorobiphenyl	105	19-127	06/15/12	Acceptable	

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: NA
Date Received: NA

# **Organochlorine Pesticides**

Sample Name:

Lab Code:

Method Blank KWG1206513-6

**Extraction Method:** 

TD 1 0 50 5 1

Analysis Method:

EPA 3535A 8081B Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	0	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND		0.0098	1	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND		0.0098	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND		0.0098	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND		0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.0098	I	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0,0098	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND	U	0.49	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	74	20-106	06/15/12	Acceptable
Decachlorobipheuyl	91	19-127	06/15/12	Acceptable

Comments:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Surrogate Recovery Summary **Organochlorine Pesticides** 

**Extraction Method:** EPA 3535A

Analysis Method:

8081B

Units: PERCENT

Level: Low

Sample Name	Lab Code	Sur1	Sur2
MW-11	K1205452-001	88	105
Method Blank	KWG1206513-6	74	91
MW-11MS	KWG1206513-1	74	91
MW-11DMS	KWG1206513-2	74	91
Lab Control Sample	KWG1206513-3	74	87
Lab Control Sample	KWG1206513-4	70	91
Duplicate Lab Control Sample	KWG1206513-5	69	79

Surrogate Recovery Control Limits (%)

20-106 Surl = Tetrachloro-m-xylene 19-127 Sur2 = Decachlorobiphenyl

Results flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a pound (#) iudicate the control criteria is not applicable.

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Form 2A - Organic

Page 1 of 1

SuperSet Reference: RR142710

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Extracted: 06/13/2012

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG1206513

Date Analyzed: 06/15/2012

# Matrix Spike/Duplicate Matrix Spike Summary **Organochlorine Pesticides**

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** Analysis Method:

EPA 3535A

8081B

MW-11MS

MW-11DMS

KWG1206513-2

KWG1206513-1 **Duplicate Matrix Spike** Matrix Spike %Rec RPD Sample RPD Limits Limit Result %Rec %Rec Expected Expected Result Result Analyte Name 30 3 91 31-123 ND 0.174 0.196 89 0.1790.196alpha-BHC 30 83 0.169 0.196 86 31-118 3 0.196beta-BHC ND 0.164 31-123 30 ND 0.177 0.196 90 0.1820.196 93 3 gamma-BHC (Lindane) 30 96 0.196 99 40-129 3 0.196 0.194ND 0.188delta-BHC 30 89 0.196 94 23-124 6 ND 0.174 0.196 0.184Heptachlor 76 18-111 12 30 0.196 ND 0.1330.196 68 0.150 Aldrin 30 0.196 87 0.176 0.196 90 28-122 3 ND 0.171 Heptachlor Epoxide 0.19674 17-118 4 30 71 ND 0.1390.1960.145Endosulfan I 0.176 0.196 90 32-121 3 30 0.171 0.196 87 ND Dieldrin 24-129 4 30 0.196 88 0.166 0.196 85 0.173 ND 4,4'-DDE 34-133 8 30 88 0.196 95 0.173 0.196 0.186 ND Endrin 30 3 0.196 79 0.159 0.19681 19-122 ND) 0.154 Endosulfan II 0.196 90 29-125 4 30 0.196 87 0.177 0.170 4,4'-DDD ND 30 10-108 2 ND 0.169 0.196 86 0.172 0.196 88 Endrin Aldehyde 2 30 88 0.196 90 30-120 0.1960.176 Endosulfan Sulfate ND 0.17297 28-139 3 30 94 0.190 0.196 ND 0.184 0.196 4.4'-DDT 30 0.196 96 30-137 4 0.196 93 0.189 ND 0.182Methoxychlor

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

1 of Page

RR142710 SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Clicnt:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/13/2012

**Date Analyzed:** 06/15/2012

Lab Control Spike Summary Organochlorine Pesticides

Extraction Method:

EPA 3535A

Analysis Method:

8081B

Units: ug/L

Basis: NA Level: Low

Extraction Lot: KWG1206513

Lab Control Sample KWG1206513-3

Lab Control Spike %Rec Limits %Rec Analyte Name Result Expected 89 36-122 0.1780.200alpha-BHC 0.20083 42-125 0.166 beta-BHC 44-117 90 gamma-BHC (Lindane) 0.1790.200 delta-BHC 0.191 0.200 96 48-123 0.200 90 40-115 0.180Heptachlor 10-102 0.200 69 0.139 Aldrin 49-109 87 0.1730.200Heptachlor Epoxide 71 35-115 Endosulfan I 0.1410.200Dieldrin 0.1730.200 86 50-115 0.200 83 41-116 0.1674,4'-DDE 0.200 90 48-126 0.180Endrin 77 28-128 0.200 Endosulfan II 0.154 86 33-132 4,4'-DDD 0.1720.200 27-104 Endrin Aldehyde 0.157 0.200 78 0.169 0.200 84 38-118 Endosulfan Sulfate 92 42-143 0.200 4.4'-DDT 0.18388 43-143 0.1760.200Methoxychlor

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

Page 1 of 1

RR142710 SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/13/2012 **Date Analyzed:** 06/15/2012

# Lab Control Spike/Duplicate Lab Control Spike Summary Organochlorine Pesticides

Extraction Method:

EPA 3535A

Analysis Method:

8081B

organochiorine resticides

Units: ug/L

Basis: NA Level: Low

Extraction Lot: KWG1206513

Lab Control Sample

KWG1206513-4

Duplicate Lab Control Sample

KWG1206513-5

Duplicate Lab Control Spike Lab Control Spike %Rec RPD Limits **RPD** Limit %Rec %Rec Result Expected Result Expected Analyte Name 45-148 15 30 2.22 2.00 111 1.91 2.00 96 Chlordane 2.00 94 36-137 30 1.85 2.00 92 1.87 1 Toxaphene

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

Page 1 of 1

SuperSet Reference: RR142710

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Now part of the ALS Group

Analytical Results

Client: Project: Schwyn Environmental Services Sudbury Road Landfill RI

Sample Matrix: W

Water

Service Request: K1205452

Date Collected: 06/06/2012

Date Received: 06/07/2012

# Polychlorinated Biphenyls (PCBs)

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 3535A

Analysis Method:

8082A

Units: ug/L Basis: NA

Level: Low

		Dilution	Date	Date	Extraction	
Result Q	MRL	Factor	Extracted	Analyzed	Let	Note
ND U	0.20	J	06/13/12	06/17/12	KWG1206512	
ND U	0.40	1	06/13/12	06/17/12	KWG1206512	
ND U	0.20	l	06/13/12	06/17/12	KWG1206512	
ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
ND U	0.20	I	06/13/12	06/17/12	KWG1206512	
ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
	ND U	ND U 0.20 ND U 0.40 ND U 0.20 ND U 0.20 ND U 0.20 ND U 0.20 ND U 0.20 ND U 0.20	Result Q         MRL         Factor           ND U         0.20         1           ND U         0.40         1           ND U         0.20         1	Result Q         MRL         Factor         Extracted           ND U         0.20         1         06/13/12           ND U         0.40         1         06/13/12           ND U         0.20         1         06/13/12	Result Q         MRL         Factor         Extracted         Analyzed           ND U         0.20         1         06/13/12         06/17/12           ND U         0.40         1         06/13/12         06/17/12           ND U         0.20         1         06/13/12         06/17/12	Result Q         MRL         Factor         Extracted         Analyzed         Lot           ND U         0.20         1         06/13/12         06/17/12         KWG1206512           ND U         0.40         1         06/13/12         06/17/12         KWG1206512           ND U         0.20         1         06/13/12         06/17/12         KWG1206512

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	105	36-113	06/17/12	Acceptable

Comments:

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services

Project: Sudbury Road Landfill RI

Sample Matrix: Water

Service Request: K1205452

Date Collected: NA
Date Received: NA

# Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank Lab Code: KWG1206512-4

Extraction Method:

EPA 3535A

Analysis Method:

8082A

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND U	0.39	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND U	0.20	1	06/13/12	06/17/12	KWG1206512	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	101	36-113	06/17/12	Acceptable

Comments:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Surrogate Recovery Summary Polychlorinated Biphenyls (PCBs)

**Extraction Method:** Analysis Method:

EPA 3535A

8082A

Units: PERCENT

Level: Low

Sample Name	Lab Code	<u>Sur1</u>
MW-11	K1205452-001	105
Method Blank	KWG1206512-4	101
MW-11MS	KWG1206512-1	98
MW-11DMS	KWG1206512-2	102
Lab Control Sample	KWG1206512-3	91

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl

36-113

Results flagged with an asterisk (\*) indicate values outside control criteria.

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Form 2A - Organic

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SuperSet Reference: RR142731

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Extracted:** 06/13/2012

**Date Analyzed:** 06/17/2012

Matrix Spike/Duplicate Matrix Spike Summary Polychlorinated Biphenyls (PCBs)

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** Analysis Method:

EPA 3535A

8082A

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG1206512

MW-11MS

**MW-11DMS** 

KWG1206512-1

KWG1206512-2

	Sample		Matrix Spike			cate Matrix S		%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Aroclor 1016	CIN	1.85	1.96	94	1.72	1.96	88	31-118	7	30
Aroclor 1260	ND	1.86	1.96	95	1.75	1.96	89	47-115	6	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

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SuperSet Reference: RR142731

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/13/2012

**Date Analyzed:** 06/17/2012

Lab Control Spike Summary Polychlorinated Biphenyls (PCBs)

**Extraction Method:** 

EPA 3535A

**Analysis Method:** 

8082A

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG1206512

Lab Control Sample KWG1206512-3

Lab Control Spike %Rec Limits Result Expected %Rec Analyte Name Aroclor 1016 1.67 2.00 83 41-113 1.74 2.00 87 47-117 Aroclor 1260

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been roonded.

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Form 3C - Organic

Page 1 of 1

SuperSet Reference: RR142731

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

# Organophosphorus Pesticides

Sample Name:

MW-11

Lab Code:

K1205452-001

Extraction Method:

EPA 3535A

Analysis Method:

8141B

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Phorate	ND U	0.50	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND U	0.99	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND U	0,50	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND U	0.50	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND U	0.50	1	06/13/12	06/24/12	KWG1206535	4.2-75

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
ributyl Phosphate	107	54-115	06/24/12	Acceptable
riphenyl Phosphate	95	57-112	06/24/12	Acceptable

Comments:

SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: NA Date Received: NA

# Organophosphorus Pesticides

Sample Name: Lab Code:

Method Blank

KWG1206535-6

Units: ug/L Basis: NA

Extraction Method: Analysis Method:

EPA 3535A

8141B

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phorate	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND U	0.98	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND U	0,49	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND U	0.49	1	06/13/12	06/24/12	KWG1206535	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fributyl Phosphate	104	54-115	06/24/12	Acceptable
Friphenyl Phosphate	86	57-112	06/24/12	Acceptable

Comments:	
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SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Surrogate Recovery Summary Organophosphorus Pesticides

Extraction Method: EPA 3535A

Analysis Method:

8141B

Units: PERCENT

Level: Low

~	7 1 C 1	C1	S3
Sample Name	Lab Code	<u>Sur1</u>	Sur2
MW-11	K1205452-001	107	95
Batch QC	K1205520-007	100	86
Batch QC	K1205520-008	99	93
Batch QC	K1205520-009	105	96
Method Blank	KWG1206535-6	104	86
MW-11MS	KWG1206535-1	102	85
MW-11DMS	KWG1206535-2	98	89
Lab Control Sample	KWG1206535-3	98	81
Lab Control Sample	KWG1206535-4	102	86
Duplicate Lab Control Sample	KWG1206535-5	100	88

Surrogate Recovery Control Limits (%)

54-115 Surl = Tributyl Phosphate Sur2 = Triphenyl Phosphate 57-112

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Form 2A - Organic

Page 1 of 1

SuperSet Reference: RR143051

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Extracted: 06/13/2012

**Date Analyzed:** 06/24/2012

# Matrix Spike/Duplicate Matrix Spike Summary Organophosphorus Pesticides

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 3535A

Analysis Method:

8141B

Units: ug/L Basis: NA

Level: Low

**Extraction Lot:** KWG1206535

MW-11MS

MW-11DMS KWG1206535-2

	Sample		VG1206535- Matrix Spike	I		VG1206535-: cate Matrix S		%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Sulfotep	ND	1.65	1.98	83	1.65	1.96	84	40-111	0	30
Methyl Parathion	ND	2.31	1.98	116	2.21	1.96	113	44-127	4	30
Ethyl Parathion	ND	1.91	1.98	96	1.90	1.96	97	46-127	0	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

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SuperSet Reference: RR143051

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Extracted: 06/13/2012

**Date Analyzed:** 06/24/2012

Lab Control Spike Summary Organophosphorus Pesticides

Extraction Method: EPA 3535A

Analysis Method:

8141B

Units: ug/L Basis: NA

Level: Low Extraction Lot: KWG1206535

Lab Control Sample KWG1206535-3 Lab Control Snike

	1.41.7	Control phis		%Rec	
Analyte Name	Result	Expected	%Rec	Limits	
Sulfotep	1.57	2.00	78	40-111	
Methyl Parathion	2.16	2.00	108	44-127	
Ethyl Parathion	1.74	2.00	87	46-127	

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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1 of 1

SuperSct Reference:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/13/2012

Date Analyzed: 06/24/2012 -

06/26/2012

Lab Control Spike/Duplicate Lab Control Spike Summary Organophosphorus Pesticides

Extraction Method: EPA 3535A

Analysis Method:

8141B

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG1206535

Lab Control Sample

KWG1206535-4

**Duplicate Lab Control Sample** 

KWG1206535-5

	Lab	Control Spik	e	Duplicate	e Lab Control	Spike	%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Phorate	2.05	2.00	102	1,97	2.00	98	29-128	4	30
Disulfoton	2.24	2.00	112	2.09	2.00	104	33-119	7	30
Dimethoate	1.90	2.00	95	2.00	2.00	100	35-132	5	30

Results flagged with an asterisk (\*) iudicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Collected:** 06/06/2012

**Date Received:** 06/07/2012

# **Chlorinated Herbicides**

Sample Name:

MW-11

Lab Code:

K1205452-001

Extraction Method:

**METHOD** 

Units: ug/L Basis: NA

Level: Low

Analysis Method:

8151A

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND U	0.40	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
2,4-Dichlorophenylacetic Acid	71	17-113	06/22/12	Acceptable	

Comments:

SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: NA

Date Received: NA

#### **Chlorinated Herbicides**

Sample Name: Lab Code:

Method Blank

KWG1206627-6

Units: ug/L Basis: NA

Extraction Method:

**METHOD** 

Level: Low

**Analysis Method:** 

8151A

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND U	0.39	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND U	0.20	1	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	69	17-113	06/22/12	Acceptable

Comments:

SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Surrogate Recovery Summary Chlorinated Herbicides** 

Extraction Method: METHOD

Analysis Mcthod:

8151A

Units: PERCENT

Level: Low

Sample Name	Lab Code	<u>Sur1</u>
MW-11	K1205452-001	71
Method Blank	KWG1206627-6	69
MW-11MS	KWG1206627-3	75
MW-11DMS	KWG1206627-4	81
Lab Control Sample	KWG1206627-5	82

Surrogate Recovery Control Limits (%)

Sur1 = 2,4-Dichlorophenylacetic Acid

17-113

Results flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Extracted: 06/13/2012

**Date Analyzed:** 06/22/2012

#### Matrix Spike/Duplicate Matrix Spike Summary **Chlorinated Herbicides**

Sample Name:

MW-11

Lah Code:

K1205452-001

**Extraction Method:** Analysis Method:

8151A

**METHOD** 

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206627

MW-11MS

MW-11DMS VWC1206627.4

Analyte Name	Sample	KWG1206627-3  Matrix Spike			Duplicate Matrix Spike			%Rec		RPD
	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits RF	RPD	Limit
2,4-D	ND	1.57	2.43	65	1.64	2.40	68	41-108	4	30
2,4,5-TP (Silvex)	ND	1.72	2.43	71	1.79	2.40	75	44-108	5	30
2,4,5-T (Shvox)	ND	1.70	2.43	70	1.77	2.40	74	31-106	4	30
Dinoseb	ND	1.18	2.43	49	1.54	2.40	64	44-81	26	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

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RR142913

SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/13/2012 **Date Analyzed:** 06/22/2012

Lab Control Spike Summary **Chlorinated Herbicides** 

Extraction Method:

**METHOD** 

Analysis Method:

8151A

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG1206627

Lab Control Sample KWG1206627-5

Lab Control Spike %Rec Limits Result Expected %Rec **Analyte Name** 35-110 2.50 67 2,4-D 1.68 37-114 2.50 71 2,4,5-TP (Silvex) 1.79 72 30-120 1.80 2.50 2,4,5-T 2.50 57 11-105 1.42 Dinoseb

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

# **Volatile Organic Compounds**

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.56		0.50	1	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	ND	U	0.50	l	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	Ű	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	1.1		0,50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromouethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	1.2		0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

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SuperSet Reference:

RR142812

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Collected:** 06/06/2012

**Date Received:** 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND U	2.0	l	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND U	0.50	l	06/13/12	06/13/12	KWG1206404	
Bromoform	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
I,2-Dibromo-3-chloropropane	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	78	73-122	06/13/12	Acceptable	
Toluene-d8	89	65-144	06/13/12	Acceptable	
4-Bromoflnorobenzene	78	68-117	06/13/12	Acceptable	

Comments:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 Date Collected: 06/06/2012

**Date Received:** 06/07/2012

# **Volatile Organic Compounds**

Sample Name:

MW-21D

Lab Code:

K1205452-002

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	·
Chloromethane	ND U	0,50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND U	0,50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	0.53	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND U	5.0	I	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND U	0,50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	0.54	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND U	0.50	I	06/13/12	06/13/12	KWG1206404	
Carbou Tetrachloride	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND U	0,50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	0.89	0,50	1	06/13/12	06/13/12	KWG1206404	

Comments:

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Form 1A - Organic

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SuperSet Reference: RR142812

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Collected:** 06/06/2012

**Date Received:** 06/07/2012

# **Volatile Organic Compounds**

Sample Name:

MW-21D

Lab Code:

K1205452-002

**Extraction Method: Analysis Method:** 

EPA 5030B

8260C

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND	U	0.50	I	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND	U	0,50	1	06/13/12	06/13/12	KWG1206404	*
eis-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dicitloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND	U	0,50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND		2.0	1	06/13/12	06/13/12	KWG1206404	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	80	73-122	06/13/12	Acceptable
Toluene-d8	88	65-144	06/13/12	Acceptable
4-Bromofluorobenzene	78	68-117	06/13/12	Acceptable

Comments:

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Page 2 of 2

SuperSet Reference: RR142812

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-21S

Lab Code:

K1205452-003

Extraction Method:

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.60	0,50	1	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND U	0.50	ī	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND U	0.50	1 .	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND U	0,50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	0.93	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	,
Acetone	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND U	5,0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND U	0,50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	0.84	0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

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Page 1 of 2

SuperSet Reference: RR142812

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/06/2012

**Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-21S

Lab Code:

K1205452-003

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND U	20	1	06/13/12	06/13/12	KWG1206404	····
Dibromochloromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND U	0,50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	78	73-122	06/13/12	Acceptable	
Toluene-d8	88	65-144	06/13/12	Acceptable	
4-Bromofluorobenzene	79	68-117	06/13/12	Acceptable	

Comments:

Now part of the ALS Group

Analytical Results

Client: Project: Schwyn Environmental Services

Sample Matrix:

Sudbury Road Landfill RI

Water

Service Request: K1205452 **Date Collected:** 06/06/2012

**Date Received:** 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-22D

Lab Code:

K1205452-004

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	Ŭ	0.50	I	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND		0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	0.64		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0,50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0,50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	I	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	0.55		0,50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND	· U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND	U	0.50	I	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND	Ŭ	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	0.83		0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

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RR142812 SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client: Project: Schwyn Environmental Services

Sample Matrix:

Sudbury Road Landfill RI

Water

Service Request: K1205452 **Date Collected:** 06/06/2012

**Date Received:** 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-22D

Lab Code:

K1205452-004

**Extraction Method:** 

EPA 5030B

Units: ug/L Basis: NA

Level: Low

**Analysis Method:** 

8260C

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND U	10	i	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	81	73-122	06/13/12	Acceptable	
Tolueue-d8	89	65-144	06/13/12	Acceptable	
4-Bromofluorobenzene	77	68-117	06/13/12	Acceptable	

Now part of the ALS Group

Analytical Results

Client: Project: Schwyn Environmental Services Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

# **Volatile Organic Compounds**

Sample Name: Lab Code:

MW-22S

K1205452-005

**Extraction Method:** 

EPA 5030B

Units: ug/L Basis: NA

Level: Low

Dati action medicar	
Analysis Method:	8260C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.68		0.50	1	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	0.98		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND		20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0,50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	0.57		0,50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0,50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0,50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND		0.50	Í	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0,50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND		0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND		20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND		0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND		0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	0.97		0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

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Form 1A - Organic

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SuperSet Reference: RR142812

Now part of the ALS Group

Analytical Results

Client: Project: Schwyn Environmental Services

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Collected:** 06/06/2012

**Date Received:** 06/07/2012

## Volatile Organic Compounds

Sample Name:

MW-22S

Lab Code:

K1205452-005

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xyleues	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND U	0,50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/13/12	06/13/12	KWG1206404	
1.2,3-Trichloropropane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	79	73-122	06/13/12	Acceptable	
Toluene-d8	90	65-144	06/13/12	Acceptable	
4-Bromofluorobenzene	77	68-117	06/13/12	Acceptable	

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Collected:** 06/05/2012

**Date Received:** 06/07/2012

### **Volatile Organic Compounds**

Sample Name:

MW-9

Lab Code:

K1205452-006

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA

Level: Low

	_		Dilution	Date	Date	Extraction	<b>.</b> .
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND U	20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
Chloroform	0,81	0,50	1	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Benzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
Trichloroethene (TCE)	1.4	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromodichloromethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND U	20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,2-Trichloroethane	ND U	0,50	l	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	0.54	0.50	1	06/12/12	06/12/12	KWG1206333	

Comments:

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SuperSet Reference:

RR142812

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Collected:** 06/05/2012

**Date Received:** 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-9

Lab Code:

K1205452-006

**Extraction Method: Analysis Method:** 

EPA 5030B

8260C

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND	U	20	1	06/12/12	06/12/12	KWG1206333	*
Dibromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Chlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Ethylbenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
m,p-Xylenes	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
o-Xylene	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
Styrene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromoform	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	
1,2,3-Trichloropropane	ND	U	0.50	I	06/12/12	06/12/12	KWG1206333	
1,4-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1.2-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	80	73-122	06/12/12	Acceptable	
Toluene-d8	90	65-144	06/12/12	Acceptable	
4-Bromofluorobenzene	79	68-117	06/12/12	Acceptable	

Comments:

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SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Collected:** 06/05/2012

**Date Received:** 06/07/2012

## **Volatile Organic Compounds**

Sample Name:

MW-10

Lab Code:

K1205452-007

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND	U	0.50	I	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND		20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroform	1.6		0.50	I	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Benzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichloroethene (TCE)	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Bromodichloromethane	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND		0,50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND		20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,2-Trichloroethane	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	0.68		0,50	I	06/12/12	06/12/12	KWG1206333	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/05/2012

Date Received: 06/07/2012

## **Volatile Organic Compounds**

Sample Name:

MW-10

Lab Code:

K1205452-007

**Extraction Method:** 

EPA 5030B

Units: ug/L Basis: NA

Level: Low

Analysis Method: 8260C

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND U	20	1	06/12/12	06/12/12	KWG1206333	*
Dibromochloromethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/12/12	06/12/12	KWG1206333	
Chlorobenzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Ethylbenzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
m,p-Xylenes	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
o-Xylene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Styrene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromoform	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/12/12	06/12/12	KWG1206333	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/12/12	06/12/12	KWG1206333	
1,2,3-Trichloropropane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,4-Dichlorobenzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichlorobenzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/12/12	06/12/12	KWG1206333	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/12/12	Acceptable
Toluene-d8	89	65-144	06/12/12	Acceptable
4-Bromofluorobenzene	81	68-117	06/12/12	Acceptable

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: Sudbury Road Landfill RI

Water

Service Request: K1205452

**Date Collected:** 06/05/2012 **Date Received:** 06/07/2012

## Volatile Organic Compounds

Sample Name:

MW-5

Lab Code:

K1205452-008

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND U	20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
Chloroform	0.57	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND U	0.50	l	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND U	0,50	l	06/12/12	06/12/12	KWG1206333	
Benzene	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichloroethene (TCE)	1.7	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromodichloromethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND U	20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	/a/millima/**\**********************************
1,1,2-Trichloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	0.77	0.50	1	06/12/12	06/12/12	KWG1206333	

Comments:

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Form 1A - Organic

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SuperSet Reference: RR142812

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Collected:** 06/05/2012

**Date Received:** 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-5

Lab Code:

K1205452-008

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND U	20	1	06/12/12	06/12/12	KWG1206333	*
Dibromochloromethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/12/12	06/12/12	KWG1206333	
Chlorobenzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Ethylbenzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
m,p-Xylenes	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
o-Xylene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Styrene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromoform	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/12/12	06/12/12	KWG1206333	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/12/12	06/12/12	KWG1206333	
1,2,3-Trichloropropane	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
1,4-Dichlorobenzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichlorobenzene	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/12/12	06/12/12	KWG1206333	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	79	73-122	06/12/12	Acceptable	
Toluene-d8	89	65-144	06/12/12	Acceptable	
4-Bromofluorobenzene	80	68-117	06/12/12	Acceptable	

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 Date Collected: 06/05/2012

**Date Received:** 06/07/2012

## **Volatile Organic Compounds**

Sample Name:

TB

Lab Code:

K1205452-009

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND	U	0.50	1.	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND		20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND	U	0.50	11	06/12/12	06/12/12	KWG1206333	
Chloroform	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Benzene	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichloroethene (TCE)	ND	U	0.50	I	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND		0,50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Broundichloromethane	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND		20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND		0,50	1	06/12/12	06/12/12	KWG1206333	
1,1,2-Trichloroethane	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	

Comments:

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#### Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Collected:** 06/05/2012

**Date Received:** 06/07/2012

## Volatile Organic Compounds

Sample Name:

TB

Lab Code:

K1205452-009

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND U	20	I	06/12/12	06/12/12	KWG1206333	*
Dibromochloromethane	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/12/12	06/12/12	KWG1206333	
Chlorobenzene	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
Ethylbenzene	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
m,p-Xylenes	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
o-Xylene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
Styrene	ND U	0,50	1	06/12/12	06/12/12	KWG1206333	
Bromoform	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/12/12	06/12/12	KWG1206333	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/12/12	06/12/12	KWG1206333	
1,2,3-Trichloropropane	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,4-Dichlorobenzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichlorobenzene	ND U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromo-3-chloropropane	ND U	2.0	i	06/12/12	06/12/12	KWG1206333	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	79	73-122	06/12/12	Acceptable	
Toluene-d8	90	65-144	06/12/12	Acceptable	
4-Bromofluorobenzene	79	68-117	06/12/12	Acceptable	

Comments:

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RR142812

SuperSet Reference:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: NA

Date Received: NA

# Volatile Organic Compounds

Sample Name:

Method Blank

Lab Code:

KWG1206333-5

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND		0,50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND		20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroform	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Benzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichloroetheue (TCE)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND	U	0,50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromodichloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND		0,50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND		20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,2-Trichloroethane	ND		0.50	1	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	

Comments:

SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: NA
Date Received: NA

#### **Volatile Organic Compounds**

Sample Name:

Method Blank

Lab Code:

KWG1206333-5

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA Level: Low

Date Extraction Dilution Date Analyzed Lot Note Result O MRL Factor Extracted Analyte Name KWG1206333 20 1 06/12/12 06/12/12 ND U 2-Hexanone KWG1206333 0.50 1 06/12/12 06/12/12 ND U Dibromochloromethane KWG1206333 06/12/12 1,2-Dibromoethane (EDB) ND U 2.0 1 06/12/12 KWG1206333 0.50 1 06/12/12 06/12/12 ND U Chlorobenzene KWG1206333 ND U 0.50 1 06/12/12 06/12/12 Ethylbenzene 06/12/12 06/12/12 KWG1206333 0.50 1 1,1,1,2-Tetrachloroethane ND U 0.50 1 06/12/12 06/12/12 KWG1206333 ND U m,p-Xylenes KWG1206333 ND U 0.50 1 06/12/12 06/12/12 o-Xylene KWG1206333 Styrene ND U 0.50 1 06/12/12 06/12/12 KWG1206333 ND U 0.50 1 06/12/12 06/12/12 Bromoform KWG1206333 cis-1.4-Dichloro-2-butene ND U 10 1 06/12/12 06/12/12 ND U 0.501 06/12/12 06/12/12 KWG1206333 1,1,2,2-Tetrachloroethane KWG1206333 10 1 06/12/12 06/12/12 trans-1,4-Dichloro-2-butene ND U 06/12/12 KWG1206333 0.50 1 06/12/12 1,2,3-Trichloropropane ND U 06/12/12 06/12/12 KWG1206333 ND U 0.50 1 1.4-Dichlorobenzene 1 KWG1206333 0.50 06/12/12 06/12/12 1,2-Dichlorobenzene ND U 2.0 1 06/12/12 06/12/12 KWG1206333 ND U 1,2-Dibromo-3-chloropropane

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	78	73-122	06/12/12	Acceptable	
Toluene-d8	88	65-144	06/12/12	Acceptable	
4-Bromofluorobenzene	79	68-117	06/12/12	Acceptable	

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: NA

Date Received: NA

## Volatile Organic Compounds

Sample Name:

Method Blank

Lab Code:

KWG1206404-5

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	0	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND		0.50	1	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND		0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND		0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodoinethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND		0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND	Ù	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	ND	U	0,50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND		0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: NA

Date Received: NA

## Volatile Organic Compounds

Sample Name:

Method Blank

Lab Code:

KWG1206404-5

**Extraction Method:** 

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA

Level: Low

			Dilution	Datc	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
2-Hexanone	ND U	20	1	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND U	0,50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	06/13/12	06/13/12	KWG1206404	*

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/13/12	Acceptable
Toluene-d8	90	65-144	06/13/12	Acceptable
4-Bromofluorobenzene	79	68-117	06/13/12	Acceptable

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Surrogate Recovery Summary **Volatile Organic Compounds** 

Extraction Method: EPA 5030B

8260C

Service Request: K1205452

Units: PERCENT

Level: Low

Anaiysis Methou:	8200C	
Samule Name		Lab Code

Duplicate Lab Control Sample

Sample Name	Lab Code	<u>Sur1</u>	Sur2	<u>Sur3</u>
MW-11	K1205452-001	78	89	78
MW-21D	K1205452-002	80	88	78
MW-21S	K1205452-003	78	88	79
MW-22D	K1205452-004	81	89	77
MW-22S	K1205452-005	79	90	77
MW-9	K1205452-006	80	90	79
MW-10	K1205452-007	79	89	81
MW-5	K1205452-008	79	89	80
TB	K1205452-009	79	90	79
Method Blank	KWG1206333-5	78	88	<b>7</b> 9
Method Blank	KWG1206404-5	79	90	79
MW-11MS	KWG1206404-1	86	92	83
MW-11DMS	KWG1206404-2	85	91	82
Lab Control Sample	KWG1206333-3	85	93	81
Duplicate Lab Control Sample	KWG1206333-4	86	93	85
Lab Control Sample	KWG1206404-3	83	93	81

KWG1206404-4

#### Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	73-122	
Sur2 = Toluene-d8	65-144	
Sur3 = 4-Bromofluorobenzene	68-117	

87

92

81

Results flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/13/2012 **Date Analyzed:** 06/13/2012

### Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds

Sample Name:

MW-11

Lab Code:

K1205452-001

Extraction Method: Analysis Method:

EPA 5030B

8260C

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206404

MW-11MS KWG1206404-1 MW-11DMS KWG1206404-2

	Sample		KWG1206404-1 Matrix Spike		KWG1206404-2 Duplicate Matrix Spike			%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Vinyl Chloride	ND	9.49	10.0	95	9.27	10.0	93	49-136	2	30
1,1-Dichloroethene	ND	12.1	10.0	121	12.0	10.0	120	59-171	1	30
Chloroform	1.1	11.4	10.0	103	11.2	10.0	101	64-133	2	30
Carbon Tetrachloride	ND	9.71	10.0	97	9.69	10.0	97	53-161	0	30
Benzene	ND	9.61	10.0	96	9.48	10.0	95	63-144	1	30
Trichloroethene (TCE)	ND	9.96	10.0	100	9.71	10.0	97	53-139	3	30
Bromodichloromethane	ND	8.65	10.0	87	8.56	10.0	86	61-134	1	30
Toluene	ND	9.71	10.0	97	9.63	10.0	96	71-136	1	30
1,1,2-Trichloroethane	ND	8.88	10.0	89	8.92	10.0	89	74-124	0	30
2-Hexanone	ND	44.9	50.0	90	44.6	50.0	89	53-132	1	30
Chlorobenzene	ND	9.96	10.0	100	9.66	10.0	97	69-126	3	30
Ethylbenzene	ND	9.48	10.0	95	9.20	10.0	92	66-136	3	30
1,2,3-Trichloropropane	ND	9.50	10.0	95	9.75	10.0	98	71-127	3	30
1,2-Dichlorobenzene	ND	9.46	10.0	95	9.63	10.0	96	72-119	2	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

Page 1 of 1

SuperSet Reference: RR142812

Now part of the ALS Group

QA/QC Report

Client: Project: Schwyn Environmental Services

Sample Matrix:

Sudbury Road Landfill RI Water

Service Request: K1205452

**Date Extracted:** 06/12/2012 **Date Analyzed:** 06/12/2012

### Lab Control Spike/Duplicate Lab Control Spike Summary Volatile Organic Compounds

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206333

Lab Control Sample

Duplicate Lab Control Sample

KWG1206333-4

KWG1206333-3 **Duplicate Lab Control Spike** Lab Control Spike %Rec **RPD** Limits RPD Limit %Rec %Rec Expected Resuit Expected Result **Analyte Name** 2 10.0 82 32-124 30 8.35 10.0 84 8.16 Dichlorodifluoromethane 34-130 30 10.0 79 7.78 10.0 78 1 7.86 Chloromethane 72 55-123 4 30 7.52 10.0 75 7.24 10.0 Vinyl Chloride 30 75 2 7.33 10.0 73 7.5110.0 35-113 Bromomethane 10.0 85 8,20 10.0 82 58-134 4 30 8.52 Chloroethane 77 3 30 52-141 7.97 10.0 80 7.70 10.0 Trichlorofluoromethane 10.0 96 66-129 4 30 9.93 10.0 99 9.57 1.1-Dichloroethene 50.0 109 50.0 105 68-135 4 30 54.4 52.3 Acetone 51-164 2 30 42,9 30,0 143 43.6 30.0 145 Iodomethane 64 46-144 2 30 20.0 65 12.8 20.0 13.1 Carbon Disulfide 2 30 8.60 10.0 86 71-122 8.77 10.0 88 Methylene Chloride 65-129 0 30 36.9 40.0 92 36.9 40.0 92 Acrylonitrile 84 67-125 4 30 trans-1,2-Dichloroethene 8.75 10.0 88 8.42 10.0 10.0 89 8.53 10.0 85 68-132 4 30 8.89 1,1-Dichloroethane 5 50.0 81 38,2 50.0 76 44-156 30 40.3 Vinyl Acetate 8.00 10.0 71-118 3 30 10.0 80 8.28 83 cis-1,2-Dichloroethene 30 88 44.6 50.0 89 71-149 1 2-Butanone (MEK) 44.0 50.0 75-131 2 30 Bromochloromethane 9.61 10.0 96 9.40 10.0 04 8.91 10.0 89 8.68 10.0 87 70-129 3 30 Chloroform 79 59-136 3 30 81 7.87 10.0 1,1,1-Trichloroethane (TCA) 8.08 10,0 79 55-140 Ī 30 7.81 10.0 78 7.86 10.0 Carbon Tetrachloride 3 69-124 30 8.10 10.0 81 Benzene 8.34 10.0 83 2 30 9.80 10,0 98 9.65 10.0 97 56-142 1,2-Dichloroethane (EDC) 8.35 10.0 84 7.97 10.0 80 67-128 5 30 Trichloroethene (TCE) 82 8.11 10.0 81 67-126 1 30 10.0 8.23 1.2-Dichloropropane 2 30 10.0 86 8.44 10.0 84 69-128 8.64 Dibromomethane 77 7.67 10.0 77 63-129 0 30 10.0 Bromodichloromethane 7.69 2 cis-1,3-Dichloropropene 7.72 10.0 77 7.59 10.0 76 62-132 30 50.0 87 42.8 50.0 86 64-134 2 30 4-Methyl-2-pentanone (MIBK) 43.6 81 69-124 3 30 8.35 10.0 84 8.12 10.0 Toluene 2 59-125 30 6.73 10,0 67 6.57 10.0 66 trans-1,3-Dichloropropene 74-118 1 30 10.0 81 8.15 10.0 82 8.05 1.1.2-Trichloroethane 30 2 8.56 10.0 86 8.73 10.0 87 62-126 Tetrachloroethene (PCE) 50.0 85 42.0 50.0 84 59-131 1 30 42.4 2-Hexanone 7.54 67-126 2 30 10.0 74 10.0 75 7.36 Dibromochloromethane

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

Page 1 of 2

SuperSet Reference: RR142812

Now part of the ALS Group

QA/QC Report

Client: Project: Schwyn Environmental Services

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Extracted:** 06/12/2012

**Date Analyzed:** 06/12/2012

## Lab Control Spike/Duplicate Lab Control Spike Summary Volatile Organic Compounds

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C

Units: ug/L

Basis: NA Level: Low

Extraction Lot: KWG1206333

Lab Control Sample

**Duplicate Lab Control Sample** 

KWG1206333-4

KWG1206333-3 Lab Control Snike

	Lab Control Spike			Duplicate Lab Control Spike			%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
1,2-Dibromoethane (EDB)	8.53	10.0	85	8,49	10.0	85	74-118	0	30
Chlorobenzene	8.47	10.0	85	8.47	10.0	85	72-116	0	30
Ethylbenzene	7.95	10.0	80	8.03	10.0	80	67-121	1	30
1,1,1,2-Tetrachloroethane	7.89	10.0	79	7.83	10.0	78	66-124	1	30
m,p-Xylenes	16.4	20.0	82	16.5	20.0	82	69-121	1	30
o-Xylene	8.05	10.0	81	8.17	10.0	82	71-119	1	30
Styrene	8.87	10.0	89	8.66	10.0	87	74-121	2	30
Bromoform	6.48	10.0	65	6.72	10.0	67	52-144	4	30
cis-1,4-Dichloro-2-butene	22.0	30.0	73	22.1	30.0	74	26-171	0	30
1,1,2,2-Tetrachloroethane	8.03	10,0	80	7.61	10.0	76	70-127	5	30
trans-1,4-Dichloro-2-butene	24.6	30.0	82	24.1	30.0	80	46-170	2	30
1,2,3-Trichloropropane	9.18	10.0	92	8.91	10.0	89	69-123	3	30
1,4-Dichlorobenzene	8.60	10.0	86	8.38	10.0	84	73-115	3	30
1,2-Dichlorobenzene	8.47	10.0	85	8.29	10.0	83	72-115	2	30
1,2-Dibromo-3-chloropropane	6.56	10.0	66	7.30	10.0	73	55-132	11	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded,

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Form 3C - Organic

2 of 2

SuperSet Reference: RR142812

Now part of the ALS Group

QA/QC Report

Schwyn Environmental Services Client: Project: Sndbury Road Landfill RI

Sample Matrix: Water Service Request: K1205452 **Date Extracted:** 06/13/2012 **Date Analyzed:** 06/13/2012

# Lab Control Spike/Duplicate Lab Control Spike Summary Volatile Organic Compounds

Extraction Method:

EPA 5030B

**Analysis Method:** 

8260C

Units: ug/L Basis: NA Level: Low

Extraction Lot: KWG1206404

Lab Control Sample KWG1206404-3

**Duplicate Lab Control Sample** KWG1206404-4

	KWG1206404-3  Lab Control Spike			Duplicate Lab Control Spike			%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits RPD	RPD	Limit
Dichlorodifluoromethane	11.1	10.0	111	10.9	10.0	109	32-124	1	30
Chloromethane	9.24	10.0	92	8.86	10.0	89	34-130	4	30
Vinyl Chloride	8.63	10.0	86	8.39	0.01	84	55-123	3	30
Bromomethane	7.90	10.0	79	7.59	10.0	76	35-113	4	30
Chloroethane	9.50	10.0	95	9.55	10.0	96	58-134	1	30
Trichlorofluoromethane	8.96	10.0	90	9.00	10.0	90	52-141	0	30
1,1-Dichloroethene	11.3	10.0	113	11.1	10.0	111	66-129	2	30
Acetone	65.9	50.0	132	67,3	50.0	135	68-135	2	30
Iodomethane	45,0	30.0	150	43.9	30.0	146	51-164	2	30
Carbon Disulfide	13.5	20.0	67	13.3	20.0	67	46-144	1	30
Methylene Chloride	9.70	10.0	97	9.60	10.0	96	71-122	1	30
Acrylonitrile	36.4	40.0	91	39.1	40.0	98	65-129	7	30
trans-1,2-Dichloroethene	9.38	10.0	94	9.60	10.0	96	67-125	2	30
1,1-Dichloroethane	9.53	10.0	95	9,43	10.0	94	68-132	1	30
Vinyl Acetate	40.6	50.0	81	41.6	50.0	83	44-156	3	30
cis-1,2-Dichloroethene	9.12	10.0	91	9.03	10.0	90	71-118	1	30
2-Butanone (MEK)	49.5	50.0	99	49.1	50.0	98	71-149	1	30
Bromochloromethane	10.2	10.0	102	10.6	10.0	106	75-131	4	30
Chloroform	9,55	10.0	96	9.66	10.0	97	70-129	1	30
1,1,1-Trichloroethane (TCA)	8.89	10.0	89	8.87	10.0	89	59-136	0	30
Carbon Tetrachloride	8.78	10.0	88	8.79	10.0	88	55-140	0	30
Benzene	8.94	10.0	89	9.02	10.0	90	69-124	1	30
1,2-Dichloroethane (EDC)	10.6	10.0	106	10.7	10.0	107	56-142	0	30
Trichloroethene (TCE)	9.00	10.0	90	9.00	10.0	90	67-128	0	30
1,2-Dichloropropane	8.70	10.0	87	8.82	10.0	88	67-126	1	30
Dibromomethane	9.04	10,0	90	9.43	10.0	94	69-128	4	30
Bromodichloromethane	8.32	10.0	83	8.34	10.0	83	63-129	0	30
cis-1,3-Dichloropropene	8.29	10.0	83	8.21	10.0	82	62-132	l	30
4-Methyl-2-pentanone (MIBK)	43.9	50.0	88	46.6	50.0	93	64-134	6	30
Toluene	9.00	10.0	90	9.14	10.0	91	69-124	2	30
trans-1,3-Dichloropropene	7.05	10.0	71	7.18	10.0	72	59-125	2	30
1,1,2-Trichloroethane	8.46	10.0	85	8.81	0.01	88	74-118	4	30
Tetrachloroethene (PCE)	9.50	10.0	95	9.61	10.0	96	62-126	1	30
2-Hexanone	44.3	50.0	89	46.9	50.0	94	59-131	6	30
Dibromochloromethane	7.70	10.0	77	8.02	0.01	80	67-126	4	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Form 3C - Organic Page 1 of 2 Printed: 06/21/2012 11:52:39 SuperSet Reference: RR142812

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/13/2012

**Date Analyzed:** 06/13/2012

### Lab Control Spike/Duplicate Lab Control Spike Summary **Volatile Organic Compounds**

Extraction Method: EPA 5030B

Analysis Method:

8260C

Units: ug/L

Basis: NA Level: Low

Extraction Lot: KWG1206404

Lab Control Sample

KWG1206404-3

**Duplicate Lab Control Sample** KWG1206404-4

	Lab Control Spike			Duplicate Lab Control Spike			%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
1,2-Dibromoethane (EDB)	8.87	10,0	89	9,25	10.0	93	74-118	4	30
Chlorobenzene	9.13	10.0	91	9.16	10.0	92	72-116	0	30
Ethylbenzene	8.58	10.0	86	8.70	10.0	87	67-121	1	30
1,1,1,2-Tetrachloroethane	8.60	10.0	86	8.72	10.0	87	66-124	l	30
m,p-Xylenes	18.1	20.0	90	17.9	20.0	90	69-121	1	30
o-Xylene	8.77	10.0	88	8.77	10.0	88	71-119	0	30
Styrene	9.06	10.0	91	9.43	10.0	94	74-121	4	30
Bromoform	6.84	10.0	68	7.00	10.0	70	52-144	2	30
cis-1,4-Dichloro-2-butene	20.6	30.0	69	21.7	30.0	72	26-171	5	30
1,1,2,2-Tetrachloroethane	8.01	10.0	80	8.54	10.0	85	70-127	6	30
trans-1,4-Dichloro-2-butene	24.3	30.0	81	25.1	30.0	84	46-170	3	30
1,2,3-Trichloropropane	9.41	10.0	94	9.85	10.0	99	69-123	5	30
1,4-Dichlorobenzene	9.37	10.0	94	9.25	10.0	93	73-115	1	30
1,2-Dichlorobenzene	9.16	10.0	92	9.18	10.0	92	72-115	0	30
1,2-Dibromo-3-chloropropane	6.94	10.0	69	7.11	10.0	71	55-132	2	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

RR142812 SuperSet Reference:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Collected:** 06/06/2012

Date Received: 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 5030B

Analysis Method:

8260C SIM

Units: ng/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	105	77-123	06/18/12	Acceptable	
Toluene-d8	116	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	85	46-118	06/18/12	Acceptable	

Comments:

SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: Sudbury Road Landfill RI

Water

Service Request: K1205452

**Date Collected:** 06/06/2012

**Date Received:** 06/07/2012

# **Volatile Organic Compounds**

Sample Name:

MW-21D

Lab Code:

K1205452-002

**Extraction Method:** 

EPA 5030B

Units: ng/L Basis: NA

Level: Low

Analysis Method:

8260C SIM

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/06/2012 **Date Received:** 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-21S

Lab Code:

K1205452-003

**Extraction Method:** 

EPA 5030B

Units: ng/L Basis: NA

Level: Low

Anaiysis	Metnoa:

8260C SIM

Dilution	Date	Date	Extraction	
Footow	Extracted	Amalagad	Lat	Note

Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	106	77-123	06/18/12	Acceptable	
Toluene-d8	116	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable	

Now part of the ALS Group

Analytical Results

Client: Project: Schwyn Environmental Services Sudbury Road Landfill RI

Sample Matrix: Water Service Request: K1205452 **Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

Volatile Organic Compounds

Sample Name: Lab Code:

MW-22D K1205452-004

Analysis Method:

Extraction Method: EPA 5030B 8260C SIM

Units: ng/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	105	77-123	06/18/12	Acceptable	
Tolueue-d8	116	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/06/2012 **Date Received:** 06/07/2012

# Volatile Organic Compounds

Sample Name:

MW-22S

Lab Code:

**Extraction Method:** 

Analysis Method:

K1205452-005

EPA 5030B 8260C SIM Units: ng/L

Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	106	77-123	06/18/12	Acceptable	
Toluene-d8	116	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable	

Comments:

Merged

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/05/2012

**Date Received:** 06/07/2012

Volatile Organic Compounds

Sample Name:

MW-9

Lab Code:

K1205452-006

Extraction Method:

Analysis Method:

EPA 5030B 8260C SIM

Units: ng/L

Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Vinyl Chloride	ND U	20	1	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	106	77-123	06/18/12	Acceptable	
Toluene-d8	116	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	85	46-118	06/18/12	Acceptable	

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: 06/05/2012

**Date Received:** 06/07/2012

## **Volatile Organic Compounds**

Sample Name:

MW-10

Lab Code:

K1205452-007

**Extraction Method:** 

EPA 5030B

Units: ng/L Basis: NA

Level: Low

Analysis Method:

8260C SIM

Date Extraction Dilution Date MRL **Factor** Extracted Analyzed Lot Note Analyte Name Result Q KWG1206585 Vinyl Chloride ND U 20 1 06/18/12 06/18/12

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	108	77-123	06/18/12	Acceptable	
Toluene-d8	116	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	85	46-118	06/18/12	Acceptable	

Comments:

RR142788

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 Date Collected: 06/05/2012

**Date Received:** 06/07/2012

## Volatile Organic Compounds

Sample Name:

MW-5

Lab Code:

K1205452-008

Extraction Method:

EPA 5030B

Units: ng/L Basis: NA

Analysis Method:

8260C SIM

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	106	77-123	06/18/12	Acceptable	
Toluene-d8	116	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable	

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project: Sample Matrix: Sudbury Road Landfill RI

Water

Service Request: K1205452

Date Collected: 06/05/2012

**Date Received:** 06/07/2012

## **Volatile Organic Compounds**

Sample Name:

TB

Lab Code:

K1205452-009

**Extraction Method:** 

Analysis Method:

EPA 5030B

8260C SIM

Units: ng/L

Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	•	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/18/12		KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	104	77-123	06/18/12	Acceptable	
Toluene-d8	116	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	85	46-118	06/18/12	Acceptable	

Now part of the ALS Group

Analytical Results

Client: Project: Schwyn Environmental Services

Sample Matrix:

Sudbury Road Landfill RI

Water

Service Request: K1205452

Date Collected: NA Date Received: NA

## Volatile Organic Compounds

Sample Name: Lab Code:

Method Blank KWG1206585-4

**Extraction Method:** 

EPA 5030B

Units: ng/L Basis: NA

Level: Low

Analysis Method:

8260C SIM

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/18/12	06/18/12	KWG1206585	*

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	103	77-123	06/18/12	Acceptable	·
Toluene-d8	117	74-112	06/18/12	Outside Control Limits	
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable	

Comments:

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Surrogate Recovery Summary Volatile Organic Compounds

> > 90

Extraction Method: Analysis Method:

Lab Control Sample

EPA 5030B 8260C SIM Units: PERCENT

Service Request: K1205452

units; fercent

Level: Low

Sample Name	<u>Lab Code</u>	<u>Sur1</u>	Sur2	<u> </u>	
MW-11	K1205452-001	105	116	*	
MW-21D	K1205452-002	106	116	*	
MW-21S	K1205452-003	106	116	*	
MW-22D	K1205452-004	105	116	*	
MW-22S	K1205452-005	106	116	*	

106 116 85 K1205452-006 MW-9 85 108 116 MW-10 K1205452-007 106 116 84 MW-5 K1205452-008 104 116 85 TB K1205452-009 103 117 84 Method Blank KWG1206585-4 104 118 90 KWG1206585-1 MW-11MS 90 MW-11DMS 104 118 KWG1206585-2

KWG1206585-3

105

118

## Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	77-123
Sur2 =	Toluene-d8	74-112
Sur3 =	4-Bromofluorobenzene	46-118

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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Now part of the ALS Group

QA/QC Report

Client: Project: Schwyn Environmental Services

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452 **Date Extracted:** 06/18/2012

**Date Analyzed:** 06/18/2012

# Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds

Sample Name:

MW-11

Lab Code:

K1205452-001

Extraction Method:

EPA 5030B

Analysis Method:

8260C SIM

Units: ng/L

Basis: NA

Level: Low

Extraction Lot: KWG1206585

MW-11MS

MW-11DMS

KWG1206585-1

KWG1206585-2

	Sample	Matrix Spike			Duplicate Matrix Spike			%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Vinyl Chloride	ND	1830	2000	92	1710	2000	85	70-130	7	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

Page 1 of 1

SuperSet Reference: RR142788

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/18/2012

Date Analyzed: 06/18/2012

Lab Control Spike Summary Volatile Organic Compounds

**Extraction Method:** Analysis Method:

EPA 5030B 8260C SIM

Units: ng/L

Basis: NA

Level: Low

Extraction Lot: KWG1206585

Lab Control Sample KWG1206585-3

Lab Control Spike

%Rec

%Rec Limits Analyte Name Result Expected Vinyl Chloride 2310 2000 116 70-136

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

Page 1 of 1

RR142788 SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client: **Project:**  Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial

**Sample Matrix:** 

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units:	ug/L
Basis:	NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND		11	1	06/13/12	06/28/12	KWG1206395	
Phenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Chlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzyl alcohol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Methylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachloroethane	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Methylphenol†	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Nitrobenzene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Isophorone	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Nitrophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4-Dimethylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4-Dichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Naphthalene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chloroaniline	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobutadiene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Methylnaphthalene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4,6-Trichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Chloronaphthalene	ND	U	11	I	06/13/12	06/28/12	KWG1206395	
2-Nitroaniline	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
Acenaphthylene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Dimethyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,6-Dinitrotoluene	ND	U	. 11	1	06/13/12	06/28/12	KWG1206395	
Acenaphthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
3-Nitroaniline	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrophenol	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
Dibenzofuran	ND	U	11	1	06/13/12	06/28/12	KWG1206395	

Comments:

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Page 1 of

SuperSet Reference: RR143301

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Service Request:** K1205520 **Date Collected:** 06/06/2012 **Page Respired:** 06/08/2013

**Date Received:** 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	0	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND		26	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrotoluene	ND ND		11	1	06/13/12	06/28/12	KWG1206395	
2,3,4.6-Tetrachlorophenol	ND		11	1	06/13/12	06/28/12	KWG1206395	
Fluorene	ND		11	1	06/13/12	06/28/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND		11	1	06/13/12	06/28/12	KWG1206395	
Diethyl Phthalate	ND		11	1	06/13/12	06/28/12	KWG1206395	
4-Nitroaniline	ND		26	1	06/13/12	06/28/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND		26	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodiphenylamine	ND		11	1	06/13/12	06/28/12	KWG1206395	
4-Bromophenyl Phenyl Ether		U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobenzene		U	11	1	06/13/12	06/28/12	KWG1206395	
Pentachlorophenol	ND	_	26	1	06/13/12	06/28/12	KWG1206395	
Phenanthrene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Anthracene	ND ND		11	1	06/13/12	06/28/12	KWG1206395	
Di-n-butyl Phthalate	ND		11	1	06/13/12	06/28/12	KWG1206395	
Fluoranthene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Pyrene		U	11	1	06/13/12	06/28/12	KWG1206395	
Butyl Benzyl Phthalate	ND		11	1	06/13/12	06/28/12	KWG1206395	
	ND		26		06/13/12	06/28/12	KWG1206395	
3,3'-Dichlorobenzidine	ND ND		26 11	1 1	06/13/12	06/28/12	KWG1206395	
Benz(a)anthracene Chrysene	ND ND		11	1	06/13/12	06/28/12	KWG1206395	
**************************************							KWG1206395	
Bis(2-ethylhexyl) Phthalate		U	11	1	06/13/12	06/28/12	KWG1206395	
Di-n-octyl Phthalate		U	11 11	1	06/13/12 06/13/12	06/28/12 06/28/12	KWG1206395	
Benzo(b)fluoranthene	ND			-				
Benzo(k)fluoranthene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Benzo(a)pyrene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Dibenz(a,h)anthracene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Benzo(g,h,i)perylene	ND		11	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosomethylethylamine	ND		26	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate		U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine		U	11	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*

Comments:	
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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 3520C

Units: ug/L Basis: NA

Level: Low

**Analysis Method:** 

8270D

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND		11	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	51	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND		26	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND		11	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	51	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND		11	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	51	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	110	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND		11	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND		11	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	21	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	

Comments:

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SuperSet Reference:

RR143301

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Result Q

ND U

ND U

ND U

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

MRL

11

11

110

Sample Name:

MW-15

Lab Code:

K1205520-007

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

**Analyte Name** 

Famphur

Kepone

8270D

Units: ug/L Basis: NA

Level: Low

KWG1206395

Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
 1	06/13/12	07/02/12	KWG1206395	
1	06/13/12	07/02/12	KWG1206395	

07/02/12

06/13/12

3-Methylcholanthrene

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
2-Fluorophenol	82	39-103	06/28/12	Acceptable	
Phenol-d6	80	38-107	06/28/12	Acceptable	
Nitrobenzene-d5	82	46-115	06/28/12	Acceptable	
2-Fluorobiphenyl	81	48-114	06/28/12	Acceptable	
2,4,6-Tribromophenol	80	46-127	06/28/12	Acceptable	
Terphenyl-d14	104	32-149	06/28/12	Acceptable	

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#### † Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Diphenylamine

This compound can not be separated from N-Nitrosodiphenylamine.

Comments:

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<sup>\*</sup> See Case Narrative

Now part of the ALS Group

Analytical Results

**Client:** 

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

**Sample Matrix:** 

Water

**Service Request:** K1205520 **Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

> Units: ug/L Basis: NA

Level: Low

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

D15

Lab Code:

K1205520-008

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

·								
				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
N-Nitrosodimethylamine	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Phenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Chlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzyl alcohol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Methylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachloroethane	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Methylphenol†	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Nitrobenzene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Isophorone	ND	U	11	, 1	06/13/12	06/28/12	KWG1206395	
2-Nitrophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4-Dimethylphenol	ND	$\mathbf{U}$	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4-Dichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Naphthalene		U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chloroaniline	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobutadiene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Methylnaphthalene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4,6-Trichlorophenol	ND		11	1	06/13/12	06/28/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Chloronaphthalene		U	11	1	06/13/12	06/28/12	KWG1206395	
2-Nitroaniline	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
Acenaphthylene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Dimethyl Phthalate	ND		11	1	06/13/12	06/28/12	KWG1206395	
2,6-Dinitrotoluene		U	11	1	06/13/12	06/28/12	KWG1206395	
Acenaphthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
3-Nitroaniline	ND		27	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrophenol	ND		27	1	06/13/12	06/28/12	KWG1206395	
Dibenzofuran	ND	U	11	1	06/13/12	06/28/12	KWG1206395	

Comments:
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RR143301

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Service Request:** K1205520 **Date Collected:** 06/06/2012

**Date Received:** 06/08/2012

Units: ug/L Basis: NA

Level: Low

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

D15

Lab Code:

K1205520-008

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND		27	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrotoluene	ND		11	1	06/13/12	06/28/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND		11	1	06/13/12	06/28/12	KWG1206395	
Fluorene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	alanda adi unio d'Arabina antino di Propinsi di Propin
4-Chlorophenyl Phenyl Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Diethyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Nitroaniline	ND	U	27	1	06/13/12	06/28/12	KWG1206395	www.houtenhousenhousenhousenhousen
2-Methyl-4,6-dinitrophenol	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobenzene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Pentachlorophenol	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
Phenanthrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Anthracene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Fluoranthene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Pyrene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	AAAAAAAAA
3,3'-Dichlorobenzidine	ND		27	1	06/13/12	06/28/12	KWG1206395	
Benz(a)anthracene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Chrysene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND		11	1	06/13/12	06/28/12	KWG1206395	
Di-n-octyl Phthalate	ND		11	1	06/13/12	06/28/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzo(k)fluoranthene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Benzo(a)pyrene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Dibenz(a,h)anthracene	ND		11	1	06/13/12	06/28/12	KWG1206395	
Benzo(g,h,i)perylene	ND		11	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosomethylethylamine	ND		27	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND		11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND		11	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*

Comments:

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

 Service Request:
 K1205520

 Date Collected:
 06/06/2012

 Date Received:
 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

D15

Lab Code:

K1205520-008

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Acetophenone	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	53	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	27	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	53	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	53	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	110	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	21	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND		11	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	

Comments:

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Now part of the ALS Group

Analytical Results

**Client:** 

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Service Request:** K1205520 **Date Collected:** 06/06/2012 **Date Received:** 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

D15

Lab Code:

K1205520-008

**Extraction Method:** 

EPA 3520C

Analysis Method:

8270D

Units: ug/L Basis: NA

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
3-Methylcholanthrene	ND U	11	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND U	11	1	06/13/12	07/02/12	KWG1206395	
Kepone	ND U	110	1	06/13/12	07/02/12	KWG1206395	

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
2-Fluorophenol	79	39-103	06/28/12	Acceptable	
Phenol-d6	75	38-107	06/28/12	Acceptable	
Nitrobenzene-d5	77	46-115	06/28/12	Acceptable	
2-Fluorobiphenyl	76	48-114	06/28/12	Acceptable	
2,4,6-Tribromophenol	78	46-127	06/28/12	Acceptable	
Terphenyl-d14	105	32-149	06/28/12	Acceptable	

#### † Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Diphenylamine

This compound can not be separated from N-Nitrosodiphenylamine.

Comments:

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Form 1A - Organic

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Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial **Project:** 

Sample Matrix: Water Service Request: K1205520 **Date Collected:** 06/07/2012 **Date Received:** 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

Units: ug/L Sample Name: MW-14b Basis: NA Lab Code: K1205520-009 Level: Low **Extraction Method:** EPA 3520C

8270D **Analysis Method:** 

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
Phenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Chlorophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Benzyl alcohol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Methylphenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Hexachloroethane	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
4-Methylphenol†	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Nitrobenzene	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
Isophorone	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Nitrophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,4-Dimethylphenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,4-Dichlorophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Naphthalene	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
4-Chloroaniline	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobutadiene	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
4-Chloro-3-methylphenol	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
2-Methylnaphthalene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,4,6-Trichlorophenol	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Chloronaphthalene	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
2-Nitroaniline	ND		24	1	06/13/12	06/28/12	KWG1206395	
Acenaphthylene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Dimethyl Phthalate	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
2,6-Dinitrotoluene	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
Acenaphthene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
3-Nitroaniline	ND		24	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrophenol	ND		24	1	06/13/12	06/28/12	KWG1206395	
Dibenzofuran	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	

Comments:	

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/07/2012 **Date Received:** 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-14b

Lab Code:

K1205520-009

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrotoluene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Fluorene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Diethyl Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
4-Nitroaniline	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobenzene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Pentachlorophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Phenanthrene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Anthracene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Fluoranthene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Pyrene	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
3,3'-Dichlorobenzidine	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Benz(a)anthracene	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
Chrysene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Benzo(k)fluoranthene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Benzo(a)pyrene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Dibenz(a,h)anthracene	ND		9.6	1	06/13/12	06/28/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	24	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND		9.6	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND		9.6	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*

Comments:

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Now part of the ALS Group

Analytical Results

**Client:** 

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Collected:** 06/07/2012

**Date Received:** 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-14b

Lab Code:

K1205520-009

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	48	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	24	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	96	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	20	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	

Comments:

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Now part of the ALS Group

Analytical Results

**Client:** 

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

Service Request: K1205520 **Date Collected:** 06/07/2012

Sample Matrix:

Water

**Date Received:** 06/08/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-14b

Lab Code:

K1205520-009

Units: ug/L

**Extraction Method:** 

EPA 3520C

Basis: NA

**Analysis Method:** 

8270D

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
3-Methylcholanthrene	ND U	9.6	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND U	9.6	1	06/13/12	07/02/12	KWG1206395	
Kepone	ND U	96	1	06/13/12	07/02/12	KWG1206395	

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
2-Fluorophenol	78	39-103	06/28/12	Acceptable	
Phenol-d6	77	38-107	06/28/12	Acceptable	
Nitrobenzene-d5	79	46-115	06/28/12	Acceptable	
2-Fluorobiphenyl	79	48-114	06/28/12	Acceptable	
2,4,6-Tribromophenol	78	46-127	06/28/12	Acceptable	
Terphenyl-d14	105	32-149	06/28/12	Acceptable	

#### † Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Diphenylamine

This compound can not be separated from N-Nitrosodiphenylamine.

Comments:

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Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services

City of Walla Walla Sudbury Road Landfill Remedial **Project:** 

Water Sample Matrix:

Service Request: K1205520

Date Collected: NA Date Received: NA

# Semi-Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:

Method Blank

KWG1206395-9

**Extraction Method: Analysis Method:** 

EPA 3520C 8270D

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Phenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Chlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzyl alcohol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Methylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachloroethane	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Methylphenol†	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Nitrobenzene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Isophorone	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Nitrophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4-Dimethylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4-Dichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Naphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chloroaniline	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorobutadiene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Methylnaphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U .	9.5	1	06/13/12	06/27/12	KWG1206395	
2.4.6-Trichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Chloronaphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Acenaphthylene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Dimethyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,6-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Acenaphthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
3-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2,4-Dinitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Dibenzofuran	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	

Comments:

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RR143301 SuperSet Reference:

Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

Units: ug/L

Basis: NA

Level: Low

Date Collected: NA
Date Received: NA

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

Method Blank

Lab Code:

KWG1206395-9

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Analysis Method: 82/0D								
				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
4-Nitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2,4-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Fluorene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Diethyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorobenzene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Pentachlorophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Phenanthrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
3,3'-Dichlorobenzidine	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Benz(a)anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Chrysene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(k)fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(a)pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Dibenz(a,h)anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	24	1	06/13/12	07/02/12	KWG1206395	*

Comments:

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Methyl Methanesulfonate

N-Nitrosodiethylamine

Ethyl Methanesulfonate

9.5

9.5

9.5

ND U

ND U

ND U

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KWG1206395

KWG1206395

KWG1206395

07/02/12

07/02/12

07/02/12

06/13/12

06/13/12

06/13/12

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Now part of the ALS Group

Analytical Results

Schwyn Environmental Services Client:

City of Walla Walla Sudbury Road Landfill Remedial **Project:** 

Water Sample Matrix:

Service Request: K1205520 Date Collected: NA Date Received: NA

# Semi-Volatile Organic Compounds by GC/MS

Units: ug/L Sample Name: Method Blank Lab Code: KWG1206395-9 Basis: NA Level: Low **Extraction Method:** EPA 3520C

8270D **Analysis Method:** 

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	48	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	24	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	95	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	19	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

Date Collected: NA
Date Received: NA

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

Method Blank

Lab Code:

KWG1206395-9

Units: ug/L Basis: NA

**Extraction Method:** 

EPA 3520C

745151 1111

**Analysis Method:** 

8270D

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
3-Methylcholanthrene	ND U	9.5	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND U	9.5	1	06/13/12	07/02/12	KWG1206395	
Kepone	ND U	95	1	06/13/12	07/02/12	KWG1206395	

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	. 85	39-103	06/27/12	Acceptable
Phenol-d6	81	38-107	06/27/12	Acceptable
Nitrobenzene-d5	83	46-115	06/27/12	Acceptable
2-Fluorobiphenyl	82	48-114	06/27/12	Acceptable
2,4,6-Tribromophenol	78	46-127	06/27/12	Acceptable
Terphenyl-d14	102	32-149	06/27/12	Acceptable

#### † Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Diphenylamine

This compound can not be separated from N-Nitrosodiphenylamine.

Comments:

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Form 1A - Organic

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Now part of the ALS Group

QA/QC Report

**Client:** 

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Surrogate Recovery Summary** Semi-Volatile Organic Compounds by GC/MS

**Extraction Method:** EPA 3520C

**Analysis Method:** 

8270D

Service Request: K1205520

Units: PERCENT

Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4	<u>Sur5</u>	Sur6
Batch QC	K1205452-001	87	83	85	88	85	107
MW-15	K1205520-007	82	80	82	81	80	104
D15	K1205520-008	79	75	77	76	78	105
MW-14b	K1205520-009	78	77	79	79	78	105
Method Blank	KWG1206395-9	85	81	83	82	78	102
Batch QCMS	KWG1206395-1	76	73	79	83	91	101
Batch QCDMS	KWG1206395-2	75	79	83	82	92	96
Lab Control Sample	KWG1206395-3	79	78	86	82	89	93
Duplicate Lab Control Sample	KWG1206395-4	80	78	87	81	90	98
Lab Control Sample	KWG1206395-5	83	83	85	83	93	95
Duplicate Lab Control Sample	KWG1206395-6	83	81	85	81	95	93
Lab Control Sample	KWG1206395-7	79	75	79	74	75	108
Duplicate Lab Control Sample	KWG1206395-8	86	83	81	83	84	105

# Surrogate Recovery Control Limits (%)

			46.107
Sur1 = 2-Fluorophenol	39-103	Sur5 = 2,4,6-Tribromophenol	46-127
Sur2 = Phenol-d6	38-107	Sur6 = Terphenyl-d14	32-149
Sur3 = Nitrobenzene-d5	46-115		
Sur4 = 2-Fluorobiphenyl	48-114		

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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Form 2A - Organic

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/13/2012

**Date Analyzed:** 06/28/2012

# Matrix Spike/Duplicate Matrix Spike Summary Semi-Volatile Organic Compounds by GC/MS

Sample Name:

Batch QC

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206395

	Sample	Batch QCMS KWG1206395-1 Matrix Spike			KV	ntch QCDMS VG1206395- cate Matrix S	%Rec		RPD	
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Phenol	ND	72.9	96.2	76	75.6	96.2	79	10-147	4	30
2-Chlorophenol	ND	76.1	96.2	79	72.9	96.2	76	43-103	4	30
Hexachloroethane	ND	65.6	96.2	68	69.9	96.2	73	37-93	6	30
N-Nitrosodi-n-propylamine	ND	77.4	96.2	81	72.7	96.2	76	46-112	6	30
4-Chloro-3-methylphenol	ND	83.6	96.2	87	82.8	96.2	86	32-124	1	30
2-Chloronaphthalene	ND	82.3	96.2	86	80.8	96.2	84	40-108	2	30
Acenaphthene	ND	88.9	96.2	92	81.6	96.2	85	37-119	9	30
4-Nitrophenol	ND	89.6	96.2	93	90.3	96.2	94	42-137	1	30
2,4-Dinitrotoluene	ND	94.3	96.2	98	97.6	96.2	101	54-119	3	30
Diethyl Phthalate	ND	87.8	96.2	91	87.0	96.2	90	44-132	1	30
4-Bromophenyl Phenyl Ether	ND	91.0	96.2	95	86.8	96.2	90	28-133	5	30
Pentachlorophenol	ND	88.1	96.2	92	83.8	96.2	87	43-132	5	30
Pyrene	ND	87.5	96.2	91	82.8	96.2	86	19-138	5	30
Benzo(a)pyrene	ND	91.5	96.2	95	85.4	96.2	89	24-131	7	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/13/2012

**Date Analyzed:** 06/27/2012

# Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

**Extraction Method:** EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206395

Lab Control Sample KWG1206395-3

Duplicate Lab Control Sample KWG1206395-4

		Control Spik			vG1206395-4 e Lab Control		%Rec	aaa	RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
N-Nitrosodimethylamine	78.1	100	78	80.2	100	80	53-109	3	30
Bis(2-chloroethyl) Ether	80.5	100	80	77.5	100	78	56-104	4	30
Phenol	78.3	100	78	75.4	100	75	52-104	4	30
2-Chlorophenol	80.1	100	80	77.5	100	77	59-101	3	30
Benzyl alcohol	79.6	100	80	79.8	100	80	53-111	0	30
Bis(2-chloroisopropyl) Ether	79.2	100	79	76.1	100	76	53-105	4	30
2-Methylphenol	82.5	100	83	80.1	100	80	51-108	3	30
Hexachloroethane	69.8	100	70	72.3	100	72	50-100	4	30
N-Nitrosodi-n-propylamine	80.0	100	80	78.3	100	78	56-112	2	30
4-Methylphenol	80.7	100	81	81.4	100	81	47-118	1	30
Nitrobenzene	82.1	100	82	79.9	100	80	56-108	3	30
Isophorone	79.2	100	79	83.1	100	83	57-106	5	30
2-Nitrophenol	81.8	100	82	85.7	100	86	58-108	5	30
2,4-Dimethylphenol	69.8	100	70	71.6	100	72	32-100	3	30
Bis(2-chloroethoxy)methane	77.7	100	78	81.2	100	81	57-108	4	30
2,4-Dichlorophenol	83.2	100	83	84.5	100	84	59-107	2	30
Naphthalene	74.2	100	74	78.0	100	78	60-98	5	30
4-Chloroaniline	82.1	100	82	84.9	100	85	57-111	3	30
Hexachlorobutadiene	72.7	100	73	72.2	100	72	47-106	1	30
4-Chloro-3-methylphenol	84.7	100	85	85.8	100	86	65-111	1	30
2-Methylnaphthalene	78.1	100	78	80.2	100	80	57-106	3	30
Hexachlorocyclopentadiene	34.6	100	35	37.1	100	37	10-60	7	30
2,4,6-Trichlorophenol	81.3	100	81	84.1	100	84	63-117	3	30
2,4,5-Trichlorophenol	85.9	100	86	86.4	100	86	62-117	1	30
2-Chloronaphthalene	78.8	100	79	79.4	100	79	54-107	1	30
2-Nitroaniline	84.5	100	85	86.1	100	86	62-117	2	30
Acenaphthylene	80.0	100	80	78.4	100	78	58-109	2	30
Dimethyl Phthalate	87.1	100	87	85.6	100	86	64-119	2	30
2,6-Dinitrotoluene	85.7	100	86	83.4	100	83	65-122	3	30
Acenaphthene	80.9	100	81	82.9	100	83	61-110	2	30
3-Nitroaniline	82.5	100	82	88.6	100	89	63-120	7	30
2,4-Dinitrophenol	79.2	100	79	83.5	100	83	33-126	5	30
Dibenzofuran	82.5	100	82	81.5	100	81	62-112	1	30
4-Nitrophenol	85.1	100	85	86.6	100	87	40-138	2	30
2,4-Dinitrotoluene	82.9	100	83	89.4	100	89	61-126	7	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520

**Date Extracted:** 06/13/2012 **Date Analyzed:** 06/27/2012

## Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206395

Lab Control Sample

Duplicate Lab Control Sample

KWG1206395-4

KWG1206395-3 **Duplicate Lab Control Spike** Lab Control Spike %Rec RPD **RPD** Limits Limit %Rec %Rec Result Expected Result **Expected Analyte Name** 30 86.1 100 85.4 100 85 56-124 1 2,3,4,6-Tetrachlorophenol 86 83 59-112 4 30 79.3 100 79 82.6 100 Fluorene 30 100 85 59-113 1 4-Chlorophenyl Phenyl Ether 84.8 100 85 85.2 30 81 84.2 100 84 55-119 3 Diethyl Phthalate 81.4 100 87.5 100 53-127 2 30 88 100 86 4-Nitroaniline 86.2 () 30 87.8 100 88 51-127 2-Methyl-4,6-dinitrophenol 87.4 100 87 2 30 N-Nitrosodiphenvlamine 100 83 81.4 100 81 58-121 83.0 100 89 64-118 2 30 4-Bromophenyl Phenyl Ether 87.5 100 87 88.8 63-117 9 30 90.5 100 90 Hexachlorobenzene 82.8 100 83 51-123 1 30 84.9 100 85 85.9 100 86 Pentachlorophenol 9 30 100 87 64-111 79.5 100 79 86.6 Phenanthrene 0 30 84.3 100 84 62-116 Anthracene 84.1 100 84 65-126 4 30 Di-n-butyl Phthalate 85.7 100 86 82.7 100 83 100 84 52-128 4 30 100 80 83.8 Fluoranthene 80.2 2 30 100 82 53-124 80.8 100 81 82.1 Pyrene 64-121 5 30 91 91.0 100 Butyl Benzyl Phthalate 86.4 100 86 0 80 43-116 30 3.3'-Dichlorobenzidine 80.7 100 81 80.5 100 0 30 88.1 100 88 87.8 100 88 69-113 Benz(a)anthracene 100 84 87.3 100 87 68-114 4 30 84.3 Chrysene 64-122 0 30 93 Bis(2-ethylhexyl) Phthalate 100 93 93.0 100 92.7 30 87.8 100 88 60-131 0 88 Di-n-octvl Phthalate 87.6 100 2 30 Benzo(b)fluoranthene 88.4 100 88 89.9 100 90 66-117 85 90.9 100 91 63-119 6 30 Benzo(k)fluoranthene 85.3 100 100 88 57-124 1 30 100 89 88.1 88.8 Benzo(a)pyrene 3 30 87 68-116 Indeno(1,2,3-cd)pyrene 86.8 100 84.6 100 85 2 30 100 87 86.1 100 86 65-121 Dibenz(a.h)anthracene 87.4 30 68-116 0 85.3 100 85 85.2 100 85 Benzo(g,h,i)perylene

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/13/2012 **Date Analyzed:** 07/02/2012

# Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

**Extraction Method:** EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low Extraction Lot: KWG1206395

Lab Control Sample KWG1206395-5

Duplicate Lab Control Sample KWG1206395-6

,		Control Spike	e		Lab Control	Spike	%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
N-Nitrosomethylethylamine	64.4	100	64 *	64.6	100	65 *	70-130	0	30
Methyl Methanesulfonate	62.7	100	63 *	64.8	100	65 *	70-130	3	30
N-Nitrosodiethylamine	66.2	100	66 *	66.2	100	66 *	70-130	0	30
Ethyl Methanesulfonate	65.4	100	65 *	65.5	100	65 *	70-130	0	30
Acetophenone	66.7	100	67 *	68.5	100	69 *	70-130	3	30
N-Nitrosopyrrolidine	59.2	100	59 *	59.6	100	60 *	70-130	1	30
o-Toluidine	66.7	100	67 *	66.4	100	66 *	70-130	0	30
N-Nitrosopiperidine	68.7	100	69 *	65.6	100	66 *	70-130	5	30
O,O,O-Triethyl Phosphorothioate	77.1	100	77	75.4	100	75	70-130	2	30
2,6-Dichlorophenol	77.5	100	78	74.3	100	74	70-130	4	30
Hexachloropropene	33.8	100	34 *	36.7	100	37 *	70-130	8	30
p-Phenylenediamine	7.28	100	7 *	10.2	100	10 *	70-130	34 *	30
N-Nitrosodi-n-butylamine	65.4	100	65 *	63.8	100	64 *	70-130	2	30
Safrole	72.6	100	73	66.1	100	66 *	70-130	9	30
1,2,4,5-Tetrachlorobenzene	66.3	100	66 *	62.4	100	62 *	70-130	6	30
Isosafrole	67.6	100	68 *	64.4	100	64 *	70-130	5	30
1,4-Naphthoquinone	122	100	122	116	100	116	70-130	5	30
1,3-Dinitrobenzene	85.8	100	86	84.4	100	84	70-130	2	30
Pentachlorobenzene	72.9	100	73	67.8	100	68 *	70-130	7	30
1-Naphthylamine	52.7	100	53 *	52.6	100	53 *	70-130	0	30
2-Naphthylamine	71.5	100	71	70.1	100	70	70-130	2	30
5-Nitro-o-toluidine	85.6	100	86	85.2	100	85	70-130	1	30
Thionazin	87.6	100	88	81.8	100	82	70-130	7	30
Diphenylamine	151	100	151 *	142	100	142 *	70-130	6	30
Phenacetin	76.3	100	76	78.6	100	79	70-130	3	30
Diallate	73.2	100	73	67.4	100	67 *	70-130	8	30
4-Aminobiphenyl	75.7	100	76	75.5	100	75	70-130	0	30
Pronamide	52.1	100	52 *	51.8	100	52 *	70-130	1	30
Pentachloronitrobenzene	76.6	100	77	72.0	100	72	70-130	6	30
Parathion	96.3	100	96	97.1	100	97	70-130	1	30
Methapyrilene	18.0	100	18 *	15.2	100	15 *	70-130	17	30
Isodrin	78.6	100	79	76.6	100	77	70-130	3	30
p-Dimethylaminoazobenzene	79.7	100	80	85.1	100	85	70-130	7	30
Chlorobenzilate	77.6	100	78	82.6	100	83	70-130	6	30
3,3'-Dimethylbenzidine	49.9	100	50 *	54.8	100	55 *	70-130	9	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

Service Request: K1205520 **Date Extracted:** 06/13/2012

**Date Analyzed:** 07/02/2012

Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

**Extraction Method:** EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low

**Extraction Lot:** KWG1206395

Lab Control Sample

KWG1206395-5

Duplicate Lab Control Sample

KWG1206395-6

	Lab	Control Spike	e	Duplicate	e Lab Control	Spike	%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
2-Acetylaminofluorene	79.4	100	79	84.6	100	85	70-130	6	30
7,12-Dimethylbenz(a)anthracene	80.0	100	80	82.3	100	82	70-130	3	30
3-Methylcholanthrene	91.1	100	91	87.9	100	88	70-130	4	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

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RR143301 SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

**Project:** 

City of Walla Walla Sudbury Road Landfill Remedial

Sample Matrix:

Water

**Service Request:** K1205520 **Date Extracted:** 06/13/2012

**Date Analyzed:** 07/02/2012

Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L

Basis: NA Level: Low

Extraction Lot: KWG1206395

Lab Control Sample

KWG1206395-7

Duplicate Lab Control Sample

KWG1206395-8

Lab Control Spike **Duplicate Lab Control Spike RPD** %Rec **RPD** Limit Limits Result **Expected** %Rec Result **Expected** %Rec **Analyte Name** 7 30 88.7 100 89 70-130 Famphur 82.8 100 83 30 98.0 100 98 110 100 110 70-130 11 Kepone

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
N-Nitrosodimethylamine	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Phenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Chlorophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Benzyl alcohol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Methylphenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Hexachloroethane	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Methylphenol†	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Nitrobenzene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Isophorone	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Nitrophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,4-Dimethylphenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,4-Dichlorophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Naphthalene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Chloroaniline	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	**************************************
Hexachlorobutadiene	ND		9.5	1	06/13/12	06/28/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Methylnaphthalene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,4,6-Trichlorophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	,
2-Chloronaphthalene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Nitroaniline	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Acenaphthylene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Dimethyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,6-Dinitrotoluene	ND		9.5	1	06/13/12	06/28/12	KWG1206395	
Acenaphthene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
3-Nitroaniline	ND		24	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrophenol	ND	_	24	1	06/13/12	06/28/12	KWG1206395	
Dibenzofuran	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	

Comments:	

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Now part of the ALS Group

Analytical Results

Client: Project: Schwyn Environmental Services

Sample Matrix:

Sudbury Road Landfill RI

Water

Service Request: K1205452 **Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

Units: ug/L

Basis: NA Level: Low

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

				D15 41-	D-4-	D - 4 -	T .4	
Analyte Name	Result	O	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND		24	1	06/13/12	06/28/12	KWG1206395	······································
2,4-Dinitrotoluene	ND		9.5	1	06/13/12	06/28/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND		9.5	1	06/13/12	06/28/12	KWG1206395	
Fluorene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Diethyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Nitroaniline	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobenzene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Pentachlorophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Phenanthrene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Anthracene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Fluoranthene	ND		9.5	1	06/13/12	06/28/12	KWG1206395	
Pyrene	ND		9.5	1	06/13/12	06/28/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	14
3,3'-Dichlorobenzidine	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Benz(a)anthracene	ND		9.5	1	06/13/12	06/28/12	KWG1206395	
Chrysene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Benzo(k)fluoranthene	ND		9.5	1	06/13/12	06/28/12	KWG1206395	
Benzo(a)pyrene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Dibenz(a,h)anthracene	ND		9.5	1	06/13/12	06/28/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	24	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND		9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*

Comments:

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Form 1A - Organic

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SuperSet Reference: RR143299

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

 Service Request:
 K1205452

 Date Collected:
 06/06/2012

 Date Received:
 06/07/2012

Units: ug/L

Basis: NA
Level: Low

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method:** 

EPA 3520C

Analysis Method:

8270D

Analyte Name	Result	0	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND		9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND ND		9.5	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND		9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND		9.5	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND		9.5	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND		9.5	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND		48	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND		9.5	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	9.5	. 1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	24	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	95	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	19	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND		9.5	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	

Comments:

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#### Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Collected:** 06/06/2012 **Date Received:** 06/07/2012

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method: Analysis Method:** 

EPA 3520C

8270D

Units: ug/L

Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
3-Methylcholanthrene	ND U	9.5	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND U	9.5	1	06/13/12	07/02/12	KWG1206395	
Kepone	ND U	95	1	06/13/12	07/02/12	KWG1206395	

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
2-Fluorophenol	87	39-103	06/28/12	Acceptable	
Phenol-d6	83	38-107	06/28/12	Acceptable	
Nitrobenzene-d5	85	46-115	06/28/12	Acceptable	
2-Fluorobiphenyl	88	48-114	06/28/12	Acceptable	
2,4,6-Tribromophenol	85	46-127	06/28/12	Acceptable	
Terphenyl-d14	107	32-149	06/28/12	Acceptable	

# † Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

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Diphenylamine

This compound can not be separated from N-Nitrosodiphenylamine.

Comments:

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Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services Project: Sudbury Road Landfill RI

Sample Matrix: Water Service Request: K1205452

Date Collected: NA Date Received: NA

# Semi-Volatile Organic Compounds by GC/MS

Units: ug/L Sample Name: Method Blank Lab Code: KWG1206395-9 Basis: NA Level: Low **Extraction Method:** EPA 3520C

**Analysis Method:** 8270D

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Phenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Chlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzyl alcohol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Methylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachloroethane	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Methylphenol†	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Nitrobenzene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Isophorone	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Nitrophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4-Dimethylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4-Dichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Naphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chloroaniline	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorobutadiene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Methylnaphthalene	ND	U	9.5	. 1	06/13/12	06/27/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4,6-Trichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Chloronaphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Acenaphthylene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Dimethyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,6-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Acenaphthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
3-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2,4-Dinitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Dibenzofuran	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	

Comments:	

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: NA
Date Received: NA

# Semi-Volatile Organic Compounds by GC/MS

Sample Name: Lab Code: Method Blank

**Extraction Method:** 

KWG1206395-9

Analysis Method:

EPA 3520C 8270D Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
4-Nitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2,4-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Fluorene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Diethyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorobenzene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Pentachlorophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Phenanthrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	9.5	1 .	06/13/12	06/27/12	KWG1206395	
3,3'-Dichlorobenzidine	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Benz(a)anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Chrysene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND	Ü	9.5	1	06/13/12	06/27/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(k)fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(a)pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Dibenz(a,h)anthracene	ND		9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	24	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND		9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND		9.5	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*

Comments:

Merged

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Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Road Landfill RI

Sample Matrix: Water

Service Request: K1205452

Date Collected: NA
Date Received: NA

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:Method BlankUnits: ug/LLab Code:KWG1206395-9Basis: NAExtraction Method:EPA 3520CLevel: Low

Analysis Method: 8270D

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	48	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	24	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	95	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	19	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	

Comments:	

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Now part of the ALS Group

Analytical Results

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

Date Collected: NA
Date Received: NA

# Semi-Volatile Organic Compounds by GC/MS

Sample Name:

Method Blank

Lab Code:

KWG1206395-9

**Extraction Method:** 

EPA 3520C

0.070<del>-7</del>

Level: Low

Units: ug/L

Basis: NA

**Analysis Method:** 

8270D

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
3-Methylcholanthrene	ND U	9,5	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND U	9,5	1	06/13/12	07/02/12	KWG1206395	
Kepone	ND U	95	1	06/13/12	07/02/12	KWG1206395	

<sup>\*</sup> See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
2-Fluorophenol	85	39-103	06/27/12	Acceptable	
Phenol-d6	81	38-107	06/27/12	Acceptable	
Nitrobenzene-d5	83	46-115	06/27/12	Acceptable	
2-Fluorobiphenyl	82	48-114	06/27/12	Acceptable	
2,4,6-Tribromophenol	78	46-127	06/27/12	Acceptable	
Terphenyl-d14	102	32-149	06/27/12	Acceptable	

#### † Analyte Comments

4-Methylphenol

This analyte cannot be separated from 3-Methylphenol.

Merged

Diphenylamine

This compound can not be separated from N-Nitrosodiphenylamine.

Comments:

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

**Surrogate Recovery Summary** Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C

**Analysis Method:** 

8270D

Service Request: K1205452

Units: PERCENT

Level: Low

Sample Name	Lab Code	<u>Sur1</u>	Sur2	Sur3	Sur4	<u>Sur5</u>	Sur6
MW-11	K1205452-001	87	83	85	88	85	107
Method Blank	KWG1206395-9	85	81	83	82	78	102
MW-11MS	KWG1206395-1	76	73	79	83	91	101
MW-11DMS	KWG1206395-2	75	79	83	82	92	96
Lab Control Sample	KWG1206395-3	79	78	86	82	89	93
Duplicate Lab Control Sample	KWG1206395-4	80	78	87	81	90	98
Lab Control Sample	KWG1206395-5	83	83	85	83	93	95
Duplicate Lab Control Sample	KWG1206395-6	83	81	85	81	95	93
Lab Control Sample	KWG1206395-7	79	75	79	74	75	108
Duplicate Lab Control Sample	KWG1206395-8	86	83	81	83	84	105

#### Surrogate Recovery Control Limits (%)

Sur1 = 2-Fluorophenol	39-103	Sur5 = 2,4,6-Tribromophenol	46-127
Sur2 = Phenol-d6	38-107	Sur6 = Terphenyl-d14	32-149
Sur3 = Nitrobenzene-d5	46-115		
Sur4 = 2-Fluorobiphenyl	48-114		

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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RR143299 SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client: **Project:**  Schwyn Environmental Services

Sample Matrix:

Sudbury Road Landfill RI

Water

Service Request: K1205452 **Date Extracted:** 06/13/2012 **Date Analyzed:** 06/28/2012

# Matrix Spike/Duplicate Matrix Spike Summary Semi-Volatile Organic Compounds by GC/MS

Sample Name:

MW-11

Lab Code:

K1205452-001

**Extraction Method: Analysis Method:** 

EPA 3520C

8270D

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206395

	Sample	MW-11MS KWG1206395-1 <b>Matrix Spike</b>			KV	AW-11DMS VG1206395-; cate Matrix S	%Rec		RPD	
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
Phenol	ND	72.9	96.2	76	75.6	96.2	79	10-147	4	30
2-Chlorophenol	ND	76.1	96.2	79	72.9	96.2	76	43-103	4	30
Hexachloroethane	ND	65.6	96.2	68	69.9	96.2	73	37-93	6	30
N-Nitrosodi-n-propylamine	ND	77.4	96.2	81	72.7	96.2	76	46-112	6	30
4-Chloro-3-methylphenol	ND	83.6	96.2	87	82.8	96.2	86	32-124	1	30
2-Chloronaphthalene	ND	82.3	96.2	86	80.8	96.2	84	40-108	2	30
Acenaphthene	ND	88.9	96.2	92	81.6	96.2	85	37-119	9	30
4-Nitrophenol	ND	89.6	96.2	93	90.3	96.2	94	42-137	1	30
2,4-Dinitrotoluene	ND	94.3	96.2	98	97.6	96.2	101	54-119	3	30
Diethyl Plithalate	ND	87.8	96.2	91	87.0	96.2	90	44-132	1	30
4-Bromophenyl Phenyl Ether	ND	91.0	96.2	95	86.8	96.2	90	28-133	5	30
Pentachlorophenol	ND	88.1	96.2	92	83.8	96.2	87	43-132	5	30
Pyrene	ND	87.5	96.2	91	82.8	96.2	86	19-138	5	30
Benzo(a)pyrene	ND	91.5	96.2	95	85.4	96.2	89	24-131	7	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project: Sample Matrix: Sudbury Road Landfill RI

Water

.

**Service Request:** K1205452 **Date Extracted:** 06/13/2012 **Date Analyzed:** 06/27/2012

# Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 827

8270D

ounds by GC/M5

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206395

Lab Control Sample KWG1206395-3 Duplicate Lab Control Sample KWG1206395-4

	Lab	Control Spik	e	Duplicate	e Lab Control	Spike	%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
N-Nitrosodimethylamine	78.1	100	78	80.2	100	80	53-109	3	30
Bis(2-chloroethyl) Ether	80.5	100	80	77.5	100	78	56-104	4	30
Phenol	78.3	100	78	75.4	100	75	52-104	4	30
2-Chlorophenol	80.1	100	80	77.5	100	77	59-101	3	30
Benzyl alcohol	79.6	100	80	79.8	100	80	53-111	0	30
Bis(2-chloroisopropyl) Ether	79.2	100	79	76.1	100	76	53-105	4	30
2-Methylphenol	82.5	100	83	80.1	100	80	51-108	3	30
Hexachloroethane	69.8	100	70	72.3	100	72	50-100	4	30
N-Nitrosodi-n-propylamine	80.0	100	80	78.3	100	78	56-112	2	30
4-Methylphenol	80.7	100	81	81.4	100	81	47-118	1	30
Nitrobenzene	82.1	100	82	79.9	100	80	56-108	3	30
lsophorone	79.2	100	79	83.1	100	83	57-106	5	30
2-Nitrophenol	81.8	100	82	85.7	100	86	58-108	5	30
2,4-Dimethylphenol	69.8	100	70	71.6	100	72	32-100	3	30
Bis(2-chloroethoxy)methane	77.7	100	78	81.2	100	81	57-108	4	30
2,4-Dichlorophenol	83.2	100	83	84.5	100	84	59-107	2	30
Naphthalene	74.2	100	74	78.0	100	78	60-98	5	30
4-Chloroaniline	82.1	100	82	84.9	100	85	57-111	3	30
Hexachlorobutadiene	72.7	100	73	72.2	100	72	47-106	1	30
4-Chloro-3-methylphenol	84.7	100	85	85.8	100	86	65-111	1	30
2-Methylnaphthalene	78.1	100	78	80.2	100	80	57-106	3	30
Hexachlorocyclopentadiene	34.6	100	35	37.1	100	37	10-60	7	30
2,4,6-Trichlorophenol	81.3	100	81	84.1	100	84	63-117	3	30
2,4,5-Trichlorophenol	85.9	100	86	86.4	100	86	62-117	1	30
2-Chloronaphthalene	78.8	100	79	79.4	100	79	54-107	1	30
2-Nitroaniline	84.5	100	85	86.1	100	86	62-117	2	30
Acenaphthylene	80.0	100	80	78.4	100	78	58-109	2	30
Dimethyl Phthalate	87.1	100	87	85.6	100	86	64-119	2	30
2,6-Dinitrotoluene	85.7	100	86	83.4	100	83	65-122	3	30
Acenaphthene	80.9	100	81	82.9	100	83	61-110	2	30
3-Nitroaniline	82.5	100	82	88.6	100	89	63-120	7	30
2,4-Dinitrophenol	79.2	100	79	83.5	100	83	33-126	5	30
Dibenzofuran	82.5	100	82	81.5	100	81	62-112	1	30
4-Nitrophenol	85.1	100	85	86.6	100	87	40-138	2	30
2,4-Dinitrotoluene	82.9	100	83	89.4	100	89	61-126	7	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client: Project:

Schwyn Environmental Services Sudbury Road Landfill RI

Sample Matrix:

Water

 Service Request:
 K1205452

 Date Extracted:
 06/13/2012

 Date Analyzed:
 06/27/2012

# Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

Extraction Method: Analysis Method:

EPA 3520C

8270D

Units: ug/L Basis: NA

Basis: NA Level: Low

Extraction Lot: KWG1206395

Lab Control Sample KWG1206395-3

Duplicate Lab Control Sample

KWG1206395-4

		Control Spik		Lab Control		%Rec		RPD	
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
2,3,4,6-Tetrachlorophenol	86.1	100	86	85.4	100	85	56-124	1	30
Fluorene	79.3	100	79	82.6	100	83	59-112	4	30
4-Chlorophenyl Phenyl Ether	84.8	100	85	85.2	100	85	59-113	1	30
Diethyl Phthalate	81.4	100	81	84.2	100	84	55-119	3	30
4-Nitroaniline	86.2	100	86	87.5	100	88	53-127	2	30
2-Methyl-4,6-dinitrophenol	87.4	100	87	87.8	100	88	51-127	0	30
N-Nitrosodiphenylamine	83.0	100	83	81.4	100	81	58-121	2	30
4-Bromophenyl Phenyl Ether	87.5	100	87	88.8	100	89	64-118	2	30
Hexachlorobenzene	82.8	100	83	90.5	100	90	63-117	9	30
Pentachlorophenol	84.9	100	85	85.9	100	86	51-123	1	30
Phenanthrene	79.5	100	79	86.6	100	87	64-111	9	30
Anthracene	84.1	100	84	84.3	100	84	62-116	0	30
Di-n-butyl Phthalate	85.7	100	86	82.7	100	83	65-126	4	30
Fluoranthene	80.2	100	80	83.8	100	84	52-128	4	30
Pyrene	80.8	100	81	82.1	100	82	53-124	2	30
Butyl Benzyl Phthalate	86.4	100	86	91.0	100	91	64-121	5	30
3,3'-Dichlorobenzidine	80.7	100	81	80.5	100	80	43-116	0	30
Benz(a)anthracene	88.1	100	88	87.8	100	88	69-113	0	30
Chrysene	84.3	100	84	87.3	100	87	68-114	4	30
Bis(2-ethylhexyl) Phthalate	92.7	100	93	93.0	100	93	64-122	0	30
Di-n-octyl Phthalate	87.6	100	88	87.8	100	88	60-131	0	30
Benzo(b)fluoranthene	88.4	100	88	89.9	100	90	66-117	2	30
Benzo(k)fluoranthene	85.3	100	85	90.9	100	91	63-119	6	30
Benzo(a)pyrene	88.8	100	89	88.1	100	88	57-124	1	30
Indeno(1,2,3-cd)pyrene	84.6	100	85	86.8	100	87	68-116	3	30
Dibenz(a,h)anthracene	87.4	100	87	86.1	100	86	65-121	2	30
Benzo(g,h,i)perylene	85.3	100	85	85.2	100	85	68-116	0	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

**Client:** Project: Schwyn Environmental Services Sudbury Road Landfill RI

Sample Matrix: Water Service Request: K1205452 **Date Extracted:** 06/13/2012 **Date Analyzed:** 07/02/2012

# Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

**Extraction Method: Analysis Method:** 

EPA 3520C

8270D

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206395

Lab Control Sample KWG1206395-5

Duplicate Lab Control Sample KWG1206395-6

		VG1206395-5 Control Spik				VG1206395-6 e Lab Control	%Rec		RPD		
Analyte Name	Result	Expected	%R	ec	Result	Expected	%Rec	Limits	RPD	Limit	
N-Nitrosomethylethylamine	64.4	100	64	*	64.6	100	65 *	70-130	0	30	
Methyl Methanesulfonate	62.7	100	63	*	64.8	100	65 *	70-130	3	30	
N-Nitrosodiethylamine	66.2	100	66	*	66.2	100	66 *	70-130	0	30	
Ethyl Methanesulfonate	65.4	100	65	*	65.5	100	65 *	70-130	0	30	
Acetophenone	66.7	100	67	*	68.5	100	69 *	70-130	3	30	
N-Nitrosopyrrolidine	59.2	100	59	*	59.6	100	60 *	70-130	1	30	
o-Toluidine	66.7	100	67	*	66.4	100	66 *	70-130	0	30	
N-Nitrosopiperidine	68.7	100	69	*	65.6	100	66 *	70-130	5	30	
O,O,O-Triethyl Phosphorothioate	77.1	100	77		75.4	100	75	70-130	2	30	
2,6-Dichlorophenol	77.5	100	78		74.3	100	74	70-130	4	30	
Hexachloropropene	33.8	100	34	*	36.7	100	37 *	70-130	8	30	
p-Phenylenediamine	7.28	100	7	*	10.2	100	10 *	70-130	34 *	30	
N-Nitrosodi-n-butylamine	65.4	100	65	*	63.8	100	64 *	70-130	2	30	
Safrole	72.6	100	73		66.1	100	66 *	70-130	9	30	
1,2,4,5-Tetrachlorobenzene	66.3	100	66	*	62.4	100	62 *	70-130	6	30	
Isosafrole	67.6	100	68	*	64.4	100	64 *	70-130	5	30	
1,4-Naphthoquinone	122	100	122		116	100	116	70-130	5	30	
1,3-Dinitrobenzene	85.8	100	86		84.4	100	84	70-130	2	30	
Pentachlorobenzene	72.9	100	73		67.8	100	68 *	70-130	7	30	
1-Naphthylamine	52.7	100	53	*	52.6	100	53 *	70-130	0	30	
2-Naphthylamine	71.5	100	71		70.1	100	70	70-130	2	30	
5-Nitro-o-toluidine	85.6	100	86		85.2	100	85	70-130	1	30	
Thionazin	87.6	100	88		81.8	100	82	70-130	7	30	
Diphenylamine	151	100	151	*	142	100	142 *	70-130	6	30	
Phenacetin	76.3	100	76		78.6	100	79	70-130	3	30	
Diallate	73.2	100	73		67.4	100	67 *	70-130	8	30	
4-Aminobiphenyl	75.7	100	76		75.5	100	75	70-130	0	30	
Pronamide	52.1	100	52	*	51.8	100	52 *	70-130	1	30	
Pentachloronitrobenzene	76.6	100	77		72.0	100	72	70-130	6	30	
Parathion	96.3	100	96		97.1	100	97	70-130	1	30	
Methapyrilene	18.0	100	18	*	15.2	100	15 *	70-130	17	30	
Isodrin	78.6	100	79		76.6	100	77	70-130	3	30	
p-Dimethylaminoazobenzene	79.7	100	80		85.1	100	85	70-130	7	30	
Chlorobenzilate	77.6	100	78		82.6	100	83	70-130	6	30	
3,3'-Dimethylbenzidine	49.9	100	50	*	54.8	100	55 *	70-130	9	30	

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/13/2012

**Date Analyzed:** 07/02/2012

Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206395

Lab Control Sample

KWG1206395-5

Duplicate Lab Control Sample

KWG1206395-6

	Lab Control Spike			Duplicate Lab Control Spike			%Rec		RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
2-Acetylaminofluorene	79,4	100	79	84,6	100	85	70-130	6	30
7,12-Dimethylbenz(a)anthracene	80.0	100	80	82.3	100	82	70-130	3	30
3-Methylcholanthrene	91.1	100	91	87.9	100	88	70-130	4	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

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Form 3C - Organic

Page 2 of 2

RR143299 SuperSet Reference:

Now part of the ALS Group

QA/QC Report

Client:

Schwyn Environmental Services

Project:

Sudbury Road Landfill RI

Sample Matrix:

Water

Service Request: K1205452

**Date Extracted:** 06/13/2012 **Date Analyzed:** 07/02/2012

Lab Control Spike/Duplicate Lab Control Spike Summary Semi-Volatile Organic Compounds by GC/MS

**Extraction Method:** 

EPA 3520C

**Analysis Method:** 

8270D

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG1206395

Lab Control Sample

KWG1206395-7

Duplicate Lab Control Sample

KWG1206395-8

**Duplicate Lab Control Spike** Lab Control Spike %Rec RPD **RPD** Limit Limits %Rec %Rec **Analyte Name** Result **Expected** Result Expected 7 88.7 100 89 70-130 30 82.8 100 83 Famphur 98.0 98 100 110 70-130 11 30 Kepone 100 110

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

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