



November 16, 2012

Analytical Report for Service Request No: K1210818

Craig Schwyn  
Schwyn Environmental Services  
4621 South Custer Court  
Spokane, WA 99223

**RE: City of Walla Walla Sudbury Road Landfill RI**

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on October 26, 2012. For your reference, these analyses have been assigned our service request number K1210818.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3293. You may also contact me via Email at [Shar.Samy@alsglobal.com](mailto:Shar.Samy@alsglobal.com).

Respectfully submitted,

**Columbia Analytical Services, Inc. dba ALS Environmental**

Shar Samy  
Project Manager

SS/jw

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Columbia Analytical Services, Inc.

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Environmental

[www.caslab.com](http://www.caslab.com) ■ [www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**Columbia Analytical Services, Inc. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEC UST	<a href="http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx">http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2286
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L12-28
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Georgia DNR	<a href="http://www.gaepd.org/Documents/techguide_pcb.html#cel">http://www.gaepd.org/Documents/techguide_pcb.html#cel</a>	881
Hawaii DOH	Not available	-
Idaho DHW	<a href="http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx">http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx</a>	-
Indiana DOH	<a href="http://www.in.gov/isdh/24859.htm">http://www.in.gov/isdh/24859.htm</a>	C-WA-01
ISO 17025	<a href="http://www.pjlabs.com/">http://www.pjlabs.com/</a>	L12-27
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx">http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx</a>	3016
Louisiana DHH	Not available	LA110003
Maine DHS	Not available	WA0035
Michigan DEQ	<a href="http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html">http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html</a>	9949
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-368
Montana DPHHS	<a href="http://www.dphhs.mt.gov/publichealth/">http://www.dphhs.mt.gov/publichealth/</a>	CERT0047
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA35
New Jersey DEP	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	WA005
New Mexico ED	<a href="http://www.nmenv.state.nm.us/dwb/Index.htm">http://www.nmenv.state.nm.us/dwb/Index.htm</a>	-
North Carolina DWQ	<a href="http://www.dwqlab.org/">http://www.dwqlab.org/</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA200001
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/envserv/">http://www.scdhec.gov/environment/envserv/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	4704427-08-TX
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C1203
Wisconsin DNR	<a href="http://dnr.wi.gov/">http://dnr.wi.gov/</a>	998386840
Wyoming (EPA Region 8)	<a href="http://www.epa.gov/region8/water/dwhome/wyomingdi.html">http://www.epa.gov/region8/water/dwhome/wyomingdi.html</a>	-
Kelso Laboratory Website	<a href="http://www.caslab.com">www.caslab.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.caslab.com](http://www.caslab.com) or at the accreditation bodies web site

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

**ALS ENVIRONMENTAL**

<b>Client:</b>	Schwyn Environmental Services	<b>Service Request No.:</b>	K1210818
<b>Project:</b>	City of Walla Walla Sudbury Road Landfill	<b>Date Received:</b>	10/26/12
<b>Sample Matrix:</b>	Water		

**Case Narrative**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix Spike (MS), and Laboratory Control Sample (LCS).

**Sample Receipt**

Thirteen water samples were received for analysis at ALS Environmental on 10/26/12. The samples were received in good condition and consistent with the accompanying chain of custody form with the noted exceptions on the attached receipt form. The samples were stored in a refrigerator at 4°C laboratory.

**General Chemistry Parameters**

No anomalies associated with the analysis of these samples were observed.

**Dissolved Metals**

No anomalies associated with the analysis of these samples were observed.

**Volatile Organic Compounds by EPA Method 8260**

**Calibration Verification Exceptions:**

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) MS27\1101F009.D: Iodomethane and Vinyl Acetate. In accordance with the EPA Method 8260C, 80% or more of the CCV analytes must have passed within 20% of the true value. The CCV met these criteria. In accordance with CAS standard operating procedures, an MRL check standard containing the analytes) of concern was analyzed. The MRL check standard verifies instrument sensitivity was adequate to detect the analytes at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the analytes in question, the data quality has not been significantly affected. No further corrective action was required.


**Matrix Spike Recovery Exceptions:**

The matrix spike recovery of 1,1,2-Trichloroethane for sample Schmidt was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential high bias in this matrix. No further corrective action was appropriate.

**Volatile Organic Compounds by EPA Method 8260 (SIM)**

**Surrogate Exceptions:**

The upper control criterion was exceeded for Dibromofluoromethane in sample Camp. No target analytes were detected in the sample. The error associated with an elevated recovery equated to a high bias. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

Approved by  \_\_\_\_\_

Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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

SR#

11210818

PAGE

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OF

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Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation					Analysis Requested						
Project Manager: Craig Schwyn					Number of Containers	VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Chloride, Nitrate, Sulfate (Method 300.0)] [Ca, Fe, Mg, Mn, K, Na (Method 6010C)] [Alkalinity (Method 2320B)] [Ammonia (SM 4500)] [TOC (Method 415.1)] [TDS (SM 2540C)]	(see below)	MS/MSD	REMARKS
Company: Schwyn Environmental Services 4621 South Custer Court Spokane, Washington 99223 509-448-3187: Craig@schwynenviro.com											
Sampler's Signature: <u>Craig C Schwyn</u>					Shipped in 2 coolers						
Sample I.D.	Date	Time	LAB ID	Matrix							
MW-22S	10/24/12	1445		Water	X	X	X				
MW-22D	10/24	1540			X	X	X		X		
MW-21S	10/24	1630			X	X	X				
MW-21D	10/24	1700			X	X	X				
D19	10/25	8:00			X	X	X				
MW-19	10/25	8:30			X	X	X				
MW-15D	10/25	9:30			X	X	X				
MW-3	10/25	1000			X	X	X				
Schmidt	10/24	1220			6	X	X	X			
Small	10/25	10:50			6	X	X	X			
Kinman	10/25	11:10			6	X	X	X			
Camp	10/25	11:32			6	X	X	X			

SHORT  
HOLD

<b>JRNAROUND REQUIREMENTS</b> ___ 24 hr ___ 48 hr ___ 5 day <input checked="" type="checkbox"/> Standard (21 days) ___ Provide FAX Preliminary Results Requested Report Date:	<b>REPORT REQUIREMENTS</b> I. Routine Report: Results, Method Blank Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required ___ III. Data Validation Report (includes raw data) ___ IV. CLP Deliverable Report <input checked="" type="checkbox"/> V. EDD	Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C
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<b>Invoice Information</b> P.O. # _____ Bill to: Schwyn Environmental Services	<b>RELINQUISHED BY:</b> Signature: <u>Craig C Schwyn</u> Printed Name: Craig Schwyn Firm: Schwyn Environmental Services Date/Time: <u>10/25/12 13:00</u>	<b>RECEIVED BY:</b> Signature: <u>UPS</u> Printed Name: _____ Firm: _____ Date/Time: _____	<b>RELINQUISHED BY:</b> Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	<b>RECEIVED BY:</b> Signature: <u>K Smith</u> Printed Name: <u>K Smith</u> Firm: <u>ALS</u> Date/Time: <u>10/26/12 0950</u>
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PC Shar

### Cooler Receipt and Preservation Form

Client / Project: Schwyzn Service Request K12 10.818  
 Received: 10/26/12 Opened: 10/26/12 By: KB Unloaded: 10/26/12 By: KB

1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered  
 2. Samples were received in: (circle) Cooler Box Envelope Other NA  
 3. Were custody seals on coolers? NA Y N If yes, how many and where? 1, F, 1B  
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
<u>-1</u>	<u>.5</u>	<u>1.4</u>	<u>1.6</u>	<u>+2</u>	<u>314</u>	<u>NA</u>	<u>12339 9W8 231000 0121</u>		
<u>.5</u>	<u>.5</u>	<u>5.7</u>	<u>5.7</u>	<u>0</u>	<u>287</u>		<u>12339 9W8 231000 0130</u>		

SHORT HOLD TIME

7. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves  
 8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N  
 9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N  
 10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N  
 11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N \*  
 12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N  
 13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N  
 14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N  
 15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: \*rec'd 2 trip blanks not on COC.  
Only rec'd VOA's for Schmidt Small Kennan, Camp.  
Did not rec BL's for Inorganic Analyses marked on COC.

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water  
**Analysis Method:** 300.0

**Service Request:** K1210818  
**Date Collected:** 10/24/12 - 10/25/12  
**Date Received:** 10/26/12

**Units:** mg/L  
**Basis:** NA

**Chloride**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-22S	K1210818-001	<b>153</b>	4.0	20	10/26/12 11:42	
MW-22D	K1210818-002	<b>155</b>	4.0	20	10/26/12 11:54	
MW-21S	K1210818-003	<b>140</b>	4.0	20	10/26/12 12:06	
MW-21D	K1210818-004	<b>150</b>	4.0	20	10/26/12 12:17	
D19	K1210818-005	<b>130</b>	4.0	20	10/26/12 12:29	
MW-19	K1210818-006	<b>129</b>	4.0	20	10/26/12 12:41	
MW-15D	K1210818-007	<b>133</b>	4.0	20	10/26/12 13:17	
MW-3	K1210818-008	<b>137</b>	4.0	20	10/26/12 13:29	
Method Blank	K1210818-MB1	ND U	0.20	1	10/26/12 09:13	



**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 10/26/12

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002

**Units:** mg/L  
**Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				K1210818-002DUP3 Result			
Chloride	300.0	4.0	155	154	155	<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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 10/26/12

**Duplicate Matrix Spike Summary  
Chloride**

**Sample Name:** MW-22D **Units:**mg/L  
**Lab Code:** K1210818-002 **Basis:**NA  
**Analysis Method:** 300.0

Analyte Name	Sample Result	Result	Matrix Spike K1210818-002MS1		Duplicate Matrix Spike K1210818-002DMS1		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	155	253	100	98	251	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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1210818  
**Date Analyzed:**10/26/12

**Lab Control Sample Summary**  
**Chloride**

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**315667

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210818-LCS1	4.68	5.00	94	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

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## Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water  
**Analysis Method:** 300.0

**Service Request:** K1210818  
**Date Collected:** 10/24/12 - 10/25/12  
**Date Received:** 10/26/12

**Units:** mg/L  
**Basis:** NA

**Nitrate as Nitrogen**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-22S	K1210818-001	<b>9.2</b>	1.0	20	10/26/12 11:42	
MW-22D	K1210818-002	<b>10.2</b>	1.0	20	10/26/12 11:54	
MW-21S	K1210818-003	<b>9.9</b>	1.0	20	10/26/12 12:06	
MW-21D	K1210818-004	<b>10.4</b>	1.0	20	10/26/12 12:17	
D19	K1210818-005	<b>9.4</b>	1.0	20	10/26/12 12:29	
MW-19	K1210818-006	<b>9.4</b>	1.0	20	10/26/12 12:41	
MW-15D	K1210818-007	<b>10.6</b>	1.0	20	10/26/12 13:17	
MW-3	K1210818-008	<b>10.0</b>	1.0	20	10/26/12 13:29	
Method Blank	K1210818-MB1	ND U	0.050	1	10/26/12 09:13	

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 10/26/12

**Replicate Sample Summary  
General Chemistry Parameters**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002

**Units:** mg/L  
**Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1210818- 002DUP3 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Nitrate as Nitrogen	300.0	1.0	10.2	10.2	10.2	<1	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 10/26/12

**Duplicate Matrix Spike Summary  
Nitrate as Nitrogen**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike K1210818-002MS1		Result	Duplicate Matrix Spike K1210818-002DMS1		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Nitrate as Nitrogen	10.2	112	100	102	113	100	103	90-110	<1	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1210818

**Date Analyzed:**10/26/12

**Lab Control Sample Summary**  
**Nitrate as Nitrogen**

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**315667

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210818-LCS1	18.6	17.7	105	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

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## Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water  
**Analysis Method:** 300.0

**Service Request:** K1210818  
**Date Collected:** 10/24/12 - 10/25/12  
**Date Received:** 10/26/12

**Units:** mg/L  
**Basis:** NA

**Sulfate**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-22S	K1210818-001	<b>34.3</b>	2.0	20	10/26/12 11:42	
MW-22D	K1210818-002	<b>33.1</b>	2.0	20	10/26/12 11:54	
MW-21S	K1210818-003	<b>33.4</b>	2.0	20	10/26/12 12:06	
MW-21D	K1210818-004	<b>31.8</b>	2.0	20	10/26/12 12:17	
D19	K1210818-005	<b>41.1</b>	2.0	20	10/26/12 12:29	
MW-19	K1210818-006	<b>41.1</b>	2.0	20	10/26/12 12:41	
MW-15D	K1210818-007	<b>31.0</b>	2.0	20	10/26/12 13:17	
MW-3	K1210818-008	<b>32.5</b>	2.0	20	10/26/12 13:29	
Method Blank	K1210818-MB1	ND U	0.10	1	10/26/12 09:13	



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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 10/26/12

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002

**Units:** mg/L  
**Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				K1210818-002DUP3 Result			
Sulfate	300.0	2.0	33.1	32.9	33.0	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 10/26/12

**Duplicate Matrix Spike Summary**  
**Sulfate**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike K1210818-002MS1		Duplicate Matrix Spike K1210818-002DMS1		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	33.1	132	100	99	133	100	100	90-110	<1	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1210818

**Date Analyzed:**10/26/12

**Lab Control Sample Summary**  
**Sulfate**

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**315667

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210818-LCS1	4.70	5.00	94	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water  
**Analysis Method:** SM 2320 B

**Service Request:** K1210818  
**Date Collected:** 10/24/12 - 10/25/12  
**Date Received:** 10/26/12

**Units:** mg/L  
**Basis:** NA

**Alkalinity as CaCO<sub>3</sub>, Total**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-22S	K1210818-001	<b>300</b>	9.0	1	11/06/12 14:12	
MW-22D	K1210818-002	<b>292</b>	9.0	1	11/06/12 14:12	
MW-21S	K1210818-003	<b>302</b>	9.0	1	11/06/12 14:12	
MW-21D	K1210818-004	<b>294</b>	9.0	1	11/06/12 14:12	
D19	K1210818-005	<b>329</b>	9.0	1	11/06/12 14:12	
MW-19	K1210818-006	<b>326</b>	9.0	1	11/06/12 14:12	
MW-15D	K1210818-007	<b>283</b>	9.0	1	11/06/12 14:12	
MW-3	K1210818-008	<b>249</b>	9.0	1	11/06/12 14:12	
Method Blank	K1210818-MB1	ND U	9.0	1	11/06/12 14:12	
Method Blank	K1210818-MB2	ND U	9.0	1	11/07/12 11:30	

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 11/06/12

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002

**Units:** mg/L  
**Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1210818-002DUP3 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Alkalinity as CaCO <sub>3</sub> , Total	SM 2320 B	9.0	292	297	295	2	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1210818

**Date Analyzed:**11/06/12

**Lab Control Sample Summary**  
**Alkalinity as CaCO<sub>3</sub>, Total**

**Analysis Method:** SM 2320 B

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**317152

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210818-LCS1	61.6	61.0	101	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1210818  
**Date Analyzed:**11/07/12

**Lab Control Sample Summary**  
**Alkalinity as CaCO<sub>3</sub>, Total**

**Analysis Method:** SM 2320 B

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**317430

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210818-LCS2	61.2	61.0	100	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water  
**Analysis Method:** SM 2540 C

**Service Request:** K1210818  
**Date Collected:** 10/24/12 - 10/25/12  
**Date Received:** 10/26/12

**Units:** mg/L  
**Basis:** NA

**Solids, Total Dissolved**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-22S	K1210818-001	<b>727</b>	13	1	10/30/12 00:00	
MW-22D	K1210818-002	<b>725</b>	13	1	10/30/12 00:00	
MW-21S	K1210818-003	<b>675</b>	13	1	10/30/12 00:00	
MW-21D	K1210818-004	<b>732</b>	13	1	10/30/12 00:00	
D19	K1210818-005	<b>700</b>	13	1	10/30/12 00:00	
MW-19	K1210818-006	<b>700</b>	13	1	10/30/12 00:00	
MW-15D	K1210818-007	<b>651</b>	13	1	10/30/12 00:00	
MW-3	K1210818-008	<b>643</b>	13	1	10/30/12 00:00	
Method Blank	K1210818-MB1	ND U	5.0	1	10/30/12 00:00	
Method Blank	K1210818-MB2	ND U	5.0	1	10/30/12 00:00	



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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 10/30/12

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002

**Units:** mg/L  
**Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1210818-002DUP3 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	13	725	719	722	<1	10

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1210818  
**Date Analyzed:**10/30/12

**Lab Control Sample Summary**  
**Solids, Total Dissolved**

**Analysis Method:** SM 2540 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**316148

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210818-LCS1	1270	1240	102	90-108

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water  
**Analysis Method:** SM 4500-NH3 E

**Service Request:** K1210818  
**Date Collected:** 10/24/12 - 10/25/12  
**Date Received:** 10/26/12

**Units:** mg/L  
**Basis:** NA

**Ammonia as Nitrogen**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-22S	K1210818-001	<b>0.052</b>	0.050	1	10/30/12 10:00	
MW-22D	K1210818-002	<b>0.060</b>	0.050	1	10/30/12 10:00	
MW-21S	K1210818-003	ND U	0.050	1	10/30/12 10:00	
MW-21D	K1210818-004	ND U	0.050	1	10/30/12 10:00	
D19	K1210818-005	ND U	0.050	1	10/30/12 10:00	
MW-19	K1210818-006	ND U	0.050	1	10/30/12 10:00	
MW-15D	K1210818-007	ND U	0.050	1	10/30/12 10:00	
MW-3	K1210818-008	ND U	0.050	1	10/30/12 10:00	
Method Blank	K1210818-MB1	ND U	0.050	1	10/30/12 10:00	

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 10/30/12

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002

**Units:** mg/L  
**Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1210818-002DUP3 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	SM 4500-NH3 E	0.050	0.060	0.051	0.0555	16	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 10/30/12

**Matrix Spike Summary**  
**Ammonia as Nitrogen**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002  
**Analysis Method:** SM 4500-NH3 E

**Units:** mg/L  
**Basis:** NA

**Matrix Spike**  
K1210818-002MS2

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	0.060	10.1	10.0	100	80-115

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1210818  
**Date Analyzed:**10/30/12

**Lab Control Sample Summary**  
**Ammonia as Nitrogen**

**Analysis Method:** SM 4500-NH3 E

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**316131

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210818-LCS1	9.99	10.9	92	80-115

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water  
**Analysis Method:** SM 5310 C

**Service Request:** K1210818  
**Date Collected:** 10/24/12 - 10/25/12  
**Date Received:** 10/26/12

**Units:** mg/L  
**Basis:** NA

**Carbon, Total Organic**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-22S	K1210818-001	ND U	0.50	1	11/05/12 22:38	
MW-22D	K1210818-002	ND U	0.50	1	11/05/12 22:38	
MW-21S	K1210818-003	ND U	0.50	1	11/05/12 22:38	
MW-21D	K1210818-004	ND U	0.50	1	11/05/12 22:38	
D19	K1210818-005	ND U	0.50	1	11/05/12 22:38	
MW-19	K1210818-006	ND U	0.50	1	11/05/12 22:38	
MW-15D	K1210818-007	ND U	0.50	1	11/05/12 22:38	
MW-3	K1210818-008	<b>0.53</b>	0.50	1	11/05/12 22:38	
Method Blank	K1210818-MB1	ND U	0.50	1	11/05/12 22:38	
Method Blank	K1210818-MB2	ND U	0.50	1	11/05/12 22:38	

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water  
**Analysis Method:** SM 5310 C

**Service Request:** K1210818  
**Date Collected:** 10/24/12 - 10/25/12  
**Date Received:** 10/26/12

**Units:** mg/L  
**Basis:** NA

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

<b>Sample Name:</b>	<b>Lab Code:</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Result</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Date Analyzed</b>
MW-22S	K1210818-001DUP2	0.50	ND	ND	NC	NC	10	11/05/12
MW-22D	K1210818-002DUP3	0.50	ND	ND	NC	NC	10	11/05/12
MW-21S	K1210818-003DUP4	0.50	ND	ND	NC	NC	10	11/05/12
MW-21D	K1210818-004DUP5	0.50	ND	ND	NC	NC	10	11/05/12
D19	K1210818-005DUP6	0.50	ND	ND	NC	NC	10	11/05/12
MW-19	K1210818-006DUP7	0.50	ND	ND	NC	NC	10	11/05/12
MW-15D	K1210818-007DUP8	0.50	ND	ND	NC	NC	10	11/05/12
MW-3	K1210818-008DUP9	0.50	0.53	ND	NC	NC	10	11/05/12

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/12  
**Date Received:** 10/26/12  
**Date Analyzed:** 11/5/12

**Matrix Spike Summary**  
**Carbon, Total Organic**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002  
**Analysis Method:** SM 5310 C

**Units:** mg/L  
**Basis:** NA

**Matrix Spike**  
K1210818-002MS2

<b>Analyte Name</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Carbon, Total Organic	ND	25.9	25.0	103	83-117

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1210818

**Date Analyzed:**11/05/12

**Lab Control Sample Summary**  
**Carbon, Total Organic**

**Analysis Method:** SM 5310 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**317065

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210818-LCS1	23.7	22.7	105	83-117
Lab Control Sample	K1210818-LCS2	23.2	22.7	102	83-117

**COLUMBIA ANALYTICAL SERVICES, INC.**

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**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services  
**Project Name:** City of Walla Walla Sudbury Road Landfill RI  
**Project No.:**

**Service Request:** K1210818

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<u>Sample Name:</u>	<u>Lab Code:</u>
<u>MW-22S</u>	<u>K1210818-001DISS</u>
<u>MW-22D</u>	<u>K1210818-002DISS</u>
<u>MW-22DD</u>	<u>K1210818-002DISSD</u>
<u>MW-22DS</u>	<u>K1210818-002DISSS</u>
<u>MW-21S</u>	<u>K1210818-003DISS</u>
<u>MW-21D</u>	<u>K1210818-004DISS</u>
<u>D19</u>	<u>K1210818-005DISS</u>
<u>MW-19</u>	<u>K1210818-006DISS</u>
<u>MW-15D</u>	<u>K1210818-007DISS</u>
<u>MW-3</u>	<u>K1210818-008DISS</u>
<u>Method Blank</u>	<u>K1210818-MB</u>

**Comments:**

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services **Service Request:** K1210818  
**Project No.:** NA **Date Collected:** 10/24/2012  
**Project Name:** City of Walla Walla Sudbury Roa **Date Received:** 10/26/2012  
**Matrix:** WATER **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-22S **Lab Code:** K1210818-001DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	11/06/12	11/08/12	129000		
Iron	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Magnesium	6010C	20.0	1.0	11/06/12	11/08/12	54100		
Manganese	6010C	5.00	1.0	11/06/12	11/08/12	5.00	U	
Potassium	6010C	400	1.0	11/06/12	11/08/12	8080		
Sodium	6010C	200	1.0	11/06/12	11/08/12	25600		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210818  
**Project No.:** NA      **Date Collected:** 10/24/2012  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/26/2012  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-22D      **Lab Code:** K1210818-002DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	11/06/12	11/08/12	128000		
Iron	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Magnesium	6010C	20.0	1.0	11/06/12	11/08/12	52900		
Manganese	6010C	5.00	1.0	11/06/12	11/08/12	39.3		
Potassium	6010C	400	1.0	11/06/12	11/08/12	7420		
Sodium	6010C	200	1.0	11/06/12	11/08/12	18100		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1210818  
 Project No.: NA Date Collected: 10/24/2012  
 Project Name: City of Walla Walla Sudbury Roa Date Received: 10/26/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-21S Lab Code: K1210818-003DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	11/06/12	11/08/12	123000		
Iron	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Magnesium	6010C	20.0	1.0	11/06/12	11/08/12	46700		
Manganese	6010C	5.00	1.0	11/06/12	11/08/12	33.2		
Potassium	6010C	400	1.0	11/06/12	11/08/12	7220		
Sodium	6010C	200	1.0	11/06/12	11/08/12	23700		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1210818  
 Project No.: NA Date Collected: 10/24/2012  
 Project Name: City of Walla Walla Sudbury Roa Date Received: 10/26/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-21D Lab Code: K1210818-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	11/06/12	11/08/12	126000		
Iron	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Magnesium	6010C	20.0	1.0	11/06/12	11/08/12	50500		
Manganese	6010C	5.00	1.0	11/06/12	11/08/12	5.00	U	
Potassium	6010C	400	1.0	11/06/12	11/08/12	7130		
Sodium	6010C	200	1.0	11/06/12	11/08/12	17700		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

<b>Client:</b>	Schwyn Environmental Services	<b>Service Request:</b>	K1210818
<b>Project No.:</b>	NA	<b>Date Collected:</b>	10/25/2012
<b>Project Name:</b>	City of Walla Walla Sudbury Roa	<b>Date Received:</b>	10/26/2012
<b>Matrix:</b>	WATER	<b>Units:</b>	ug/L
		<b>Basis:</b>	NA

<b>Sample Name:</b>	D19	<b>Lab Code:</b>	K1210818-005DISS
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Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	11/06/12	11/08/12	131000		
Iron	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Magnesium	6010C	20.0	1.0	11/06/12	11/08/12	48100		
Manganese	6010C	5.00	1.0	11/06/12	11/08/12	5.00	U	
Potassium	6010C	400	1.0	11/06/12	11/08/12	6740		
Sodium	6010C	200	1.0	11/06/12	11/08/12	19100		

Comments:



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services **Service Request:** K1210818  
**Project No.:** NA **Date Collected:** 10/25/2012  
**Project Name:** City of Walla Walla Sudbury Roa **Date Received:** 10/26/2012  
**Matrix:** WATER **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-19 **Lab Code:** K1210818-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	11/06/12	11/08/12	132000		
Iron	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Magnesium	6010C	20.0	1.0	11/06/12	11/08/12	48200		
Manganese	6010C	5.00	1.0	11/06/12	11/08/12	5.00	U	
Potassium	6010C	400	1.0	11/06/12	11/08/12	6760		
Sodium	6010C	200	1.0	11/06/12	11/08/12	19100		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210818  
**Project No.:** NA      **Date Collected:** 10/25/2012  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/26/2012  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-15D      **Lab Code:** K1210818-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	11/06/12	11/08/12	118000		
Iron	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Magnesium	6010C	20.0	1.0	11/06/12	11/08/12	50900		
Manganese	6010C	5.00	1.0	11/06/12	11/08/12	5.00	U	
Potassium	6010C	400	1.0	11/06/12	11/08/12	7470		
Sodium	6010C	200	1.0	11/06/12	11/08/12	18700		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210818  
**Project No.:** NA      **Date Collected:** 10/25/2012  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/26/2012  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-3      **Lab Code:** K1210818-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	11/06/12	11/08/12	108000		
Iron	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Magnesium	6010C	20.0	1.0	11/06/12	11/08/12	48500		
Manganese	6010C	5.00	1.0	11/06/12	11/08/12	5.00	U	
Potassium	6010C	400	1.0	11/06/12	11/08/12	7010		
Sodium	6010C	200	1.0	11/06/12	11/08/12	16700		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services **Service Request:** K1210818  
**Project No.:** NA **Date Collected:**  
**Project Name:** City of Walla Walla Sudbury Roa **Date Received:**  
**Matrix:** WATER **Units:** ug/L  
**Basis:** NA

**Sample Name:** Method Blank **Lab Code:** K1210818-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	11/06/12	11/08/12	50.0	U	
Iron	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Magnesium	6010C	20.0	1.0	11/06/12	11/08/12	20.0	U	
Manganese	6010C	5.00	1.0	11/06/12	11/08/12	5.00	U	
Potassium	6010C	400	1.0	11/06/12	11/08/12	400	U	
Sodium	6010C	200	1.0	11/06/12	11/08/12	200	U	

Comments:



**COLUMBIA ANALYTICAL SERVICES, INC.**

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**Metals**

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**DUPLICATES**

**Client:** Schwyn Environmental Services **Service Request:** K1210818  
**Project No.:** NA **Units:** UG/L  
**Project Name:** City of Walla Walla Sudbury Roa **Basis:** NA  
**Matrix:** WATER

**Sample Name:** MW-22DD

**Lab Code:** K1210818-002DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	128000		127000		0.8		6010C
Iron		20.0	U	20.0	U			6010C
Magnesium	20	52900		52100		1.5		6010C
Manganese	20	39.3		39.3		0.0		6010C
Potassium	20	7420		7290		1.8		6010C
Sodium	20	18100		17800		1.7		6010C

An empty field in the Control Limit column indicates the control limit is not applicable.

**Metals**  
 - 7 -

**LABORATORY CONTROL SAMPLE**

Client: Schwyn Environmental Services

Service Request: K1210818

Project No.: NA

Project Name: City of Walla Walla Sudbury Roa

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Calcium	12500	13000	104.0					
Iron	2500	2590	103.6					
Magnesium	12500	12200	97.6					
Manganese	1250	1300	104.0					
Potassium	12500	12000	96.0					
Sodium	12500	12100	96.8					

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22S  
**Lab Code:** K1210818-001  
**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	<b>0.56</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	<b>0.86</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	<b>0.70</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	<b>1.0</b>		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22S  
**Lab Code:** K1210818-001  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/03/12	Acceptable
Toluene-d8	92	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	<b>0.56</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	<b>0.64</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	<b>0.92</b>		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/03/12	Acceptable
Toluene-d8	92	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21S  
**Lab Code:** K1210818-003  
**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	0.53		0.50	1	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	0.82		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	0.63		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	0.95		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21S  
**Lab Code:** K1210818-003  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/03/12	Acceptable
Toluene-d8	91	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21D  
**Lab Code:** K1210818-004  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	<b>0.70</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	<b>1.0</b>		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21D  
**Lab Code:** K1210818-004  
**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
2-Hexanone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/03/12	Acceptable
Toluene-d8	92	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** D19  
**Lab Code:** K1210818-005  
**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	<b>1.1</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	<b>0.98</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	<b>9.3</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	<b>0.65</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	<b>1.4</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	<b>1.8</b>		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** D19  
**Lab Code:** K1210818-005  
**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
2-Hexanone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	11/03/12	Acceptable
Toluene-d8	92	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-19  
**Lab Code:** K1210818-006  
**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	<b>1.1</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	<b>0.99</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	<b>9.5</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	<b>0.61</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	<b>1.4</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	<b>1.8</b>		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-19  
**Lab Code:** K1210818-006  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/03/12	Acceptable
Toluene-d8	90	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15D  
**Lab Code:** K1210818-007  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	<b>0.70</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	<b>0.58</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	<b>0.91</b>		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15D  
**Lab Code:** K1210818-007  
**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
2-Hexanone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/03/12	Acceptable
Toluene-d8	93	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-3  
**Lab Code:** K1210818-008  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	<b>0.56</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	<b>0.94</b>		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-3  
**Lab Code:** K1210818-008  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	73-122	11/03/12	Acceptable
Toluene-d8	92	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Schmidt  
**Lab Code:** K1210818-009  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Schmidt  
**Lab Code:** K1210818-009  
**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	1	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/03/12	Acceptable
Toluene-d8	91	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Small  
**Lab Code:** K1210818-010  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	<b>0.60</b>		0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	<b>1.4</b>		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Small  
**Lab Code:** K1210818-010  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/03/12	Acceptable
Toluene-d8	92	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	90	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Kinman  
**Lab Code:** K1210818-011  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Kinman  
**Lab Code:** K1210818-011  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/03/12	Acceptable
Toluene-d8	92	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Camp  
**Lab Code:** K1210818-012  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	<b>0.86</b>		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Camp  
**Lab Code:** K1210818-012  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/03/12	Acceptable
Toluene-d8	93	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Trip Blank  
**Lab Code:** K1210818-013  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Trip Blank  
**Lab Code:** K1210818-013  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	73-122	11/03/12	Acceptable
Toluene-d8	92	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1213143-4  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1213143-4  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/03/12	Acceptable
Toluene-d8	91	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818

**Surrogate Recovery Summary  
 Volatile Organic Compounds**

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

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-22S	K1210818-001	97	92	93
MW-22D	K1210818-002	98	92	91
MW-21S	K1210818-003	98	91	92
MW-21D	K1210818-004	99	92	92
D19	K1210818-005	94	92	92
MW-19	K1210818-006	96	90	92
MW-15D	K1210818-007	98	93	91
MW-3	K1210818-008	100	92	92
Schmidt	K1210818-009	96	91	92
Small	K1210818-010	99	92	90
Kinman	K1210818-011	98	92	91
Camp	K1210818-012	98	93	92
Trip Blank	K1210818-013	100	92	93
Method Blank	KWG1213143-4	98	91	92
SchmidtMS	KWG1213143-1	99	95	99
SchmidtDMS	KWG1213143-2	99	96	97
Lab Control Sample	KWG1213143-3	97	95	98

**Surrogate Recovery Control Limits (%)**

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

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Extracted:** 11/03/2012  
**Date Analyzed:** 11/03/2012

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

**Sample Name:** Schmidt  
**Lab Code:** K1210818-009  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213143

Analyte Name	Sample Result	SchmidtMS KWG1213143-1 Matrix Spike			SchmidtDMS KWG1213143-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	10.3	10.0	103	10.3	10.0	103	49-136	0	30
1,1-Dichloroethene	ND	13.5	10.0	135	13.4	10.0	134	59-171	1	30
Chloroform	ND	11.8	10.0	118	11.8	10.0	118	64-133	0	30
Carbon Tetrachloride	ND	11.4	10.0	114	11.3	10.0	113	53-161	1	30
Benzene	ND	10.7	10.0	107	10.7	10.0	107	63-144	0	30
Trichloroethene (TCE)	ND	11.4	10.0	114	11.1	10.0	111	53-139	3	30
Bromodichloromethane	ND	11.4	10.0	114	11.4	10.0	114	61-134	0	30
Toluene	ND	11.0	10.0	110	11.0	10.0	110	71-136	0	30
1,1,2-Trichloroethane	ND	12.5	10.0	125 *	11.9	10.0	119	74-124	4	30
2-Hexanone	ND	59.3	50.0	119	61.1	50.0	122	53-132	3	30
Chlorobenzene	ND	11.2	10.0	112	11.0	10.0	110	69-126	2	30
Ethylbenzene	ND	11.0	10.0	110	10.6	10.0	106	66-136	4	30
1,2,3-Trichloropropane	ND	11.4	10.0	114	12.0	10.0	120	71-127	5	30
1,2-Dichlorobenzene	ND	10.9	10.0	109	11.0	10.0	110	72-119	1	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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Extracted:** 11/03/2012  
**Date Analyzed:** 11/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213143

Lab Control Sample  
 KWG1213143-3  
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	8.92	10.0	89	32-124
Chloromethane	9.16	10.0	92	34-130
Vinyl Chloride	8.78	10.0	88	55-123
Bromomethane	8.98	10.0	90	35-113
Chloroethane	9.48	10.0	95	58-134
Trichlorofluoromethane	8.68	10.0	87	52-141
1,1-Dichloroethene	11.8	10.0	118	66-129
Acetone	62.4	50.0	125	68-135
Iodomethane	27.2	30.0	91	51-164
Carbon Disulfide	18.4	20.0	92	46-144
Methylene Chloride	9.94	10.0	99	71-122
Acrylonitrile	45.5	40.0	114	65-129
trans-1,2-Dichloroethene	10.1	10.0	101	67-125
1,1-Dichloroethane	9.89	10.0	99	68-132
Vinyl Acetate	23.2	50.0	46	44-156
cis-1,2-Dichloroethene	9.82	10.0	98	71-118
2-Butanone (MEK)	60.0	50.0	120	71-149
Bromochloromethane	10.3	10.0	103	75-131
Chloroform	10.5	10.0	105	70-129
1,1,1-Trichloroethane (TCA)	10.2	10.0	102	59-136
Carbon Tetrachloride	9.77	10.0	98	55-140
Benzene	9.56	10.0	96	69-124
1,2-Dichloroethane (EDC)	10.6	10.0	106	56-142
Trichloroethene (TCE)	10.8	10.0	108	67-128
1,2-Dichloropropane	9.66	10.0	97	67-126
Dibromomethane	10.3	10.0	103	69-128
Bromodichloromethane	10.3	10.0	103	63-129
cis-1,3-Dichloropropene	9.76	10.0	98	62-132
4-Methyl-2-pentanone (MIBK)	55.9	50.0	112	64-134
Toluene	9.90	10.0	99	69-124
trans-1,3-Dichloropropene	9.30	10.0	93	59-125
1,1,2-Trichloroethane	10.7	10.0	107	74-118
Tetrachloroethene (PCE)	9.86	10.0	99	62-126
2-Hexanone	57.7	50.0	115	59-131
Dibromochloromethane	10.4	10.0	104	67-126

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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Extracted:** 11/03/2012  
**Date Analyzed:** 11/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213143

Lab Control Sample  
 KWG1213143-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	10.8	10.0	108	74-118
Chlorobenzene	10.1	10.0	101	72-116
Ethylbenzene	9.48	10.0	95	67-121
1,1,1,2-Tetrachloroethane	10.2	10.0	102	66-124
m,p-Xylenes	20.1	20.0	101	69-121
o-Xylene	9.63	10.0	96	71-119
Styrene	9.75	10.0	98	74-121
Bromoform	10.2	10.0	102	52-144
cis-1,4-Dichloro-2-butene	30.4	30.0	101	26-171
1,1,2,2-Tetrachloroethane	9.68	10.0	97	70-127
trans-1,4-Dichloro-2-butene	27.2	30.0	91	46-170
1,2,3-Trichloropropane	11.3	10.0	113	69-123
1,4-Dichlorobenzene	9.99	10.0	100	73-115
1,2-Dichlorobenzene	10.1	10.0	101	72-115
1,2-Dibromo-3-chloropropane	10.3	10.0	103	55-132

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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22S **Units:** ng/L  
**Lab Code:** K1210818-001 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/02/12	11/02/12	KWG1213088	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	11/02/12	Acceptable
Toluene-d8	93	74-112	11/02/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/02/12	Acceptable

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22D **Units:** ng/L  
**Lab Code:** K1210818-002 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	77-123	11/06/12	Acceptable
Toluene-d8	96	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	71	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21S **Units:** ng/L  
**Lab Code:** K1210818-003 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/02/12	11/02/12	KWG1213088	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	11/02/12	Acceptable
Toluene-d8	91	74-112	11/02/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21D **Units:** ng/L  
**Lab Code:** K1210818-004 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	11/06/12	Acceptable
Toluene-d8	96	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** D19 **Units:** ng/L  
**Lab Code:** K1210818-005 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	119	77-123	11/06/12	Acceptable
Toluene-d8	94	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-19 **Units:** ng/L  
**Lab Code:** K1210818-006 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	11/06/12	Acceptable
Toluene-d8	95	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15D **Units:** ng/L  
**Lab Code:** K1210818-007 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	122	77-123	11/06/12	Acceptable
Toluene-d8	95	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** MW-3 **Units:** ng/L  
**Lab Code:** K1210818-008 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	122	77-123	11/06/12	Acceptable
Toluene-d8	94	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Schmidt **Units:** ng/L  
**Lab Code:** K1210818-009 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	123	77-123	11/06/12	Acceptable
Toluene-d8	93	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Small **Units:** ng/L  
**Lab Code:** K1210818-010 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	123	77-123	11/06/12	Acceptable
Toluene-d8	93	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	71	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Kinman **Units:** ng/L  
**Lab Code:** K1210818-011 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	123	77-123	11/06/12	Acceptable
Toluene-d8	93	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/25/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Camp **Units:** ng/L  
**Lab Code:** K1210818-012 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	124	77-123	11/06/12	Outside Control Limits
Toluene-d8	93	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** 10/24/2012  
**Date Received:** 10/26/2012

**Volatile Organic Compounds**

**Sample Name:** Trip Blank  
**Lab Code:** K1210818-013  
**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	1	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	115	77-123	11/06/12	Acceptable
Toluene-d8	98	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	73	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank **Units:** ng/L  
**Lab Code:** KWG1213088-4 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/02/12	11/02/12	KWG1213088	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	11/02/12	Acceptable
Toluene-d8	95	74-112	11/02/12	Acceptable
4-Bromofluorobenzene	74	46-118	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank **Units:** ng/L  
**Lab Code:** KWG1213226-4 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/06/12	11/06/12	KWG1213226	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	77-123	11/06/12	Acceptable
Toluene-d8	99	74-112	11/06/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/06/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818

**Surrogate Recovery Summary  
 Volatile Organic Compounds**

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

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-22S	K1210818-001	121	93	72
MW-22D	K1210818-002	117	96	71
MW-21S	K1210818-003	120	91	72
MW-21D	K1210818-004	120	96	72
D19	K1210818-005	119	94	72
MW-19	K1210818-006	120	95	72
MW-15D	K1210818-007	122	95	72
MW-3	K1210818-008	122	94	72
Schmidt	K1210818-009	123	93	72
Small	K1210818-010	123	93	71
Kinman	K1210818-011	123	93	72
Camp	K1210818-012	124 *	93	72
Trip Blank	K1210818-013	115	98	73
Method Blank	KWG1213088-4	114	95	74
Method Blank	KWG1213226-4	111	99	72
MW-22DMS	KWG1213226-1	106	104	102
MW-22DDMS	KWG1213226-2	107	104	103
Lab Control Sample	KWG1213088-3	107	101	105
Lab Control Sample	KWG1213226-3	108	103	104

**Surrogate Recovery Control Limits (%)**

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

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Extracted:** 11/06/2012  
**Date Analyzed:** 11/06/2012

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

**Sample Name:** MW-22D  
**Lab Code:** K1210818-002  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C SIM

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213226

Analyte Name	Sample Result	MW-22DMS KWG1213226-1 Matrix Spike			MW-22DDMS KWG1213226-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	1940	2000	97	1820	2000	91	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.



COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Extracted:** 11/02/2012  
**Date Analyzed:** 11/02/2012

**Lab Control Spike Summary**  
**Volatile Organic Compounds**

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

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213088

Lab Control Sample  
KWG1213088-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2090	2000	105	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.

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1210818  
**Date Extracted:** 11/06/2012  
**Date Analyzed:** 11/06/2012

**Lab Control Spike Summary**  
**Volatile Organic Compounds**

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

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213226

Lab Control Sample  
KWG1213226-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2070	2000	104	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.



December 6, 2012

Analytical Report for Service Request No: K1210734  
Revised Service Request No: K1210734.02

Craig Schwyn  
Schwyn Environmental Services  
4621 South Custer Court  
Spokane, WA 99223

**RE: City of Walla Walla Sudbury Road Landfill Remedial**

Dear Craig:

Enclosed is the revised report for the samples submitted to our laboratory on October 24, 2012. For your reference, these analyses have been assigned our service request number K1210734.

The analysis date has been revised for Total Dissolved Solids.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com). All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

We apologize for any inconvenience this may have created.

Please call if you have any questions. My extension is 3293. You may also contact me via Email at [Shar.Samy@alsglobal.com](mailto:Shar.Samy@alsglobal.com).

Respectfully submitted,

**Columbia Analytical Services, Inc. dba ALS Environmental**

Shar Samy  
Project Manager

**REVISED**  
5:34 pm, Dec 04, 2012

**REVISED**  
3:07 pm, Dec 06, 2012

SS/lb

Page 1 of 130



ADDRESS 1317 S. 13<sup>th</sup> Avenue, Kelso, WA 98626  
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Columbia Analytical Services, Inc.

Part of the ALS Group A Campbell Brothers Limited Company

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**Columbia Analytical Services, Inc. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEC UST	<a href="http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx">http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2286
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L12-28
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Georgia DNR	<a href="http://www.gaepd.org/Documents/techguide_pcb.html#cel">http://www.gaepd.org/Documents/techguide_pcb.html#cel</a>	881
Hawaii DOH	Not available	-
Idaho DHW	<a href="http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx">http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx</a>	-
Indiana DOH	<a href="http://www.in.gov/isdh/24859.htm">http://www.in.gov/isdh/24859.htm</a>	C-WA-01
ISO 17025	<a href="http://www.pjlabs.com/">http://www.pjlabs.com/</a>	L12-27
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx">http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx</a>	3016
Louisiana DHH	Not available	LA110003
Maine DHS	Not available	WA0035
Michigan DEQ	<a href="http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html">http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html</a>	9949
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-368
Montana DPHHS	<a href="http://www.dphhs.mt.gov/publichealth/">http://www.dphhs.mt.gov/publichealth/</a>	CERT0047
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA35
New Jersey DEP	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	WA005
New Mexico ED	<a href="http://www.nmenv.state.nm.us/dwb/Index.htm">http://www.nmenv.state.nm.us/dwb/Index.htm</a>	-
North Carolina DWQ	<a href="http://www.dwqlab.org/">http://www.dwqlab.org/</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA200001
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/envserv/">http://www.scdhec.gov/environment/envserv/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	4704427-08-TX
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C1203
Wisconsin DNR	<a href="http://dnr.wi.gov/">http://dnr.wi.gov/</a>	998386840
Wyoming (EPA Region 8)	<a href="http://www.epa.gov/region8/water/dwhome/wyomingdi.html">http://www.epa.gov/region8/water/dwhome/wyomingdi.html</a>	-
Kelso Laboratory Website	<a href="http://www.caslab.com">www.caslab.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.caslab.com](http://www.caslab.com) or at the accreditation bodies web site  
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## ALS ENVIRONMENTAL

**Client:** Schwyn Environmental Services  
**Project:** Walla Walla Sudbury Rd Landfill  
**Sample Matrix:** Water

**Service Request No.:** K1210734  
**Date Received:** 10/24/12

### Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix Spike (MS), and Laboratory Control Sample (LCS).

### Sample Receipt

Eighteen water samples were received for analysis at ALS Environmental on 10/24/12. The samples were received in good condition and consistent with the accompanying chain of custody form with exceptions noted in the receipt form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

### General Chemistry Parameters

#### **Carbon, Total Organic by Standard Method 5310 C:**

The Relative Percent Difference (RPD) criterion for the replicate analysis of Carbon, Total Organic in sample D2-7 and MW-12b was not applicable because the analyte concentration was not significantly greater than the Method Reporting Limit (MRL). Analytical values derived from measurements close to the detection limit are not subject to the same accuracy and precision criteria as results derived from measurements higher on the calibration range for the method.

No other anomalies associated with the analysis of these samples were observed.

### Dissolved Metals

No anomalies associated with the analysis of these samples were observed.

### Volatile Organic Compounds by EPA Method 8260

#### **Calibration Verification Exceptions:**

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) MS27\1101F009.D: Iodomethane and Vinyl Acetate. In accordance with the EPA Method 8260C, 80% or more of the CCV analytes must have passed within 20% of the true value. The CCV met these criteria. In accordance with CAS standard operating procedures, an MRL check standard containing the analytes) of concern was analyzed. The MRL check standard verifies instrument sensitivity was adequate to detect the analytes at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the analytes in question, the data quality has not been significantly affected. No further corrective action was required.

#### **Surrogate Exceptions:**

The upper control criterion was exceeded for Dibromofluoromethane in several samples. No target analytes were detected in the sample. The error associated with an elevated recovery equated to a high bias. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

The control criteria were exceeded for Toluene-d8 in several QC samples. The associated matrix spike recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier was flagged accordingly. No further corrective action was appropriate.

Approved by \_\_\_\_\_



Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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

SR# 11210734  
PAGE 1 OF 2

Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation					Analysis Requested						
Project Manager: Craig Schwyn					Number of Containers	VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Chloride, Nitrate, Sulfate (Method 300.0)] [Ca, Fe, Mg, Mn, K, Na (Method 6010C)] [Alkalinity (Method 2320B)] [Ammonia (SM 4500)] [TOC (Method 415.1)] [TDS (SM 2540C)]	(see below)	MS/MSD	REMARKS
Company: Schwyn Environmental Services 4621 South Custer Court Spokane, Washington 99223 509-448-3187: Craig@schwynenviro.com											
Sampler's Signature: _____					Shipped in 3 coolers						
Sample I.D.	Date	Time	LAB ID	Matrix							
MW-5	10/22/12	945			6	X	X				
MW-9		1025			6	X	X				
MW-10		100			6	X	X				
MW-12b		1200			10	X	X				
MW-25		12:30			10	X	X				
MW-26		1300			10	X	X				
MW-16		1330			10	X	X				
MW-18		1415			10	X	X				
MW-17		1500			20	X	X			X	
MW-24		1550			10	X	X				
MW- <del>23</del> 23		1630			10	X	X				
D27		1645			9	X	X				1 VOC broken

SHORT HOLD

<b>TURNAROUND REQUIREMENTS</b> ___ 24 hr ___ 48 hr ___ 5 day <input checked="" type="checkbox"/> Standard (21 days) ___ Provide FAX Preliminary Results Requested Report Date: _____	<b>REPORT REQUIREMENTS</b> I. Routine Report: Results, Method Blank Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required III. Data Validation Report (includes raw data) IV. CLP Deliverable Report <input checked="" type="checkbox"/> V. EDD	Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C
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<b>INVOICE INFORMATION</b> P.O. # _____ Bill to: Schwyn Environmental Services	<b>RELINQUISHED BY:</b> Signature: <u>Craig Schwyn</u> Printed Name: Craig Schwyn Firm: Schwyn Environmental Services Date/Time: <u>10/23/12 1300</u>	<b>RECEIVED BY:</b> Signature: <u>UPS</u> Printed Name: _____ Firm: _____ Date/Time: _____	<b>RELINQUISHED BY:</b> Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	<b>RECEIVED BY:</b> Signature: <u>[Signature]</u> Printed Name: <u>SWOLF</u> Firm: <u>ACS</u> Date/Time: <u>10/24/12 1020</u>
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Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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

SR# 11210734  
PAGE 2 OF 2

Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation					Analysis Requested											
Project Manager: Craig Schwyn					Number of Containers	VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Chloride, Nitrate, Sulfate (Method 300.0)]	[Ca, Fe, Mg, Mn, K, Na (Method 6010C)]	[Alkalinity (Method 2320B)]	[Ammonia (SM 4500)]	[TOC (Method 415.1)]	[TDS (SM 2540C)]	Dissolved Metals (see below)	MS/MSD	REMARKS
Sample I.D.	Date	Time	LAB ID	Matrix												
MW-27	10/24/12	1700		Water	10	X	X		X							shipped in 3 coolers
MW-20	10/22/12	1745		↓	10	X	X		X							
MW-11	10/23/12			↓	10	X	X		X							
MW-14b	10/23/12	9:15		↓	10	X	X		X							
MW-15	10/23/12	10:00		↓	10	X	X		X							

<b>JRNAROUND REQUIREMENTS</b> <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input checked="" type="checkbox"/> Standard (21 days) <input type="checkbox"/> Provide FAX Preliminary Results Requested Report Date: _____	<b>REPORT REQUIREMENTS</b> I. Routine Report: Results, Method Blank Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required III. Data Validation Report (includes raw data) IV. CLP Deliverable Report <input checked="" type="checkbox"/> V. EDD	Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C
<b>Invoice Information</b> P.O. # _____ Bill to: Schwyn Environmental Services		

<b>RELINQUISHED BY:</b> Signature: <u>Craig Schwyn</u> Printed Name: Craig Schwyn Firm: Schwyn Environmental Services Date/Time: <u>10/23/12 13:00</u>	<b>RECEIVED BY:</b> Signature: <u>UPS</u> Printed Name: _____ Firm: _____ Date/Time: _____	<b>RELINQUISHED BY:</b> Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	<b>RECEIVED BY:</b> Signature: <u>DLW</u> Printed Name: <u>SWOFF</u> Firm: <u>CLS</u> Date/Time: <u>10/24/12 10:20</u>
--	--	---	--



PC Shar

### Cooler Receipt and Preservation Form

Client / Project: Schwyn Service Request K12 10784  
 Received: 10/24/12 Opened: 10/24/12 By: JW Unloaded: 10/24/12 By: JW

1. Samples were received via? UPS ~~Mail~~ ~~Fed Ex~~ ~~DHL~~ ~~PDX~~ ~~Courier~~ ~~Hand Delivered~~  
 2. Samples were received in: (circle) Cooler ~~Box~~ ~~Envelope~~ ~~Other~~ NA  
 3. Were custody seals on coolers? Y ~~NA~~ ~~N~~ If yes, how many and where? 2 front + back  
 If present, were custody seals intact? Y ~~N~~ If present, were they signed and dated? Y ~~N~~

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
-0.2	-0.2	—	—	0	287	<u>NA</u>	12 339 9w18 23 1000	0096	
0.9	0.9			0	262		" " " "	0103	
0.2	0.3	3.9	3.6	+0.1	259		" " " "	0096	

7. Packing material: Bubble Wrap Gel Packs ~~Inserts~~ ~~Baggies~~ ~~Wet Ice~~ ~~Dry Ice~~ ~~Sleeves~~  
 8. Were custody papers properly filled out (ink, signed, etc.)? Y ~~NA~~ ~~N~~  
 9. Did all bottles arrive in good condition (unbroken)? Y ~~NA~~ ~~N~~  
 10. Were all sample labels complete (i.e analysis, preservation, etc.)? Y ~~NA~~ ~~N~~  
 11. Did all sample labels and tags agree with custody papers? Y ~~NA~~ ~~N~~  
 12. Were appropriate bottles/containers and volumes received for the tests indicated? Y ~~NA~~ ~~N~~  
 13. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Y ~~NA~~ ~~N~~  
 14. Were VOA vials received without headspace? Y ~~NA~~ ~~N~~  
 15. Was C12/Res negative? Y ~~NA~~ ~~N~~

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

SHORT HOLD TIME

Notes, Discrepancies, & Resolutions: Client wrote 100 for time (MW-10) but on the bottles has 1100. Time for MW-11 has 0820 on the bottles, it was not notated on the COC.  
Rec'd 2-vials for Trip blanks.

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

## Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water  
**Analysis Method:** 300.0

**Service Request:** K1210734  
**Date Collected:** 10/22/12 - 10/23/12  
**Date Received:** 10/24/12

**Units:** mg/L  
**Basis:** NA

**Chloride**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-12b	K1210734-004	133	4.0	20	10/24/12 10:59	
MW-25	K1210734-005	61.9	4.0	20	10/24/12 11:11	
MW-26	K1210734-006	101	4.0	20	10/24/12 11:23	
MW-16	K1210734-007	142	4.0	20	10/24/12 11:35	
MW-18	K1210734-008	152	4.0	20	10/24/12 11:47	
MW-17	K1210734-009	136	4.0	20	10/24/12 11:59	
MW-24	K1210734-010	101	4.0	20	10/24/12 12:11	
MW-23	K1210734-011	121	4.0	20	10/24/12 12:23	
D2-7	K1210734-012	127	4.0	20	10/24/12 12:35	
MW-27	K1210734-013	126	4.0	20	10/24/12 12:47	
MW-20	K1210734-014	145	4.0	20	10/24/12 13:23	
MW-11	K1210734-015	83.9	4.0	20	10/24/12 13:35	
MW14b	K1210734-016	141	4.0	20	10/24/12 13:47	
MW-15	K1210734-017	117	4.0	20	10/24/12 13:59	
Method Blank	K1210734-MB1	ND U	0.20	1	10/24/12 09:29	
Method Blank	K1210734-MB2	ND U	0.20	1	10/24/12 15:46	

COLUMBIA ANALYTICAL SERVICES, INC.

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  
**Analysis Method:** 300.0

**Service Request:** K1210734

**Date Collected:** 10/22/12

**Date Received:** 10/24/12

**Units:** mg/L

**Basis:** NA

**Duplicate Sample Summary**

**Chloride**

<b>Sample Name:</b>	<b>Lab Code:</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Result</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Date Analyzed</b>
MW-17	K1210734-009DUP7	4.0	136	135	136	1	20	10/24/12
MW-24	K1210734-010DUP8	4.0	101	100	101	<1	20	10/24/12
MW-23	K1210734-011DUP9	4.0	121	120	121	<1	20	10/24/12

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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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/24/12

**Duplicate Matrix Spike Summary  
Chloride**

**Sample Name:** MW-17  
**Lab Code:** K1210734-009  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike K1210734-009MS1		Duplicate Matrix Spike K1210734-009DMS1		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	136	230	100	94	229	100	93	90-110	<1	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/24/12

**Duplicate Matrix Spike Summary  
Chloride**

**Sample Name:** MW-24  
**Lab Code:** K1210734-010  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike K1210734-010MS3		Duplicate Matrix Spike K1210734-010DMS3		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	101	196	100	95	194	100	93	90-110	1	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/24/12

**Duplicate Matrix Spike Summary  
Chloride**

**Sample Name:** MW-23  
**Lab Code:** K1210734-011  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike K1210734-011MS4		Duplicate Matrix Spike K1210734-011DMS4		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	121	216	100	95	215	100	94	90-110	<1	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:**K1210734

**Date Analyzed:**10/24/12

**Lab Control Sample Summary**  
**Chloride**

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**315272

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210734-LCS1	4.69	5.00	94	90-110
Lab Control Sample	K1210734-LCS2	4.65	5.00	93	90-110



**COLUMBIA ANALYTICAL SERVICES, INC.**

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## Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water  
**Analysis Method:** 300.0

**Service Request:** K1210734  
**Date Collected:** 10/22/12 - 10/23/12  
**Date Received:** 10/24/12

**Units:** mg/L  
**Basis:** NA

**Nitrate as Nitrogen**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-12b	K1210734-004	<b>9.4</b>	1.0	20	10/24/12 10:59	
MW-25	K1210734-005	<b>10.1</b>	1.0	20	10/24/12 11:11	
MW-26	K1210734-006	<b>8.1</b>	1.0	20	10/24/12 11:23	
MW-16	K1210734-007	<b>8.5</b>	1.0	20	10/24/12 11:35	
MW-18	K1210734-008	<b>9.5</b>	1.0	20	10/24/12 11:47	
MW-17	K1210734-009	<b>10.0</b>	1.0	20	10/24/12 11:59	
MW-24	K1210734-010	<b>10.5</b>	1.0	20	10/24/12 12:11	
MW-23	K1210734-011	<b>10.3</b>	1.0	20	10/24/12 12:23	
D2-7	K1210734-012	<b>10.2</b>	1.0	20	10/24/12 12:35	
MW-27	K1210734-013	<b>10.2</b>	1.0	20	10/24/12 12:47	
MW-20	K1210734-014	<b>10.0</b>	1.0	20	10/24/12 13:23	
MW-11	K1210734-015	<b>8.0</b>	1.0	20	10/24/12 13:35	
MW14b	K1210734-016	<b>8.7</b>	1.0	20	10/24/12 13:47	
MW-15	K1210734-017	<b>6.2</b>	1.0	20	10/24/12 13:59	
Method Blank	K1210734-MB1	ND U	0.050	1	10/24/12 09:29	
Method Blank	K1210734-MB2	ND U	0.050	1	10/24/12 15:46	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water  
**Analysis Method:** 300.0

**Service Request:** K1210734

**Date Collected:** 10/22/12

**Date Received:** 10/24/12

**Units:** mg/L

**Basis:** NA

**Duplicate Sample Summary**

**Nitrate as Nitrogen**

<b>Sample Name:</b>	<b>Lab Code:</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Result</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Date Analyzed</b>
MW-17	K1210734-009DUP7	1.0	10.0	10.0	10.0	<1	20	10/24/12
MW-24	K1210734-010DUP8	1.0	10.5	10.4	10.4	<1	20	10/24/12
MW-23	K1210734-011DUP9	1.0	10.3	10.2	10.2	<1	20	10/24/12

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/24/12

**Duplicate Matrix Spike Summary**  
**Nitrate as Nitrogen**

**Sample Name:** MW-17  
**Lab Code:** K1210734-009  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike K1210734-009MS1		Result	Duplicate Matrix Spike K1210734-009DMS1		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Nitrate as Nitrogen	10.0	108	100	98	109	100	98	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/24/12

**Duplicate Matrix Spike Summary**  
**Nitrate as Nitrogen**

**Sample Name:** MW-24  
**Lab Code:** K1210734-010  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike		Duplicate Matrix Spike		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	10.5	109	100	99	109	100	98	90-110	<1	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/24/12

**Duplicate Matrix Spike Summary**  
**Nitrate as Nitrogen**

**Sample Name:** MW-23  
**Lab Code:** K1210734-011  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike K1210734-011MS4		Duplicate Matrix Spike K1210734-011DMS4		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	10.3	110	100	100	110	100	100	90-110	<1	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:**K1210734  
**Date Analyzed:**10/24/12

**Lab Control Sample Summary**  
**Nitrate as Nitrogen**

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**315272

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210734-LCS1	18.4	17.7	104	90-110
Lab Control Sample	K1210734-LCS2	17.7	17.7	100	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

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## Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water  
**Analysis Method:** 300.0

**Service Request:** K1210734  
**Date Collected:** 10/22/12 - 10/23/12  
**Date Received:** 10/24/12

**Units:** mg/L  
**Basis:** NA

**Sulfate**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-12b	K1210734-004	<b>32.7</b>	2.0	20	10/24/12 10:59	
MW-25	K1210734-005	<b>25.7</b>	2.0	20	10/24/12 11:11	
MW-26	K1210734-006	<b>29.1</b>	2.0	20	10/24/12 11:23	
MW-16	K1210734-007	<b>35.7</b>	2.0	20	10/24/12 11:35	
MW-18	K1210734-008	<b>33.3</b>	2.0	20	10/24/12 11:47	
MW-17	K1210734-009	<b>29.5</b>	2.0	20	10/24/12 11:59	
MW-24	K1210734-010	<b>30.8</b>	2.0	20	10/24/12 12:11	
MW-23	K1210734-011	<b>31.6</b>	2.0	20	10/24/12 12:23	
D2-7	K1210734-012	<b>30.6</b>	2.0	20	10/24/12 12:35	
MW-27	K1210734-013	<b>30.7</b>	2.0	20	10/24/12 12:47	
MW-20	K1210734-014	<b>33.4</b>	2.0	20	10/24/12 13:23	
MW-11	K1210734-015	<b>28.1</b>	2.0	20	10/24/12 13:35	
MW14b	K1210734-016	<b>38.4</b>	2.0	20	10/24/12 13:47	
MW-15	K1210734-017	<b>40.8</b>	2.0	20	10/24/12 13:59	
Method Blank	K1210734-MB1	ND U	0.10	1	10/24/12 09:29	
Method Blank	K1210734-MB2	ND U	0.10	1	10/24/12 15:46	

**COLUMBIA ANALYTICAL SERVICES, INC.**

**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  
**Analysis Method:** 300.0

**Service Request:** K1210734

**Date Collected:** 10/22/12

**Date Received:** 10/24/12

**Units:** mg/L

**Basis:** NA

**Duplicate Sample Summary**

**Sulfate**

<b>Sample Name:</b>	<b>Lab Code:</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Result</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Date Analyzed</b>
MW-17	K1210734-009DUP7	2.0	29.5	29.9	29.7	1	20	10/24/12
MW-24	K1210734-010DUP8	2.0	30.8	30.7	30.8	<1	20	10/24/12
MW-23	K1210734-011DUP9	2.0	31.6	31.3	31.4	1	20	10/24/12

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/24/12

**Duplicate Matrix Spike Summary  
Sulfate**

**Sample Name:** MW-17 **Units:**mg/L  
**Lab Code:** K1210734-009 **Basis:**NA  
**Analysis Method:** 300.0

Analyte Name	Sample Result	Result	Matrix Spike K1210734-009MS1		Duplicate Matrix Spike K1210734-009DMS1		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	29.5	126	100	96	128	100	98	90-110	2	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/24/12

**Duplicate Matrix Spike Summary**  
**Sulfate**

**Sample Name:** MW-24  
**Lab Code:** K1210734-010  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike K1210734-010MS3		Duplicate Matrix Spike K1210734-010DMS3		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	30.8	127	100	96	127	100	96	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/24/12

**Duplicate Matrix Spike Summary**  
**Sulfate**

**Sample Name:** MW-23  
**Lab Code:** K1210734-011  
**Analysis Method:** 300.0

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike K1210734-011MS4		Duplicate Matrix Spike K1210734-011DMS4		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	31.6	129	100	98	129	100	98	90-110	<1	20

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:**K1210734  
**Date Analyzed:**10/24/12

**Lab Control Sample Summary**  
**Sulfate**

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**315272

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210734-LCS1	4.70	5.00	94	90-110
Lab Control Sample	K1210734-LCS2	4.69	5.00	94	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

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## Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water  
**Analysis Method:** SM 2320 B

**Service Request:** K1210734  
**Date Collected:** 10/22/12 - 10/23/12  
**Date Received:** 10/24/12

**Units:** mg/L  
**Basis:** NA

**Alkalinity as CaCO<sub>3</sub>, Total**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-12b	K1210734-004	<b>278</b>	9.0	1	11/05/12 12:28	
MW-25	K1210734-005	<b>226</b>	9.0	1	11/05/12 12:28	
MW-26	K1210734-006	<b>309</b>	9.0	1	11/05/12 12:28	
MW-16	K1210734-007	<b>280</b>	9.0	1	11/05/12 12:28	
MW-18	K1210734-008	<b>316</b>	9.0	1	11/05/12 12:28	
MW-17	K1210734-009	<b>299</b>	9.0	1	11/05/12 12:28	
MW-24	K1210734-010	<b>279</b>	9.0	1	11/05/12 12:28	
MW-23	K1210734-011	<b>292</b>	9.0	1	11/05/12 12:28	
D2-7	K1210734-012	<b>291</b>	9.0	1	11/05/12 12:28	
MW-27	K1210734-013	<b>292</b>	9.0	1	11/05/12 12:28	
MW-20	K1210734-014	<b>315</b>	9.0	1	11/05/12 12:28	
MW-11	K1210734-015	<b>273</b>	9.0	1	11/05/12 12:28	
MW14b	K1210734-016	<b>289</b>	9.0	1	11/05/12 12:28	
MW-15	K1210734-017	<b>539</b>	9.0	1	11/05/12 12:28	
Method Blank	K1210734-MB1	ND U	9.0	1	11/05/12 12:28	
Method Blank	K1210734-MB2	ND U	9.0	1	11/05/12 12:28	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill Remedial
Sample Matrix: Water

Service Request: K1210734
Date Collected: 10/22/12
Date Received: 10/24/12
Date Analyzed: 11/05/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-17 Units: mg/L
Lab Code: K1210734-009 Basis: NA

Table with 8 columns: Analyte Name, Analysis Method, MRL, Sample Result, Duplicate Sample Result (K1210734-009DUP7), Average, RPD, RPD Limit. Row 1: Alkalinity as CaCO3, Total, SM 2320 B, 9.0, 299, 299, 299, <1, 20.

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:**K1210734  
**Date Analyzed:**11/05/12

**Lab Control Sample Summary**  
**Alkalinity as CaCO<sub>3</sub>, Total**

**Analysis Method:** SM 2320 B

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**316896

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210734-LCS1	61.1	61.0	100	90-110
Lab Control Sample	K1210734-LCS2	62.6	61.0	103	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water  
**Analysis Method:** SM 2540 C

**Service Request:** K1210734  
**Date Collected:** 10/22/12 - 10/23/12  
**Date Received:** 10/24/12

**Units:** mg/L  
**Basis:** NA

**Solids, Total Dissolved**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-12b	K1210734-004	<b>664</b>	13	1	10/26/12 14:00	
MW-25	K1210734-005	<b>468</b>	10	1	10/26/12 14:00	
MW-26	K1210734-006	<b>603</b>	13	1	10/26/12 14:00	
MW-16	K1210734-007	<b>687</b>	13	1	10/26/12 14:00	
MW-18	K1210734-008	<b>755</b>	13	1	10/26/12 14:00	
MW-17	K1210734-009	<b>700</b>	13	1	10/26/12 14:00	
MW-24	K1210734-010	<b>576</b>	13	1	10/26/12 14:00	
MW-23	K1210734-011	<b>656</b>	13	1	10/26/12 14:00	
D2-7	K1210734-012	<b>653</b>	13	1	10/26/12 14:00	
MW-27	K1210734-013	<b>673</b>	13	1	10/26/12 14:00	
MW-20	K1210734-014	<b>708</b>	13	1	10/26/12 14:00	
MW-11	K1210734-015	<b>572</b>	10	1	10/26/12 14:00	
MW14b	K1210734-016	<b>688</b>	13	1	10/26/12 14:00	
MW-15	K1210734-017	<b>879</b>	13	1	10/26/12 14:00	
Method Blank	K1210734-MB1	ND U	5.0	1	10/26/12 14:00	
Method Blank	K1210734-MB2	ND U	5.0	1	10/26/12 14:00	

**REVISED**  
 3:06 pm, Dec 06, 2012



COLUMBIA ANALYTICAL SERVICES, INC.

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  
**Analysis Method:** SM 2540 C

**Service Request:** K1210734  
**Date Collected:** 10/22/12 - 10/23/12  
**Date Received:** 10/24/12

**Units:** mg/L  
**Basis:** NA

**Duplicate Sample Summary**  
**Solids, Total Dissolved**

<b>Sample Name:</b>	<b>Lab Code:</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Result</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Date Analyzed</b>
MW-17	K1210734-009DUP	13	700	691	695	1	10	10/26/12
MW-15	K1210734-017DUP	13	879	936	907	6	10	10/26/12

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 12/6/2012 6:48:32 AM

**REVISED**  
3:06 pm, Dec 06, 2012

Superset Reference:12-0000228539 rev 00

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:**K1210734  
**Date Analyzed:**10/26/12

**Lab Control Sample Summary**  
**Solids, Total Dissolved**

**Analysis Method:** SM 2540 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**315757

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210734-LCS1	1250	1240	101	90-108

**REVISED**

**3:06 pm, Dec 06, 2012**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water  
**Analysis Method:** SM 4500-NH3 E

**Service Request:** K1210734  
**Date Collected:** 10/22/12 - 10/23/12  
**Date Received:** 10/24/12

**Units:** mg/L  
**Basis:** NA

**Ammonia as Nitrogen**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-12b	K1210734-004	ND U	0.050	1	10/26/12 02:40	
MW-25	K1210734-005	ND U	0.050	1	10/26/12 02:40	
MW-26	K1210734-006	ND U	0.050	1	10/26/12 02:40	
MW-16	K1210734-007	ND U	0.050	1	10/26/12 02:40	
MW-18	K1210734-008	ND U	0.050	1	10/26/12 02:40	
MW-17	K1210734-009	ND U	0.050	1	10/26/12 02:40	
MW-24	K1210734-010	ND U	0.050	1	10/26/12 02:40	
MW-23	K1210734-011	ND U	0.050	1	10/26/12 02:40	
D2-7	K1210734-012	ND U	0.050	1	10/26/12 02:40	
MW-27	K1210734-013	ND U	0.050	1	10/26/12 02:40	
MW-20	K1210734-014	ND U	0.050	1	10/26/12 02:40	
MW-11	K1210734-015	ND U	0.050	1	10/26/12 02:40	
MW14b	K1210734-016	ND U	0.050	1	10/26/12 02:40	
MW-15	K1210734-017	ND U	0.050	1	10/26/12 02:40	
Method Blank	K1210734-MB1	ND U	0.050	1	10/26/12 02:40	

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/26/12

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** MW-17  
**Lab Code:** K1210734-009

**Units:** mg/L  
**Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1210734-009DUP7 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	SM 4500-NH3 E	0.050	ND	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 10/26/12

**Matrix Spike Summary**  
**Ammonia as Nitrogen**

**Sample Name:** MW-17  
**Lab Code:** K1210734-009  
**Analysis Method:** SM 4500-NH3 E

**Units:** mg/L  
**Basis:** NA

**Matrix Spike**  
K1210734-009MS2

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	ND	9.77	10.0	98	80-115

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

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:**K1210734  
**Date Analyzed:**10/26/12

**Lab Control Sample Summary**  
**Ammonia as Nitrogen**

**Analysis Method:** SM 4500-NH3 E

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**316066

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210734-LCS1	10.4	10.9	95	80-115

**COLUMBIA ANALYTICAL SERVICES, INC.**

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## Analytical Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water  
**Analysis Method:** SM 5310 C

**Service Request:** K1210734  
**Date Collected:** 10/22/12 - 10/23/12  
**Date Received:** 10/24/12

**Units:** mg/L  
**Basis:** NA

**Carbon, Total Organic**

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
MW-12b	K1210734-004	<b>0.70</b>	0.50	1	11/01/12 17:40	
MW-25	K1210734-005	<b>0.56</b>	0.50	1	11/01/12 17:40	
MW-26	K1210734-006	<b>0.56</b>	0.50	1	11/01/12 17:40	
MW-16	K1210734-007	<b>0.57</b>	0.50	1	11/01/12 17:40	
MW-18	K1210734-008	<b>0.59</b>	0.50	1	11/01/12 17:40	
MW-17	K1210734-009	<b>0.58</b>	0.50	1	11/01/12 17:40	
MW-24	K1210734-010	<b>0.68</b>	0.50	1	11/01/12 17:40	
MW-23	K1210734-011	<b>0.61</b>	0.50	1	11/01/12 17:40	
D2-7	K1210734-012	<b>0.60</b>	0.50	1	11/01/12 17:40	
MW-27	K1210734-013	<b>0.61</b>	0.50	1	11/01/12 17:40	
MW-20	K1210734-014	<b>0.59</b>	0.50	1	11/01/12 17:40	
MW-11	K1210734-015	<b>0.56</b>	0.50	1	11/01/12 17:40	
MW14b	K1210734-016	<b>0.51</b>	0.50	1	11/01/12 17:40	
MW-15	K1210734-017	<b>1.12</b>	0.50	1	11/01/12 17:40	
Method Blank	K1210734-MB1	ND U	0.50	1	11/01/12 17:40	
Method Blank	K1210734-MB2	ND U	0.50	1	11/01/12 17:40	

**COLUMBIA ANALYTICAL SERVICES, INC.**

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  
**Analysis Method:** SM 5310 C

**Service Request:** K1210734  
**Date Collected:** 10/22/12 - 10/23/12  
**Date Received:** 10/24/12

**Units:** mg/L  
**Basis:** NA

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

<b>Sample Name:</b>	<b>Lab Code:</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Result</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Date Analyzed</b>
MW-12b	K1210734-004DUP2	0.50	0.70	0.61	0.655	13 *	10	11/01/12
MW-25	K1210734-005DUP3	0.50	0.56	0.53	0.547	5	10	11/01/12
MW-26	K1210734-006DUP4	0.50	0.56	0.60	0.581	8	10	11/01/12
MW-16	K1210734-007DUP5	0.50	0.57	ND	NC	NC	10	11/01/12
MW-18	K1210734-008DUP6	0.50	0.59	0.55	0.568	7	10	11/01/12
MW-17	K1210734-009DUP7	0.50	0.58	0.57	0.578	1	10	11/01/12
MW-24	K1210734-010DUP8	0.50	0.68	0.62	0.646	9	10	11/01/12
MW-23	K1210734-011DUP9	0.50	0.61	0.62	0.616	2	10	11/01/12
D2-7	K1210734-012DUP10	0.50	0.60	0.52	0.564	14 *	10	11/01/12
MW-27	K1210734-013DUP11	0.50	0.61	0.57	0.594	7	10	11/01/12
MW-20	K1210734-014DUP12	0.50	0.59	0.59	0.592	<1	10	11/01/12
MW-11	K1210734-015DUP13	0.50	0.56	ND	NC	NC	10	11/01/12
MW14b	K1210734-016DUP14	0.50	0.51	ND	NC	NC	10	11/01/12
MW-15	K1210734-017DUP15	0.50	1.12	1.10	1.11	2	10	11/01/12

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Collected:** 10/22/12  
**Date Received:** 10/24/12  
**Date Analyzed:** 11/1/12

**Matrix Spike Summary**  
**Carbon, Total Organic**

**Sample Name:** MW-17  
**Lab Code:** K1210734-009  
**Analysis Method:** SM 5310 C

**Units:** mg/L  
**Basis:** NA

**Matrix Spike**  
K1210734-009MS2

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Carbon, Total Organic	0.58	25.4	25.0	99	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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:**K1210734

**Date Analyzed:**11/01/12

**Lab Control Sample Summary**  
**Carbon, Total Organic**

**Analysis Method:** SM 5310 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**316600

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1210734-LCS1	22.9	22.7	101	83-117
Lab Control Sample	K1210734-LCS2	23.0	22.7	101	83-117

**COLUMBIA ANALYTICAL SERVICES, INC.**

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**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services  
**Project Name:** City of Walla Walla Sudbury Road Landfill Remedial  
**Project No.:**

**Service Request:** K1210734

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<u>Sample Name:</u>	<u>Lab Code:</u>
MW-12b	K1210734-004DISS
MW-25	K1210734-005DISS
MW-26	K1210734-006DISS
MW-16	K1210734-007DISS
MW-18	K1210734-008DISS
MW-17	K1210734-009DISS
MW-17D	K1210734-009DISSD
MW-17S	K1210734-009DISSS
MW-24	K1210734-010DISS
MW-23	K1210734-011DISS
D2-7	K1210734-012DISS
MW-27	K1210734-013DISS
MW-20	K1210734-014DISS
MW-11	K1210734-015DISS
MW14b	K1210734-016DISS
MW-15	K1210734-017DISS
Method Blank	K1210734-MB

**REVISED**  
5:34 pm, Dec 04, 2012

**Comments:**

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-12b      **Lab Code:** K1210734-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	103000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	46600		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7660		
Sodium	6010C	200	1.0	10/31/12	11/01/12	28600		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-25      **Lab Code:** K1210734-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	76000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	28500		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	21.0		
Potassium	6010C	400	1.0	10/31/12	11/01/12	7560		
Sodium	6010C	200	1.0	10/31/12	11/01/12	31700		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-26      **Lab Code:** K1210734-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	98900		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	40400		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	8420		
Sodium	6010C	200	1.0	10/31/12	11/01/12	34000		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-16      **Lab Code:** K1210734-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	113000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	49000		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7250		
Sodium	6010C	200	1.0	10/31/12	11/01/12	20900		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-18      **Lab Code:** K1210734-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	120000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	53200		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	8470		
Sodium	6010C	200	1.0	10/31/12	11/01/12	29500		

Comments:



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-17      **Lab Code:** K1210734-009DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	111000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	48500		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	8.70		
Potassium	6010C	400	1.0	10/31/12	11/01/12	8070		
Sodium	6010C	200	1.0	10/31/12	11/01/12	29600		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-24      **Lab Code:** K1210734-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	96600		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	42900		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.60		
Potassium	6010C	400	1.0	10/31/12	11/01/12	7590		
Sodium	6010C	200	1.0	10/31/12	11/01/12	25400		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-23      **Lab Code:** K1210734-011DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	109000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	46600		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7820		
Sodium	6010C	200	1.0	10/31/12	11/01/12	26300		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** D2-7      **Lab Code:** K1210734-012DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	108000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	46600		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7680		
Sodium	6010C	200	1.0	10/31/12	11/01/12	26600		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-27      **Lab Code:** K1210734-013DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	109000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	47200		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7720		
Sodium	6010C	200	1.0	10/31/12	11/01/12	27000		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-20      **Lab Code:** K1210734-014DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	123000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	52900		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	7.80		
Potassium	6010C	400	1.0	10/31/12	11/01/12	8140		
Sodium	6010C	200	1.0	10/31/12	11/01/12	27300		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/23/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-11      **Lab Code:** K1210734-015DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	87400		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	34700		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7890		
Sodium	6010C	200	1.0	10/31/12	11/01/12	36100		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/23/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW14b      **Lab Code:** K1210734-016DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	119000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	49600		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7620		
Sodium	6010C	200	1.0	10/31/12	11/01/12	17700		

Comments:



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/23/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-15      **Lab Code:** K1210734-017DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	157000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	49900		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	52.3		
Potassium	6010C	400	1.0	10/31/12	11/01/12	8660		
Sodium	6010C	200	1.0	10/31/12	11/01/12	66500		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:**  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:**  
**Matrix:** WATER      **Units:** ug/L  
    **Basis:** NA

**Sample Name:** Method Blank      **Lab Code:** K1210734-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	50.0	U	
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	400	U	
Sodium	6010C	200	1.0	10/31/12	11/01/12	200	U	

Comments:

**Metals**  
 - 5A -  
**SPIKE SAMPLE RECOVERY**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Units:** UG/L  
**Project Name:** City of Walla Walla Sudbury Roa      **Basis:** NA  
**Matrix:** WATER

**Sample Name:** MW-17S

**Lab Code:** K1210734-009DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Calcium		117000		111000		10000.00	60.0		6010C
Iron	75 - 125	967		20.0	U	1000.00	96.7		6010C
Magnesium		57000		48500		10000.00	85.0		6010C
Manganese	84 - 121	485		8.70		500.00	95.3		6010C
Potassium	75 - 125	18400		8070		10000.00	103.3		6010C
Sodium	75 - 125	39000		29600		10000.00	94.0		6010C

An empty field in the Control Limit column indicates the control limit is not applicable

**COLUMBIA ANALYTICAL SERVICES, INC.**

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**Metals**

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**DUPLICATES****Client:** Schwyn Environmental Services**Service Request:** K1210734**Project No.:** NA**Units:** UG/L**Project Name:** City of Walla Walla Sudbury Roa**Basis:** NA**Matrix:** WATER**Sample Name:** MW-17D**Lab Code:** K1210734-009DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	111000		108000		2.7		6010C
Iron		20.0	U	20.0	U			6010C
Magnesium	20	48500		47700		1.7		6010C
Manganese		8.70		8.40		3.5		6010C
Potassium	20	8070		8030		0.5		6010C
Sodium	20	29600		29200		1.4		6010C

An empty field in the Control Limit column indicates the control limit is not applicable.

**Metals**

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**LABORATORY CONTROL SAMPLE**

**Client:** Schwyn Environmental Services

**Service Request:** K1210734

**Project No.:** NA

**Project Name:** City of Walla Walla Sudbury Roa

**Aqueous LCS Source:** Inorganic Ventures

**Solid LCS Source:**

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Calcium	12500	12400	99.2					
Iron	2500	2390	95.6					
Magnesium	12500	12500	100.0					
Manganese	1250	1220	97.6					
Potassium	12500	12700	101.6					
Sodium	12500	12800	102.4					

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Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-5  
**Lab Code:** K1210734-001  
**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	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Chloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichlorofluoromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Acetone	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Iodomethane	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
Carbon Disulfide	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Methylene Chloride	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Acrylonitrile	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Acetate	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
2-Butanone (MEK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Bromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroform	<b>0.68</b>		0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Carbon Tetrachloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Benzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichloroethene (TCE)	<b>1.9</b>		0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Dibromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromodichloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Toluene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,2-Trichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Tetrachloroethene (PCE)	<b>0.79</b>		0.50	1	11/01/12	11/01/12	KWG1213040	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-5  
**Lab Code:** K1210734-001  
**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	11/01/12	11/01/12	KWG1213040	
Dibromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Chlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Ethylbenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
m,p-Xylenes	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
o-Xylene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Styrene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromoform	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,2,3-Trichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,4-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	11/01/12	Acceptable
Toluene-d8	92	65-144	11/01/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-9  
**Lab Code:** K1210734-002  
**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	11/01/12	11/01/12	KWG1213040	
Chloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Chloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichlorofluoromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Acetone	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Iodomethane	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
Carbon Disulfide	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Methylene Chloride	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Acrylonitrile	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Acetate	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
2-Butanone (MEK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Bromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroform	<b>0.99</b>		0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Carbon Tetrachloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Benzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichloroethene (TCE)	<b>1.6</b>		0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Dibromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromodichloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Toluene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,2-Trichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Tetrachloroethene (PCE)	<b>0.62</b>		0.50	1	11/01/12	11/01/12	KWG1213040	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-9  
**Lab Code:** K1210734-002  
**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	11/01/12	11/01/12	KWG1213040	
Dibromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Chlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Ethylbenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
m,p-Xylenes	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
o-Xylene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Styrene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromoform	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,2,3-Trichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,4-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/01/12	Acceptable
Toluene-d8	92	65-144	11/01/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-10  
**Lab Code:** K1210734-003  
**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	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Chloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichlorofluoromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Acetone	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Iodomethane	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
Carbon Disulfide	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Methylene Chloride	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Acrylonitrile	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Acetate	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
2-Butanone (MEK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Bromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroform	<b>2.0</b>		0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Carbon Tetrachloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Benzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichloroethene (TCE)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Dibromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromodichloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Toluene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,2-Trichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Tetrachloroethene (PCE)	<b>0.72</b>		0.50	1	11/01/12	11/01/12	KWG1213040	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-10  
**Lab Code:** K1210734-003  
**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	11/01/12	11/01/12	KWG1213040	
Dibromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Chlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Ethylbenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
m,p-Xylenes	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
o-Xylene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Styrene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromoform	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,2,3-Trichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,4-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/01/12	Acceptable
Toluene-d8	92	65-144	11/01/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-12b  
**Lab Code:** K1210734-004  
**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	11/01/12	11/01/12	KWG1213040	
Chloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Chloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichlorofluoromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Acetone	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Iodomethane	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
Carbon Disulfide	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Methylene Chloride	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Acrylonitrile	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Acetate	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
2-Butanone (MEK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Bromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroform	<b>1.0</b>		0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Carbon Tetrachloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Benzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichloroethene (TCE)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Dibromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromodichloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Toluene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,2-Trichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Tetrachloroethene (PCE)	<b>0.82</b>		0.50	1	11/01/12	11/01/12	KWG1213040	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-12b  
**Lab Code:** K1210734-004  
**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
2-Hexanone	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Dibromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Chlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Ethylbenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
m,p-Xylenes	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
o-Xylene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Styrene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromoform	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,2,3-Trichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,4-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/01/12	Acceptable
Toluene-d8	92	65-144	11/01/12	Acceptable
4-Bromofluorobenzene	94	68-117	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-25  
**Lab Code:** K1210734-005  
**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	11/01/12	11/01/12	KWG1213040	
Chloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Chloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichlorofluoromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Acetone	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Iodomethane	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
Carbon Disulfide	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Methylene Chloride	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Acrylonitrile	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Acetate	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
2-Butanone (MEK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Bromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroform	<b>1.5</b>		0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Carbon Tetrachloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Benzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichloroethene (TCE)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Dibromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromodichloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Toluene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,2-Trichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Tetrachloroethene (PCE)	<b>0.57</b>		0.50	1	11/01/12	11/01/12	KWG1213040	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-25  
**Lab Code:** K1210734-005  
**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
2-Hexanone	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Dibromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Chlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Ethylbenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
m,p-Xylenes	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
o-Xylene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Styrene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromoform	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,2,3-Trichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,4-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/01/12	Acceptable
Toluene-d8	92	65-144	11/01/12	Acceptable
4-Bromofluorobenzene	94	68-117	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-26  
**Lab Code:** K1210734-006  
**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	11/01/12	11/01/12	KWG1213040	
Chloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Chloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichlorofluoromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Acetone	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Iodomethane	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
Carbon Disulfide	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Methylene Chloride	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Acrylonitrile	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Acetate	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
2-Butanone (MEK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Bromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroform	1.2		0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Carbon Tetrachloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Benzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichloroethene (TCE)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Dibromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromodichloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Toluene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,2-Trichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Tetrachloroethene (PCE)	1.3		0.50	1	11/01/12	11/01/12	KWG1213040	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-26  
**Lab Code:** K1210734-006  
**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	11/01/12	11/01/12	KWG1213040	
Dibromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Chlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Ethylbenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
m,p-Xylenes	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
o-Xylene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Styrene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromoform	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,2,3-Trichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,4-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/01/12	Acceptable
Toluene-d8	91	65-144	11/01/12	Acceptable
4-Bromofluorobenzene	90	68-117	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-16  
**Lab Code:** K1210734-007  
**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	0.50		0.50	1	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	0.68		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	0.59		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	0.68		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-16  
**Lab Code:** K1210734-007  
**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
2-Hexanone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/02/12	Acceptable
Toluene-d8	93	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-18  
**Lab Code:** K1210734-008  
**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	<b>0.54</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	<b>0.96</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	<b>0.65</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	<b>1.2</b>		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-18  
**Lab Code:** K1210734-008  
**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	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/02/12	Acceptable
Toluene-d8	92	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-17  
**Lab Code:** K1210734-009  
**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	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	<b>0.72</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	<b>0.66</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	<b>0.70</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	<b>2.5</b>		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-17  
**Lab Code:** K1210734-009  
**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	1	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/02/12	Acceptable
Toluene-d8	93	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-24  
**Lab Code:** K1210734-010  
**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	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	<b>0.71</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	<b>0.77</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	<b>1.2</b>		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-24  
**Lab Code:** K1210734-010  
**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	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/02/12	Acceptable
Toluene-d8	92	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-23  
**Lab Code:** K1210734-011  
**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	<b>0.78</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	<b>0.66</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	<b>0.73</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	<b>1.2</b>		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-23  
**Lab Code:** K1210734-011  
**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	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/02/12	Acceptable
Toluene-d8	92	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** D2-7  
**Lab Code:** K1210734-012  
**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	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	<b>0.59</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	<b>0.51</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	<b>1.1</b>		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** D2-7  
**Lab Code:** K1210734-012  
**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	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/02/12	Acceptable
Toluene-d8	92	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	94	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-27  
**Lab Code:** K1210734-013  
**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	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	<b>0.61</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	<b>0.53</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	<b>1.0</b>		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-27  
**Lab Code:** K1210734-013  
**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	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/02/12	Acceptable
Toluene-d8	93	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-20  
**Lab Code:** K1210734-014  
**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	<b>0.55</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	<b>0.73</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	<b>0.59</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	<b>0.63</b>		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	<b>1.2</b>		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-20  
**Lab Code:** K1210734-014  
**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	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/02/12	Acceptable
Toluene-d8	92	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/23/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-11  
**Lab Code:** K1210734-015  
**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	0.51		0.50	1	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	1.4		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	1.2		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/23/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-11  
**Lab Code:** K1210734-015  
**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	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/02/12	Acceptable
Toluene-d8	91	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/23/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW14b  
**Lab Code:** K1210734-016  
**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	0.61		0.50	1	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	1.1		0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	0.92		0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/23/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW14b  
**Lab Code:** K1210734-016  
**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	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/02/12	Acceptable
Toluene-d8	94	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/23/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15  
**Lab Code:** K1210734-017  
**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	2.2		0.50	1	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	0.88		0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	4.0		0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	13		0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	2.0		0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	5.7		0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/23/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15  
**Lab Code:** K1210734-017  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/03/12	Acceptable
Toluene-d8	93	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1213040-4  
**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	11/01/12	11/01/12	KWG1213040	
Chloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Chloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichlorofluoromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Acetone	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Iodomethane	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
Carbon Disulfide	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Methylene Chloride	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Acrylonitrile	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1-Dichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Vinyl Acetate	ND	U	5.0	1	11/01/12	11/01/12	KWG1213040	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
2-Butanone (MEK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Bromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Chloroform	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Carbon Tetrachloride	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Benzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Trichloroethene (TCE)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Dibromomethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromodichloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/01/12	11/01/12	KWG1213040	
Toluene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,2-Trichloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1213040-4  
**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	11/01/12	11/01/12	KWG1213040	
Dibromochloromethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	
Chlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Ethylbenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
m,p-Xylenes	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
o-Xylene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Styrene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
Bromoform	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/01/12	11/01/12	KWG1213040	
1,2,3-Trichloropropane	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,4-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dichlorobenzene	ND	U	0.50	1	11/01/12	11/01/12	KWG1213040	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/01/12	11/01/12	KWG1213040	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/01/12	Acceptable
Toluene-d8	92	65-144	11/01/12	Acceptable
4-Bromofluorobenzene	90	68-117	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1213089-6  
**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	11/02/12	11/02/12	KWG1213089	
Chloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Chloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichlorofluoromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Acetone	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Iodomethane	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
Carbon Disulfide	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Methylene Chloride	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Acrylonitrile	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1-Dichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Vinyl Acetate	ND	U	5.0	1	11/02/12	11/02/12	KWG1213089	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
2-Butanone (MEK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Bromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Chloroform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Carbon Tetrachloride	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Benzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Trichloroethene (TCE)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Dibromomethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromodichloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/02/12	11/02/12	KWG1213089	
Toluene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,2-Trichloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1213089-6  
**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	11/02/12	11/02/12	KWG1213089	
Dibromochloromethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	
Chlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Ethylbenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
m,p-Xylenes	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
o-Xylene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Styrene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
Bromoform	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/02/12	11/02/12	KWG1213089	
1,2,3-Trichloropropane	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,4-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dichlorobenzene	ND	U	0.50	1	11/02/12	11/02/12	KWG1213089	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/02/12	11/02/12	KWG1213089	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/02/12	Acceptable
Toluene-d8	92	65-144	11/02/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1213143-4  
**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	11/03/12	11/03/12	KWG1213143	
Chloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Chloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichlorofluoromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Acetone	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Iodomethane	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
Carbon Disulfide	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Methylene Chloride	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Acrylonitrile	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1-Dichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Vinyl Acetate	ND	U	5.0	1	11/03/12	11/03/12	KWG1213143	*
cis-1,2-Dichloroethene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
2-Butanone (MEK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Bromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Chloroform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Carbon Tetrachloride	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Benzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Trichloroethene (TCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Dibromomethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromodichloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/03/12	11/03/12	KWG1213143	
Toluene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,2-Trichloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1213143-4  
**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	11/03/12	11/03/12	KWG1213143	
Dibromochloromethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	
Chlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Ethylbenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
m,p-Xylenes	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
o-Xylene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Styrene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
Bromoform	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/03/12	11/03/12	KWG1213143	
1,2,3-Trichloropropane	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,4-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dichlorobenzene	ND	U	0.50	1	11/03/12	11/03/12	KWG1213143	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/03/12	11/03/12	KWG1213143	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/03/12	Acceptable
Toluene-d8	91	65-144	11/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/03/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734

**Surrogate Recovery Summary  
 Volatile Organic Compounds**

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

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-5	K1210734-001	95	92	91
MW-9	K1210734-002	96	92	93
MW-10	K1210734-003	99	92	91
MW-12b	K1210734-004	97	92	94
MW-25	K1210734-005	97	92	94
MW-26	K1210734-006	98	91	90
MW-16	K1210734-007	97	93	92
MW-18	K1210734-008	96	92	93
MW-17	K1210734-009	99	93	93
MW-24	K1210734-010	97	92	93
MW-23	K1210734-011	96	92	91
D2-7	K1210734-012	96	92	94
MW-27	K1210734-013	97	93	93
MW-20	K1210734-014	96	92	92
MW-11	K1210734-015	97	91	93
MW14b	K1210734-016	96	94	92
MW-15	K1210734-017	97	93	91
Method Blank	KWG1213040-4	96	92	90
Method Blank	KWG1213089-6	96	92	92
Method Blank	KWG1213143-4	98	91	92
MW-17MS	KWG1213089-1	99	96	96
MW-17DMS	KWG1213089-2	95	94	95
Lab Control Sample	KWG1213040-3	97	96	96
Lab Control Sample	KWG1213089-5	99	96	98
Lab Control Sample	KWG1213143-3	97	95	98

**Surrogate Recovery Control Limits (%)**

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

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Extracted:** 11/01/2012  
**Date Analyzed:** 11/01/2012 -  
 11/02/2012

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

**Sample Name:** MW-17  
**Lab Code:** K1210734-009  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213089

Analyte Name	Sample Result	MW-17MS KWG1213089-1 Matrix Spike			MW-17DMS KWG1213089-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	10.8	10.0	108	10.2	10.0	102	49-136	6	30
1,1-Dichloroethene	ND	13.8	10.0	138	13.1	10.0	131	59-171	6	30
Chloroform	0.66	12.7	10.0	121	12.0	10.0	113	64-133	6	30
Carbon Tetrachloride	ND	11.8	10.0	118	11.1	10.0	111	53-161	6	30
Benzene	ND	11.2	10.0	112	10.6	10.0	106	63-144	6	30
Trichloroethene (TCE)	0.70	12.1	10.0	114	11.4	10.0	107	53-139	6	30
Bromodichloromethane	ND	11.6	10.0	116	11.1	10.0	111	61-134	4	30
Toluene	ND	11.5	10.0	115	10.8	10.0	108	71-136	7	30
1,1,2-Trichloroethane	ND	12.1	10.0	121	11.9	10.0	119	74-124	2	30
2-Hexanone	ND	59.8	50.0	120	58.4	50.0	117	53-132	2	30
Chlorobenzene	ND	11.5	10.0	115	10.9	10.0	109	69-126	6	30
Ethylbenzene	ND	11.2	10.0	112	10.6	10.0	106	66-136	6	30
1,2,3-Trichloropropane	ND	12.1	10.0	121	12.0	10.0	120	71-127	1	30
1,2-Dichlorobenzene	ND	11.5	10.0	115	11.1	10.0	111	72-119	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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Extracted:** 11/01/2012  
**Date Analyzed:** 11/01/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213040

Lab Control Sample  
 KWG1213040-3  
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	10.1	10.0	101	32-124
Chloromethane	10.5	10.0	105	34-130
Vinyl Chloride	9.40	10.0	94	55-123
Bromomethane	10.3	10.0	103	35-113
Chloroethane	9.93	10.0	99	58-134
Trichlorofluoromethane	9.46	10.0	95	52-141
1,1-Dichloroethene	12.3	10.0	123	66-129
Acetone	55.0	50.0	110	68-135
Iodomethane	37.9	30.0	126	51-164
Carbon Disulfide	19.9	20.0	99	46-144
Methylene Chloride	10.2	10.0	102	71-122
Acrylonitrile	41.0	40.0	103	65-129
trans-1,2-Dichloroethene	10.9	10.0	109	67-125
1,1-Dichloroethane	10.4	10.0	104	68-132
Vinyl Acetate	45.2	50.0	90	44-156
cis-1,2-Dichloroethene	10.5	10.0	105	71-118
2-Butanone (MEK)	51.1	50.0	102	71-149
Bromochloromethane	10.5	10.0	105	75-131
Chloroform	11.1	10.0	111	70-129
1,1,1-Trichloroethane (TCA)	11.0	10.0	110	59-136
Carbon Tetrachloride	10.4	10.0	104	55-140
Benzene	10.1	10.0	101	69-124
1,2-Dichloroethane (EDC)	10.9	10.0	109	56-142
Trichloroethene (TCE)	10.6	10.0	106	67-128
1,2-Dichloropropane	10.2	10.0	102	67-126
Dibromomethane	10.4	10.0	104	69-128
Bromodichloromethane	10.8	10.0	108	63-129
cis-1,3-Dichloropropene	10.5	10.0	105	62-132
4-Methyl-2-pentanone (MIBK)	51.4	50.0	103	64-134
Toluene	10.3	10.0	103	69-124
trans-1,3-Dichloropropene	10.1	10.0	101	59-125
1,1,2-Trichloroethane	11.0	10.0	110	74-118
Tetrachloroethene (PCE)	10.8	10.0	108	62-126
2-Hexanone	53.7	50.0	107	59-131
Dibromochloromethane	10.4	10.0	104	67-126

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Extracted:** 11/01/2012  
**Date Analyzed:** 11/01/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213040

Lab Control Sample  
 KWG1213040-3  
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	10.6	10.0	106	74-118
Chlorobenzene	10.8	10.0	108	72-116
Ethylbenzene	10.4	10.0	104	67-121
1,1,1,2-Tetrachloroethane	11.0	10.0	110	66-124
m,p-Xylenes	21.7	20.0	108	69-121
o-Xylene	10.5	10.0	105	71-119
Styrene	10.6	10.0	106	74-121
Bromoform	10.4	10.0	104	52-144
cis-1,4-Dichloro-2-butene	31.2	30.0	104	26-171
1,1,2,2-Tetrachloroethane	9.96	10.0	100	70-127
trans-1,4-Dichloro-2-butene	27.5	30.0	92	46-170
1,2,3-Trichloropropane	10.7	10.0	107	69-123
1,4-Dichlorobenzene	10.7	10.0	107	73-115
1,2-Dichlorobenzene	10.7	10.0	107	72-115
1,2-Dibromo-3-chloropropane	10.1	10.0	101	55-132

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Extracted:** 11/01/2012  
**Date Analyzed:** 11/01/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213089

Lab Control Sample  
 KWG1213089-5  
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	9.91	10.0	99	32-124
Chloromethane	9.67	10.0	97	34-130
Vinyl Chloride	9.36	10.0	94	55-123
Bromomethane	10.2	10.0	102	35-113
Chloroethane	9.95	10.0	100	58-134
Trichlorofluoromethane	9.26	10.0	93	52-141
1,1-Dichloroethene	12.3	10.0	123	66-129
Acetone	63.7	50.0	127	68-135
Iodomethane	35.5	30.0	118	51-164
Carbon Disulfide	19.3	20.0	97	46-144
Methylene Chloride	9.86	10.0	99	71-122
Acrylonitrile	48.0	40.0	120	65-129
trans-1,2-Dichloroethene	10.6	10.0	106	67-125
1,1-Dichloroethane	10.4	10.0	104	68-132
Vinyl Acetate	43.1	50.0	86	44-156
cis-1,2-Dichloroethene	10.2	10.0	102	71-118
2-Butanone (MEK)	59.1	50.0	118	71-149
Bromochloromethane	11.0	10.0	110	75-131
Chloroform	11.1	10.0	111	70-129
1,1,1-Trichloroethane (TCA)	10.6	10.0	106	59-136
Carbon Tetrachloride	10.5	10.0	105	55-140
Benzene	9.97	10.0	100	69-124
1,2-Dichloroethane (EDC)	11.2	10.0	112	56-142
Trichloroethene (TCE)	10.6	10.0	106	67-128
1,2-Dichloropropane	10.2	10.0	102	67-126
Dibromomethane	11.0	10.0	110	69-128
Bromodichloromethane	10.9	10.0	109	63-129
cis-1,3-Dichloropropene	10.1	10.0	101	62-132
4-Methyl-2-pentanone (MIBK)	56.5	50.0	113	64-134
Toluene	10.2	10.0	102	69-124
trans-1,3-Dichloropropene	9.91	10.0	99	59-125
1,1,2-Trichloroethane	11.5	10.0	115	74-118
Tetrachloroethene (PCE)	10.3	10.0	103	62-126
2-Hexanone	58.2	50.0	116	59-131
Dibromochloromethane	10.9	10.0	109	67-126

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Extracted:** 11/01/2012  
**Date Analyzed:** 11/01/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213089

Lab Control Sample  
 KWG1213089-5  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	11.1	10.0	111	74-118
Chlorobenzene	10.4	10.0	104	72-116
Ethylbenzene	10.1	10.0	101	67-121
1,1,1,2-Tetrachloroethane	10.7	10.0	107	66-124
m,p-Xylenes	21.0	20.0	105	69-121
o-Xylene	10.3	10.0	103	71-119
Styrene	10.4	10.0	104	74-121
Bromoform	10.9	10.0	109	52-144
cis-1,4-Dichloro-2-butene	33.3	30.0	111	26-171
1,1,2,2-Tetrachloroethane	10.7	10.0	107	70-127
trans-1,4-Dichloro-2-butene	29.2	30.0	97	46-170
1,2,3-Trichloropropane	11.3	10.0	113	69-123
1,4-Dichlorobenzene	10.1	10.0	101	73-115
1,2-Dichlorobenzene	10.2	10.0	102	72-115
1,2-Dibromo-3-chloropropane	10.9	10.0	109	55-132

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Extracted:** 11/03/2012  
**Date Analyzed:** 11/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213143

Lab Control Sample  
 KWG1213143-3  
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	8.92	10.0	89	32-124
Chloromethane	9.16	10.0	92	34-130
Vinyl Chloride	8.78	10.0	88	55-123
Bromomethane	8.98	10.0	90	35-113
Chloroethane	9.48	10.0	95	58-134
Trichlorofluoromethane	8.68	10.0	87	52-141
1,1-Dichloroethene	11.8	10.0	118	66-129
Acetone	62.4	50.0	125	68-135
Iodomethane	27.2	30.0	91	51-164
Carbon Disulfide	18.4	20.0	92	46-144
Methylene Chloride	9.94	10.0	99	71-122
Acrylonitrile	45.5	40.0	114	65-129
trans-1,2-Dichloroethene	10.1	10.0	101	67-125
1,1-Dichloroethane	9.89	10.0	99	68-132
Vinyl Acetate	23.2	50.0	46	44-156
cis-1,2-Dichloroethene	9.82	10.0	98	71-118
2-Butanone (MEK)	60.0	50.0	120	71-149
Bromochloromethane	10.3	10.0	103	75-131
Chloroform	10.5	10.0	105	70-129
1,1,1-Trichloroethane (TCA)	10.2	10.0	102	59-136
Carbon Tetrachloride	9.77	10.0	98	55-140
Benzene	9.56	10.0	96	69-124
1,2-Dichloroethane (EDC)	10.6	10.0	106	56-142
Trichloroethene (TCE)	10.8	10.0	108	67-128
1,2-Dichloropropane	9.66	10.0	97	67-126
Dibromomethane	10.3	10.0	103	69-128
Bromodichloromethane	10.3	10.0	103	63-129
cis-1,3-Dichloropropene	9.76	10.0	98	62-132
4-Methyl-2-pentanone (MIBK)	55.9	50.0	112	64-134
Toluene	9.90	10.0	99	69-124
trans-1,3-Dichloropropene	9.30	10.0	93	59-125
1,1,2-Trichloroethane	10.7	10.0	107	74-118
Tetrachloroethene (PCE)	9.86	10.0	99	62-126
2-Hexanone	57.7	50.0	115	59-131
Dibromochloromethane	10.4	10.0	104	67-126

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Extracted:** 11/03/2012  
**Date Analyzed:** 11/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213143

Lab Control Sample  
 KWG1213143-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	10.8	10.0	108	74-118
Chlorobenzene	10.1	10.0	101	72-116
Ethylbenzene	9.48	10.0	95	67-121
1,1,1,2-Tetrachloroethane	10.2	10.0	102	66-124
m,p-Xylenes	20.1	20.0	101	69-121
o-Xylene	9.63	10.0	96	71-119
Styrene	9.75	10.0	98	74-121
Bromoform	10.2	10.0	102	52-144
cis-1,4-Dichloro-2-butene	30.4	30.0	101	26-171
1,1,2,2-Tetrachloroethane	9.68	10.0	97	70-127
trans-1,4-Dichloro-2-butene	27.2	30.0	91	46-170
1,2,3-Trichloropropane	11.3	10.0	113	69-123
1,4-Dichlorobenzene	9.99	10.0	100	73-115
1,2-Dichlorobenzene	10.1	10.0	101	72-115
1,2-Dibromo-3-chloropropane	10.3	10.0	103	55-132

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-5  
**Lab Code:** K1210734-001  
**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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	115	77-123	11/01/12	Acceptable
Toluene-d8	108	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-9 **Units:** ng/L  
**Lab Code:** K1210734-002 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	116	77-123	11/01/12	Acceptable
Toluene-d8	106	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-10 **Units:** ng/L  
**Lab Code:** K1210734-003 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	119	77-123	11/01/12	Acceptable
Toluene-d8	105	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-12b **Units:** ng/L  
**Lab Code:** K1210734-004 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	11/01/12	Acceptable
Toluene-d8	104	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-25 **Units:** ng/L  
**Lab Code:** K1210734-005 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	11/01/12	Acceptable
Toluene-d8	104	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-26  
**Lab Code:** K1210734-006  
**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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	11/01/12	Acceptable
Toluene-d8	103	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	75	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-16 **Units:** ng/L  
**Lab Code:** K1210734-007 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	123	77-123	11/01/12	Acceptable
Toluene-d8	103	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-18 **Units:** ng/L  
**Lab Code:** K1210734-008 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	123	77-123	11/01/12	Acceptable
Toluene-d8	102	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	75	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-17 **Units:** ng/L  
**Lab Code:** K1210734-009 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	123	77-123	11/01/12	Acceptable
Toluene-d8	102	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-24 **Units:** ng/L  
**Lab Code:** K1210734-010 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	124	77-123	11/01/12	Outside Control Limits
Toluene-d8	102	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-23  
**Lab Code:** K1210734-011  
**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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	125	77-123	11/01/12	Outside Control Limits
Toluene-d8	102	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	75	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** D2-7 **Units:** ng/L  
**Lab Code:** K1210734-012 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	125	77-123	11/01/12	Outside Control Limits
Toluene-d8	102	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-27 **Units:** ng/L  
**Lab Code:** K1210734-013 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	126	77-123	11/01/12	Outside Control Limits
Toluene-d8	102	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	75	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/22/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-20 **Units:** ng/L  
**Lab Code:** K1210734-014 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	126	77-123	11/01/12	Outside Control Limits
Toluene-d8	102	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	75	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/23/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-11 **Units:** ng/L  
**Lab Code:** K1210734-015 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	127	77-123	11/01/12	Outside Control Limits
Toluene-d8	101	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	75	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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:** K1210734  
**Date Collected:** 10/23/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW14b **Units:** ng/L  
**Lab Code:** K1210734-016 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	126	77-123	11/01/12	Outside Control Limits
Toluene-d8	100	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	75	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Collected:** 10/23/2012  
**Date Received:** 10/24/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15 **Units:** ng/L  
**Lab Code:** K1210734-017 **Basis:** NA  
**Extraction Method:** EPA 5030B **Level:** Low  
**Analysis Method:** 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	1100		20	1	11/02/12	11/02/12	KWG1213088	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	118	77-123	11/02/12	Acceptable
Toluene-d8	95	74-112	11/02/12	Acceptable
4-Bromofluorobenzene	72	46-118	11/02/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank **Units:** ng/L  
**Lab Code:** KWG1213058-4 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/01/12	11/01/12	KWG1213058	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	77-123	11/01/12	Acceptable
Toluene-d8	109	74-112	11/01/12	Acceptable
4-Bromofluorobenzene	76	46-118	11/01/12	Acceptable

**Comments:** \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank **Units:** ng/L  
**Lab Code:** KWG1213088-4 **Basis:** NA  
**Extraction Method:** EPA 5030B **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	11/02/12	11/02/12	KWG1213088	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	11/02/12	Acceptable
Toluene-d8	95	74-112	11/02/12	Acceptable
4-Bromofluorobenzene	74	46-118	11/02/12	Acceptable

**Comments:** \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734

**Surrogate Recovery Summary  
 Volatile Organic Compounds**

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

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-5	K1210734-001	115	108	76
MW-9	K1210734-002	116	106	76
MW-10	K1210734-003	119	105	76
MW-12b	K1210734-004	120	104	76
MW-25	K1210734-005	121	104	76
MW-26	K1210734-006	121	103	75
MW-16	K1210734-007	123	103	76
MW-18	K1210734-008	123	102	75
MW-17	K1210734-009	123	102	76
MW-24	K1210734-010	124	* 102	76
MW-23	K1210734-011	125	* 102	75
D2-7	K1210734-012	125	* 102	76
MW-27	K1210734-013	126	* 102	75
MW-20	K1210734-014	126	* 102	75
MW-11	K1210734-015	127	* 101	75
MW14b	K1210734-016	126	* 100	75
MW-15	K1210734-017	118	95	72
Method Blank	KWG1213058-4	112	109	76
Method Blank	KWG1213088-4	114	95	74
MW-17MS	KWG1213058-1	107	115	* 102
MW-17DMS	KWG1213058-2	108	115	* 102
Lab Control Sample	KWG1213058-3	108	115	* 103
Lab Control Sample	KWG1213088-3	107	101	105

**Surrogate Recovery Control Limits (%)**

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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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Extracted:** 11/01/2012  
**Date Analyzed:** 11/01/2012

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

**Sample Name:** MW-17  
**Lab Code:** K1210734-009  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C SIM

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213058

Analyte Name	Sample Result	MW-17MS KWG1213058-1 Matrix Spike			MW-17DMS KWG1213058-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	1960	2000	98	1860	2000	93	70-130	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.

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Extracted:** 11/01/2012  
**Date Analyzed:** 11/01/2012

**Lab Control Spike Summary**  
**Volatile Organic Compounds**

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

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213058

Lab Control Sample  
KWG1213058-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	1970	2000	99	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.

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

**Client:** Schwyn Environmental Services  
**Project:** City of Walla Walla Sudbury Road Landfill Remedial  
**Sample Matrix:** Water

**Service Request:** K1210734  
**Date Extracted:** 11/02/2012  
**Date Analyzed:** 11/02/2012

**Lab Control Spike Summary**  
**Volatile Organic Compounds**

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

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1213088

Lab Control Sample  
KWG1213088-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2090	2000	105	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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

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**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services  
**Project Name:** City of Walla Walla Sudbury Road Landfill Remedial  
**Project No.:**

**Service Request:** K1210734

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<u>Sample Name:</u>	<u>Lab Code:</u>
MW-12b	K1210734-004DISS
MW-25	K1210734-005DISS
MW-26	K1210734-006DISS
MW-16	K1210734-007DISS
MW-18	K1210734-008DISS
MW-17	K1210734-009DISS
MW-17D	K1210734-009DISSD
MW-17S	K1210734-009DISSS
MW-24	K1210734-010DISS
MW-23	K1210734-011DISS
D2-7	K1210734-012DISS
MW-27	K1210734-013DISS
MW-20	K1210734-014DISS
MW-11	K1210734-015DISS
MW14b	K1210734-016DISS
MW-15	K1210734-017DISS
Method Blank	K1210734-MB

**Comments:**

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-12b      **Lab Code:** K1210734-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	103000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	46600		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7660		
Sodium	6010C	200	1.0	10/31/12	11/01/12	28600		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-25

**Lab Code:** K1210734-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	76000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	28500		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	21.0		
Potassium	6010C	400	1.0	10/31/12	11/01/12	7560		
Sodium	6010C	200	1.0	10/31/12	11/01/12	31700		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-26

**Lab Code:** K1210734-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	98900		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	40400		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	8420		
Sodium	6010C	200	1.0	10/31/12	11/01/12	34000		

Comments:



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-16

**Lab Code:** K1210734-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	113000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	49000		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7250		
Sodium	6010C	200	1.0	10/31/12	11/01/12	20900		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-18      **Lab Code:** K1210734-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	120000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	53200		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	8470		
Sodium	6010C	200	1.0	10/31/12	11/01/12	29500		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-17      **Lab Code:** K1210734-009DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	111000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	48500		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	8.70		
Potassium	6010C	400	1.0	10/31/12	11/01/12	8070		
Sodium	6010C	200	1.0	10/31/12	11/01/12	29600		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-24      **Lab Code:** K1210734-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	96600		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	42900		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.60		
Potassium	6010C	400	1.0	10/31/12	11/01/12	7590		
Sodium	6010C	200	1.0	10/31/12	11/01/12	25400		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-23

**Lab Code:** K1210734-011DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	109000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	46600		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7820		
Sodium	6010C	200	1.0	10/31/12	11/01/12	26300		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** D2-7      **Lab Code:** K1210734-012DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	108000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	46600		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7680		
Sodium	6010C	200	1.0	10/31/12	11/01/12	26600		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-27      **Lab Code:** K1210734-013DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	109000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	47200		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7720		
Sodium	6010C	200	1.0	10/31/12	11/01/12	27000		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/22/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-20      **Lab Code:** K1210734-014DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	123000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	52900		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	7.80		
Potassium	6010C	400	1.0	10/31/12	11/01/12	8140		
Sodium	6010C	200	1.0	10/31/12	11/01/12	27300		

Comments:



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/23/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-11      **Lab Code:** K1210734-015DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	87400		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	34700		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7890		
Sodium	6010C	200	1.0	10/31/12	11/01/12	36100		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/23/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW14b      **Lab Code:** K1210734-016DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	119000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	49600		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	7620		
Sodium	6010C	200	1.0	10/31/12	11/01/12	17700		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:** 10/23/12  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:** 10/24/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-15      **Lab Code:** K1210734-017DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	157000		
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	49900		
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	52.3		
Potassium	6010C	400	1.0	10/31/12	11/01/12	8660		
Sodium	6010C	200	1.0	10/31/12	11/01/12	66500		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Date Collected:**  
**Project Name:** City of Walla Walla Sudbury Roa      **Date Received:**  
**Matrix:** WATER      **Units:** ug/L  
   **Basis:** NA

**Sample Name:** Method Blank      **Lab Code:** K1210734-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	10/31/12	11/01/12	50.0	U	
Iron	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Magnesium	6010C	20.0	1.0	10/31/12	11/01/12	20.0	U	
Manganese	6010C	5.00	1.0	10/31/12	11/01/12	5.00	U	
Potassium	6010C	400	1.0	10/31/12	11/01/12	400	U	
Sodium	6010C	200	1.0	10/31/12	11/01/12	200	U	

Comments:

**Metals**  
 - 5A -  
**SPIKE SAMPLE RECOVERY**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Units:** UG/L  
**Project Name:** City of Walla Walla Sudbury Roa      **Basis:** NA  
**Matrix:** WATER

**Sample Name:** MW-17S

**Lab Code:** K1210734-009DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Calcium		117000		111000		10000.00	60.0		6010C
Iron	75 - 125	967		20.0	U	1000.00	96.7		6010C
Magnesium		57000		48500		10000.00	85.0		6010C
Manganese	84 - 121	485		8.70		500.00	95.3		6010C
Potassium	75 - 125	18400		8070		10000.00	103.3		6010C
Sodium	75 - 125	39000		29600		10000.00	94.0		6010C

An empty field in the Control Limit column indicates the control limit is not applicable

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

**Metals**

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**DUPLICATES**

**Client:** Schwyn Environmental Services      **Service Request:** K1210734  
**Project No.:** NA      **Units:** UG/L  
**Project Name:** City of Walla Walla Sudbury Roa      **Basis:** NA  
**Matrix:** WATER

**Sample Name:** MW-17D

**Lab Code:** K1210734-009DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	111000		108000		2.7		6010C
Iron		20.0	U	20.0	U			6010C
Magnesium	20	48500		47700		1.7		6010C
Manganese		8.70		8.40		3.5		6010C
Potassium	20	8070		8030		0.5		6010C
Sodium	20	29600		29200		1.4		6010C

An empty field in the Control Limit column indicates the control limit is not applicable.

**Metals**

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**LABORATORY CONTROL SAMPLE**

**Client:** Schwyn Environmental Services

**Service Request:** K1210734

**Project No.:** NA

**Project Name:** City of Walla Walla Sudbury Roa

**Aqueous LCS Source:** Inorganic Ventures

**Solid LCS Source:**

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Calcium	12500	12400	99.2					
Iron	2500	2390	95.6					
Magnesium	12500	12500	100.0					
Manganese	1250	1220	97.6					
Potassium	12500	12700	101.6					
Sodium	12500	12800	102.4					