



December 31, 2012

Analytical Report for Service Request No: K1211865

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

**RE: City of Walla Walla Sudbury Rd. Landfill**

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on November 28, 2012. For your reference, these analyses have been assigned our service request number K1211865.

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

Page 1 of 130



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Columbia Analytical Services, Inc.

Part of the ALS Group A Campbell Brothers Limited Company

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>	K1211865
<b>Project:</b>	City of Walla Walla Sudbury Road Landfill	<b>Date Received:</b>	11/28/12
<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: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

**Sample Receipt**

Eighteen water samples were received for analysis at ALS Environmental on 11/28/12. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

**General Chemistry Parameters**

**Total Dissolved Solids by Standard Method 2540 C:**

The Relative Percent Difference (RPD) for the replicate analysis of Total Dissolved Solids in sample MW-16 was outside the normal CAS control limits. The RPD between the two LCS's run that day was less than 1%. The sample was past hold so no re-analysis was done.

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

The Relative Percent Difference (RPD) criterion for the replicate analysis of Total Organic Carbon in sample MW-17, MW-20, MW-21S, MW-22S, MW-22D and MW-18 were 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\1130F005.D: Iodomethane. In accordance with the EPA Method 8270D, 80% or more of the CCV analytes must have passed within 20% of the true value. The remaining analytes are allowed a 40% difference as per the CAS SOP. The CCV met these criteria.

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

**Volatile Organic Compounds by EPA Method 8260 (Cont.)**

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) MS18\1130F005.D: Bromomethane and Iodomethane. In accordance with the EPA Method 8270D, 80% or more of the CCV analytes must have passed within 20% of the true value. The remaining analytes are allowed a 40% difference as per the CAS SOP. The CCV met these criteria.

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

**Volatile Organic Compounds by EPA Method 8260-SIM**

**Surrogate Exceptions:**

The recovery of Dibromofluoromethane in samples MW-24, MW-23, MW-27, MW-3 and MW-25 was outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

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

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

Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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

K1211865

1 of 3 coolers

SR# \_\_\_\_\_

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.D)] [TDS (SM 2540C)]	Dissolved Metals (see below)	MS/MSD	REMARKS
Sample I.D.	Date	Time	LAB ID	Matrix								
MW-17	11/26/12	12:30			X	X	X					
MW-19		1300			20	X	X	X		X		
MW-20		1345				X	X	X				
MW-21S		1550				X	X	X				
MW-21D		1615				X	X	X				
MW-22S		1430				X	X	X				
MW-22D		1500				X	X	X				
MW-18		1700				X	X	X				
D18		1700				X	X	X				
MW-26	11/27/12	930				X	X	X				
MW-24		815				X	X	X				
MW-23		830				X	X	X				

**Short Hold Time**

<b>URNAROUND 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, Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C 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
<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>11/27/12 1400</u>	<b>RECEIVED BY:</b> Signature: <u>[Signature]</u> Printed Name: <u>SWOLF</u> Firm: <u>ALS</u> Date/Time: <u>11/28/12 1000</u>	<b>RELINQUISHED BY:</b> Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	<b>RECEIVED BY:</b> Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____
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Columbia Analytical Services

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K1211865

SR# K1211865  
PAGE 2 OF 2

Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation					Number of Containers	Analysis Requested									
Project Manager: Craig Schwyn						VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Ca, Chloride, Nitrate, Sulfate (Method 300.0)]	[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
Sample I.D.	Date	Time	LAB ID	Matrix											
MW-27	11/27/12	920				X	X	X							
MW-3		1000				X	X	X							
MW-15D		1040				X	X	X							
MW-16		1120				X	X	X							
MW-25		1200				X	X	X							
TB						X	X								

**URNAROUND REQUIREMENTS**  
 24 hr  48 hr  5 day  
 Standard (21 days)  
 Provide FAX Preliminary Results  
 Requested Report Date:

**REPORT REQUIREMENTS**  
 I. Routine Report: Results, Method Blank, Surrogate, as required  
 II. Report Dup., MS, MSD as required  
 III. Data Validation Report (includes raw data)  
 IV. CLP Deliverable Report  
 V. EDD

Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C

**Invoice Information**  
 P.O. # \_\_\_\_\_  
 Bill to: Schwyn Environmental Services

**RELINQUISHED BY:**  
 Signature: Craig Schwyn  
 Printed Name: Craig Schwyn  
 Firm: Schwyn Environmental Services  
 Date/Time: 11/27/12 9400

**RECEIVED BY:**  
 Signature: [Signature]  
 Printed Name: [Name]  
 Firm: ALS  
 Date/Time: 11/28/12 1020

**RELINQUISHED BY:**  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Firm: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

**RECEIVED BY:**  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Firm: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_





PC Star

### Cooler Receipt and Preservation Form

Client / Project: Schwinn Service Request K12 11865

Received: 11/28/12 Opened: 11/28/12 By: JW Unloaded: 11/28/12 By: JW

- 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? two, 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
1.7	1.7	—	—	0	319		123399W8231000	0149	
1.1	0.9	broken	→	-0.2	307		123399W8231000	0167	
1.7	1.7	1.6	1.6	0	287		" " " " "	0158	

- 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

SHORT HOLD TIME

Notes, Discrepancies, & Resolutions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12

**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-17	K1211865-001	<b>135</b>	4.0	20	11/28/12 11:10	
MW-19	K1211865-002	<b>130</b>	4.0	20	11/28/12 11:20	
MW-20	K1211865-003	<b>148</b>	4.0	20	11/28/12 11:30	
MW-21S	K1211865-004	<b>139</b>	4.0	20	11/28/12 11:59	
MW-21D	K1211865-005	<b>149</b>	4.0	20	11/28/12 12:09	
MW-22S	K1211865-006	<b>153</b>	4.0	20	11/28/12 12:19	
MW-22D	K1211865-007	<b>152</b>	4.0	20	11/28/12 12:28	
MW-18	K1211865-008	<b>152</b>	4.0	20	11/28/12 12:38	
D18	K1211865-009	<b>151</b>	4.0	20	11/28/12 12:47	
MW-26	K1211865-010	<b>102</b>	4.0	20	11/28/12 12:57	
MW-24	K1211865-011	<b>103</b>	4.0	20	11/28/12 13:07	
MW-23	K1211865-012	<b>121</b>	4.0	20	11/28/12 13:16	
MW-27	K1211865-013	<b>128</b>	4.0	20	11/28/12 13:26	
MW-3	K1211865-014	<b>136</b>	4.0	20	11/28/12 13:56	
MW-15D	K1211865-015	<b>131</b>	4.0	20	11/28/12 14:06	
MW-16	K1211865-016	<b>145</b>	4.0	20	11/28/12 14:15	
MW-25	K1211865-017	<b>66.0</b>	4.0	20	11/28/12 14:25	
Method Blank	K1211865-MB1	ND U	0.20	1	11/28/12 08:23	
Method Blank	K1211865-MB2	ND U	0.20	1	11/28/12 14:34	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12  
**Date Received:** 11/28/12  
**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	K1211865-001DUP	4.0	135	134	135	<1	20	11/28/12
MW-19	K1211865-002DUP	4.0	130	128	129	<1	20	11/28/12

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.

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12  
**Date Received:** 11/28/12  
**Date Analyzed:** 11/28/12

**Duplicate Matrix Spike Summary  
Chloride**

**Sample Name:** MW-17  
**Lab Code:** K1211865-001  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1211865-001MS		Duplicate Matrix Spike K1211865-001DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	135	237	100	102	235	100	100	90-110	<1	20

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12  
**Date Received:** 11/28/12  
**Date Analyzed:** 11/28/12

**Duplicate Matrix Spike Summary  
Chloride**

**Sample Name:** MW-19 **Units:**mg/L  
**Lab Code:** K1211865-002 **Basis:**NA  
**Analysis Method:** 300.0

Analyte Name	Sample Result	Result	Matrix Spike K1211865-002MS		Duplicate Matrix Spike K1211865-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	130	229	100	99	228	100	99	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:**K1211865

**Date Analyzed:**11/28/12

**Lab Control Sample Summary  
Chloride**

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320142

<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	K1211865-LCS1	4.85	5.00	97	90-110
Lab Control Sample	K1211865-LCS2	4.85	5.00	97	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12

**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-17	K1211865-001	<b>11.9</b>	1.0	20	11/28/12 11:10	
MW-19	K1211865-002	<b>11.2</b>	1.0	20	11/28/12 11:20	
MW-20	K1211865-003	<b>12.2</b>	1.0	20	11/28/12 11:30	
MW-21S	K1211865-004	<b>11.8</b>	1.0	20	11/28/12 11:59	
MW-21D	K1211865-005	<b>12.3</b>	1.0	20	11/28/12 12:09	
MW-22S	K1211865-006	<b>10.9</b>	1.0	20	11/28/12 12:19	
MW-22D	K1211865-007	<b>12.1</b>	1.0	20	11/28/12 12:28	
MW-18	K1211865-008	<b>11.2</b>	1.0	20	11/28/12 12:38	
D18	K1211865-009	<b>11.3</b>	1.0	20	11/28/12 12:47	
MW-26	K1211865-010	<b>9.7</b>	1.0	20	11/28/12 12:57	
MW-24	K1211865-011	<b>12.4</b>	1.0	20	11/28/12 13:07	
MW-23	K1211865-012	<b>12.1</b>	1.0	20	11/28/12 13:16	
MW-27	K1211865-013	<b>12.2</b>	1.0	20	11/28/12 13:26	
MW-3	K1211865-014	<b>11.8</b>	1.0	20	11/28/12 13:56	
MW-15D	K1211865-015	<b>12.4</b>	1.0	20	11/28/12 14:06	
MW-16	K1211865-016	<b>10.3</b>	1.0	20	11/28/12 14:15	
MW-25	K1211865-017	<b>11.8</b>	1.0	20	11/28/12 14:25	
Method Blank	K1211865-MB1	ND U	0.050	1	11/28/12 08:23	
Method Blank	K1211865-MB2	ND U	0.050	1	11/28/12 14:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211865

**Date Collected:** 11/26/12

**Date Received:** 11/28/12

**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	K1211865-001DUP	1.0	11.9	11.7	11.8	<1	20	11/28/12
MW-19	K1211865-002DUP	1.0	11.2	11.1	11.1	<1	20	11/28/12

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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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Collected:** 11/26/12  
**Date Received:** 11/28/12  
**Date Analyzed:** 11/28/12

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

**Sample Name:** MW-17  
**Lab Code:** K1211865-001  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1211865-001MS		Duplicate Matrix Spike K1211865-001DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	11.9	112	100	100	112	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Collected:** 11/26/12  
**Date Received:** 11/28/12  
**Date Analyzed:** 11/28/12

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

**Sample Name:** MW-19  
**Lab Code:** K1211865-002  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1211865-002MS		Duplicate Matrix Spike K1211865-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	11.2	112	100	100	112	100	101	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:**K1211865  
**Date Analyzed:**11/28/12

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

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320142

<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	K1211865-LCS1	17.9	17.7	101	90-110
Lab Control Sample	K1211865-LCS2	17.9	17.7	101	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

## Analytical Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12

**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-17	K1211865-001	<b>29.0</b>	2.0	20	11/28/12 11:10	
MW-19	K1211865-002	<b>40.1</b>	2.0	20	11/28/12 11:20	
MW-20	K1211865-003	<b>33.3</b>	2.0	20	11/28/12 11:30	
MW-21S	K1211865-004	<b>32.5</b>	2.0	20	11/28/12 11:59	
MW-21D	K1211865-005	<b>31.2</b>	2.0	20	11/28/12 12:09	
MW-22S	K1211865-006	<b>33.9</b>	2.0	20	11/28/12 12:19	
MW-22D	K1211865-007	<b>32.5</b>	2.0	20	11/28/12 12:28	
MW-18	K1211865-008	<b>33.5</b>	2.0	20	11/28/12 12:38	
D18	K1211865-009	<b>33.6</b>	2.0	20	11/28/12 12:47	
MW-26	K1211865-010	<b>29.2</b>	2.0	20	11/28/12 12:57	
MW-24	K1211865-011	<b>30.6</b>	2.0	20	11/28/12 13:07	
MW-23	K1211865-012	<b>31.2</b>	2.0	20	11/28/12 13:16	
MW-27	K1211865-013	<b>30.5</b>	2.0	20	11/28/12 13:26	
MW-3	K1211865-014	<b>32.5</b>	2.0	20	11/28/12 13:56	
MW-15D	K1211865-015	<b>30.8</b>	2.0	20	11/28/12 14:06	
MW-16	K1211865-016	<b>35.7</b>	2.0	20	11/28/12 14:15	
MW-25	K1211865-017	<b>25.7</b>	2.0	20	11/28/12 14:25	
Method Blank	K1211865-MB1	ND U	0.10	1	11/28/12 08:23	
Method Blank	K1211865-MB2	ND U	0.10	1	11/28/12 14:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12  
**Date Received:** 11/28/12  
**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	K1211865-001DUP	2.0	29.0	28.9	28.9	<1	20	11/28/12
MW-19	K1211865-002DUP	2.0	40.1	40.3	40.2	<1	20	11/28/12

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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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Collected:** 11/26/12  
**Date Received:** 11/28/12  
**Date Analyzed:** 11/28/12

**Duplicate Matrix Spike Summary  
Sulfate**

**Sample Name:** MW-17 **Units:**mg/L  
**Lab Code:** K1211865-001 **Basis:**NA  
**Analysis Method:** 300.0

Analyte Name	Sample Result	Result	Matrix Spike K1211865-001MS		Duplicate Matrix Spike K1211865-001DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	29.0	131	100	102	131	100	102	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Collected:** 11/26/12  
**Date Received:** 11/28/12  
**Date Analyzed:** 11/28/12

**Duplicate Matrix Spike Summary  
Sulfate**

**Sample Name:** MW-19  
**Lab Code:** K1211865-002  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1211865-002MS		Duplicate Matrix Spike K1211865-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	40.1	145	100	104	143	100	103	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:**K1211865  
**Date Analyzed:**11/28/12

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

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320142

<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	K1211865-LCS1	4.87	5.00	97	90-110
Lab Control Sample	K1211865-LCS2	4.91	5.00	98	90-110



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12

**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-17	K1211865-001	<b>298</b>	9.0	1	11/29/12 07:02	
MW-19	K1211865-002	<b>320</b>	9.0	1	11/29/12 07:02	
MW-20	K1211865-003	<b>311</b>	9.0	1	11/29/12 07:02	
MW-21S	K1211865-004	<b>302</b>	9.0	1	11/29/12 07:02	
MW-21D	K1211865-005	<b>299</b>	9.0	1	11/29/12 07:02	
MW-22S	K1211865-006	<b>308</b>	9.0	1	11/29/12 07:02	
MW-22D	K1211865-007	<b>293</b>	9.0	1	11/29/12 07:02	
MW-18	K1211865-008	<b>312</b>	9.0	1	11/29/12 07:02	
D18	K1211865-009	<b>316</b>	9.0	1	11/29/12 07:02	
MW-26	K1211865-010	<b>307</b>	9.0	1	11/29/12 07:02	
MW-24	K1211865-011	<b>280</b>	9.0	1	11/29/12 07:02	
MW-23	K1211865-012	<b>291</b>	9.0	1	11/29/12 07:02	
MW-27	K1211865-013	<b>286</b>	9.0	1	11/29/12 07:02	
MW-3	K1211865-014	<b>242</b>	9.0	1	11/29/12 07:02	
MW-15D	K1211865-015	<b>283</b>	9.0	1	11/29/12 07:02	
MW-16	K1211865-016	<b>275</b>	9.0	1	11/29/12 07:02	
MW-25	K1211865-017	<b>221</b>	9.0	1	11/30/12 17:28	
Method Blank	K1211865-MB1	ND U	9.0	1	11/29/12 07:02	
Method Blank	K1211865-MB2	ND U	9.0	1	11/29/12 07:02	
Method Blank	K1211865-MB3	ND U	9.0	1	11/30/12 22:19	
Method Blank	K1211865-MB4	ND U	9.0	1	11/30/12 15:56	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12

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

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

<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-19	K1211865-002DUP	9.0	320	368	344	14	20	11/29/12
MW-16	K1211865-016DUP	9.0	275	284	280	3	20	11/29/12

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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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:**K1211865

**Date Analyzed:**11/29/12

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

**Analysis Method:** SM 2320 B

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320470

<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	K1211865-LCS1	117	122	96	90-110
Lab Control Sample	K1211865-LCS2	121	122	99	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1211865

**Date Analyzed:**11/30/12

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

**Analysis Method:** SM 2320 B

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320472

<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	K1211865-LCS3	121	122	99	90-110
Lab Control Sample	K1211865-LCS4	124	122	102	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12

**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-17	K1211865-001	<b>657</b>	10	1	11/29/12 12:00	
MW-19	K1211865-002	<b>760</b>	20	1	11/29/12 12:00	
MW-20	K1211865-003	<b>780</b>	20	1	11/29/12 12:00	
MW-21S	K1211865-004	<b>696</b>	20	1	11/29/12 12:00	
MW-21D	K1211865-005	<b>744</b>	20	1	11/29/12 12:00	
MW-22S	K1211865-006	<b>748</b>	20	1	11/29/12 12:00	
MW-22D	K1211865-007	<b>695</b>	13	1	12/03/12 15:00	
MW-18	K1211865-008	<b>773</b>	13	1	12/03/12 15:00	
D18	K1211865-009	<b>693</b>	13	1	12/03/12 15:00	
MW-26	K1211865-010	<b>661</b>	13	1	12/03/12 15:00	
MW-24	K1211865-011	<b>621</b>	13	1	12/03/12 15:00	
MW-23	K1211865-012	<b>636</b>	13	1	12/03/12 15:00	
MW-27	K1211865-013	<b>725</b>	13	1	12/03/12 15:00	
MW-3	K1211865-014	<b>572</b>	13	1	12/03/12 15:00	
MW-15D	K1211865-015	<b>691</b>	13	1	12/03/12 15:00	
MW-16	K1211865-016	<b>753</b>	13	1	12/03/12 15:00	
MW-25	K1211865-017	<b>484</b>	10	1	12/03/12 15:00	
Method Blank	K1211865-MB1	ND U	5.0	1	11/29/12 12:00	
Method Blank	K1211865-MB2	ND U	5.0	1	12/03/12 15:00	
Method Blank	K1211865-MB3	ND U	5.0	1	12/03/12 15:00	
Method Blank	K1211865-MB4	ND U	5.0	1	12/03/12 15:00	

**COLUMBIA ANALYTICAL SERVICES, INC.**

**Now part of the ALS Group**

QA/QC Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12  
**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-19	K1211865-002DUP	20	760	698	729	9	10	11/29/12
MW-16	K1211865-016DUP	13	753	649	701	15 *	10	12/03/12

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

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1211865

**Date Analyzed:**11/29/12

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

**Analysis Method:** SM 2540 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320430

<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	K1211865-LCS1	1800	1810	99	90-108

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:**K1211865

**Date Analyzed:**12/03/12

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

**Analysis Method:** SM 2540 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320835

<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	K1211865-LCS2	1820	1810	101	90-108
Lab Control Sample	K1211865-LCS3	1840	1810	102	90-108



**COLUMBIA ANALYTICAL SERVICES, INC.**

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## Analytical Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12

**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-17	K1211865-001	ND U	0.050	1	11/30/12 07:00	
MW-19	K1211865-002	ND U	0.050	1	11/30/12 07:00	
MW-20	K1211865-003	ND U	0.050	1	11/30/12 07:00	
MW-21S	K1211865-004	ND U	0.050	1	11/30/12 07:00	
MW-21D	K1211865-005	ND U	0.050	1	11/30/12 07:00	
MW-22S	K1211865-006	ND U	0.050	1	11/30/12 07:00	
MW-22D	K1211865-007	ND U	0.050	1	11/30/12 07:00	
MW-18	K1211865-008	ND U	0.050	1	11/30/12 07:00	
D18	K1211865-009	ND U	0.050	1	11/30/12 07:00	
MW-26	K1211865-010	ND U	0.050	1	11/30/12 07:00	
MW-24	K1211865-011	ND U	0.050	1	11/30/12 07:00	
MW-23	K1211865-012	ND U	0.050	1	11/30/12 07:00	
MW-27	K1211865-013	ND U	0.050	1	11/30/12 07:00	
MW-3	K1211865-014	ND U	0.050	1	11/30/12 07:00	
MW-15D	K1211865-015	ND U	0.050	1	11/30/12 07:00	
MW-16	K1211865-016	ND U	0.050	1	11/30/12 07:00	
MW-25	K1211865-017	ND U	0.050	1	11/30/12 07:00	
Method Blank	K1211865-MB1	ND U	0.050	1	11/30/12 07:00	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. Landfill
Sample Matrix: Water

Service Request: K1211865
Date Collected: 11/26/12
Date Received: 11/28/12
Date Analyzed: 11/30/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-19
Lab Code: K1211865-002

Units: mg/L
Basis: NA

Table with 8 columns: Analyte Name, Analysis Method, MRL, Sample Result, Duplicate Sample Result (K1211865-002DUP), Average, RPD, RPD Limit. Row 1: Ammonia as Nitrogen, SM 4500-NH3 E, 0.050, ND, ND, NC, NC, 20.

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12  
**Date Received:** 11/28/12  
**Date Analyzed:** 11/30/12

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

**Sample Name:** MW-19  
**Lab Code:** K1211865-002  
**Analysis Method:** SM 4500-NH3 E

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

**Matrix Spike**  
K1211865-002MS

<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	9.81	10.0	98	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:**K1211865  
**Date Analyzed:**11/30/12

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

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

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320550

<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	K1211865-LCS1	10.2	10.9	94	80-115

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12

**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-17	K1211865-001	<b>0.79</b>	0.50	1	11/30/12 21:00	
MW-19	K1211865-002	<b>0.66</b>	0.50	1	11/30/12 21:00	
MW-20	K1211865-003	<b>0.83</b>	0.50	1	11/30/12 21:00	
MW-21S	K1211865-004	<b>0.66</b>	0.50	1	11/30/12 21:00	
MW-21D	K1211865-005	<b>0.65</b>	0.50	1	11/30/12 21:00	
MW-22S	K1211865-006	<b>0.65</b>	0.50	1	11/30/12 21:00	
MW-22D	K1211865-007	<b>0.64</b>	0.50	1	11/30/12 21:00	
MW-18	K1211865-008	<b>0.63</b>	0.50	1	11/30/12 21:00	
D18	K1211865-009	<b>0.64</b>	0.50	1	11/30/12 21:00	
MW-26	K1211865-010	<b>0.53</b>	0.50	1	11/30/12 21:00	
MW-24	K1211865-011	<b>0.60</b>	0.50	1	11/30/12 21:00	
MW-23	K1211865-012	<b>0.63</b>	0.50	1	11/30/12 21:00	
MW-27	K1211865-013	<b>0.60</b>	0.50	1	11/30/12 21:00	
MW-3	K1211865-014	ND U	0.50	1	11/30/12 21:00	
MW-15D	K1211865-015	<b>0.55</b>	0.50	1	11/30/12 21:00	
MW-16	K1211865-016	<b>0.61</b>	0.50	1	11/30/12 21:00	
MW-25	K1211865-017	ND U	0.50	1	11/30/12 21:00	
Method Blank	K1211865-MB1	ND U	0.50	1	11/30/12 21:00	
Method Blank	K1211865-MB2	ND U	0.50	1	11/30/12 21:00	
Method Blank	K1211865-MB3	ND U	0.50	1	11/30/12 21:00	

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:** K1211865  
**Date Collected:** 11/26/12 - 11/27/12  
**Date Received:** 11/28/12

**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-17	K1211865-001DUP	0.50	0.79	0.66	0.723	18 *	10	11/30/12
MW-19	K1211865-002DUP	0.50	0.66	0.60	0.631	9	10	11/30/12
MW-20	K1211865-003DUP	0.50	0.83	0.64	0.735	25 *	10	11/30/12
MW-21S	K1211865-004DUP	0.50	0.66	0.59	0.625	12 *	10	11/30/12
MW-21D	K1211865-005DUP	0.50	0.65	0.61	0.631	6	10	11/30/12
MW-22S	K1211865-006DUP	0.50	0.65	0.56	0.608	15 *	10	11/30/12
MW-22D	K1211865-007DUP	0.50	0.64	0.55	0.595	16 *	10	11/30/12
MW-18	K1211865-008DUP	0.50	0.63	0.56	0.597	13 *	10	11/30/12
D18	K1211865-009DUP	0.50	0.64	0.62	0.629	3	10	11/30/12
MW-26	K1211865-010DUP	0.50	0.53	0.52	0.525	1	10	11/30/12
MW-24	K1211865-011DUP	0.50	0.60	0.58	0.590	3	10	11/30/12
MW-23	K1211865-012DUP	0.50	0.63	0.60	0.611	5	10	11/30/12
MW-27	K1211865-013DUP	0.50	0.60	0.57	0.585	6	10	11/30/12
MW-3	K1211865-014DUP	0.50	ND	ND	NC	NC	10	11/30/12
MW-15D	K1211865-015DUP	0.50	0.55	0.53	0.540	3	10	11/30/12
MW-16	K1211865-016DUP	0.50	0.61	ND	NC	NC	10	11/30/12
MW-25	K1211865-017DUP	0.50	ND	ND	NC	NC	10	11/30/12

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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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:**K1211865

**Date Collected:**11/26/12

**Date Received:**11/28/12

**Date Analyzed:**11/30/12

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

**Sample Name:** MW-19  
**Lab Code:** K1211865-002  
**Analysis Method:** SM 5310 C

**Units:**mg/L

**Basis:**NA

**Matrix Spike**  
K1211865-002MS

<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	0.66	25.9	25.0	101	83-117

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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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:**K1211865  
**Date Analyzed:**11/30/12

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

**Analysis Method:** SM 5310 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320582

<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	K1211865-LCS1	22.9	22.7	101	83-117
Lab Control Sample	K1211865-LCS2	22.8	22.7	100	83-117
Lab Control Sample	K1211865-LCS3	22.5	22.7	99	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 Rd. Landfill  
**Project No.:**

**Service Request:** K1211865

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<u>Sample Name:</u>	<u>Lab Code:</u>
<u>MW-17</u>	<u>K1211865-001DISS</u>
<u>MW-19</u>	<u>K1211865-002DISS</u>
<u>MW-19D</u>	<u>K1211865-002DISSD</u>
<u>MW-19S</u>	<u>K1211865-002DISSS</u>
<u>MW-20</u>	<u>K1211865-003DISS</u>
<u>MW-21S</u>	<u>K1211865-004DISS</u>
<u>MW-21D</u>	<u>K1211865-005DISS</u>
<u>MW-22S</u>	<u>K1211865-006DISS</u>
<u>MW-22D</u>	<u>K1211865-007DISS</u>
<u>MW-18</u>	<u>K1211865-008DISS</u>
<u>D18</u>	<u>K1211865-009DISS</u>
<u>MW-26</u>	<u>K1211865-010DISS</u>
<u>MW-24</u>	<u>K1211865-011DISS</u>
<u>MW-23</u>	<u>K1211865-012DISS</u>
<u>MW-27</u>	<u>K1211865-013DISS</u>
<u>MW-3</u>	<u>K1211865-014DISS</u>
<u>MW-15D</u>	<u>K1211865-015DISS</u>
<u>MW-16</u>	<u>K1211865-016DISS</u>
<u>MW-25</u>	<u>K1211865-017DISS</u>
<u>Method Blank</u>	<u>K1211865-MB</u>

**Comments:**

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/26/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-17 Lab Code: K1211865-001DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	85.9		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	112000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	48300		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.5		
Potassium	6010C	400	1.0	12/03/12	12/15/12	7990		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	29100		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	14.2		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/26/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-19 Lab Code: K1211865-002DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	74.4		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	125000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.9		
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	2.2		
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	52800		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	7550		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	21400		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	17.2		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/26/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-20 Lab Code: K1211865-003DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	88.2		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	122000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	52900		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.8		
Potassium	6010C	400	1.0	12/03/12	12/15/12	8120		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	27200		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	15.9		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/26/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-21S Lab Code: K1211865-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	83.5		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	116000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	49200		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	22.9		
Potassium	6010C	400	1.0	12/03/12	12/15/12	7870		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	25500		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	16.3		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	6.7		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/26/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-21D Lab Code: K1211865-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	87.4		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	118000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	53600		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	7800		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	19400		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	16.4		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/26/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-22S Lab Code: K1211865-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	82.1		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.7		
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	122000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	5.1		
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.2		
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	51000		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	8610		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	25900		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	23.6		
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	14.5		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/26/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-22D Lab Code: K1211865-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	91.8		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	118000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	54800		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	11.9		
Potassium	6010C	400	1.0	12/03/12	12/15/12	7660		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	19100		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	15.4		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:



**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/26/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-18 Lab Code: K1211865-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	85.9		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	123000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	54200		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	8490		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	29700		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	17.3		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/26/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: D18 Lab Code: K1211865-009DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	83.9		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	121000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	53200		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	8290		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	29100		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	16.7		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/27/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-26 Lab Code: K1211865-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	83.1		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	103000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	41300		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	8460		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	34400		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	14.0		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/27/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-24 Lab Code: K1211865-011DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	77.9		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	101000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.4		
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	43500		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	7560		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	25400		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	13.5		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/27/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-23 Lab Code: K1211865-012DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	77.2		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	112000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0		
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	48100		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	7880		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	26800		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	14.8		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/27/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-27 Lab Code: K1211865-013DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	73.8		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	110000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	47400		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	7830		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	26800		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	14.8		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/27/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-3 Lab Code: K1211865-014DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	85.8		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	103000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	48500		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	7200		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	17000		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	16.2		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/27/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-15D Lab Code: K1211865-015DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	84.0		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	113000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	50200		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	7640		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	18800		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	16.4		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/27/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-16 Lab Code: K1211865-016DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	92.8		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	115000		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	4.1		
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	48600		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	7260		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	20500		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	20.5		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected: 11/27/2012  
 Project Name: City of Walla Walla Sudbury Rd. Date Received: 11/28/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-25 Lab Code: K1211865-017DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	88.6		
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	75600		
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	28000		
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	14.3		
Potassium	6010C	400	1.0	12/03/12	12/15/12	7390		
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	31000		
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	8.6		
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1211865  
 Project No.: NA Date Collected:  
 Project Name: City of Walla Walla Sudbury Rd. Date Received:  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: Method Blank Lab Code: K1211865-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Barium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Beryllium	6010C	0.2	1.0	12/03/12	12/15/12	0.2	U	
Cadmium	6010C	0.5	1.0	12/03/12	12/15/12	0.5	U	
Calcium	6010C	50.0	1.0	12/03/12	12/15/12	50.0	U	
Chromium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Cobalt	6010C	1.0	1.0	12/03/12	12/15/12	1.0	U	
Copper	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Iron	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Lead	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Manganese	6010C	5.0	1.0	12/03/12	12/15/12	5.0	U	
Potassium	6010C	400	1.0	12/03/12	12/15/12	400	U	
Selenium	6010C	20.0	1.0	12/03/12	12/15/12	20.0	U	
Silver	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Sodium	6010C	200	1.0	12/03/12	12/15/12	200	U	
Thallium	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Tin	6010C	10.0	1.0	12/03/12	12/15/12	10.0	U	
Vanadium	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	
Zinc	6010C	2.0	1.0	12/03/12	12/15/12	2.0	U	

Comments:

**Metals**

- 5A -

**SPIKE SAMPLE RECOVERY**

**Client:** Schwyn Environmental Services      **Service Request:** K1211865  
**Project No.:** NA      **Units:** UG/L  
**Project Name:** City of Walla Walla Sudbury Rd.      **Basis:** NA  
**Matrix:** WATER

**Sample Name:** MW-19S**Lab Code:** K1211865-002DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	86 - 116	458		10.0	U	500.00	91.6		6010C
Arsenic	79 - 121	1040		10.0	U	1000.00	104.0		6010C
Barium	80 - 124	2110		74.4		2000.00	101.8		6010C
Beryllium	87 - 114	47.5		0.2	U	50.00	95.0		6010C
Cadmium	75 - 125	45.5		0.5	U	50.00	91.0		6010C
Calcium		134000		125000		10000.00	90.0		6010C
Chromium	89 - 117	199		2.9		200.00	98.0		6010C
Cobalt	88 - 117	464		2.2		500.00	92.4		6010C
Copper	86 - 113	230		2.0	U	250.00	92.0		6010C
Iron	75 - 125	1000		20.0	U	1000.00	100.0		6010C
Lead	75 - 125	460		10.0	U	500.00	92.0		6010C
Magnesium		62300		52800		10000.00	95.0		6010C
Manganese	84 - 121	470		5.0	U	500.00	94.0		6010C
Potassium	75 - 125	17500		7550		10000.00	99.5		6010C
Selenium	82 - 119	941		20.0	U	1000.00	94.1		6010C
Silver	79 - 120	47.9		2.0	U	50.00	95.8		6010C
Sodium	75 - 125	31200		21400		10000.00	98.0		6010C
Thallium	75 - 125	951		10.0	U	1000.00	95.1		6010C
Tin	75 - 125	9680		10.0	U	10000.00	96.8		6010C
Vanadium	89 - 115	514		17.2		500.00	99.4		6010C
Zinc	87 - 113	456		2.0	U	500.00	91.2		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: K1211865

Project No.: NA

Units: UG/L

Project Name: City of Walla Walla Sudbury Rd.

Basis: NA

Matrix: WATER

Sample Name: MW-19D

Lab Code: K1211865-002DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		10.0	U	10.0	U			6010C
Arsenic		10.0	U	10.0	U			6010C
Barium	20	74.4		73.2		1.6		6010C
Beryllium		0.2	U	0.2	U			6010C
Cadmium		0.5	U	0.5	U			6010C
Calcium	20	125000		123000		1.6		6010C
Chromium		2.9		3.1		6.7		6010C
Cobalt		2.2		2.0		9.5		6010C
Copper		2.0	U	2.0	U			6010C
Iron		20.0	U	20.0	U			6010C
Lead		10.0	U	10.0	U			6010C
Magnesium	20	52800		51600		2.3		6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	7550		7450		1.3		6010C
Selenium		20.0	U	20.0	U			6010C
Silver		2.0	U	2.0	U			6010C
Sodium	20	21400		21000		1.9		6010C
Thallium		10.0	U	10.0	U			6010C
Tin		10.0	U	10.0	U			6010C
Vanadium	20	17.2		17.1		0.6		6010C
Zinc		2.0	U	2.0	U			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: K1211865

Project No.: NA

Project Name: City of Walla Walla Sudbury Rd.

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Antimony	2500	2370	94.8					
Arsenic	2500	2480	99.2					
Barium	5000	5090	101.8					
Beryllium	125	123	98.4					
Cadmium	1250	1170	93.6					
Calcium	12500	12500	100.0					
Chromium	500	489	97.8					
Cobalt	1250	1210	96.8					
Copper	625	598	95.7					
Iron	2500	2440	97.6					
Lead	2500	2330	93.2					
Magnesium	12500	12500	100.0					
Manganese	1250	1210	96.8					
Potassium	12500	12500	100.0					
Selenium	2500	2330	93.2					
Silver	625	594	95.0					
Sodium	12500	12600	100.8					
Thallium	2500	2370	94.8					
Tin	10000	9760	97.6					
Vanadium	1250	1260	100.8					
Zinc	1250	1170	93.6					

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-17  
**Lab Code:** K1211865-001  
**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	11/30/12	11/30/12	KWG1214183	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichlorofluoromethane	<b>0.73</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroform	<b>0.66</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichloroethene (TCE)	<b>0.63</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Tetrachloroethene (PCE)	<b>2.6</b>		0.50	1	11/30/12	11/30/12	KWG1214183	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-17  
**Lab Code:** K1211865-001  
**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	11/30/12	11/30/12	KWG1214183	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/30/12	Acceptable
Toluene-d8	91	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	89	68-117	11/30/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-19  
**Lab Code:** K1211865-002  
**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	<b>1.4</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethane	<b>1.1</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
cis-1,2-Dichloroethene	<b>9.6</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroform	<b>0.64</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichloroethene (TCE)	<b>1.4</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Tetrachloroethene (PCE)	<b>1.9</b>		0.50	1	11/30/12	11/30/12	KWG1214183	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-19  
**Lab Code:** K1211865-002  
**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	11/30/12	11/30/12	KWG1214183	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/30/12	Acceptable
Toluene-d8	92	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	90	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-20  
**Lab Code:** K1211865-003  
**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	0.59		0.50	1	11/30/12	11/30/12	KWG1214183	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichlorofluoromethane	0.72		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
cis-1,2-Dichloroethene	0.59		0.50	1	11/30/12	11/30/12	KWG1214183	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroform	0.61		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Tetrachloroethene (PCE)	1.2		0.50	1	11/30/12	11/30/12	KWG1214183	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-20  
**Lab Code:** K1211865-003  
**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	11/30/12	11/30/12	KWG1214183	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/30/12	Acceptable
Toluene-d8	93	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21S  
**Lab Code:** K1211865-004  
**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	0.54		0.50	1	11/30/12	11/30/12	KWG1214183	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichlorofluoromethane	0.84		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroform	0.60		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Tetrachloroethene (PCE)	0.91		0.50	1	11/30/12	11/30/12	KWG1214183	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21S  
**Lab Code:** K1211865-004  
**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	11/30/12	11/30/12	KWG1214183	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/30/12	Acceptable
Toluene-d8	92	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21D  
**Lab Code:** K1211865-005  
**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	11/30/12	11/30/12	KWG1214183	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroform	<b>0.68</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Tetrachloroethene (PCE)	<b>0.94</b>		0.50	1	11/30/12	11/30/12	KWG1214183	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21D  
**Lab Code:** K1211865-005  
**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	11/30/12	11/30/12	KWG1214183	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	11/30/12	Acceptable
Toluene-d8	92	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/30/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22S  
**Lab Code:** K1211865-006  
**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>0.61</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichlorofluoromethane	<b>0.84</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroform	<b>0.67</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Tetrachloroethene (PCE)	<b>0.96</b>		0.50	1	11/30/12	11/30/12	KWG1214183	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22S  
**Lab Code:** K1211865-006  
**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	11/30/12	11/30/12	KWG1214183	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/30/12	Acceptable
Toluene-d8	92	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22D  
**Lab Code:** K1211865-007  
**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	11/30/12	11/30/12	KWG1214183	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichlorofluoromethane	<b>0.55</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroform	<b>0.66</b>		0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Tetrachloroethene (PCE)	<b>1.0</b>		0.50	1	11/30/12	11/30/12	KWG1214183	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22D  
**Lab Code:** K1211865-007  
**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	11/30/12	11/30/12	KWG1214183	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/30/12	Acceptable
Toluene-d8	92	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-18  
**Lab Code:** K1211865-008  
**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>0.60</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	<b>1.1</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	<b>0.64</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	<b>1.2</b>		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-18  
**Lab Code:** K1211865-008  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	11/30/12	Acceptable
Toluene-d8	96	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	94	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** D18  
**Lab Code:** K1211865-009  
**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	0.66		0.50	1	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	1.1		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	0.64		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	1.2		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** D18  
**Lab Code:** K1211865-009  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/30/12	Acceptable
Toluene-d8	98	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	92	68-117	11/30/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-26  
**Lab Code:** K1211865-010  
**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	<b>0.69</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	<b>1.2</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	<b>1.3</b>		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-26  
**Lab Code:** K1211865-010  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	11/30/12	Acceptable
Toluene-d8	95	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	90	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-24  
**Lab Code:** K1211865-011  
**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	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	<b>0.77</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	<b>0.82</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	<b>1.3</b>		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-24  
**Lab Code:** K1211865-011  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/30/12	Acceptable
Toluene-d8	95	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	95	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-23  
**Lab Code:** K1211865-012  
**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	<b>0.93</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	<b>0.63</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	<b>0.82</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	<b>1.2</b>		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-23  
**Lab Code:** K1211865-012  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/30/12	Acceptable
Toluene-d8	96	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-27  
**Lab Code:** K1211865-013  
**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	0.53		0.50	1	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	0.61		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	0.57		0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	1.1		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-27  
**Lab Code:** K1211865-013  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	73-122	11/30/12	Acceptable
Toluene-d8	96	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/30/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-3  
**Lab Code:** K1211865-014  
**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	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	<b>0.57</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	<b>0.95</b>		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-3  
**Lab Code:** K1211865-014  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	11/30/12	Acceptable
Toluene-d8	95	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15D  
**Lab Code:** K1211865-015  
**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	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	<b>0.73</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	<b>0.69</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	<b>1.1</b>		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15D  
**Lab Code:** K1211865-015  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/30/12	Acceptable
Toluene-d8	98	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-16  
**Lab Code:** K1211865-016  
**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	<b>0.69</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	<b>0.94</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	<b>0.61</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	<b>0.71</b>		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-16  
**Lab Code:** K1211865-016  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	73-122	11/30/12	Acceptable
Toluene-d8	96	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	94	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-25  
**Lab Code:** K1211865-017  
**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	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	<b>1.5</b>		0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	<b>0.55</b>		0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-25  
**Lab Code:** K1211865-017  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	11/30/12	Acceptable
Toluene-d8	94	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	93	68-117	11/30/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** TB  
**Lab Code:** K1211865-018  
**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	11/30/12	11/30/12	KWG1214183	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** TB  
**Lab Code:** K1211865-018  
**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	11/30/12	11/30/12	KWG1214183	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/30/12	Acceptable
Toluene-d8	93	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	90	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214183-4  
**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	11/30/12	11/30/12	KWG1214183	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214183	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214183	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214183-4  
**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	11/30/12	11/30/12	KWG1214183	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214183	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214183	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214183	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	11/30/12	Acceptable
Toluene-d8	93	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	91	68-117	11/30/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214202-4  
**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	11/30/12	11/30/12	KWG1214202	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	*
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Acetone	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Iodomethane	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	*
Carbon Disulfide	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Methylene Chloride	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Acrylonitrile	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Vinyl Acetate	ND	U	5.0	1	11/30/12	11/30/12	KWG1214202	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
2-Butanone (MEK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Trichloroethene (TCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/30/12	11/30/12	KWG1214202	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Tetrachloroethene (PCE)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214202-4  
**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	11/30/12	11/30/12	KWG1214202	
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
cis-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
trans-1,4-Dichloro-2-butene	ND	U	10	1	11/30/12	11/30/12	KWG1214202	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214202	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/30/12	11/30/12	KWG1214202	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	11/30/12	Acceptable
Toluene-d8	97	65-144	11/30/12	Acceptable
4-Bromofluorobenzene	89	68-117	11/30/12	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865

**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-17	K1211865-001	97	91	89
MW-19	K1211865-002	96	92	90
MW-20	K1211865-003	98	93	91
MW-21S	K1211865-004	98	92	91
MW-21D	K1211865-005	96	92	92
MW-22S	K1211865-006	99	92	91
MW-22D	K1211865-007	99	92	91
MW-18	K1211865-008	95	96	94
D18	K1211865-009	99	98	92
MW-26	K1211865-010	95	95	90
MW-24	K1211865-011	99	95	95
MW-23	K1211865-012	99	96	91
MW-27	K1211865-013	100	96	93
MW-3	K1211865-014	99	95	91
MW-15D	K1211865-015	97	98	93
MW-16	K1211865-016	101	96	94
MW-25	K1211865-017	98	94	93
TB	K1211865-018	97	93	90
Method Blank	KWG1214183-4	97	93	91
Method Blank	KWG1214202-4	95	97	89
MW-19MS	KWG1214183-1	94	95	93
MW-19DMS	KWG1214183-2	96	94	94
Lab Control Sample	KWG1214183-3	95	95	95
Lab Control Sample	KWG1214202-3	100	104	100

**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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Extracted:** 11/30/2012  
**Date Analyzed:** 11/30/2012

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

**Sample Name:** MW-19  
**Lab Code:** K1211865-002  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214183

Analyte Name	Sample Result	MW-19MS KWG1214183-1 Matrix Spike			MW-19DMS KWG1214183-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	10.1	10.0	101	9.53	10.0	95	49-136	6	30
1,1-Dichloroethene	ND	9.78	10.0	98	9.11	10.0	91	59-171	7	30
Chloroform	0.64	10.5	10.0	98	10.0	10.0	94	64-133	4	30
Carbon Tetrachloride	ND	9.26	10.0	93	8.58	10.0	86	53-161	8	30
Benzene	ND	9.32	10.0	93	8.85	10.0	89	63-144	5	30
Trichloroethene (TCE)	1.4	10.9	10.0	95	10.3	10.0	89	53-139	6	30
Bromodichloromethane	ND	9.93	10.0	99	9.54	10.0	95	61-134	4	30
Toluene	ND	9.65	10.0	97	9.19	10.0	92	71-136	5	30
1,1,2-Trichloroethane	ND	10.7	10.0	107	11.0	10.0	110	74-124	3	30
2-Hexanone	ND	48.0	50.0	96	55.7	50.0	111	53-132	15	30
Chlorobenzene	ND	10.0	10.0	100	9.47	10.0	95	69-126	5	30
Ethylbenzene	ND	9.71	10.0	97	9.05	10.0	91	66-136	7	30
1,2,3-Trichloropropane	ND	9.47	10.0	95	10.9	10.0	109	71-127	14	30
1,2-Dichlorobenzene	ND	10.1	10.0	101	9.47	10.0	95	72-119	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.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211865  
**Date Extracted:** 11/30/2012  
**Date Analyzed:** 11/30/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214183

Lab Control Sample  
 KWG1214183-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	8.32	10.0	83	32-124
Chloromethane	8.84	10.0	88	34-130
Vinyl Chloride	9.58	10.0	96	55-123
Bromomethane	8.13	10.0	81	35-113
Chloroethane	9.60	10.0	96	58-134
Trichlorofluoromethane	7.93	10.0	79	52-141
1,1-Dichloroethene	9.57	10.0	96	66-129
Acetone	54.1	50.0	108	68-135
Iodomethane	25.9	30.0	86	51-164
Carbon Disulfide	18.9	20.0	94	46-144
Methylene Chloride	8.77	10.0	88	71-122
Acrylonitrile	42.7	40.0	107	65-129
trans-1,2-Dichloroethene	9.12	10.0	91	67-125
1,1-Dichloroethane	9.28	10.0	93	68-132
Vinyl Acetate	44.7	50.0	89	44-156
cis-1,2-Dichloroethene	9.12	10.0	91	71-118
2-Butanone (MEK)	51.0	50.0	102	71-149
Bromochloromethane	9.48	10.0	95	75-131
Chloroform	9.63	10.0	96	70-129
1,1,1-Trichloroethane (TCA)	9.14	10.0	91	59-136
Carbon Tetrachloride	8.94	10.0	89	55-140
Benzene	9.06	10.0	91	69-124
1,2-Dichloroethane (EDC)	9.00	10.0	90	56-142
Trichloroethene (TCE)	9.60	10.0	96	67-128
1,2-Dichloropropane	9.52	10.0	95	67-126
Dibromomethane	9.32	10.0	93	69-128
Bromodichloromethane	9.61	10.0	96	63-129
cis-1,3-Dichloropropene	9.79	10.0	98	62-132
4-Methyl-2-pentanone (MIBK)	49.6	50.0	99	64-134
Toluene	9.32	10.0	93	69-124
trans-1,3-Dichloropropene	9.28	10.0	93	59-125
1,1,2-Trichloroethane	10.4	10.0	104	74-118
Tetrachloroethene (PCE)	9.61	10.0	96	62-126
2-Hexanone	51.2	50.0	102	59-131
Dibromochloromethane	9.83	10.0	98	67-126

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

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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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Extracted:** 11/30/2012  
**Date Analyzed:** 11/30/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214183

Lab Control Sample  
 KWG1214183-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	9.68	10.0	97	74-118
Chlorobenzene	9.85	10.0	99	72-116
Ethylbenzene	9.47	10.0	95	67-121
1,1,1,2-Tetrachloroethane	9.95	10.0	100	66-124
m,p-Xylenes	19.6	20.0	98	69-121
o-Xylene	9.58	10.0	96	71-119
Styrene	11.1	10.0	111	74-121
Bromoform	9.84	10.0	98	52-144
cis-1,4-Dichloro-2-butene	29.1	30.0	97	26-171
1,1,2,2-Tetrachloroethane	9.39	10.0	94	70-127
trans-1,4-Dichloro-2-butene	25.2	30.0	84	46-170
1,2,3-Trichloropropane	9.81	10.0	98	69-123
1,4-Dichlorobenzene	9.61	10.0	96	73-115
1,2-Dichlorobenzene	9.50	10.0	95	72-115
1,2-Dibromo-3-chloropropane	10.0	10.0	100	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Extracted:** 11/30/2012  
**Date Analyzed:** 11/30/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214202

Lab Control Sample  
 KWG1214202-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	9.12	10.0	91	32-124
Chloromethane	10.8	10.0	108	34-130
Vinyl Chloride	10.0	10.0	100	55-123
Bromomethane	7.06	10.0	71	35-113
Chloroethane	11.2	10.0	112	58-134
Trichlorofluoromethane	10.2	10.0	102	52-141
1,1-Dichloroethene	10.8	10.0	108	66-129
Acetone	56.7	50.0	113	68-135
Iodomethane	35.7	30.0	119	51-164
Carbon Disulfide	25.8	20.0	129	46-144
Methylene Chloride	10.5	10.0	105	71-122
Acrylonitrile	42.9	40.0	107	65-129
trans-1,2-Dichloroethene	11.0	10.0	110	67-125
1,1-Dichloroethane	10.7	10.0	107	68-132
Vinyl Acetate	48.6	50.0	97	44-156
cis-1,2-Dichloroethene	9.92	10.0	99	71-118
2-Butanone (MEK)	50.0	50.0	100	71-149
Bromochloromethane	11.3	10.0	113	75-131
Chloroform	11.2	10.0	112	70-129
1,1,1-Trichloroethane (TCA)	11.9	10.0	119	59-136
Carbon Tetrachloride	12.0	10.0	120	55-140
Benzene	10.3	10.0	103	69-124
1,2-Dichloroethane (EDC)	10.2	10.0	102	56-142
Trichloroethene (TCE)	11.2	10.0	112	67-128
1,2-Dichloropropane	10.8	10.0	108	67-126
Dibromomethane	10.5	10.0	105	69-128
Bromodichloromethane	11.5	10.0	115	63-129
cis-1,3-Dichloropropene	11.6	10.0	116	62-132
4-Methyl-2-pentanone (MIBK)	47.3	50.0	95	64-134
Toluene	10.9	10.0	109	69-124
trans-1,3-Dichloropropene	10.1	10.0	101	59-125
1,1,2-Trichloroethane	9.87	10.0	99	74-118
Tetrachloroethene (PCE)	10.0	10.0	100	62-126
2-Hexanone	47.8	50.0	96	59-131
Dibromochloromethane	10.1	10.0	101	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Extracted:** 11/30/2012  
**Date Analyzed:** 11/30/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214202

Lab Control Sample  
 KWG1214202-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	10.1	10.0	101	74-118
Chlorobenzene	10.1	10.0	101	72-116
Ethylbenzene	10.9	10.0	109	67-121
1,1,1,2-Tetrachloroethane	10.7	10.0	107	66-124
m,p-Xylenes	22.6	20.0	113	69-121
o-Xylene	11.2	10.0	112	71-119
Styrene	10.8	10.0	108	74-121
Bromoform	10.1	10.0	101	52-144
cis-1,4-Dichloro-2-butene	32.3	30.0	108	26-171
1,1,2,2-Tetrachloroethane	8.01	10.0	80	70-127
trans-1,4-Dichloro-2-butene	24.5	30.0	82	46-170
1,2,3-Trichloropropane	8.43	10.0	84	69-123
1,4-Dichlorobenzene	9.13	10.0	91	73-115
1,2-Dichlorobenzene	9.16	10.0	92	72-115
1,2-Dibromo-3-chloropropane	8.55	10.0	86	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-17  
**Lab Code:** K1211865-001  
**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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	77-123	12/03/12	Acceptable
Toluene-d8	102	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	77	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-19 **Units:** ng/L  
**Lab Code:** K1211865-002 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	119	77-123	12/03/12	Acceptable
Toluene-d8	100	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	76	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-20 **Units:** ng/L  
**Lab Code:** K1211865-003 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	118	77-123	12/03/12	Acceptable
Toluene-d8	99	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21S **Units:** ng/L  
**Lab Code:** K1211865-004 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	12/03/12	Acceptable
Toluene-d8	100	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	74	46-118	12/03/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-21D  
**Lab Code:** K1211865-005  
**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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	119	77-123	12/03/12	Acceptable
Toluene-d8	99	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	77	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22S **Units:** ng/L  
**Lab Code:** K1211865-006 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	122	77-123	12/03/12	Acceptable
Toluene-d8	99	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-22D **Units:** ng/L  
**Lab Code:** K1211865-007 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	12/03/12	Acceptable
Toluene-d8	99	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	76	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-18  
**Lab Code:** K1211865-008  
**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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	122	77-123	12/03/12	Acceptable
Toluene-d8	98	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** D18 **Units:** ng/L  
**Lab Code:** K1211865-009 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	123	77-123	12/03/12	Acceptable
Toluene-d8	98	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	76	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-26 **Units:** ng/L  
**Lab Code:** K1211865-010 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	123	77-123	12/03/12	Acceptable
Toluene-d8	97	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	76	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-24 **Units:** ng/L  
**Lab Code:** K1211865-011 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	124	77-123	12/03/12	Outside Control Limits
Toluene-d8	98	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	76	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-23  
**Lab Code:** K1211865-012  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C SIM

**Units:** ng/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	124	77-123	12/03/12	Outside Control Limits
Toluene-d8	99	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	76	46-118	12/03/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-27 **Units:** ng/L  
**Lab Code:** K1211865-013 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	124	77-123	12/03/12	Outside Control Limits
Toluene-d8	99	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-3  
**Lab Code:** K1211865-014  
**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	12/03/12	12/04/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	125	77-123	12/04/12	Outside Control Limits
Toluene-d8	98	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15D **Units:** ng/L  
**Lab Code:** K1211865-015 **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	12/03/12	12/04/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	122	77-123	12/04/12	Acceptable
Toluene-d8	97	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	76	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-16 **Units:** ng/L  
**Lab Code:** K1211865-016 **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	12/03/12	12/04/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	123	77-123	12/04/12	Acceptable
Toluene-d8	97	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/27/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** MW-25 **Units:** ng/L  
**Lab Code:** K1211865-017 **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	ND	U	20	1	12/03/12	12/04/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	124	77-123	12/04/12	Outside Control Limits
Toluene-d8	96	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** 11/26/2012  
**Date Received:** 11/28/2012

**Volatile Organic Compounds**

**Sample Name:** TB  
**Lab Code:** K1211865-018  
**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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	115	77-123	12/03/12	Acceptable
Toluene-d8	102	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	76	46-118	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211865  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank **Units:** ng/L  
**Lab Code:** KWG1214257-4 **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	12/03/12	12/03/12	KWG1214257	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	77-123	12/03/12	Acceptable
Toluene-d8	102	74-112	12/03/12	Acceptable
4-Bromofluorobenzene	77	46-118	12/03/12	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865

**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-17	K1211865-001	117	102	77	
MW-19	K1211865-002	119	100	76	
MW-20	K1211865-003	118	99	75	
MW-21S	K1211865-004	120	100	74	
MW-21D	K1211865-005	119	99	77	
MW-22S	K1211865-006	122	99	75	
MW-22D	K1211865-007	121	99	76	
MW-18	K1211865-008	122	98	75	
D18	K1211865-009	123	98	76	
MW-26	K1211865-010	123	97	76	
MW-24	K1211865-011	124	*	98	76
MW-23	K1211865-012	124	*	99	76
MW-27	K1211865-013	124	*	99	75
MW-3	K1211865-014	125	*	98	75
MW-15D	K1211865-015	122	97	76	
MW-16	K1211865-016	123	97	75	
MW-25	K1211865-017	124	*	96	75
TB	K1211865-018	115	102	76	
Method Blank	KWG1214257-4	111	102	77	
MW-19MS	KWG1214257-1	109	108	105	
MW-19DMS	KWG1214257-2	108	107	105	
Lab Control Sample	KWG1214257-3	111	107	104	

**Surrogate Recovery Control Limits (%)**

---

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

---

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:** K1211865  
**Date Extracted:** 12/03/2012  
**Date Analyzed:** 12/03/2012

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

**Sample Name:** MW-19  
**Lab Code:** K1211865-002  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C SIM

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214257

Analyte Name	Sample Result	MW-19MS KWG1214257-1 Matrix Spike			MW-19DMS KWG1214257-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	1930	2000	96	1790	2000	89	70-130	8	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 Rd. Landfill  
**Sample Matrix:** Water

**Service Request:** K1211865  
**Date Extracted:** 12/03/2012  
**Date Analyzed:** 12/03/2012

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

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

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214257

Lab Control Sample  
KWG1214257-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2080	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 31, 2012

Analytical Report for Service Request No: K1212117

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

**RE: Sudbury Road Landfill RI**

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on November 29, 2012. For your reference, these analyses have been assigned our service request number K1212117.

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

Page 1 of 68



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Environmental 

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

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## 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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request No.:** K1212117  
**Date Received:** 11/29/12

### 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: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

### Sample Receipt

Four water samples were received for analysis at ALS Environmental on 11/29/12. The samples were reissued for analysis on 12/05/12 as instructed by Schwyn Environmental Services. The samples were received in good condition and consistent with the original chain of custody form. The samples were stored in a refrigerator at 4°C upon re-issue at the laboratory.

### General Chemistry Parameters

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

### Dissolved Metals

#### **Matrix Spike Recovery Exceptions:**

The control criteria for matrix spike recovery of calcium and Magnesium for sample MW-12b were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other 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) MS18\1203F005.D: Bromomethane and Iodomethane. In accordance with the EPA Method 8260C, 80% or more of the CCV analytes must have passed within 20% of the true value. The remaining analytes are allowed a 40% difference as per the CAS SOP. 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.

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



**Volatile Organic Compounds by EPA Method 8260 (cont.)**

**Lab Control Sample Exceptions:**

The upper control criterion was exceeded for Chloromethane in Laboratory Control Sample (LCS) KWG1214234-3. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery indicated a high bias. The sample data was not significantly affected. No further corrective action was appropriate.

The upper control criterion was exceeded for Acetone in Laboratory Control Sample (LCS) KWG1214240-3. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery indicated a high bias. The sample data was not significantly affected. No further corrective action was appropriate.

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

**Volatile Organic Compounds by EPA Method 8260-SIM**

**Surrogate Exceptions:**

The upper control criterion was exceeded for Dibromofluoromethane in samples MW-11, MW-12b and MW-14b. No target analytes were detected in the samples. 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 upper control criterion was exceeded by 12% for the surrogate Dibromofluoromethane in sample MW-15. The error associated with elevated recovery equates to a potential slight bias. Also see full scan analysis for Vinyl Chloride. The results were flagged to indicate the issue. No further corrective action was taken.

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

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




Columbia Analytical Services

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SR# K1212117  
K121970  
 PAGE 1 OF 1

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
Sample I.D.	Date	Time	LAB ID	Matrix								
MW-11	11/28/12	820			X	X	X	X	X			
MW-12	11/27	<del>875</del> 1500			X	X	X	X	X	X	Short Hold	
MW-14b	11/28	930			X	X	X	X	X			
MW-15	11/28	845			X	X	X	X	X			
URNAROUND REQUIREMENTS					REPORT REQUIREMENTS							
<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: _____					I. Routine Report: Results, Method Blank Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required <input type="checkbox"/> III. Data Validation Report (includes raw data) <input checked="" type="checkbox"/> IV. CLP Deliverable Report <input checked="" type="checkbox"/> V. EDD							
Invoice Information P.O. # _____ Bill to: Schwyn Environmental Services					Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C							
RELINQUISHED BY:					RECEIVED BY:			RELINQUISHED BY:			RECEIVED BY:	
Signature: <u>Craig Schwyn</u>					Signature: _____			Signature: _____			Signature: _____	
Printed Name: Craig Schwyn					Printed Name: _____			Printed Name: _____			Printed Name: _____	
Firm: Schwyn Environmental Services					Firm: _____			Firm: _____			Firm: _____	
Date/Time: <u>11/28/12 1400</u>					Date/Time: _____			Date/Time: _____			Date/Time: _____	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12 - 11/28/12  
**Date Received:** 11/29/12

**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-11	K1212117-001	<b>87.4</b>	4.0	20	11/29/12 12:15	
MW-12b	K1212117-002	<b>133</b>	4.0	20	11/29/12 11:56	
MW-14b	K1212117-003	<b>142</b>	4.0	20	11/29/12 12:25	
MW-15	K1212117-004	<b>121</b>	4.0	20	11/29/12 12:35	
Method Blank	K1212117-MB1	ND U	0.20	1	11/29/12 08:38	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12  
**Date Received:** 11/29/12  
**Date Analyzed:** 11/29/12

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

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002

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

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>
				<b>K1212117-002DUP Result</b>			
Chloride	300.0	4.0	133	133	133	<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.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12  
**Date Received:** 11/29/12  
**Date Analyzed:** 11/29/12

**Duplicate Matrix Spike Summary  
 Chloride**

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1212117-002MS		Duplicate Matrix Spike K1212117-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	133	238	100	105	236	100	103	90-110	<1	20

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

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

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1212117

**Date Analyzed:**11/29/12

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

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320369

<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	K1212117-LCS1	4.84	5.00	97	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12 - 11/28/12  
**Date Received:** 11/29/12

**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-11	K1212117-001	9.7	1.0	20	11/29/12 12:15	
MW-12b	K1212117-002	11.3	1.0	20	11/29/12 11:56	
MW-14b	K1212117-003	10.5	1.0	20	11/29/12 12:25	
MW-15	K1212117-004	8.4	1.0	20	11/29/12 12:35	
Method Blank	K1212117-MB1	ND U	0.050	1	11/29/12 08:38	

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12  
**Date Received:** 11/29/12  
**Date Analyzed:** 11/29/12

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

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002

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

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1212117-002DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Nitrate as Nitrogen	300.0	1.0	11.3	11.1	11.2	2	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.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12  
**Date Received:** 11/29/12  
**Date Analyzed:** 11/29/12

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

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1212117-002MS		Duplicate Matrix Spike K1212117-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	11.3	114	100	103	114	100	102	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.

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:**K1212117  
**Date Analyzed:**11/29/12

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

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320369

<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	K1212117-LCS1	18.0	17.7	102	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12 - 11/28/12  
**Date Received:** 11/29/12

**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-11	K1212117-001	<b>27.8</b>	2.0	20	11/29/12 12:15	
MW-12b	K1212117-002	<b>32.6</b>	2.0	20	11/29/12 11:56	
MW-14b	K1212117-003	<b>48.7</b>	2.0	20	11/29/12 12:25	
MW-15	K1212117-004	<b>39.4</b>	2.0	20	11/29/12 12:35	
Method Blank	K1212117-MB1	ND U	0.10	1	11/29/12 08:38	

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12  
**Date Received:** 11/29/12  
**Date Analyzed:** 11/29/12

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

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002

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

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				K1212117-002DUP Result			
Sulfate	300.0	2.0	32.6	32.6	32.6	<1	20

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12  
**Date Received:** 11/29/12  
**Date Analyzed:** 11/29/12

**Duplicate Matrix Spike Summary  
Sulfate**

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1212117-002MS		Duplicate Matrix Spike K1212117-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	32.6	136	100	104	136	100	103	90-110	<1	20

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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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1212117  
**Date Analyzed:**11/29/12

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

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320369

<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	K1212117-LCS1	4.84	5.00	97	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12 - 11/28/12  
**Date Received:** 11/29/12  
**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-11	K1212117-001	<b>263</b>	9.0	1	11/30/12 20:21	
MW-12b	K1212117-002	<b>274</b>	9.0	1	11/30/12 20:36	
MW-14b	K1212117-003	<b>283</b>	9.0	1	11/30/12 20:51	
MW-15	K1212117-004	<b>485</b>	9.0	1	11/30/12 21:06	
Method Blank	K1212117-MB1	ND U	9.0	1	11/30/12 22:19	
Method Blank	K1212117-MB2	ND U	9.0	1	11/30/12 15:56	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12  
**Date Received:** 11/29/12  
**Date Analyzed:** 11/30/12

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

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002

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

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1212117-002DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Alkalinity as CaCO <sub>3</sub> , Total	SM 2320 B	9.0	274	273	274	<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.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1212117  
**Date Analyzed:**11/30/12

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

**Analysis Method:** SM 2320 B

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320472

<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	K1212117-LCS1	121	122	99	90-110
Lab Control Sample	K1212117-LCS2	124	122	102	90-110



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12 - 11/28/12  
**Date Received:** 11/29/12

**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-11	K1212117-001	<b>580</b>	13	1	12/03/12 15:00	
MW-12b	K1212117-002	<b>556</b>	13	1	12/03/12 15:00	
MW-14b	K1212117-003	<b>675</b>	13	1	12/03/12 15:00	
MW-15	K1212117-004	<b>857</b>	13	1	12/03/12 15:00	
Method Blank	K1212117-MB1	ND U	5.0	1	12/03/12 15:00	
Method Blank	K1212117-MB2	ND U	5.0	1	12/03/12 15:00	
Method Blank	K1212117-MB3	ND U	5.0	1	12/03/12 15:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 12/03/12

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

**Sample Name:** Batch QC  
**Lab Code:** K1211988-001

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

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1211988-001DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	10	443	455	449	3	10

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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1212117  
**Date Analyzed:**12/03/12

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

**Analysis Method:** SM 2540 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320835

<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	K1212117-LCS1	1820	1810	101	90-108
Lab Control Sample	K1212117-LCS2	1840	1810	102	90-108

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12 - 11/28/12  
**Date Received:** 11/29/12

**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-11	K1212117-001	ND U	0.050	1	12/04/12 09:30	
MW-12b	K1212117-002	ND U	0.050	1	12/04/12 09:30	
MW-14b	K1212117-003	ND U	0.050	1	12/04/12 09:30	
MW-15	K1212117-004	ND U	0.050	1	12/04/12 09:30	
Method Blank	K1212117-MB1	ND U	0.050	1	12/04/12 09:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services  
Project: Sudbury Road Landfill RI  
Sample Matrix: Water

Service Request: K1212117  
Date Collected: 11/27/12  
Date Received: 11/29/12  
Date Analyzed: 12/04/12

Replicate Sample Summary  
General Chemistry Parameters

Sample Name: MW-12b  
Lab Code: K1212117-002

Units: mg/L  
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1212117-002DUP Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	SM 4500-NH3 E	0.050	ND	ND	NC	NC	20

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

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12  
**Date Received:** 11/29/12  
**Date Analyzed:** 12/4/12

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

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002  
**Analysis Method:** SM 4500-NH3 E

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

**Matrix Spike**  
K1212117-002MS

<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	9.93	10.0	99	80-115

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

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1212117  
**Date Analyzed:**12/04/12

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

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

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**321265

<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	K1212117-LCS1	10.7	10.9	98	80-115

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12 - 11/28/12  
**Date Received:** 11/29/12

**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-11	K1212117-001	ND U	0.50	1	11/30/12 21:00	
MW-12b	K1212117-002	ND U	0.50	1	11/30/12 21:00	
MW-14b	K1212117-003	<b>0.57</b>	0.50	1	11/30/12 21:00	
MW-15	K1212117-004	<b>1.06</b>	0.50	1	11/30/12 21:00	
Method Blank	K1212117-MB1	ND U	0.50	1	11/30/12 21:00	
Method Blank	K1212117-MB2	ND U	0.50	1	11/30/12 21:00	
Method Blank	K1212117-MB3	ND U	0.50	1	11/30/12 21:00	



COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

**Service Request:** K1212117  
**Date Collected:** 11/27/12 - 11/28/12  
**Date Received:** 11/29/12

**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-11	K1212117-001DUP	0.50	ND	ND	NC	NC	10	11/30/12
MW-12b	K1212117-002DUP	0.50	ND	ND	NC	NC	10	11/30/12
MW-14b	K1212117-003DUP	0.50	0.57	ND	NC	NC	10	11/30/12
MW-15	K1212117-004DUP	0.50	1.06	1.04	1.05	2	10	11/30/12

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1212117  
**Date Collected:**11/27/12  
**Date Received:**11/29/12  
**Date Analyzed:**11/30/12

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

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002  
**Analysis Method:** SM 5310 C

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

**Matrix Spike**  
K1212117-002MS

<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	ND	25.7	25.0	103	83-117

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

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

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1212117  
**Date Analyzed:**11/30/12

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

**Analysis Method:** SM 5310 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320582

<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	K1212117-LCS1	22.9	22.7	101	83-117
Lab Control Sample	K1212117-LCS2	22.8	22.7	100	83-117
Lab Control Sample	K1212117-LCS3	22.5	22.7	99	83-117

**COLUMBIA ANALYTICAL SERVICES, INC.**

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**INORGANIC ANALYSIS DATA PACKAGE**

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

**Service Request:** K1212117

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**Sample Name:**

MW-11

MW-12b

MW-12bD

MW-12bS

MW-14b

MW-15

Method Blank

**Lab Code:**

K1212117-001DISS

K1212117-002DISS

K1212117-002DISSD

K1212117-002DISSS

K1212117-003DISS

K1212117-004DISS

K1212117-MB

**Comments:**

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1212117  
 Project No.: NA Date Collected: 11/28/2012  
 Project Name: Sudbury Road Landfill RI Date Received: 11/29/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-11 Lab Code: K1212117-001DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	66.7		
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	89200		
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	35600		
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	5.0	U	
Potassium	6010C	400	1.0	12/04/12	12/12/12	8040		
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	37000		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	12.6		
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services **Service Request:** K1212117  
**Project No.:** NA **Date Collected:** 11/28/2012  
**Project Name:** Sudbury Road Landfill RI **Date Received:** 11/29/2012  
**Matrix:** WATER **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-12b **Lab Code:** K1212117-002DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	72.3		
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	106000		
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	2.3		
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	48700		
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	5.0	U	
Potassium	6010C	400	1.0	12/04/12	12/12/12	7760		
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	29900		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	14.2		
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1212117  
 Project No.: NA Date Collected: 11/28/2012  
 Project Name: Sudbury Road Landfill RI Date Received: 11/29/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-14b Lab Code: K1212117-003DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	69.6		
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	122000		
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	3.2		
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	50300		
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	5.0	U	
Potassium	6010C	400	1.0	12/04/12	12/12/12	7680		
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	18000		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	15.8		
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1212117  
 Project No.: NA Date Collected: 11/28/2012  
 Project Name: Sudbury Road Landfill RI Date Received: 11/29/2012  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-15 Lab Code: K1212117-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	195		
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	155000		
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	3.0		
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	48700		
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	47.4		
Potassium	6010C	400	1.0	12/04/12	12/12/12	8330		
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	60500		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	14.2		
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:



**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1212117  
 Project No.: NA Date Collected:  
 Project Name: Sudbury Road Landfill RI Date Received:  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: Method Blank Lab Code: K1212117-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	50.0	U	
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	5.0	U	
Potassium	6010C	400	1.0	12/04/12	12/12/12	400	U	
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	289		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:

**Metals**

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**SPIKE SAMPLE RECOVERY**

Client: Schwyn Environmental Services Service Request: K1212117  
 Project No.: NA Units: UG/L  
 Project Name: Sudbury Road Landfill RI Basis: NA  
 Matrix: WATER

Sample Name: MW-12bS

Lab Code: K1212117-002DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	86 - 116	463		10.0	U	500.00	92.6		6010C
Arsenic	79 - 121	1010		10.0	U	1000.00	101.0		6010C
Barium	80 - 124	2070		72.3		2000.00	99.9		6010C
Beryllium	87 - 114	48.1		0.4	U	50.00	96.2		6010C
Cadmium	75 - 125	46.8		0.5	U	50.00	93.6		6010C
Calcium		115000		106000		10000.00	90.0		6010C
Chromium	89 - 117	197		2.0	U	200.00	98.5		6010C
Cobalt	88 - 117	465		2.0	U	500.00	93.0		6010C
Copper	86 - 113	230		2.3		250.00	91.1		6010C
Iron	75 - 125	970		20.0	U	1000.00	97.0		6010C
Lead	75 - 125	457		10.0	U	500.00	91.4		6010C
Magnesium		56800		48700		10000.00	81.0		6010C
Manganese	84 - 121	469		5.0	U	500.00	93.8		6010C
Potassium	75 - 125	17500		7760		10000.00	97.4		6010C
Selenium	82 - 119	920		20.0	U	1000.00	92.0		6010C
Silver	79 - 120	47.2		2.0	U	50.00	94.4		6010C
Sodium	75 - 125	39300		29900		10000.00	94.0		6010C
Thallium	75 - 125	922		10.0	U	1000.00	92.2		6010C
Tin	75 - 125	10100		2.0	U	10000.00	101.0		6010C
Vanadium	89 - 115	516		14.2		500.00	100.4		6010C
Zinc	87 - 113	469		2.0	U	500.00	93.8		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: K1212117

Project No.: NA

Units: UG/L

Project Name: Sudbury Road Landfill RI

Basis: NA

Matrix: WATER

Sample Name: MW-12bD

Lab Code: K1212117-002DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		10.0	U	10.0	U			6010C
Arsenic		10.0	U	10.0	U			6010C
Barium	20	72.3		72.8		0.7		6010C
Beryllium		0.4	U	0.4	U			6010C
Cadmium		0.5	U	0.5	U			6010C
Calcium	20	106000		105000		0.9		6010C
Chromium		2.0	U	2.0	U			6010C
Cobalt		2.0	U	2.0	U			6010C
Copper		2.3		2.0	U	200.0		6010C
Iron		20.0	U	20.0	U			6010C
Lead		10.0	U	10.0	U			6010C
Magnesium	20	48700		48300		0.8		6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	7760		7700		0.8		6010C
Selenium		20.0	U	20.0	U			6010C
Silver		2.0	U	2.0	U			6010C
Sodium	20	29900		29600		1.0		6010C
Thallium		10.0	U	10.0	U			6010C
Tin		2.0	U	2.0	U			6010C
Vanadium	20	14.2		14.3		0.7		6010C
Zinc		2.0	U	2.0	U			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: K1212117

Project No.: NA

Project Name: Sudbury Road Landfill RI

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Antimony	2500	2370	94.8					
Arsenic	2500	2490	99.6					
Barium	5000	4940	98.8					
Beryllium	125	123	98.4					
Cadmium	1250	1200	96.0					
Calcium	12500	12400	99.2					
Chromium	500	493	98.6					
Cobalt	1250	1210	96.8					
Copper	625	593	94.9					
Iron	2500	2450	98.0					
Lead	2500	2360	94.4					
Magnesium	12500	12400	99.2					
Manganese	1250	1210	96.8					
Potassium	12500	12300	98.4					
Selenium	2500	2320	92.8					
Silver	625	582	93.1					
Sodium	12500	12500	100.0					
Thallium	2500	2340	93.6					
Tin	10000	9900	99.0					
Vanadium	1250	1240	99.2					
Zinc	1250	1210	96.8					

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-11  
**Lab Code:** K1212117-001  
**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	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	<b>1.4</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	<b>1.5</b>		0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-11  
**Lab Code:** K1212117-001  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	73-122	12/03/12	Acceptable
Toluene-d8	96	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	93	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002  
**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	12/03/12	12/03/12	KWG1214240	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214240	*
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214240	
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214240	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214240	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214240	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214240	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Chloroform	<b>1.0</b>		0.50	1	12/03/12	12/03/12	KWG1214240	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214240	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Tetrachloroethene (PCE)	<b>0.77</b>		0.50	1	12/03/12	12/03/12	KWG1214240	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002  
**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	12/03/12	12/03/12	KWG1214240	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214240	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214240	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214240	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214240	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	12/03/12	Acceptable
Toluene-d8	92	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	91	68-117	12/03/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-14b  
**Lab Code:** K1212117-003  
**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	<b>0.67</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	<b>0.98</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	<b>0.91</b>		0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-14b  
**Lab Code:** K1212117-003  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	12/03/12	Acceptable
Toluene-d8	95	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15  
**Lab Code:** K1212117-004  
**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	2.7		0.50	1	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	0.82		0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	0.58		0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	4.1		0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	12		0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	2.2		0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	5.5		0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15  
**Lab Code:** K1212117-004  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	12/03/12	Acceptable
Toluene-d8	96	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	87	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214234-4  
**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	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214234-4  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	73-122	12/03/12	Acceptable
Toluene-d8	97	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	93	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214240-4  
**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	12/03/12	12/03/12	KWG1214240	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214240	*
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214240	
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214240	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214240	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214240	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214240	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Chloroform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214240	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Tetrachloroethene (PCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214240-4  
**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	12/03/12	12/03/12	KWG1214240	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214240	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214240	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214240	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214240	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214240	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	12/03/12	Acceptable
Toluene-d8	93	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	90	68-117	12/03/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117

**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-11	K1212117-001	101	96	93
MW-12b	K1212117-002	97	92	91
MW-14b	K1212117-003	93	95	92
MW-15	K1212117-004	99	96	87
Method Blank	KWG1214234-4	101	97	93
Method Blank	KWG1214240-4	98	93	90
Matrix SpikeMS	KWG1214240-1	94	94	94
Duplicate Matrix SpikeDMS	KWG1214240-2	94	95	95
Lab Control Sample	KWG1214234-3	100	99	93
Lab Control Sample	KWG1214240-3	95	94	94

**Surrogate Recovery Control Limits (%)**

---

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

---

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Extracted:** 12/03/2012  
**Date Analyzed:** 12/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214234

Lab Control Sample  
 KWG1214234-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	8.77	10.0	88	32-124
Chloromethane	15.2	10.0	152 *	34-130
Vinyl Chloride	10.1	10.0	101	55-123
Bromomethane	7.05	10.0	71	35-113
Chloroethane	11.6	10.0	116	58-134
Trichlorofluoromethane	10.2	10.0	102	52-141
1,1-Dichloroethene	10.8	10.0	108	66-129
Acetone	55.9	50.0	112	68-135
Iodomethane	26.9	30.0	90	51-164
Carbon Disulfide	26.4	20.0	132	46-144
Methylene Chloride	10.4	10.0	104	71-122
Acrylonitrile	40.3	40.0	101	65-129
trans-1,2-Dichloroethene	10.8	10.0	108	67-125
1,1-Dichloroethane	10.8	10.0	108	68-132
Vinyl Acetate	50.6	50.0	101	44-156
cis-1,2-Dichloroethene	10.2	10.0	102	71-118
2-Butanone (MEK)	54.9	50.0	110	71-149
Bromochloromethane	11.1	10.0	111	75-131
Chloroform	11.1	10.0	111	70-129
1,1,1-Trichloroethane (TCA)	12.2	10.0	122	59-136
Carbon Tetrachloride	11.9	10.0	119	55-140
Benzene	10.3	10.0	103	69-124
1,2-Dichloroethane (EDC)	9.91	10.0	99	56-142
Trichloroethene (TCE)	11.2	10.0	112	67-128
1,2-Dichloropropane	10.6	10.0	106	67-126
Dibromomethane	10.3	10.0	103	69-128
Bromodichloromethane	11.1	10.0	111	63-129
cis-1,3-Dichloropropene	11.9	10.0	119	62-132
4-Methyl-2-pentanone (MIBK)	47.2	50.0	94	64-134
Toluene	11.1	10.0	111	69-124
trans-1,3-Dichloropropene	9.88	10.0	99	59-125
1,1,2-Trichloroethane	9.62	10.0	96	74-118
Tetrachloroethene (PCE)	9.97	10.0	100	62-126
2-Hexanone	45.9	50.0	92	59-131
Dibromochloromethane	9.50	10.0	95	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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1212117  
**Date Extracted:** 12/03/2012  
**Date Analyzed:** 12/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214234

Lab Control Sample  
 KWG1214234-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	9.56	10.0	96	74-118
Chlorobenzene	9.99	10.0	100	72-116
Ethylbenzene	10.7	10.0	107	67-121
1,1,1,2-Tetrachloroethane	10.4	10.0	104	66-124
m,p-Xylenes	22.3	20.0	111	69-121
o-Xylene	10.9	10.0	109	71-119
Styrene	11.1	10.0	111	74-121
Bromoform	9.28	10.0	93	52-144
cis-1,4-Dichloro-2-butene	28.5	30.0	95	26-171
1,1,2,2-Tetrachloroethane	8.09	10.0	81	70-127
trans-1,4-Dichloro-2-butene	23.5	30.0	78	46-170
1,2,3-Trichloropropane	8.27	10.0	83	69-123
1,4-Dichlorobenzene	8.86	10.0	89	73-115
1,2-Dichlorobenzene	8.86	10.0	89	72-115
1,2-Dibromo-3-chloropropane	8.82	10.0	88	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

QA/QC Report

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

**Service Request:** K1212117  
**Date Extracted:** 12/03/2012  
**Date Analyzed:** 12/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214240

Lab Control Sample  
 KWG1214240-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	8.22	10.0	82	32-124
Chloromethane	9.35	10.0	94	34-130
Vinyl Chloride	9.95	10.0	100	55-123
Bromomethane	8.24	10.0	82	35-113
Chloroethane	9.87	10.0	99	58-134
Trichlorofluoromethane	8.15	10.0	82	52-141
1,1-Dichloroethene	9.78	10.0	98	66-129
Acetone	84.9	50.0	170 *	68-135
Iodomethane	29.5	30.0	98	51-164
Carbon Disulfide	19.3	20.0	96	46-144
Methylene Chloride	8.91	10.0	89	71-122
Acrylonitrile	44.2	40.0	111	65-129
trans-1,2-Dichloroethene	9.31	10.0	93	67-125
1,1-Dichloroethane	9.38	10.0	94	68-132
Vinyl Acetate	49.2	50.0	98	44-156
cis-1,2-Dichloroethene	9.17	10.0	92	71-118
2-Butanone (MEK)	52.7	50.0	105	71-149
Bromochloromethane	9.64	10.0	96	75-131
Chloroform	9.88	10.0	99	70-129
1,1,1-Trichloroethane (TCA)	9.43	10.0	94	59-136
Carbon Tetrachloride	9.14	10.0	91	55-140
Benzene	9.22	10.0	92	69-124
1,2-Dichloroethane (EDC)	9.11	10.0	91	56-142
Trichloroethene (TCE)	9.64	10.0	96	67-128
1,2-Dichloropropane	9.74	10.0	97	67-126
Dibromomethane	9.36	10.0	94	69-128
Bromodichloromethane	9.64	10.0	96	63-129
cis-1,3-Dichloropropene	9.89	10.0	99	62-132
4-Methyl-2-pentanone (MIBK)	50.0	50.0	100	64-134
Toluene	9.50	10.0	95	69-124
trans-1,3-Dichloropropene	9.52	10.0	95	59-125
1,1,2-Trichloroethane	10.4	10.0	104	74-118
Tetrachloroethene (PCE)	9.79	10.0	98	62-126
2-Hexanone	52.1	50.0	104	59-131
Dibromochloromethane	9.95	10.0	100	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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1212117  
**Date Extracted:** 12/03/2012  
**Date Analyzed:** 12/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214240

Lab Control Sample  
 KWG1214240-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	9.66	10.0	97	74-118
Chlorobenzene	9.91	10.0	99	72-116
Ethylbenzene	9.60	10.0	96	67-121
1,1,1,2-Tetrachloroethane	10.0	10.0	100	66-124
m,p-Xylenes	20.0	20.0	100	69-121
o-Xylene	9.70	10.0	97	71-119
Styrene	10.2	10.0	102	74-121
Bromoform	9.93	10.0	99	52-144
cis-1,4-Dichloro-2-butene	33.4	30.0	111	26-171
1,1,2,2-Tetrachloroethane	10.0	10.0	100	70-127
trans-1,4-Dichloro-2-butene	30.2	30.0	101	46-170
1,2,3-Trichloropropane	10.2	10.0	102	69-123
1,4-Dichlorobenzene	10.4	10.0	104	73-115
1,2-Dichlorobenzene	10.2	10.0	102	72-115
1,2-Dibromo-3-chloropropane	10.4	10.0	104	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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1212117  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-11 **Units:** ng/L  
**Lab Code:** K1212117-001 **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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	136	77-123	12/04/12	Outside Control Limits
Toluene-d8	91	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	73	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-12b **Units:** ng/L  
**Lab Code:** K1212117-002 **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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	125	77-123	12/04/12	Outside Control Limits
Toluene-d8	94	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-14b  
**Lab Code:** K1212117-003  
**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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	135	77-123	12/04/12	Outside Control Limits
Toluene-d8	92	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-15  
**Lab Code:** K1212117-004  
**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	760		20	1	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	135	77-123	12/04/12	Outside Control Limits
Toluene-d8	91	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	73	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1212117  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214307-4  
**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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	12/04/12	Acceptable
Toluene-d8	95	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117

**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-11	K1212117-001	136 *	91	73
MW-12b	K1212117-002	125 *	94	75
MW-14b	K1212117-003	135 *	92	75
MW-15	K1212117-004	135 *	91	73
Method Blank	KWG1214307-4	121	95	75
MW-12bMS	KWG1214307-1	123	96	112
MW-12bDMS	KWG1214307-2	118	98	109
Lab Control Sample	KWG1214307-3	116	99	109

**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.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Extracted:** 12/04/2012  
**Date Analyzed:** 12/04/2012

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

**Sample Name:** MW-12b  
**Lab Code:** K1212117-002  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C SIM

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214307

Analyte Name	Sample Result	MW-12bMS KWG1214307-1 Matrix Spike			MW-12bDMS KWG1214307-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	1780	2000	89	1620	2000	81	70-130	9	30

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

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

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1212117  
**Date Extracted:** 12/04/2012  
**Date Analyzed:** 12/04/2012

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

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

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214307

Lab Control Sample  
KWG1214307-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2020	2000	101	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.



January 8, 2013

Analytical Report for Service Request No: K1211920

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

**RE: Sudbury Road Landfill RI**

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on November 29, 2012. For your reference, these analyses have been assigned our service request number K1211920.

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/ln

Page 1 of 76



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## 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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request No.:** K1211920  
**Date Received:** 11/28/12

### 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: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

### Sample Receipt

Eight samples were received for analysis at ALS Environmental on 11/28/12. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

### General Chemistry Parameters

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

### Dissolved Metals

#### **Matrix Spike Recovery Exceptions:**

The control criteria for matrix spike recovery of Calcium and Magnesium for the Batch QC1 sample were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

### 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) MS18\1203F005.D: Bromomethane and Iodomethane. In accordance with the EPA Method 8270D, 80% or more of the CCV analytes must have passed within 20% of the true value. The remaining analytes are allowed a 40% difference as per the CAS SOP. The CCV met these criteria.

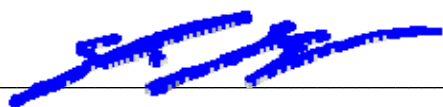
#### **Lab Control Sample Exceptions:**

The upper control criterion was exceeded for Chloromethane in Laboratory Control Sample (LCS) KWG12114234-3. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery indicated a high bias. The sample data was not significantly affected. No further corrective action was appropriate.

#### **Surrogate Exceptions:**

The recovery of Dibromofluoromethane in all field samples was outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

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



Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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

SR# 101211920  
PAGE 1 OF 1

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-5	11/27/12	1600			6	X	X									
MW-9	↓	1700			6	X	X									
MW-10	↓	1630			6	X	X									
Schmidt	11/28/12	1006			6	X	X									
Small	↓	1035			6	X	X									
Kinman	↓	1055			6	X	X									
Camp	↓	1123			6	X	X									
D15	↓	845			10	X	X		X							
Trip Blank																

<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> <input type="checkbox"/> I. Routine Report: Results, Method Blank Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required <input type="checkbox"/> III. Data Validation Report (includes raw data) <input type="checkbox"/> 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>RELINQUISHED BY:</b> Signature: <u>Craig Schwyn</u> Printed Name: Craig Schwyn Firm: Schwyn Environmental Services Date/Time: <u>11/28/12 1900</u>	<b>RECEIVED BY:</b> Signature: <u>[Signature]</u> Printed Name: <u>[Name]</u> Firm: <u>[Firm]</u> Date/Time: <u>11/29/12 1030</u>	<b>RELINQUISHED BY:</b> Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	<b>RECEIVED BY:</b> Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____
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Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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SR# K121920  
PAGE 1 OF 1

**Project Name:** City of Walla Walla Sudbury Road Landfill Remedial Investigation  
**Project Manager:** Craig Schwyn  
**Company:** Schwyn Environmental Services  
4621 South Custer Court  
Spokane, Washington 99223  
509-448-3187: Craig@schwynenviro.com  
**Sampler's Signature:** *Craig Schwyn*

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	Analysis Requested						REMARKS
						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		
MW-11	11/28/12	830				X	X	X	X			
MW-12	11/27	<del>845</del> 1500				X	X	X	X	*	Short Hold	
MW-14b	11/28	930				X	X	X	X			
MW-15	11/28	845				X	X	X	X			

**JRNAROUND REQUIREMENTS**  
 24 hr  48 hr  5 day  
 Standard (21 days)  
 Provide FAX Preliminary Results  
**Requested Report Date:** \_\_\_\_\_

**REPORT REQUIREMENTS**  
 I. Routine Report: Results, Method Blank Surrogate, as required  
 II. Report Dup., MS, MSD as required  
 III. Data Validation Report (includes raw data)  
 IV. CLP Deliverable Report  
 V. EDD

Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C

**RELINQUISHED BY:**  
 Signature: *Craig Schwyn*  
 Printed Name: Craig Schwyn  
 Firm: Schwyn Environmental Services  
 Date/Time: 11/28/12 1400

**RECEIVED BY:**  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Firm: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

**RELINQUISHED BY:**  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Firm: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

**RECEIVED BY:**  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Firm: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_



PC Shar

### Cooler Receipt and Preservation Form

Client / Project: Schwinn Service Request K12 11920  
 Received: 11/29/12 Opened: 11/29/12 By: SW Unloaded: 11/29/12 By: SW

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? \_\_\_\_\_  
 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
4.6	3.7	1.4	1.1	-0.3	294	<u>NA</u>	12 339 9W8 23 1000285		
1.0	0.8	4.2	4.0	-0.2	304		" " " " " 0176		

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:
<u>MW-12b</u>	<u>MW-12</u>	<u>Times collected</u>

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
<b>SHORT HOLD TIME</b>											

Notes, Discrepancies, & Resolutions: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1211920  
**Date Collected:** 11/28/12  
**Date Received:** 11/29/12

**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>
D15	K1211920-008	<b>123</b>	4.0	20	11/29/12 12:06	
Method Blank	K1211920-MB1	ND U	0.20	1	11/29/12 08:38	

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 11/29/12

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

**Sample Name:** Batch QC  
**Lab Code:** K1212117-002

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

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>
				<b>K1212117-002DUP Result</b>			
Chloride	300.0	4.0	133	133	133	<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.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** N/A  
**Date Received:** N/A  
**Date Analyzed:** 11/29/12

**Duplicate Matrix Spike Summary  
Chloride**

**Sample Name:** Batch QC  
**Lab Code:** K1212117-002  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1212117-002MS		Duplicate Matrix Spike K1212117-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	133	238	100	105	236	100	103	90-110	<1	20

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

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

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1211920  
**Date Analyzed:**11/29/12

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

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320369

<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	K1211920-LCS1	4.84	5.00	97	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1211920  
**Date Collected:** 11/28/12  
**Date Received:** 11/29/12  
**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>
D15	K1211920-008	<b>8.1</b>	1.0	20	11/29/12 12:06	
Method Blank	K1211920-MB1	ND U	0.050	1	11/29/12 08:38	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 11/29/12

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

**Sample Name:** Batch QC **Units:** mg/L  
**Lab Code:** K1212117-002 **Basis:** NA

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample K1212117-002DUP Result</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>
Nitrate as Nitrogen	300.0	1.0	11.3	11.1	11.2	2	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.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** N/A  
**Date Received:** N/A  
**Date Analyzed:** 11/29/12

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

**Sample Name:** Batch QC  
**Lab Code:** K1212117-002  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1212117-002MS		Duplicate Matrix Spike K1212117-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	11.3	114	100	103	114	100	102	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.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1211920  
**Date Analyzed:**11/29/12

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

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320369

<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	K1211920-LCS1	18.0	17.7	102	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1211920  
**Date Collected:** 11/28/12  
**Date Received:** 11/29/12  
**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>
D15	K1211920-008	<b>38.6</b>	2.0	20	11/29/12 12:06	
Method Blank	K1211920-MB1	ND U	0.10	1	11/29/12 08:38	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 11/29/12

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

**Sample Name:** Batch QC  
**Lab Code:** K1212117-002

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

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				K1212117-002DUP Result			
Sulfate	300.0	2.0	32.6	32.6	32.6	<1	20

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

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** N/A  
**Date Received:** N/A  
**Date Analyzed:** 11/29/12

**Duplicate Matrix Spike Summary  
Sulfate**

**Sample Name:** Batch QC  
**Lab Code:** K1212117-002  
**Analysis Method:** 300.0

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

Analyte Name	Sample Result	Result	Matrix Spike K1212117-002MS		Duplicate Matrix Spike K1212117-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	32.6	136	100	104	136	100	103	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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1211920

**Date Analyzed:**11/29/12

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

**Analysis Method:** 300.0

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320369

<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	K1211920-LCS1	4.84	5.00	97	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

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

**Service Request:** K1211920  
**Date Collected:** 11/28/12  
**Date Received:** 11/29/12

**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>
D15	K1211920-008	<b>505</b>	9.0	1	11/30/12 19:55	
Method Blank	K1211920-MB1	ND U	9.0	1	11/30/12 22:19	
Method Blank	K1211920-MB2	ND U	9.0	1	11/30/12 15:56	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** mg/L  
**Basis:** NA

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

<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>
Batch QC	K1211882-001DUP	9.0	37.7	38.5	38.1	2	20	11/30/12
Batch QC	K1212117-002DUP	9.0	274	273	274	<1	20	11/30/12

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1211920

**Date Analyzed:**11/30/12

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

**Analysis Method:** SM 2320 B

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320472

<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	K1211920-LCS1	121	122	99	90-110
Lab Control Sample	K1211920-LCS2	124	122	102	90-110

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Report

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

**Service Request:** K1211920  
**Date Collected:** 11/28/12  
**Date Received:** 11/29/12

**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>
D15	K1211920-008	<b>856</b>	13	1	12/03/12 15:00	
Method Blank	K1211920-MB1	ND U	5.0	1	12/03/12 15:00	
Method Blank	K1211920-MB2	ND U	5.0	1	12/03/12 15:00	
Method Blank	K1211920-MB3	ND U	5.0	1	12/03/12 15:00	

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QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 12/03/12

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

**Sample Name:** Batch QC  
**Lab Code:** K1211988-001

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

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1211988-001DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	10	443	455	449	3	10

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

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1211920  
**Date Analyzed:**12/03/12

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

**Analysis Method:** SM 2540 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320835

<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	K1211920-LCS1	1820	1810	101	90-108
Lab Control Sample	K1211920-LCS2	1840	1810	102	90-108

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

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

**Service Request:** K1211920  
**Date Collected:** 11/28/12  
**Date Received:** 11/29/12

**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>
D15	K1211920-008	ND U	0.050	1	12/04/12 09:30	
Method Blank	K1211920-MB1	ND U	0.050	1	12/04/12 09:30	



**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 12/04/12

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

**Sample Name:** Batch QC  
**Lab Code:** K1212117-002

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

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1212117-002DUP 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.**

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QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** N/A  
**Date Received:** N/A  
**Date Analyzed:** 12/4/12

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

**Sample Name:** Batch QC  
**Lab Code:** K1212117-002  
**Analysis Method:** SM 4500-NH3 E

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

**Matrix Spike**  
K1212117-002MS

<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	9.93	10.0	99	80-115

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**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:**K1211920  
**Date Analyzed:**12/04/12

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

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

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**321265

<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	K1211920-LCS1	10.7	10.9	98	80-115

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Report

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

**Service Request:** K1211920  
**Date Collected:** 11/28/12  
**Date Received:** 11/29/12

**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>
D15	K1211920-008	<b>1.13</b>	0.50	1	11/30/12 21:00	
Method Blank	K1211920-MB1	ND U	0.50	1	11/30/12 21:00	
Method Blank	K1211920-MB2	ND U	0.50	1	11/30/12 21:00	
Method Blank	K1211920-MB3	ND U	0.50	1	11/30/12 21:00	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

**Service Request:** K1211920  
**Date Collected:** 11/28/12  
**Date Received:** 11/29/12  
**Date Analyzed:** 11/30/12

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

**Sample Name:** D15  
**Lab Code:** K1211920-008

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

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1211920-008DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Carbon, Total Organic	SM 5310 C	0.50	1.13	1.03	1.08	9	10

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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:**K1211920  
**Date Collected:**N/A  
**Date Received:**N/A  
**Date Analyzed:**11/30/12

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

**Sample Name:** Batch QC  
**Lab Code:** K1211560-009  
**Analysis Method:** SM 5310 C

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

**Matrix Spike**  
K1211560-009MS

<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	1.16	26.3	25.0	101	83-117

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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QA/QC Report

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

**Service Request:**K1211920  
**Date Analyzed:**11/30/12

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

**Analysis Method:** SM 5310 C

**Units:**mg/L

**Basis:**NA

**Analysis Lot:**320582

<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	K1211920-LCS1	22.9	22.7	101	83-117
Lab Control Sample	K1211920-LCS2	22.8	22.7	100	83-117
Lab Control Sample	K1211920-LCS3	22.5	22.7	99	83-117

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**INORGANIC ANALYSIS DATA PACKAGE**

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

**Service Request:** K1211920

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**Sample Name:**

**D15**

**Method Blank**

**Batch QC1D**

**Batch QC1S**

**Lab Code:**

**K1211920-008DISS**

**K1211920-MB**

**K1212117-002DISSD**

**K1212117-002DISSS**

**Comments:**



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1211920  
**Project No.:** NA      **Date Collected:** 11/28/12  
**Project Name:** Sudbury Road Landfill RI      **Date Received:** 11/29/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** D15      **Lab Code:** K1211920-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	157000		
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	49600		
Manganese	6010C	5.00	1.0	12/04/12	12/12/12	45.9		
Potassium	6010C	400	1.0	12/04/12	12/12/12	8520		
Sodium	6010C	200	1.0	12/04/12	12/12/12	64500		

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1211920  
**Project No.:** NA      **Date Collected:**  
**Project Name:** Sudbury Road Landfill RI      **Date Received:**  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** Method Blank      **Lab Code:** K1211920-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	50.0	U	
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Manganese	6010C	5.00	1.0	12/04/12	12/12/12	5.00	U	
Potassium	6010C	400	1.0	12/04/12	12/12/12	400	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	289		

Comments:

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

**Client:** Schwyn Environmental Services      **Service Request:** K1211920  
**Project No.:** NA      **Units:** UG/L  
**Project Name:** Sudbury Road Landfill RI      **Basis:** NA  
**Matrix:** WATER

**Sample Name:** Batch QC1S

**Lab Code:** K1212117-002DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Calcium		115000		106000		10000.00	90.0		6010C
Iron	75 - 125	970		20.0	U	1000.00	97.0		6010C
Magnesium		56800		48700		10000.00	81.0		6010C
Manganese	84 - 121	469		5.00	U	500.00	93.8		6010C
Potassium	75 - 125	17500		7760		10000.00	97.4		6010C
Sodium	75 - 125	39300		29900		10000.00	94.0		6010C

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

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**Metals**

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**DUPLICATES****Client:** Schwyn Environmental Services**Service Request:** K1211920**Project No.:** NA**Units:** UG/L**Project Name:** Sudbury Road Landfill RI**Basis:** NA**Matrix:** WATER**Sample Name:** Batch QC1D**Lab Code:** K1212117-002DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	106000		105000		0.9		6010C
Iron		20.0	U	20.0	U			6010C
Magnesium	20	48700		48300		0.8		6010C
Manganese		5.00	U	5.00	U			6010C
Potassium	20	7760		7700		0.8		6010C
Sodium	20	29900		29600		1.0		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:** K1211920

**Project No.:** NA

**Project Name:** Sudbury Road Landfill RI

**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	2450	98.0					
Magnesium	12500	12400	99.2					
Manganese	1250	1210	96.8					
Potassium	12500	12300	98.4					
Sodium	12500	12500	100.0					

**COLUMBIA ANALYTICAL SERVICES, INC.**

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Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-5  
**Lab Code:** K1211920-001  
**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	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	<b>0.74</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	<b>1.9</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	<b>0.76</b>		0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-5  
**Lab Code:** K1211920-001  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	73-122	12/03/12	Acceptable
Toluene-d8	96	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	93	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-9  
**Lab Code:** K1211920-002  
**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	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	<b>1.0</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	<b>1.7</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	<b>0.54</b>		0.50	1	12/03/12	12/03/12	KWG1214234	

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-9  
**Lab Code:** K1211920-002  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	73-122	12/03/12	Acceptable
Toluene-d8	98	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	92	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-10  
**Lab Code:** K1211920-003  
**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	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	<b>2.1</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	<b>0.68</b>		0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-10  
**Lab Code:** K1211920-003  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	12/03/12	Acceptable
Toluene-d8	97	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	90	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Schmidt  
**Lab Code:** K1211920-004  
**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	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Schmidt  
**Lab Code:** K1211920-004  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	12/03/12	Acceptable
Toluene-d8	97	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	94	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Small  
**Lab Code:** K1211920-005  
**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	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	<b>0.66</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	<b>0.62</b>		0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	<b>1.5</b>		0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Small  
**Lab Code:** K1211920-005  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	73-122	12/03/12	Acceptable
Toluene-d8	98	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	89	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Kinman  
**Lab Code:** K1211920-006  
**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	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Kinman  
**Lab Code:** K1211920-006  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	12/03/12	Acceptable
Toluene-d8	97	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	96	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Camp  
**Lab Code:** K1211920-007  
**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	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	<b>0.50</b>		0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Camp  
**Lab Code:** K1211920-007  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	73-122	12/03/12	Acceptable
Toluene-d8	99	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	94	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** D15  
**Lab Code:** K1211920-008  
**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	2.8		0.50	1	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	0.80		0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	0.58		0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	0.68		0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	4.1		0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	12		0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	2.1		0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	5.5		0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** D15  
**Lab Code:** K1211920-008  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	73-122	12/03/12	Acceptable
Toluene-d8	97	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	89	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214234-4  
**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	12/03/12	12/03/12	KWG1214234	
Chloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Vinyl Chloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	*
Chloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichlorofluoromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Acetone	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Iodomethane	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	*
Carbon Disulfide	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Methylene Chloride	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Acrylonitrile	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1-Dichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Vinyl Acetate	ND	U	5.0	1	12/03/12	12/03/12	KWG1214234	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
2-Butanone (MEK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Bromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Chloroform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Carbon Tetrachloride	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Benzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Trichloroethene (TCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Dibromomethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromodichloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/03/12	12/03/12	KWG1214234	
Toluene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,2-Trichloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Tetrachloroethene (PCE)	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214234-4  
**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	12/03/12	12/03/12	KWG1214234	
Dibromochloromethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	
Chlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Ethylbenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
m,p-Xylenes	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
o-Xylene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Styrene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
Bromoform	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
cis-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
trans-1,4-Dichloro-2-butene	ND	U	10	1	12/03/12	12/03/12	KWG1214234	
1,2,3-Trichloropropane	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,4-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dichlorobenzene	ND	U	0.50	1	12/03/12	12/03/12	KWG1214234	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/03/12	12/03/12	KWG1214234	

\* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	73-122	12/03/12	Acceptable
Toluene-d8	97	65-144	12/03/12	Acceptable
4-Bromofluorobenzene	93	68-117	12/03/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211920

**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	K1211920-001	102	96	93
MW-9	K1211920-002	100	98	92
MW-10	K1211920-003	96	97	90
Schmidt	K1211920-004	98	97	94
Small	K1211920-005	100	98	89
Kinman	K1211920-006	99	97	96
Camp	K1211920-007	105	99	94
D15	K1211920-008	102	97	89
Batch QC	K1211927-002	97	95	93
Method Blank	KWG1214234-4	101	97	93
Batch QCMS	KWG1214234-1	100	100	102
Batch QCDMS	KWG1214234-2	99	102	101
Lab Control Sample	KWG1214234-3	100	99	93

**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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1211920  
**Date Extracted:** 12/03/2012  
**Date Analyzed:** 12/03/2012

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

**Sample Name:** Batch QC  
**Lab Code:** K1211927-002  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214234

Analyte Name	Sample Result	Batch QCMS KWG1214234-1 Matrix Spike			Batch QCDMS KWG1214234-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	7.67	10.0	77	7.86	10.0	79	49-136	2	30
1,1-Dichloroethene	ND	8.81	10.0	88	9.00	10.0	90	59-171	2	30
Chloroform	ND	10.0	10.0	100	9.61	10.0	96	64-133	4	30
Carbon Tetrachloride	ND	9.43	10.0	94	9.69	10.0	97	53-161	3	30
Benzene	ND	8.95	10.0	90	8.93	10.0	89	63-144	0	30
Trichloroethene (TCE)	ND	9.35	10.0	94	9.13	10.0	91	53-139	2	30
Bromodichloromethane	ND	10.1	10.0	101	10.1	10.0	101	61-134	0	30
Toluene	ND	10.8	10.0	108	10.9	10.0	109	71-136	0	30
1,1,2-Trichloroethane	ND	9.27	10.0	93	9.47	10.0	95	74-124	2	30
2-Hexanone	ND	43.1	50.0	86	46.9	50.0	94	53-132	8	30
Chlorobenzene	ND	9.32	10.0	93	9.40	10.0	94	69-126	1	30
Ethylbenzene	ND	9.57	10.0	96	9.48	10.0	95	66-136	1	30
1,2,3-Trichloropropane	ND	8.12	10.0	81	8.46	10.0	85	71-127	4	30
1,2-Dichlorobenzene	ND	8.36	10.0	84	8.53	10.0	85	72-119	2	30

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

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

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211920  
**Date Extracted:** 12/03/2012  
**Date Analyzed:** 12/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214234

Lab Control Sample  
 KWG1214234-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	8.77	10.0	88	32-124
Chloromethane	15.2	10.0	152 *	34-130
Vinyl Chloride	10.1	10.0	101	55-123
Bromomethane	7.05	10.0	71	35-113
Chloroethane	11.6	10.0	116	58-134
Trichlorofluoromethane	10.2	10.0	102	52-141
1,1-Dichloroethene	10.8	10.0	108	66-129
Acetone	55.9	50.0	112	68-135
Iodomethane	26.9	30.0	90	51-164
Carbon Disulfide	26.4	20.0	132	46-144
Methylene Chloride	10.4	10.0	104	71-122
Acrylonitrile	40.3	40.0	101	65-129
trans-1,2-Dichloroethene	10.8	10.0	108	67-125
1,1-Dichloroethane	10.8	10.0	108	68-132
Vinyl Acetate	50.6	50.0	101	44-156
cis-1,2-Dichloroethene	10.2	10.0	102	71-118
2-Butanone (MEK)	54.9	50.0	110	71-149
Bromochloromethane	11.1	10.0	111	75-131
Chloroform	11.1	10.0	111	70-129
1,1,1-Trichloroethane (TCA)	12.2	10.0	122	59-136
Carbon Tetrachloride	11.9	10.0	119	55-140
Benzene	10.3	10.0	103	69-124
1,2-Dichloroethane (EDC)	9.91	10.0	99	56-142
Trichloroethene (TCE)	11.2	10.0	112	67-128
1,2-Dichloropropane	10.6	10.0	106	67-126
Dibromomethane	10.3	10.0	103	69-128
Bromodichloromethane	11.1	10.0	111	63-129
cis-1,3-Dichloropropene	11.9	10.0	119	62-132
4-Methyl-2-pentanone (MIBK)	47.2	50.0	94	64-134
Toluene	11.1	10.0	111	69-124
trans-1,3-Dichloropropene	9.88	10.0	99	59-125
1,1,2-Trichloroethane	9.62	10.0	96	74-118
Tetrachloroethene (PCE)	9.97	10.0	100	62-126
2-Hexanone	45.9	50.0	92	59-131
Dibromochloromethane	9.50	10.0	95	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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1211920  
**Date Extracted:** 12/03/2012  
**Date Analyzed:** 12/03/2012

**Lab Control Spike Summary  
 Volatile Organic Compounds**

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

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214234

Lab Control Sample  
 KWG1214234-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	9.56	10.0	96	74-118
Chlorobenzene	9.99	10.0	100	72-116
Ethylbenzene	10.7	10.0	107	67-121
1,1,1,2-Tetrachloroethane	10.4	10.0	104	66-124
m,p-Xylenes	22.3	20.0	111	69-121
o-Xylene	10.9	10.0	109	71-119
Styrene	11.1	10.0	111	74-121
Bromoform	9.28	10.0	93	52-144
cis-1,4-Dichloro-2-butene	28.5	30.0	95	26-171
1,1,2,2-Tetrachloroethane	8.09	10.0	81	70-127
trans-1,4-Dichloro-2-butene	23.5	30.0	78	46-170
1,2,3-Trichloropropane	8.27	10.0	83	69-123
1,4-Dichlorobenzene	8.86	10.0	89	73-115
1,2-Dichlorobenzene	8.86	10.0	89	72-115
1,2-Dibromo-3-chloropropane	8.82	10.0	88	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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1211920  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-5  
**Lab Code:** K1211920-001  
**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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	128	77-123	12/04/12	Outside Control Limits
Toluene-d8	94	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	74	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-9 **Units:** ng/L  
**Lab Code:** K1211920-002 **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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	128	77-123	12/04/12	Outside Control Limits
Toluene-d8	93	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/27/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** MW-10 **Units:** ng/L  
**Lab Code:** K1211920-003 **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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	130	77-123	12/04/12	Outside Control Limits
Toluene-d8	92	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	74	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Schmidt  
**Lab Code:** K1211920-004  
**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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	129	77-123	12/04/12	Outside Control Limits
Toluene-d8	92	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Small **Units:** ng/L  
**Lab Code:** K1211920-005 **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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	131	77-123	12/04/12	Outside Control Limits
Toluene-d8	93	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	74	46-118	12/04/12	Acceptable

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



**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Kinman  
**Lab Code:** K1211920-006  
**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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	130	77-123	12/04/12	Outside Control Limits
Toluene-d8	91	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	74	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** Camp  
**Lab Code:** K1211920-007  
**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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	132	77-123	12/04/12	Outside Control Limits
Toluene-d8	91	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** 11/28/2012  
**Date Received:** 11/29/2012

**Volatile Organic Compounds**

**Sample Name:** D15  
**Lab Code:** K1211920-008  
**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	940		20	1	12/12/12	12/12/12	KWG1214590	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	127	77-123	12/12/12	Outside Control Limits
Toluene-d8	96	74-112	12/12/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/12/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank **Units:** ng/L  
**Lab Code:** KWG1214307-4 **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	12/04/12	12/04/12	KWG1214307	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	12/04/12	Acceptable
Toluene-d8	95	74-112	12/04/12	Acceptable
4-Bromofluorobenzene	75	46-118	12/04/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

Analytical Results

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

**Service Request:** K1211920  
**Date Collected:** NA  
**Date Received:** NA

**Volatile Organic Compounds**

**Sample Name:** Method Blank  
**Lab Code:** KWG1214590-4  
**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	12/12/12	12/12/12	KWG1214590	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	122	77-123	12/12/12	Acceptable
Toluene-d8	98	74-112	12/12/12	Acceptable
4-Bromofluorobenzene	76	46-118	12/12/12	Acceptable

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

**COLUMBIA ANALYTICAL SERVICES, INC.**

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211920

**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	K1211920-001	128 *	94	74
MW-9	K1211920-002	128 *	93	75
MW-10	K1211920-003	130 *	92	74
Schmidt	K1211920-004	129 *	92	75
Small	K1211920-005	131 *	93	74
Kinman	K1211920-006	130 *	91	74
Camp	K1211920-007	132 *	91	75
D15	K1211920-008	127 *	96	75
Batch QC	K1211985-006	126 *	102	75
Method Blank	KWG1214307-4	121	95	75
Method Blank	KWG1214590-4	122	98	76
Batch QCMS	KWG1214590-1	112	105	110
Batch QCDMS	KWG1214590-2	112	106	109
Lab Control Sample	KWG1214307-3	116	99	109
Lab Control Sample	KWG1214590-3	113	102	114

**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:** Sudbury Road Landfill RI  
**Sample Matrix:** Water

**Service Request:** K1211920  
**Date Extracted:** 12/12/2012  
**Date Analyzed:** 12/12/2012

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

**Sample Name:** Batch QC  
**Lab Code:** K1211985-006  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C SIM

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214590

Analyte Name	Sample Result	Batch QCMS KWG1214590-1 Matrix Spike			Batch QCDMS KWG1214590-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	10600	10000	106	9940	10000	99	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.

Now part of the ALS Group

QA/QC Report

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

**Service Request:** K1211920  
**Date Extracted:** 12/04/2012  
**Date Analyzed:** 12/04/2012

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

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

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214307

Lab Control Sample  
KWG1214307-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2020	2000	101	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

QA/QC Report

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

**Service Request:** K1211920  
**Date Extracted:** 12/12/2012  
**Date Analyzed:** 12/12/2012

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

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

**Units:** ng/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1214590

Lab Control Sample  
KWG1214590-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2370	2000	119	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

- Cover Page -  
**INORGANIC ANALYSIS DATA PACKAGE**

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

**Service Request:** K1212117

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<u>Sample Name:</u>	<u>Lab Code:</u>
MW-11	K1212117-001DISS
MW-12b	K1212117-002DISS
MW-12bD	K1212117-002DISSD
MW-12bS	K1212117-002DISSS
MW-14b	K1212117-003DISS
MW-15	K1212117-004DISS
Method Blank	K1212117-MB

**Comments:**

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

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services      Service Request: K1212117  
Project No.: NA      Date Collected: 11/28/12  
Project Name: Sudbury Road Landfill RI      Date Received: 11/29/12  
Matrix: WATER      Units: ug/L  
Basis: NA

Sample Name: MW-11      Lab Code: K1212117-001DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	66.7		
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	89200		
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	35600		
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	5.0	U	
Nickel	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Potassium	6010C	400	1.0	12/04/12	12/12/12	8040		
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	37000		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2	1.0	12/04/12	12/12/12	2	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	12.6		
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:

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

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services      Service Request: K1212117  
Project No.: NA      Date Collected: 11/28/12  
Project Name: Sudbury Road Landfill RI      Date Received: 11/29/12  
Matrix: WATER      Units: ug/L  
Basis: NA

Sample Name: MW-12b      Lab Code: K1212117-002DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	72.3		
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	106000		
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	2.3		
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	48700		
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	5.0	U	
Nickel	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Potassium	6010C	400	1.0	12/04/12	12/12/12	7760		
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	29900		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2	1.0	12/04/12	12/12/12	2	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	14.2		
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Schwyn Environmental Services      **Service Request:** K1212117  
**Project No.:** NA      **Date Collected:** 11/28/12  
**Project Name:** Sudbury Road Landfill RI      **Date Received:** 11/29/12  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-14b

**Lab Code:** K1212117-003DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	69.6		
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	122000		
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	3.2		
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	50300		
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	5.0	U	
Nickel	6010C	2.0	1.0	12/04/12	12/12/12	2.6		
Potassium	6010C	400	1.0	12/04/12	12/12/12	7680		
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	18000		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2	1.0	12/04/12	12/12/12	2	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	15.8		
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1212117  
 Project No.: NA Date Collected: 11/28/12  
 Project Name: Sudbury Road Landfill RI Date Received: 11/29/12  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: MW-15 Lab Code: K1212117-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	195		
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	155000		
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	3.0		
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	48700		
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	47.4		
Nickel	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Potassium	6010C	400	1.0	12/04/12	12/12/12	8330		
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	60500		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2	1.0	12/04/12	12/12/12	2	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	14.2		
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:

**Metals**

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**INORGANIC ANALYSIS DATA PACKAGE**

Client: Schwyn Environmental Services Service Request: K1212117  
 Project No.: NA Date Collected:  
 Project Name: Sudbury Road Landfill RI Date Received:  
 Matrix: WATER Units: ug/L  
 Basis: NA

Sample Name: Method Blank Lab Code: K1212117-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Arsenic	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Barium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Beryllium	6010C	0.4	1.0	12/04/12	12/12/12	0.4	U	
Cadmium	6010C	0.5	1.0	12/04/12	12/12/12	0.5	U	
Calcium	6010C	50.0	1.0	12/04/12	12/12/12	50.0	U	
Chromium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Cobalt	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Copper	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Iron	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Lead	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Magnesium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Manganese	6010C	5.0	1.0	12/04/12	12/12/12	5.0	U	
Nickel	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Potassium	6010C	400	1.0	12/04/12	12/12/12	400	U	
Selenium	6010C	20.0	1.0	12/04/12	12/12/12	20.0	U	
Silver	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Sodium	6010C	200	1.0	12/04/12	12/12/12	289		
Thallium	6010C	10.0	1.0	12/04/12	12/12/12	10.0	U	
Tin	6010C	2	1.0	12/04/12	12/12/12	2	U	
Vanadium	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	
Zinc	6010C	2.0	1.0	12/04/12	12/12/12	2.0	U	

Comments:

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

**Client:** Schwyn Environmental Services      **Service Request:** K1212117  
**Project No.:** NA      **Units:** UG/L  
**Project Name:** Sudbury Road Landfill RI      **Basis:** NA  
**Matrix:** WATER

**Sample Name:** MW-12bS

**Lab Code:** K1212117-002DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	86 - 116	463		10.0	U	500.00	92.6		6010C
Arsenic	79 - 121	1010		10.0	U	1000.00	101.0		6010C
Barium	80 - 124	2070		72.3		2000.00	99.9		6010C
Beryllium	87 - 114	48.1		0.4	U	50.00	96.2		6010C
Cadmium	75 - 125	46.8		0.5	U	50.00	93.6		6010C
Calcium		115000		106000		10000.00	90.0		6010C
Chromium	89 - 117	197		2.0	U	200.00	98.5		6010C
Cobalt	88 - 117	465		2.0	U	500.00	93.0		6010C
Copper	86 - 113	230		2.3		250.00	91.1		6010C
Iron	75 - 125	970		20.0	U	1000.00	97.0		6010C
Lead	75 - 125	457		10.0	U	500.00	91.4		6010C
Magnesium		56800		48700		10000.00	81.0		6010C
Manganese	84 - 121	469		5.0	U	500.00	93.8		6010C
Nickel	86 - 120	458		2.0	U	500.00	91.6		6010C
Potassium	75 - 125	17500		7760		10000.00	97.4		6010C
Selenium	82 - 119	920		20.0	U	1000.00	92.0		6010C
Silver	79 - 120	47.2		2.0	U	50.00	94.4		6010C
Sodium	75 - 125	39300		29900		10000.00	94.0		6010C
Thallium	75 - 125	922		10.0	U	1000.00	92.2		6010C
Tin	75 - 125	10100		2	U	10000.00	101.0		6010C
Vanadium	89 - 115	516		14.2		500.00	100.4		6010C
Zinc	87 - 113	469		2.0	U	500.00	93.8		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: K1212117

Project No.: NA

Units: UG/L

Project Name: Sudbury Road Landfill RI

Basis: NA

Matrix: WATER

Sample Name: MW-12bD

Lab Code: K1212117-002DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		10.0	U	10.0	U			6010C
Arsenic		10.0	U	10.0	U			6010C
Barium	20	72.3		72.8		0.7		6010C
Beryllium		0.4	U	0.4	U			6010C
Cadmium		0.5	U	0.5	U			6010C
Calcium	20	106000		105000		0.9		6010C
Chromium		2.0	U	2.0	U			6010C
Cobalt		2.0	U	2.0	U			6010C
Copper		2.3		2.0	U	200.0		6010C
Iron		20.0	U	20.0	U			6010C
Lead		10.0	U	10.0	U			6010C
Magnesium	20	48700		48300		0.8		6010C
Manganese		5.0	U	5.0	U			6010C
Nickel		2.0	U	2.0	U			6010C
Potassium	20	7760		7700		0.8		6010C
Selenium		20.0	U	20.0	U			6010C
Silver		2.0	U	2.0	U			6010C
Sodium	20	29900		29600		1.0		6010C
Thallium		10.0	U	10.0	U			6010C
Tin		2	U	2	U			6010C
Vanadium	20	14.2		14.3		0.7		6010C
Zinc		2.0	U	2.0	U			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: K1212117

Project No.: NA

Project Name: Sudbury Road Landfill RI

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Antimony	2500	2370	94.8					
Arsenic	2500	2490	99.6					
Barium	5000	4940	98.8					
Beryllium	125	123	98.4					
Cadmium	1250	1200	96.0					
Calcium	12500	12400	99.2					
Chromium	500	493	98.6					
Cobalt	1250	1210	96.8					
Copper	625	593	94.9					
Iron	2500	2450	98.0					
Lead	2500	2360	94.4					
Magnesium	12500	12400	99.2					
Manganese	1250	1210	96.8					
Nickel	1250	1190	95.2					
Potassium	12500	12300	98.4					
Selenium	2500	2320	92.8					
Silver	625	582	93.1					
Sodium	12500	12500	100.0					
Thallium	2500	2340	93.6					
Tin	10000	9900	99.0					
Vanadium	1250	1240	99.2					
Zinc	1250	1210	96.8					