

Columbia Analytical Services

1317 South 13th. Kelso, WA 98626

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

SR# K1208016
PAGE 1 OF 2

Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation					Analysis Requested						
Project Manager: Craig Schwyn					Number of Containers	VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Chloride, Nitrate, Sulfate (Method 300.0)] [Ca, Fe, Mg, Mn, K, Na (Method 6010C)] [Alkalinity (Method 2320B)] [Ammonia (SM 4500)] [TOC (Method 415.1)] [TDS (SM 2540C)]	(see below)	MS/MSD	REMARKS
Sample I.D.	Date	Time	LAB ID	Matrix							
MW-12.6	8/13/12	1300		Water	10	X	X	X			
MW-25		1400			10	X	X	X			
MW-17		1430			10	X	X	X			
MW-26		1500			10	X	X	X			
MW-146		1545			10	X	X	X			
MW-18		1630			10	X	X	X			
D-18		1630			10	X	X	X			
MW-15D		1740			20	X	X	X		X	
MW-15		1530			10	X	X	X		X	

RNAROUND 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
 H. 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
 O. # _____
 Bill to: Schwyn Environmental Services

RELINQUISHED BY:
 Signature: Craig Schwyn
 Printed Name: Craig Schwyn
 Firm: Schwyn Environmental Services
 Date/Time: 8/14/12 13:00

RECEIVED BY:
 Signature: EPS
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RELINQUISHED BY:
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RECEIVED BY:
 Signature: [Signature]
 Printed Name: D. Tolan
 Firm: ARS
 Date/Time: 8/15/12 952

Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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SR# 1120816
PAGE 2 OF 2

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	[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		
MW-11	8/14/12	8:30		W	10	X	X	X				
MW-215	↓	9:20		↓	10	X	X	X				
MW-210	↓	9:45		↓	10	X	X	X				
MW-225	↓	10:45		↓	10	X	X	X				
MW-220	↓	11:15		↓	10	X	X	X				

RNAROUND REQUIREMENTS
 24 hr 48 hr 5 day
 Standard (21 days)
 Provide FAX Preliminary Results
 requested Report Date: _____
 Invoice Information
 I.O. # _____
 Bill to: Schwyn Environmental Services

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: *8/14/12 1300*

RECEIVED BY:
 Signature: *UPS*
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RELINQUISHED BY:
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RECEIVED BY:
 Signature: *B. Rubin*
 Printed Name: *B. Rubin*
 Firm: *AS*
 Date/Time: *8/15/12 950*



PC Lisa

Cooler Receipt and Preservation Form

Client / Project: City of Wallawalla Service Request K12 8016

Received: 8/15/12 Opened: 8/15/12 By: BT Unloaded: 8/15/12 By: BT

- 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

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
5.0	3.2	300			123399W8231000014		
6.9	4.6	204			N/A		

- 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
MW-15D	1	40mL			X						
MW-15D	1	40mL		X							

Notes, Discrepancies, & Resolutions: _____

SHORT HOLD TIME

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2 Coolers
 SR# K1208080
 PAGE 1 OF 2

Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation					Analysis Requested											
Project Manager: Craig Schwyn					Number of Containers	VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Chloride, Nitrate, Sulfate (Method 300.0)]	[Ca, Fe, Mg, Mn, K, Na (Method 6010C)]	[Alkalinity (Method 2320B)]	[Ammonia (SM 4500)]	[TOC (Method 415.1)]	[TDS (SM 2540C)]	Dissolved Metals (see below)	MS/MSD	REMARKS
Sample I.D.	Date	Time	LAB ID	Matrix												
Comp	8/14/12	1500	1		6	X	X									
Kaman		1430	2		6	X	X									
Small		1413	3		6	X	X									
Schmidt		1340	4		6	X	X									
MW-16		1550	5	W	10	X	X			X						
MW-3		1630	6	W	10	X	X			X						
MW-5	8/15/12	830	7	W	10	X	X									
MW-9		915	8	W	10	X	X							X		
MW-10		9:50	9	W	6	X	X									
MW-23		1100	10	W	10	X	X			X						
MW-24		10:20	11	W	10	X	X			X						
MW-20		1200	12	W	10	X	X			X						

IRNAROUND 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: 8/15/2012 1400

RECEIVED BY:
 Signature: UPS
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RELINQUISHED BY:
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RECEIVED BY:
 Signature: [Signature]
 Printed Name: JWELL
 Firm: AFS
 Date/Time: 8/16/12 0945

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SR# K1208086
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	[Chloride, Nitrate, Sulfate (Method 300.0)] [Ca, Fe, Mg, Mn, K, Na (Method 6010C)] [Alkalinity (Method 2320B)]	[Ammonia (SM 4500)] [TOC (Method 415.1)] [TDS (SM 2540C)]	(see below)	MS/MSD	REMARKS
Company: Schwyn Environmental Services 4621 South Custer Court Spokane, Washington 99223 509-448-3187: Craig@schwynenviro.com												
Sampler's Signature: _____												
Sample I.D.	Date	Time	LAB ID	Matrix								
MW-19	8/15/12	12:30	13	W	10	X	X	X				

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

RELINQUISHED BY: Signature: <u>Craig Schwyn</u> Printed Name: Craig Schwyn Firm: Schwyn Environmental Services Date/Time: <u>8/15/12 1400</u>	RECEIVED BY: Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	RELINQUISHED BY: Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	RECEIVED BY: Signature: <u>Juell</u> Printed Name: <u>Juell</u> Firm: <u>ACS</u> Date/Time: <u>8/16/12 0945</u>
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Cooler Receipt and Preservation Form

Client / Project: C. of Walla Walla Service Request K12
 Received: 8/15/12 Opened: 8/15/12 By: AJ Unloaded: 8/15/12 By: AJ

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*

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
<u>leak</u>	<u>NA</u>	<u>309</u>	<input checked="" type="radio"/> <u>NA</u>	<u>123399W823 1000 0032</u>		
<u>0.5</u>	<u>3.5</u>	<u>300</u>		<u>123399W823 1000 0023</u>		

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
<u>MW-5</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-9</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-10</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-23</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-24</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-20</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								

Notes, Discrepancies, & Resolutions: Rec'd 6 vials for 15 8/15/12 0830 not on COC.
Rec'd 4 Trip blanks not on COC.

SHORT HOLD TIME



September 4, 2012

Analytical Report for Service Request No: K1208016

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

RE: Sudbury Road Landfill Remedial Investigation

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on August 15, 2012. For your reference, these analyses have been assigned our service request number K1208016.

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. 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 3291. You may also contact me via Email at Ed.Wallace@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Ed Wallace
Project Manager

EW/lg

Page 1 of 112



ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
Columbia Analytical Services, Inc.

Part of the ALS Group A Campbell Brothers Limited Company

Environmental 

www.caslab.com ■ 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**

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2286
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L12-28
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Georgia DNR	http://www.gaepd.org/Documents/techguide_pcb.html#cel	881
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
Indiana DOH	http://www.in.gov/isdh/24859.htm	C-WA-01
ISO 17025	http://www.pjlabs.com/	L12-27
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	3016
Louisiana DHH	Not available	LA110003
Maine DHS	Not available	WA0035
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-368
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA35
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
New Mexico ED	http://www.nmenv.state.nm.us/dwb/Index.htm	-
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA200001
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	4704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.caslab.com	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 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	Service Request No.:	K1208016
Project:	Sudbury Road Landfill Remedial Investigation	Date Received:	08/15/12
Sample Matrix:	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), and Laboratory Control Sample (LCS).

Sample Receipt

Fourteen water samples were received for analysis at ALS Environmental on 08/15/12. The samples were received in good condition and consistent with the accompanying chain of custody form, except as noted on the cooler receipt form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Total Organic Carbon by Standard Method 5310 C:

The Relative Percent Difference (RPD) criterion for the replicate analysis of Total Organic Carbon in samples MW-12b, MW-17, MW-15, MW-11 and MW-21s 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

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Calcium and Magnesium for sample MW-15D 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:

Bromomethane, Iodomethane, and Vinyl Acetate were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) J:\MS18\0820F005.D. Trichlorofluoromethane, Chloroform, 1,1,1-Trichloroethane (TCA), Carbon Tetrachloride, 1,2-Dichloroethane (EDC), Bromodichloromethane and cis-1,3-Dichloropropene were flagged as outside the upper control criterion for Continuing Calibration Verification (CCV) J:\MS18\0820F005.D. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

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

SR# K1208016
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 308.0)] [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-12.6	8/13/12	1300		Water	10	X	X	X			
MW-25		1400			10	X	X	X			
MW-17		1430			10	X	X	X			
MW-26		1500			10	X	X	X			
MW-146		1545			10	X	X	X			
MW-18		1630			10	X	X	X			
D-18		1630			10	X	X	X			
MW-15D	↓	1740			20	X	X	X		X	
MW-15	↓	1530			10	X	X	X		X	

RNAROUND 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
 H. 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
 O. # _____
 Bill to: Schwyn Environmental Services

RELINQUISHED BY:
 Signature: Craig Schwyn
 Printed Name: Craig Schwyn
 Firm: Schwyn Environmental Services
 Date/Time: 8/14/12 13:00

RECEIVED BY:
 Signature: EPS
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RELINQUISHED BY:
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RECEIVED BY:
 Signature: [Signature]
 Printed Name: D. Tolan
 Firm: ARS
 Date/Time: 8/15/12 952

Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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

SR# 1120816
PAGE 2 OF 2

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	[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		
MW-11	8/14/12	8:30		W	10	X	X	X				
MW-215	↓	9:20		↓	10	X	X	X				
MW-210	↓	9:45		↓	10	X	X	X				
MW-225	↓	10:45		↓	10	X	X	X				
MW-221	↓	11:15		↓	10	X	X	X				

RNAROUND REQUIREMENTS
 24 hr 48 hr 5 day
 Standard (21 days)
 Provide FAX Preliminary Results
 requested Report Date: _____
 Invoice Information
 I.O. # _____
 Bill to: Schwyn Environmental Services

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: 8/14/12 1:30

RECEIVED BY:
 Signature: *UPS*
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RELINQUISHED BY:
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RECEIVED BY:
 Signature: *B. Rubin*
 Printed Name: B. Rubin
 Firm: *AS*
 Date/Time: 8/15/12 9:50



PC Lisa

Cooler Receipt and Preservation Form

Client / Project: City of Wallawalla Service Request K12 8016

Received: 8/15/12 Opened: 8/15/12 By: BT Unloaded: 8/15/12 By: BT

- 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

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
5.0	3.2	300			123399W8231000014		
6.9	4.6	204			N/A		

- 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
MW-15D	1	40mL			X						
MW-15D	1	40mL		X							

Notes, Discrepancies, & Resolutions: _____

SHORT HOLD TIME

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Road Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1208016
Date Collected: 08/13/12 - 08/14/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1208016-001	135	4.0	20	08/15/12 12:29	
MW-25	K1208016-002	61.5	4.0	20	08/15/12 12:42	
MW-17	K1208016-003	136	4.0	20	08/15/12 12:54	
MW-26	K1208016-004	103	4.0	20	08/15/12 13:07	
MW-14b	K1208016-005	141	4.0	20	08/15/12 13:19	
MW-18	K1208016-006	152	4.0	20	08/15/12 13:32	
D-18	K1208016-007	151	4.0	20	08/15/12 13:44	
MW-15D	K1208016-008	131	4.0	20	08/15/12 13:57	
MW-15	K1208016-009	121	4.0	20	08/15/12 14:09	
MW-11	K1208016-010	85.1	4.0	20	08/15/12 14:22	
MW-21S	K1208016-011	139	4.0	20	08/15/12 15:50	
MW-21D	K1208016-012	147	4.0	20	08/15/12 16:03	
MW-22S	K1208016-013	153	4.0	20	08/15/12 16:15	
MW-22D	K1208016-014	154	4.0	20	08/15/12 16:28	
Method Blank	K1208016-MB1	ND U	0.20	1	08/15/12 07:28	
Method Blank	K1208016-MB2	ND U	0.20	1	08/15/12 17:30	
Method Blank	K1208016-MB3	ND U	0.20	1	08/15/12 22:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project Sudbury Road Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Duplicate Sample Summary
Chloride

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-17	K1208016-003DUP25	4.0	136	135	135	1	20	08/15/12
MW-15D	K1208016-008DUP30	4.0	131	131	131	<1	20	08/15/12

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.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/16/12

**Duplicate Matrix Spike Summary
 Chloride**

Sample Name: MW-17
Lab Code: K1208016-003
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208016-003MS6		Duplicate Matrix Spike K1208016-003DMS6		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	136	230	100	94	232	100	96	90-110	<1	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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/15/12

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-15D
Lab Code: K1208016-008
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208016-008MS7		Duplicate Matrix Spike K1208016-008DMS7		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	131	226	100	95	227	100	96	90-110	<1	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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Analyzed: 08/15/12

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 305017

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208016-LCS1	4.63	5.00	93	90-110
Lab Control Sample	K1208016-LCS2	4.58	5.00	92	90-110
Lab Control Sample	K1208016-LCS3	4.62	5.00	92	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Road Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1208016
Date Collected: 08/13/12 - 08/14/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1208016-001	9.4	1.0	20	08/15/12 12:29	
MW-25	K1208016-002	9.0	1.0	20	08/15/12 12:42	
MW-17	K1208016-003	9.9	1.0	20	08/15/12 12:54	
MW-26	K1208016-004	8.1	1.0	20	08/15/12 13:07	
MW-14b	K1208016-005	8.7	1.0	20	08/15/12 13:19	
MW-18	K1208016-006	9.4	1.0	20	08/15/12 13:32	
D-18	K1208016-007	9.3	1.0	20	08/15/12 13:44	
MW-15D	K1208016-008	10.5	1.0	20	08/15/12 13:57	
MW-15	K1208016-009	6.6	1.0	20	08/15/12 14:09	
MW-11	K1208016-010	7.9	1.0	20	08/15/12 14:22	
MW-21S	K1208016-011	9.6	1.0	20	08/15/12 15:50	
MW-21D	K1208016-012	10.3	1.0	20	08/15/12 16:03	
MW-22S	K1208016-013	9.2	1.0	20	08/15/12 16:15	
MW-22D	K1208016-014	10.1	1.0	20	08/15/12 16:28	
Method Blank	K1208016-MB1	ND U	0.050	1	08/15/12 07:28	
Method Blank	K1208016-MB2	ND U	0.050	1	08/15/12 17:30	
Method Blank	K1208016-MB3	ND U	0.050	1	08/15/12 22:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Road Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Duplicate Sample Summary

Nitrate as Nitrogen

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-17	K1208016-003DUP25	1.0	9.9	9.8	9.85	1	20	08/15/12
MW-15D	K1208016-008DUP30	1.0	10.5	10.5	10.5	<1	20	08/15/12

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.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/16/12

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-17
Lab Code: K1208016-003
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208016-003MS6		Duplicate Matrix Spike K1208016-003DMS6		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	9.9	110	100	100	110	100	100	90-110	<1	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/15/12

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-15D
Lab Code: K1208016-008
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208016-008MS7		Duplicate Matrix Spike K1208016-008DMS7		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	10.5	112	100	102	111	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: Sudbury Road Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Analyzed: 08/15/12

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 305017

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208016-LCS1	17.8	17.7	100	90-110
Lab Control Sample	K1208016-LCS2	17.6	17.7	100	90-110
Lab Control Sample	K1208016-LCS3	17.7	17.7	100	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Road Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1208016
Date Collected: 08/13/12 - 08/14/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1208016-001	32.6	2.0	20	08/15/12 12:29	
MW-25	K1208016-002	24.8	2.0	20	08/15/12 12:42	
MW-17	K1208016-003	28.9	2.0	20	08/15/12 12:54	
MW-26	K1208016-004	29.2	2.0	20	08/15/12 13:07	
MW-14b	K1208016-005	37.3	2.0	20	08/15/12 13:19	
MW-18	K1208016-006	32.5	2.0	20	08/15/12 13:32	
D-18	K1208016-007	32.7	2.0	20	08/15/12 13:44	
MW-15D	K1208016-008	30.1	2.0	20	08/15/12 13:57	
MW-15	K1208016-009	38.7	2.0	20	08/15/12 14:09	
MW-11	K1208016-010	27.5	2.0	20	08/15/12 14:22	
MW-21S	K1208016-011	32.4	2.0	20	08/15/12 15:50	
MW-21D	K1208016-012	30.9	2.0	20	08/15/12 16:03	
MW-22S	K1208016-013	33.6	2.0	20	08/15/12 16:15	
MW-22D	K1208016-014	32.5	2.0	20	08/15/12 16:28	
Method Blank	K1208016-MB1	ND U	0.10	1	08/15/12 07:28	
Method Blank	K1208016-MB2	ND U	0.10	1	08/15/12 17:30	
Method Blank	K1208016-MB3	ND U	0.10	1	08/15/12 22:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project Sudbury Road Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Duplicate Sample Summary
Sulfate

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-17	K1208016-003DUP25	2.0	28.9	29.4	29.2	2	20	08/15/12
MW-15D	K1208016-008DUP30	2.0	30.1	29.8	29.9	<1	20	08/15/12

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.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/16/12

**Duplicate Matrix Spike Summary
Sulfate**

Sample Name: MW-17
Lab Code: K1208016-003
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208016-003MS6		Duplicate Matrix Spike K1208016-003DMS6		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	28.9	123	100	94	123	100	94	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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/15/12

**Duplicate Matrix Spike Summary
Sulfate**

Sample Name: MW-15D
Lab Code: K1208016-008
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208016-008MS7		Duplicate Matrix Spike K1208016-008DMS7		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	30.1	125	100	95	124	100	94	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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Analyzed: 08/15/12

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 305017

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208016-LCS1	4.53	5.00	91	90-110
Lab Control Sample	K1208016-LCS2	4.56	5.00	91	90-110
Lab Control Sample	K1208016-LCS3	4.57	5.00	91	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Road Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 350.1

Service Request: K1208016
Date Collected: 08/13/12 - 08/14/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1208016-001	ND U	0.050	1	08/17/12 11:15	
MW-25	K1208016-002	ND U	0.050	1	08/17/12 11:15	
MW-17	K1208016-003	ND U	0.050	1	08/17/12 11:15	
MW-26	K1208016-004	ND U	0.050	1	08/17/12 11:15	
MW-14b	K1208016-005	ND U	0.050	1	08/17/12 11:15	
MW-18	K1208016-006	ND U	0.050	1	08/17/12 11:15	
D-18	K1208016-007	ND U	0.050	1	08/17/12 11:15	
MW-15D	K1208016-008	ND U	0.050	1	08/17/12 11:15	
MW-15	K1208016-009	ND U	0.050	1	08/17/12 11:15	
MW-11	K1208016-010	ND U	0.050	1	08/17/12 11:15	
MW-21S	K1208016-011	ND U	0.050	1	08/17/12 11:15	
MW-21D	K1208016-012	ND U	0.050	1	08/17/12 11:15	
MW-22S	K1208016-013	ND U	0.050	1	08/17/12 11:15	
MW-22D	K1208016-014	ND U	0.050	1	08/17/12 11:15	
Method Blank	K1208016-MB1	ND U	0.050	1	08/17/12 11:15	
Method Blank	K1208016-MB2	ND U	0.050	1	08/17/12 11:15	
Method Blank	K1208016-MB3	ND U	0.050	1	08/17/12 11:15	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/17/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-15D
Lab Code: K1208016-008

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1208016-008DUP30 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	350.1	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: Sudbury Road Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/17/12

**Duplicate Matrix Spike Summary
 Ammonia as Nitrogen**

Sample Name: MW-15D
Lab Code: K1208016-008
Analysis Method: 350.1

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208016-008MS7		Duplicate Matrix Spike K1208016-008DMS7		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Ammonia as Nitrogen	ND	1.98	2.00	99	1.99	2.00	100	90-110	<1	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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016

Date Analyzed: 08/17/12

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: 350.1

Units: mg/L

Basis: NA

Analysis Lot: 305487

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208016-LCS1	13.6	13.9	98	90-110
Lab Control Sample	K1208016-LCS2	13.6	13.9	98	90-110
Lab Control Sample	K1208016-LCS3	13.6	13.9	98	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1208016
Date Collected: 08/13/12 - 08/14/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1208016-001	282	9.0	1	08/20/12 12:22	
MW-25	K1208016-002	225	9.0	1	08/20/12 12:22	
MW-17	K1208016-003	292	9.0	1	08/20/12 12:22	
MW-26	K1208016-004	309	9.0	1	08/20/12 12:22	
MW-14b	K1208016-005	285	9.0	1	08/20/12 12:22	
MW-18	K1208016-006	321	9.0	1	08/20/12 12:22	
D-18	K1208016-007	316	9.0	1	08/20/12 12:22	
MW-15D	K1208016-008	288	9.0	1	08/20/12 12:22	
MW-15	K1208016-009	507	9.0	1	08/20/12 12:22	
MW-11	K1208016-010	271	9.0	1	08/20/12 12:22	
MW-21S	K1208016-011	297	9.0	1	08/20/12 12:22	
MW-21D	K1208016-012	291	9.0	1	08/20/12 12:22	
MW-22S	K1208016-013	309	9.0	1	08/20/12 12:22	
MW-22D	K1208016-014	300	9.0	1	08/20/12 12:22	
Method Blank	K1208016-MB1	ND U	9.0	1	08/20/12 12:22	
Method Blank	K1208016-MB2	ND U	9.0	1	08/20/12 12:22	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/20/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-15D
Lab Code: K1208016-008

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1208016-008DUP30 Result	Average	RPD	RPD Limit
Alkalinity as CaCO ₃ , Total	SM 2320 B	9.0	288	296	292	3	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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Analyzed: 08/20/12

Lab Control Sample Summary
Alkalinity as CaCO₃, Total

Analysis Method: SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 306081

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208016-LCS1	114	114	100	90-110
Lab Control Sample	K1208016-LCS2	112	114	98	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1208016
Date Collected: 08/13/12 - 08/14/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1208016-001	620	13	1	08/16/12 00:00	
MW-25	K1208016-002	452	13	1	08/16/12 00:00	
MW-17	K1208016-003	625	13	1	08/16/12 00:00	
MW-26	K1208016-004	598	10	1	08/16/12 00:00	
MW-14b	K1208016-005	680	13	1	08/16/12 00:00	
MW-18	K1208016-006	740	13	1	08/16/12 00:00	
D-18	K1208016-007	647	13	1	08/16/12 00:00	
MW-15D	K1208016-008	620	13	1	08/16/12 00:00	
MW-15	K1208016-009	845	13	1	08/16/12 00:00	
MW-11	K1208016-010	577	10	1	08/16/12 00:00	
MW-21S	K1208016-011	715	13	1	08/17/12 00:00	
MW-21D	K1208016-012	721	13	1	08/17/12 00:00	
MW-22S	K1208016-013	744	13	1	08/17/12 00:00	
MW-22D	K1208016-014	768	13	1	08/17/12 00:00	
Method Blank	K1208016-MB1	ND U	5.0	1	08/16/12 00:00	
Method Blank	K1208016-MB2	ND U	5.0	1	08/16/12 00:00	
Method Blank	K1208016-MB3	ND U	5.0	1	08/16/12 00:00	
Method Blank	K1208016-MB4	ND U	5.0	1	08/16/12 00:00	
Method Blank	K1208016-MB5	ND U	5.0	1	08/17/12 00:00	
Method Blank	K1208016-MB6	ND U	5.0	1	08/17/12 00:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/16/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-15D
Lab Code: K1208016-008

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1208016- 008DUP30 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	13	620	671	645	8	10

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208016

Date Analyzed: 08/16/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 305304

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208016-LCS1	1210	1240	97	90-108
Lab Control Sample	K1208016-LCS2	1210	1240	97	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016

Date Analyzed: 08/17/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 305444

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208016-LCS3	1250	1240	101	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1208016
Date Collected: 08/13/12 - 08/14/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1208016-001	0.58	0.50	1	08/15/12 17:23	
MW-25	K1208016-002	0.56	0.50	1	08/15/12 17:23	
MW-17	K1208016-003	0.66	0.50	1	08/15/12 17:23	
MW-26	K1208016-004	0.55	0.50	1	08/15/12 17:23	
MW-14b	K1208016-005	0.54	0.50	1	08/15/12 17:23	
MW-18	K1208016-006	0.58	0.50	1	08/15/12 17:23	
D-18	K1208016-007	0.57	0.50	1	08/15/12 17:23	
MW-15D	K1208016-008	0.52	0.50	1	08/15/12 17:23	
MW-15	K1208016-009	1.22	0.50	1	08/15/12 17:23	
MW-11	K1208016-010	0.63	0.50	1	08/15/12 17:23	
MW-21S	K1208016-011	0.64	0.50	1	08/15/12 17:23	
MW-21D	K1208016-012	0.51	0.50	1	08/15/12 17:23	
MW-22S	K1208016-013	0.55	0.50	1	08/15/12 17:23	
MW-22D	K1208016-014	0.50	0.50	1	08/15/12 17:23	
Method Blank	K1208016-MB1	ND U	0.50	1	08/15/12 17:23	
Method Blank	K1208016-MB2	ND U	0.50	1	08/15/12 17:23	
Method Blank	K1208016-MB3	ND U	0.50	1	08/17/12 18:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Collected: 08/13/12 - 08/14/12
Date Received: 08/15/12
Units: mg/L
Basis: NA

Duplicate Sample Summary
Carbon, Total Organic

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-12b	K1208016-001DUP23	0.50	0.58	0.69	0.635	16 *	10	08/15/12
MW-25	K1208016-002DUP24	0.50	0.56	0.52	0.541	9	10	08/15/12
MW-17	K1208016-003DUP25	0.50	0.66	0.59	0.624	12 *	10	08/15/12
MW-26	K1208016-004DUP26	0.50	0.55	0.51	0.527	8	10	08/15/12
MW-14b	K1208016-005DUP27	0.50	0.54	ND	NC	NC	10	08/15/12
MW-18	K1208016-006DUP28	0.50	0.58	0.58	0.581	<1	10	08/15/12
D-18	K1208016-007DUP29	0.50	0.57	0.57	0.568	<1	10	08/15/12
MW-15D	K1208016-008DUP30	0.50	0.52	ND	NC	NC	10	08/15/12
MW-15	K1208016-009DUP31	0.50	1.22	1.08	1.15	12 *	10	08/15/12
MW-11	K1208016-010DUP32	0.50	0.63	0.53	0.583	18 *	10	08/15/12
MW-21S	K1208016-011DUP33	0.50	0.64	0.55	0.595	17 *	10	08/15/12
MW-21D	K1208016-012DUP34	0.50	0.51	0.55	0.527	8	10	08/15/12
MW-22S	K1208016-013DUP35	0.50	0.55	0.52	0.534	6	10	08/15/12
MW-22D	K1208016-014DUP36	0.50	0.50	ND	NC	NC	10	08/15/12

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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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Collected: 08/13/12
Date Received: 08/15/12
Date Analyzed: 08/15/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name: MW-15D
Lab Code: K1208016-008
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Matrix Spike
K1208016-008MS8

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	0.52	26.0	25.0	102	83-117

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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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Analyzed: 08/15/12

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 305128

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208016-LCS1	21.2	22.7	93	83-117
Lab Control Sample	K1208016-LCS2	21.1	22.7	93	83-117

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208016
Date Analyzed: 08/17/12

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 305573

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208016-LCS3	22.4	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 Remedial Investigation
Project No.:

Service Request: K1208016

<u>Sample Name:</u>	<u>Lab Code:</u>
MW-12b	K1208016-001DISS
MW-25	K1208016-002DISS
MW-17	K1208016-003DISS
MW-26	K1208016-004DISS
MW-14b	K1208016-005DISS
MW-18	K1208016-006DISS
D-18	K1208016-007DISS
MW-15D	K1208016-008DISS
MW-15DD	K1208016-008DISSD
MW-15DS	K1208016-008DISSS
MW-15	K1208016-009DISS
MW-11	K1208016-010DISS
MW-21S	K1208016-011DISS
MW-21D	K1208016-012DISS
MW-22S	K1208016-013DISS
MW-22D	K1208016-014DISS
Method Blank	K1208016-MB

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/13/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-12b **Lab Code:** K1208016-001DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	103000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	44700		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	7190		
Sodium	6010C	200	1.0	08/22/12	08/25/12	28300		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/13/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-25 **Lab Code:** K1208016-002DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	73200		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	26100		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	671		
Potassium	6010C	400	1.0	08/22/12	08/25/12	7190		
Sodium	6010C	200	1.0	08/22/12	08/25/12	31000		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/13/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-17 **Lab Code:** K1208016-003DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	107000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	45600		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	14.6		
Potassium	6010C	400	1.0	08/22/12	08/25/12	7620		
Sodium	6010C	200	1.0	08/22/12	08/25/12	28600		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/13/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-26 **Lab Code:** K1208016-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	100000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	39300		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	8170		
Sodium	6010C	200	1.0	08/22/12	08/25/12	34200		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/13/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-14b **Lab Code:** K1208016-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	117000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	45900		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	16.5		
Potassium	6010C	400	1.0	08/22/12	08/25/12	7200		
Sodium	6010C	200	1.0	08/22/12	08/25/12	17100		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/13/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-18 **Lab Code:** K1208016-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	119000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	49200		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	7870		
Sodium	6010C	200	1.0	08/22/12	08/25/12	28500		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/13/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: D-18 **Lab Code:** K1208016-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	117000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	50700		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	8070		
Sodium	6010C	200	1.0	08/22/12	08/25/12	29300		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/13/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-15D **Lab Code:** K1208016-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	108000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	47100		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	7080		
Sodium	6010C	200	1.0	08/22/12	08/25/12	18400		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/13/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-15 **Lab Code:** K1208016-009DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	150000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	44500		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	42.8		
Potassium	6010C	400	1.0	08/22/12	08/25/12	7940		
Sodium	6010C	200	1.0	08/22/12	08/25/12	61100		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/14/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-11 **Lab Code:** K1208016-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	85500		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	31600		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	7380		
Sodium	6010C	200	1.0	08/22/12	08/25/12	35200		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/14/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-21S **Lab Code:** K1208016-011DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	114000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	46600		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	76.0		
Potassium	6010C	400	1.0	08/22/12	08/25/12	7680		
Sodium	6010C	200	1.0	08/22/12	08/25/12	26100		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/14/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-21D **Lab Code:** K1208016-012DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	115000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	50000		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	7510		
Sodium	6010C	200	1.0	08/22/12	08/25/12	19400		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/14/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-22S **Lab Code:** K1208016-013DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	118000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	49100		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	7800		
Sodium	6010C	200	1.0	08/22/12	08/25/12	25400		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Date Collected:** 08/14/12
Project Name: Sudbury Road Landfill Remedial I **Date Received:** 08/15/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-22D **Lab Code:** K1208016-014DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	117000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	49300		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	101		
Potassium	6010C	400	1.0	08/22/12	08/25/12	7390		
Sodium	6010C	200	1.0	08/22/12	08/25/12	18400		

Comments:

Metals
 - 5A -
SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services **Service Request:** K1208016
Project No.: NA **Units:** UG/L
Project Name: Sudbury Road Landfill Remedial I **Basis:** NA
Matrix: WATER

Sample Name: MW-15DS

Lab Code: K1208016-008DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Calcium		119000		108000		10000.00	110.0		6010C
Iron	75 - 125	960		20.0	U	1000.00	96.0		6010C
Magnesium		55000		47100		10000.00	79.0		6010C
Manganese	84 - 121	483		5.0	U	500.00	96.6		6010C
Potassium	75 - 125	16400		7080		10000.00	93.2		6010C
Sodium	75 - 125	27800		18400		10000.00	94.0		6010C

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

COLUMBIA ANALYTICAL SERVICES, INC.

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Metals

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DUPLICATES**Client:** Schwyn Environmental Services**Service Request:** K1208016**Project No.:** NA**Units:** UG/L**Project Name:** Sudbury Road Landfill Remedial I**Basis:** NA**Matrix:** WATER**Sample Name:** MW-15DD**Lab Code:** K1208016-008DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	108000		110000		1.8		6010C
Iron		20.0	U	20.0	U			6010C
Magnesium	20	47100		45900		2.6		6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	7080		7010		1.0		6010C
Sodium	20	18400		17900		2.8		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: K1208016

Project No.: NA

Project Name: Sudbury Road Landfill Remedial I

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	12100	96.8					
Iron	2500	2370	94.8					
Magnesium	12500	11800	94.4					
Manganese	1250	1230	98.4					
Potassium	12500	11800	94.4					
Sodium	12500	12200	97.6					

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1208016-001
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	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	1.0		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	0.79		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1208016-001
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	73-122	08/20/12	Acceptable
Toluene-d8	89	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	77	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1208016-002
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	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	1.7		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	0.64		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1208016-002
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	08/20/12	Acceptable
Toluene-d8	90	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	76	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1208016-003
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	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	1.0		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	0.66		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	0.58		0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	1.8		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1208016-003
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	08/20/12	Acceptable
Toluene-d8	92	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	79	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1208016-004
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	0.67		0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	1.1		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	1.3		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1208016-004
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	08/20/12	Acceptable
Toluene-d8	91	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	77	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1208016-005
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	0.61		0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	1.1		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	0.85		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1208016-005
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	08/20/12	Acceptable
Toluene-d8	91	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	75	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1208016-006
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.61		0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	1.2		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	0.65		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	1.1		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1208016-006
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	08/20/12	Acceptable
Toluene-d8	91	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	78	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: D-18
Lab Code: K1208016-007
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.63		0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	1.2		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	0.67		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	1.1		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: D-18
Lab Code: K1208016-007
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	08/20/12	Acceptable
Toluene-d8	90	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	80	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1208016-008
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	0.70		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	0.64		0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	1.0		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1208016-008
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	89	73-122	08/20/12	Acceptable
Toluene-d8	91	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	78	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1208016-009
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	2.7		0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	0.70		0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	0.61		0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	0.63		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	3.7		0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	11		0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	2.0		0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	5.1		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1208016-009
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	08/20/12	Acceptable
Toluene-d8	89	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	75	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1208016-010
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	0.55		0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	1.4		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	1.1		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1208016-010
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	08/20/12	Acceptable
Toluene-d8	91	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	79	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1208016-011
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	0.64		0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	1.2		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	0.63		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	0.88		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1208016-011
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	08/20/12	Acceptable
Toluene-d8	90	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	78	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-21D
Lab Code: K1208016-012
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	0.76		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	0.89		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	0.54		0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	1.2		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-21D
Lab Code: K1208016-012
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	08/20/12	Acceptable
Toluene-d8	87	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	76	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1208016-013
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	0.66		0.50	1	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	1.2		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	0.70		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	0.89		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1208016-013
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	08/20/12	Acceptable
Toluene-d8	91	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	74	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-22D
Lab Code: K1208016-014
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	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	0.89		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	0.91		0.50	1	08/20/12	08/20/12	KWG1209422	*
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	0.54		0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	1.2		0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-22D
Lab Code: K1208016-014
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	08/20/12	Acceptable
Toluene-d8	90	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	76	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1209422-4
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	08/20/12	08/20/12	KWG1209422	
Chloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Chloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	*
Chloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichlorofluoromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Acetone	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Iodomethane	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
Carbon Disulfide	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Methylene Chloride	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Acrylonitrile	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1-Dichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Vinyl Acetate	ND	U	5.0	1	08/20/12	08/20/12	KWG1209422	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
2-Butanone (MEK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Bromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Chloroform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Carbon Tetrachloride	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Benzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Trichloroethene (TCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Dibromomethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromodichloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/20/12	08/20/12	KWG1209422	
Toluene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,2-Trichloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1209422-4
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	08/20/12	08/20/12	KWG1209422	
Dibromochloromethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	
Chlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Ethylbenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
m,p-Xylenes	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
o-Xylene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Styrene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
Bromoform	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/20/12	08/20/12	KWG1209422	
1,2,3-Trichloropropane	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,4-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dichlorobenzene	ND	U	0.50	1	08/20/12	08/20/12	KWG1209422	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/20/12	08/20/12	KWG1209422	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	73-122	08/20/12	Acceptable
Toluene-d8	91	65-144	08/20/12	Acceptable
4-Bromofluorobenzene	79	68-117	08/20/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016

**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-12b	K1208016-001	90	89	77
MW-25	K1208016-002	98	90	76
MW-17	K1208016-003	95	92	79
MW-26	K1208016-004	93	91	77
MW-14b	K1208016-005	96	91	75
MW-18	K1208016-006	96	91	78
D-18	K1208016-007	93	90	80
MW-15D	K1208016-008	89	91	78
MW-15	K1208016-009	93	89	75
MW-11	K1208016-010	95	91	79
MW-21S	K1208016-011	95	90	78
MW-21D	K1208016-012	94	87	76
MW-22S	K1208016-013	93	91	74
MW-22D	K1208016-014	99	90	76
Method Blank	KWG1209422-4	90	91	79
MW-15DMS	KWG1209422-1	96	97	88
MW-15DDMS	KWG1209422-2	96	97	87
Lab Control Sample	KWG1209422-3	99	101	89

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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Extracted: 08/20/2012
Date Analyzed: 08/20/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1208016-008
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1209422

Analyte Name	Sample Result	MW-15DMS KWG1209422-1 Matrix Spike			MW-15DDMS KWG1209422-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	7.74	10.0	77	7.41	10.0	74	49-136	4	30
1,1-Dichloroethene	ND	10.0	10.0	100	9.75	10.0	98	59-171	3	30
Chloroform	0.70	11.7	10.0	110	11.0	10.0	103	64-133	6	30
Carbon Tetrachloride	ND	11.3	10.0	113	10.6	10.0	106	53-161	6	30
Benzene	ND	9.62	10.0	96	9.15	10.0	92	63-144	5	30
Trichloroethene (TCE)	0.64	10.2	10.0	95	9.78	10.0	91	53-139	4	30
Bromodichloromethane	ND	11.4	10.0	114	10.8	10.0	108	61-134	5	30
Toluene	ND	9.28	10.0	93	8.91	10.0	89	71-136	4	30
1,1,2-Trichloroethane	ND	8.95	10.0	90	9.13	10.0	91	74-124	2	30
2-Hexanone	ND	41.6	50.0	83	46.5	50.0	93	53-132	11	30
Chlorobenzene	ND	8.96	10.0	90	8.87	10.0	89	69-126	1	30
Ethylbenzene	ND	8.97	10.0	90	9.05	10.0	91	66-136	1	30
1,2,3-Trichloropropane	ND	8.81	10.0	88	9.19	10.0	92	71-127	4	30
1,2-Dichlorobenzene	ND	8.96	10.0	90	8.90	10.0	89	72-119	1	30

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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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Extracted: 08/20/2012
Date Analyzed: 08/20/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1209422

Lab Control Sample
 KWG1209422-3
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	10.6	10.0	106	32-124
Chloromethane	9.09	10.0	91	34-130
Vinyl Chloride	9.33	10.0	93	55-123
Bromomethane	7.39	10.0	74	35-113
Chloroethane	11.0	10.0	110	58-134
Trichlorofluoromethane	11.1	10.0	111	52-141
1,1-Dichloroethene	11.5	10.0	115	66-129
Acetone	59.1	50.0	118	68-135
Iodomethane	30.7	30.0	102	51-164
Carbon Disulfide	24.7	20.0	123	46-144
Methylene Chloride	10.3	10.0	103	71-122
Acrylonitrile	40.2	40.0	101	65-129
trans-1,2-Dichloroethene	11.0	10.0	110	67-125
1,1-Dichloroethane	10.9	10.0	109	68-132
Vinyl Acetate	38.7	50.0	77	44-156
cis-1,2-Dichloroethene	10.1	10.0	101	71-118
2-Butanone (MEK)	45.6	50.0	91	71-149
Bromochloromethane	10.6	10.0	106	75-131
Chloroform	11.6	10.0	116	70-129
1,1,1-Trichloroethane (TCA)	12.0	10.0	120	59-136
Carbon Tetrachloride	13.6	10.0	136	55-140
Benzene	10.1	10.0	101	69-124
1,2-Dichloroethane (EDC)	11.2	10.0	112	56-142
Trichloroethene (TCE)	10.7	10.0	107	67-128
1,2-Dichloropropane	10.2	10.0	102	67-126
Dibromomethane	9.84	10.0	98	69-128
Bromodichloromethane	11.6	10.0	116	63-129
cis-1,3-Dichloropropene	11.5	10.0	115	62-132
4-Methyl-2-pentanone (MIBK)	45.3	50.0	91	64-134
Toluene	10.0	10.0	100	69-124
trans-1,3-Dichloropropene	9.09	10.0	91	59-125
1,1,2-Trichloroethane	8.49	10.0	85	74-118
Tetrachloroethene (PCE)	9.31	10.0	93	62-126
2-Hexanone	42.6	50.0	85	59-131
Dibromochloromethane	9.56	10.0	96	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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Extracted: 08/20/2012
Date Analyzed: 08/20/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1209422

Lab Control Sample
 KWG1209422-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	8.69	10.0	87	74-118
Chlorobenzene	9.01	10.0	90	72-116
Ethylbenzene	9.27	10.0	93	67-121
1,1,1,2-Tetrachloroethane	10.7	10.0	107	66-124
m,p-Xylenes	19.0	20.0	95	69-121
o-Xylene	9.08	10.0	91	71-119
Styrene	9.24	10.0	92	74-121
Bromoform	9.37	10.0	94	52-144
cis-1,4-Dichloro-2-butene	27.3	30.0	91	26-171
1,1,2,2-Tetrachloroethane	8.33	10.0	83	70-127
trans-1,4-Dichloro-2-butene	25.8	30.0	86	46-170
1,2,3-Trichloropropane	8.30	10.0	83	69-123
1,4-Dichlorobenzene	8.60	10.0	86	73-115
1,2-Dichlorobenzene	8.81	10.0	88	72-115
1,2-Dibromo-3-chloropropane	9.31	10.0	93	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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-12b **Units:** ng/L
Lab Code: K1208016-001 **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	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	87	77-123	08/24/12	Acceptable
Toluene-d8	111	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	87	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-25 **Units:** ng/L
Lab Code: K1208016-002 **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	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	89	77-123	08/24/12	Acceptable
Toluene-d8	109	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	85	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1208016-003
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	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	77-123	08/24/12	Acceptable
Toluene-d8	108	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	84	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-26 **Units:** ng/L
Lab Code: K1208016-004 **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	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	77-123	08/24/12	Acceptable
Toluene-d8	107	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	83	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1208016-005
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	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	77-123	08/24/12	Acceptable
Toluene-d8	106	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	81	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-18 **Units:** ng/L
Lab Code: K1208016-006 **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	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	77-123	08/24/12	Acceptable
Toluene-d8	106	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	81	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: D-18 **Units:** ng/L
Lab Code: K1208016-007 **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	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	77-123	08/24/12	Acceptable
Toluene-d8	105	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-15D **Units:** ng/L
Lab Code: K1208016-008 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	77-123	08/24/12	Acceptable
Toluene-d8	106	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/13/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1208016-009
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	700		20	1	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	77-123	08/24/12	Acceptable
Toluene-d8	105	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-11 **Units:** ng/L
Lab Code: K1208016-010 **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	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	77-123	08/24/12	Acceptable
Toluene-d8	104	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	81	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1208016-011
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	77-123	08/24/12	Acceptable
Toluene-d8	104	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-21D **Units:** ng/L
Lab Code: K1208016-012 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	77-123	08/24/12	Acceptable
Toluene-d8	104	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-22S **Units:** ng/L
Lab Code: K1208016-013 **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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	77-123	08/27/12	Acceptable
Toluene-d8	103	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	79	46-118	08/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: 08/14/2012
Date Received: 08/15/2012

Volatile Organic Compounds

Sample Name: MW-22D **Units:** ng/L
Lab Code: K1208016-014 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	77-123	08/27/12	Acceptable
Toluene-d8	103	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	79	46-118	08/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1209683-4 **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	08/24/12	08/24/12	KWG1209683	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	77-123	08/24/12	Acceptable
Toluene-d8	106	74-112	08/24/12	Acceptable
4-Bromofluorobenzene	82	46-118	08/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208016
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1209748-4
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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	77-123	08/27/12	Acceptable
Toluene-d8	106	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	79	46-118	08/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016

**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-12b	K1208016-001	87	111	87
MW-25	K1208016-002	89	109	85
MW-17	K1208016-003	92	108	84
MW-26	K1208016-004	93	107	83
MW-14b	K1208016-005	95	106	81
MW-18	K1208016-006	97	106	81
D-18	K1208016-007	99	105	80
MW-15D	K1208016-008	97	106	80
MW-15	K1208016-009	101	105	80
MW-11	K1208016-010	101	104	81
MW-21S	K1208016-011	102	104	79
MW-21D	K1208016-012	103	104	80
MW-22S	K1208016-013	107	103	79
MW-22D	K1208016-014	107	103	79
Method Blank	KWG1209683-4	95	106	82
Method Blank	KWG1209748-4	104	106	79
MW-15DMS	KWG1209683-1	102	108	100
MW-15DDMS	KWG1209683-2	101	108	99
Lab Control Sample	KWG1209683-3	102	107	103
Lab Control Sample	KWG1209748-3	101	109	100

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.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Extracted: 08/24/2012
Date Analyzed: 08/24/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1208016-008
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1209683

Analyte Name	Sample Result	MW-15DMS KWG1209683-1 Matrix Spike			MW-15DDMS KWG1209683-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	1490	2000	75	1410	2000	71	70-130	5	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 Remedial Investigation
Sample Matrix: Water

Service Request: K1208016
Date Extracted: 08/24/2012
Date Analyzed: 08/24/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1209683

Lab Control Sample
KWG1209683-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Vinyl Chloride	2110	2000	105	70-136

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208016
Date Extracted: 08/27/2012
Date Analyzed: 08/27/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1209748

Lab Control Sample
KWG1209748-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Vinyl Chloride	1900	2000	95	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.



August 31, 2012

Analytical Report for Service Request No: K1208086

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

RE: City of Walla Walla Sudbury Road Landfill RI

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on August 16, 2012. For your reference, these analyses have been assigned our service request number K1208086.

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. 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 3291. You may also contact me via Email at Ed.Wallace@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Ed Wallace
Project Manager

EW/dp

Page 1 of 87



ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
Columbia Analytical Services, Inc.
Part of the ALS Group A Campbell Brothers Limited Company

Environmental

www.caslab.com ■ 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**

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

Trichlorofluoromethane, 1,1,1-Trichloroethane (TCA), Carbon Tetrachloride, 1,2-Dichloroethane (EDC), Bromodichloromethane and cis-1,3-Dichloropropene were flagged as outside the upper control criterion for Continuing Calibration Verification (CCV) J:\MS18\0821F006.D. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

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

2 Coolers
 SR# K1208080
 PAGE 1 OF 2

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					Analysis Requested											
Sampler's Signature: <i>Craig Schwyn</i>					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												
Comp	8/14/12	1500	1		6	X	X									
Kaman		1430	2		6	X	X									
Small		1413	3		6	X	X									
Schmidt		1340	4		6	X	X									
MW-16		1550	5	W	10	X	X		X							
MW-3		1630	6	W	10	X	X		X							
MW-5	8/15/12	830	7	W	10	X	X									
MW-9		915	8	W	10	X	X						X			
MW-10		9:50	9	W	6	X	X									
MW-23		1100	10	W	10	X	X			X						
MW-24		10:20	11	W	10	X	X			X						
MW-20		1200	12	W	10	X	X			X						

IRNAROUND 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: 8/15/2012 1400

RECEIVED BY:
 Signature: *UPS*
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RELINQUISHED BY:
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RECEIVED BY:
 Signature: *[Signature]*
 Printed Name: *JWELL*
 Firm: *AFS*
 Date/Time: 8/16/12 0945



Cooler Receipt and Preservation Form

Client / Project: C. of Walla Walla Service Request K12
 Received: 8/15/12 Opened: 8/15/12 By: AJ Unloaded: 8/15/12 By: AJ

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*

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
<u>leak</u>	<u>NA</u>	<u>309</u>	<input checked="" type="radio"/> <u>NA</u>	<u>123399W823 1000 0032</u>		
<u>0.5</u>	<u>3.5</u>	<u>300</u>		<u>123399W823 1000 0023</u>		

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
<u>MW-5</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-9</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-10</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-23</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-24</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								
<u>MW-20</u>		<u>VARIOUS</u>	<input checked="" type="checkbox"/>								

Notes, Discrepancies, & Resolutions: Rec'd 6 vials for 15 8/15/12 0830 not on COC.
Rec'd 4 Trip blanks not on COC.

SHORT HOLD TIME

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1208086
Date Collected: 08/14/12 - 08/15/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1208086-005	140	4.0	20	08/16/12 11:57	
MW-3	K1208086-006	135	4.0	20	08/16/12 12:10	
MW-23	K1208086-010	120	4.0	20	08/16/12 12:22	
MW-24	K1208086-011	101	4.0	20	08/16/12 12:35	
MW-20	K1208086-012	149	4.0	20	08/16/12 12:47	
MW-19	K1208086-013	128	4.0	20	08/16/12 13:00	
Method Blank	K1208086-MB1	ND U	0.20	1	08/16/12 08:27	
Method Blank	K1208086-MB2	ND U	0.20	1	08/16/12 14:28	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Duplicate Sample Summary
Chloride

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-16	K1208086-005DUP9	4.0	140	138	139	<1	20	08/16/12
MW-3	K1208086-006DUP10	4.0	135	133	134	1	20	08/16/12

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.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Date Analyzed: 08/16/12

Duplicate Matrix Spike Summary
Chloride

Sample Name: MW-16
Lab Code: K1208086-005
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208086-005MS4		Duplicate Matrix Spike K1208086-005DMS4		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	140	235	100	95	232	100	93	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: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Date Analyzed: 08/16/12

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-3
Lab Code: K1208086-006
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208086-006MS6		Duplicate Matrix Spike K1208086-006DMS6		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	135	231	100	96	229	100	94	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: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1208086
Date Analyzed: 08/16/12

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 305208

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208086-LCS1	4.64	5.00	93	90-110
Lab Control Sample	K1208086-LCS2	4.60	5.00	92	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1208086
Date Collected: 08/14/12 - 08/15/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1208086-005	8.4	1.0	20	08/16/12 11:57	
MW-3	K1208086-006	10.1	1.0	20	08/16/12 12:10	
MW-23	K1208086-010	10.2	1.0	20	08/16/12 12:22	
MW-24	K1208086-011	10.3	1.0	20	08/16/12 12:35	
MW-20	K1208086-012	10.0	1.0	20	08/16/12 12:47	
MW-19	K1208086-013	9.3	1.0	20	08/16/12 13:00	
Method Blank	K1208086-MB1	ND U	0.050	1	08/16/12 08:27	
Method Blank	K1208086-MB2	ND U	0.050	1	08/16/12 14:28	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Duplicate Sample Summary

Nitrate as Nitrogen

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-16	K1208086-005DUP9	1.0	8.4	8.3	8.34	<1	20	08/16/12
MW-3	K1208086-006DUP10	1.0	10.1	9.9	10.0	2	20	08/16/12

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.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Date Analyzed: 08/16/12

**Duplicate Matrix Spike Summary
 Nitrate as Nitrogen**

Sample Name: MW-16
Lab Code: K1208086-005
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208086-005MS4		Duplicate Matrix Spike K1208086-005DMS4		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	8.4	108	100	100	108	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 Road Landfill RI
Sample Matrix: Water

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Date Analyzed: 08/16/12

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-3
Lab Code: K1208086-006
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208086-006MS6		Duplicate Matrix Spike K1208086-006DMS6		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	10.1	110	100	100	111	100	101	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Analyzed: 08/16/12

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 305208

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208086-LCS1	17.8	17.7	100	90-110
Lab Control Sample	K1208086-LCS2	17.6	17.7	99	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1208086
Date Collected: 08/14/12 - 08/15/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1208086-005	36.1	2.0	20	08/16/12 11:57	
MW-3	K1208086-006	31.8	2.0	20	08/16/12 12:10	
MW-23	K1208086-010	30.3	2.0	20	08/16/12 12:22	
MW-24	K1208086-011	30.0	2.0	20	08/16/12 12:35	
MW-20	K1208086-012	33.0	2.0	20	08/16/12 12:47	
MW-19	K1208086-013	40.3	2.0	20	08/16/12 13:00	
Method Blank	K1208086-MB1	ND U	0.10	1	08/16/12 08:27	
Method Blank	K1208086-MB2	ND U	0.10	1	08/16/12 14:28	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Duplicate Sample Summary
Sulfate

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-16	K1208086-005DUP9	2.0	36.1	34.5	35.3	4	20	08/16/12
MW-3	K1208086-006DUP10	2.0	31.8	31.4	31.6	1	20	08/16/12

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Date Analyzed: 08/16/12

**Duplicate Matrix Spike Summary
Sulfate**

Sample Name: MW-16
Lab Code: K1208086-005
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208086-005MS4		Duplicate Matrix Spike K1208086-005DMS4		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	36.1	130	100	94	129	100	93	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Date Analyzed: 08/16/12

**Duplicate Matrix Spike Summary
Sulfate**

Sample Name: MW-3
Lab Code: K1208086-006
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1208086-006MS6		Duplicate Matrix Spike K1208086-006DMS6		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	31.8	127	100	95	127	100	95	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Analyzed: 08/16/12

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 305208

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208086-LCS1	4.62	5.00	92	90-110
Lab Control Sample	K1208086-LCS2	4.56	5.00	91	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1208086
Date Collected: 08/14/12 - 08/15/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1208086-005	274	9.0	1	08/21/12 14:23	
MW-3	K1208086-006	253	9.0	1	08/21/12 14:23	
MW-23	K1208086-010	284	9.0	1	08/21/12 14:23	
MW-24	K1208086-011	280	9.0	1	08/21/12 14:23	
MW-20	K1208086-012	305	9.0	1	08/21/12 14:23	
MW-19	K1208086-013	326	9.0	1	08/21/12 14:23	
Method Blank	K1208086-MB1	ND U	9.0	1	08/21/12 14:23	
Method Blank	K1208086-MB2	ND U	9.0	1	08/21/12 14:23	
Method Blank	K1208086-MB3	ND U	9.0	1	08/23/12 15:22	
Method Blank	K1208086-MB4	ND U	9.0	1	08/23/12 15:22	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Collected: NA
Date Received: NA
Units: mg/L
Basis: NA

Duplicate Sample Summary

Alkalinity as CaCO3, Total

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1208005-004DUP2	90	61.5	ND	NC	NC	20	08/21/12
Batch QC	K1208024-002DUP3	90	720	750	735	4	20	08/21/12
Batch QC	K1208071-005DUP5	90	223	226	225	<1	20	08/21/12

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Analyzed: 08/21/12

Lab Control Sample Summary
Alkalinity as CaCO₃, Total

Analysis Method: SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 306269

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208086-LCS1	113	114	99	90-110
Lab Control Sample	K1208086-LCS2	113	114	99	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Analyzed: 08/23/12

Lab Control Sample Summary
Alkalinity as CaCO₃, Total

Analysis Method: SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 306477

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208086-LCS3	114	114	100	90-110
Lab Control Sample	K1208086-LCS4	112	114	98	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1208086
Date Collected: 08/14/12 - 08/15/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1208086-005	764	13	1	08/20/12 00:00	
MW-3	K1208086-006	783	13	1	08/20/12 00:00	
MW-23	K1208086-010	689	10	1	08/21/12 00:00	
MW-24	K1208086-011	592	10	1	08/21/12 00:00	
MW-20	K1208086-012	754	10	1	08/21/12 00:00	
MW-19	K1208086-013	732	10	1	08/21/12 00:00	
Method Blank	K1208086-MB1	ND U	5.0	1	08/20/12 00:00	
Method Blank	K1208086-MB2	ND U	5.0	1	08/20/12 00:00	
Method Blank	K1208086-MB3	ND U	5.0	1	08/21/12 00:00	
Method Blank	K1208086-MB4	ND U	5.0	1	08/21/12 00:00	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Collected: NA
Date Received: NA
Units: mg/L
Basis: NA

Duplicate Sample Summary
Solids, Total Dissolved

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1208077-002DUP7	10	267	284	276	6	10	08/21/12
Batch QC	K1208120-003DUP20	13	1330	1370	1350	3	10	08/20/12
Batch QC	K1208126-003DUP21	10	342	351	347	3	10	08/21/12
Batch QC	K1208131-001DUP22	10	72	73	72.5	1	10	08/20/12

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Analyzed: 08/20/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 305776

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208086-LCS1	1240	1240	100	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Analyzed: 08/21/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 305971

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208086-LCS2	1240	1240	100	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1208086
Date Collected: 08/14/12 - 08/15/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1208086-005	ND U	0.050	1	08/20/12 12:00	
MW-3	K1208086-006	ND U	0.050	1	08/20/12 12:00	
MW-23	K1208086-010	ND U	0.050	1	08/20/12 12:00	
MW-24	K1208086-011	ND U	0.050	1	08/20/12 12:00	
MW-20	K1208086-012	ND U	0.050	1	08/20/12 12:00	
MW-19	K1208086-013	ND U	0.050	1	08/20/12 12:00	
Method Blank	K1208086-MB1	ND U	0.050	1	08/20/12 12:00	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Date Analyzed: 08/20/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-16 **Units:** mg/L
Lab Code: K1208086-005 **Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1208086-005DUP9 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	SM 4500-NH3 E	0.050	ND	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Date Analyzed: 08/20/12

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-16
Lab Code: K1208086-005
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

Matrix Spike
K1208086-005MS5

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	ND	10.3	10.0	103	80-115

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Analyzed: 08/20/12

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: SM 4500-NH3 E

Units: mg/L

Basis: NA

Analysis Lot: 305694

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208086-LCS1	13.2	13.9	95	80-115

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1208086
Date Collected: 08/14/12 - 08/15/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1208086-005	0.56	0.50	1	08/22/12 20:45	
MW-3	K1208086-006	0.55	0.50	1	08/22/12 20:45	
MW-23	K1208086-010	0.59	0.50	1	08/22/12 20:45	
MW-24	K1208086-011	0.63	0.50	1	08/22/12 20:45	
MW-20	K1208086-012	0.62	0.50	1	08/22/12 20:45	
MW-19	K1208086-013	0.67	0.50	1	08/22/12 20:45	
Method Blank	K1208086-MB1	ND U	0.50	1	08/22/12 20:45	
Method Blank	K1208086-MB2	ND U	0.50	1	08/22/12 20:45	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12 - 08/15/12
Date Received: 08/16/12
Units: mg/L
Basis: NA

Duplicate Sample Summary
Carbon, Total Organic

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-16	K1208086-005DUP9	0.50	0.56	0.51	0.535	8	10	08/22/12
MW-3	K1208086-006DUP10	0.50	0.55	ND	NC	NC	10	08/22/12
MW-23	K1208086-010DUP11	0.50	0.59	0.66	0.629	11 *	10	08/22/12
MW-24	K1208086-011DUP12	0.50	0.63	0.57	0.601	9	10	08/22/12
MW-20	K1208086-012DUP13	0.50	0.62	0.52	0.571	17 *	10	08/22/12
MW-19	K1208086-013DUP14	0.50	0.67	0.55	0.611	20 *	10	08/22/12

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Collected: 08/14/12
Date Received: 08/16/12
Date Analyzed: 08/22/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name: MW-16
Lab Code: K1208086-005
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Matrix Spike
K1208086-005MS5

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Carbon, Total Organic	0.56	25.9	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: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1208086
Date Analyzed: 08/22/12

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 306219

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1208086-LCS1	22.7	22.7	100	83-117
Lab Control Sample	K1208086-LCS2	22.0	22.7	97	83-117

COLUMBIA ANALYTICAL SERVICES, INC.

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INORGANIC ANALYSIS DATA PACKAGE

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

Service Request: K1208086

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>Batch QCD</u>	<u>K1208016-008D</u>
<u>Batch QCS</u>	<u>K1208016-008S</u>
<u>MW-16</u>	<u>K1208086-005DISS</u>
<u>MW-3</u>	<u>K1208086-006DISS</u>
<u>MW-23</u>	<u>K1208086-010DISS</u>
<u>MW-24</u>	<u>K1208086-011DISS</u>
<u>MW-20</u>	<u>K1208086-012DISS</u>
<u>MW-19</u>	<u>K1208086-013DISS</u>
<u>Method Blank</u>	<u>K1208086-MB</u>

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208086
Project No.: NA **Date Collected:** 8/14/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 8/16/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-3 **Lab Code:** K1208086-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	103000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	45100		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	6790		
Sodium	6010C	200	1.0	08/22/12	08/25/12	16200		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208086
Project No.: NA **Date Collected:** 8/15/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 8/16/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-23 **Lab Code:** K1208086-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	99200		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	41500		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	12.5		
Potassium	6010C	400	1.0	08/22/12	08/25/12	7410		
Sodium	6010C	200	1.0	08/22/12	08/25/12	26100		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208086
Project No.: NA **Date Collected:** 8/15/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 8/16/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-20 **Lab Code:** K1208086-012DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	124000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	50100		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	7450		
Sodium	6010C	200	1.0	08/22/12	08/25/12	21600		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208086
Project No.: NA **Date Collected:** 8/15/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 8/16/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-19 **Lab Code:** K1208086-013DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	108000		
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	41000		
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	7230		
Sodium	6010C	200	1.0	08/22/12	08/25/12	24800		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1208086
Project No.: NA **Date Collected:**
Project Name: City of Walla Walla Sudbury Roa **Date Received:**
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: Method Blank **Lab Code:** K1208086-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	08/22/12	08/25/12	50.0	U	
Iron	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Magnesium	6010C	20.0	1.0	08/22/12	08/25/12	20.0	U	
Manganese	6010C	5.0	1.0	08/22/12	08/25/12	5.0	U	
Potassium	6010C	400	1.0	08/22/12	08/25/12	400	U	
Sodium	6010C	200	1.0	08/22/12	08/25/12	200	U	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

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Metals

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DUPLICATES

Client: Schwyn Environmental Services

Service Request: K1208086

Project No.: NA

Units: UG/L

Project Name: City of Walla Walla Sudbury Roa

Basis: NA

Matrix: WATER

Sample Name: Batch QCD

Lab Code: K1208016-008D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	108000		110000		1.8		6010C
Iron		20.0	U	20.0	U			6010C
Magnesium	20	47100		45900		2.6		6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	7080		7010		1.0		6010C
Sodium	20	18400		17900		2.8		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: K1208086

Project No.: NA

Project Name: City of Walla Walla Sudbury Roa

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Calcium	12500	12100	96.8					
Iron	2500	2370	94.8					
Magnesium	12500	11800	94.4					
Manganese	1250	1230	98.4					
Potassium	12500	11800	94.4					
Sodium	12500	12200	97.6					

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1208086-001
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	0.78		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1208086-001
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	88	73-122	08/21/12	Acceptable
Toluene-d8	90	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	77	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1208086-002
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1208086-002
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	08/21/12	Acceptable
Toluene-d8	93	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	77	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1208086-003
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	0.61		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	1.3		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1208086-003
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	08/21/12	Acceptable
Toluene-d8	92	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	78	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1208086-004
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1208086-004
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	89	73-122	08/21/12	Acceptable
Toluene-d8	88	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	78	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1208086-005
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	0.58		0.50	1	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	0.96		0.50	1	08/21/12	08/21/12	KWG1209488	*
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	0.61		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	0.73		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1208086-005
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	89	73-122	08/21/12	Acceptable
Toluene-d8	89	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	77	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1208086-006
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	0.66		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	1.0		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1208086-006
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	08/21/12	Acceptable
Toluene-d8	91	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	79	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1208086-007
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	0.67		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	2.0		0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	0.71		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1208086-007
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	08/21/12	Acceptable
Toluene-d8	91	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	77	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1208086-008
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	1.0		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	1.7		0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	0.64		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1208086-008
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	08/21/12	Acceptable
Toluene-d8	92	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	75	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-10
Lab Code: K1208086-009
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	2.0		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	0.72		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-10
Lab Code: K1208086-009
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	08/21/12	Acceptable
Toluene-d8	92	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	80	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1208086-010
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	0.97		0.50	1	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	0.68		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	0.73		0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	1.0		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1208086-010
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	08/21/12	Acceptable
Toluene-d8	92	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	79	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1208086-011
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	0.83		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	0.89		0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	1.1		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1208086-011
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	08/21/12	Acceptable
Toluene-d8	92	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	77	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1208086-012
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	0.61		0.50	1	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	1.1		0.50	1	08/21/12	08/21/12	KWG1209488	*
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	0.55		0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	0.69		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	0.51		0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	1.2		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1208086-012
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	08/21/12	Acceptable
Toluene-d8	93	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	76	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1208086-013
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	1.3		0.50	1	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	1.1		0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	9.7		0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	0.64		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	1.4		0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	1.8		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1208086-013
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	08/21/12	Acceptable
Toluene-d8	91	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	76	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: D5
Lab Code: K1208086-014
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	0.70		0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	2.1		0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	0.66		0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: D5
Lab Code: K1208086-014
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	08/21/12	Acceptable
Toluene-d8	93	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	79	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1208086-015
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1208086-015
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	73-122	08/21/12	Acceptable
Toluene-d8	91	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	79	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1209488-4
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	08/21/12	08/21/12	KWG1209488	
Chloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Chloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	*
Chloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichlorofluoromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Acetone	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Iodomethane	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
Carbon Disulfide	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Methylene Chloride	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Acrylonitrile	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1-Dichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Vinyl Acetate	ND	U	5.0	1	08/21/12	08/21/12	KWG1209488	*
cis-1,2-Dichloroethene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
2-Butanone (MEK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Bromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Chloroform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Carbon Tetrachloride	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Benzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Trichloroethene (TCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Dibromomethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromodichloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/21/12	08/21/12	KWG1209488	
Toluene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,2-Trichloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1209488-4
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	08/21/12	08/21/12	KWG1209488	
Dibromochloromethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	
Chlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Ethylbenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
m,p-Xylenes	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
o-Xylene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Styrene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
Bromoform	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
cis-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
trans-1,4-Dichloro-2-butene	ND	U	10	1	08/21/12	08/21/12	KWG1209488	
1,2,3-Trichloropropane	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,4-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dichlorobenzene	ND	U	0.50	1	08/21/12	08/21/12	KWG1209488	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/21/12	08/21/12	KWG1209488	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	88	73-122	08/21/12	Acceptable
Toluene-d8	93	65-144	08/21/12	Acceptable
4-Bromofluorobenzene	80	68-117	08/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086

**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>
Camp	K1208086-001	88	90	77
Kinman	K1208086-002	92	93	77
Small	K1208086-003	91	92	78
Schmidt	K1208086-004	89	88	78
MW-16	K1208086-005	89	89	77
MW-3	K1208086-006	91	91	79
MW-5	K1208086-007	92	91	77
MW-9	K1208086-008	94	92	75
MW-10	K1208086-009	97	92	80
MW-23	K1208086-010	95	92	79
MW-24	K1208086-011	95	92	77
MW-20	K1208086-012	97	93	76
MW-19	K1208086-013	95	91	76
D5	K1208086-014	98	93	79
Trip Blank	K1208086-015	90	91	79
Method Blank	KWG1209488-4	88	93	80
MW-9MS	KWG1209488-1	94	94	90
MW-9DMS	KWG1209488-2	98	98	87
Lab Control Sample	KWG1209488-3	98	97	88

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: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1208086
Date Extracted: 08/21/2012
Date Analyzed: 08/21/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1208086-008
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1209488

Analyte Name	Sample Result	MW-9MS KWG1209488-1 Matrix Spike			MW-9DMS KWG1209488-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	8.73	10.0	87	8.80	10.0	88	49-136	1	30
1,1-Dichloroethene	ND	11.2	10.0	112	11.4	10.0	114	59-171	2	30
Chloroform	1.0	12.0	10.0	109	11.9	10.0	108	64-133	1	30
Carbon Tetrachloride	ND	12.8	10.0	128	12.9	10.0	129	53-161	1	30
Benzene	ND	9.53	10.0	95	9.59	10.0	96	63-144	1	30
Trichloroethene (TCE)	1.7	11.7	10.0	100	11.9	10.0	102	53-139	2	30
Bromodichloromethane	ND	11.5	10.0	115	11.5	10.0	115	61-134	0	30
Toluene	ND	9.44	10.0	94	9.76	10.0	98	71-136	3	30
1,1,2-Trichloroethane	ND	9.56	10.0	96	9.51	10.0	95	74-124	1	30
2-Hexanone	ND	47.9	50.0	96	46.1	50.0	92	53-132	4	30
Chlorobenzene	ND	9.26	10.0	93	9.13	10.0	91	69-126	1	30
Ethylbenzene	ND	9.58	10.0	96	9.22	10.0	92	66-136	4	30
1,2,3-Trichloropropane	ND	9.64	10.0	96	9.13	10.0	91	71-127	5	30
1,2-Dichlorobenzene	ND	9.20	10.0	92	9.05	10.0	91	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: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1208086
Date Extracted: 08/21/2012
Date Analyzed: 08/21/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1209488

Lab Control Sample
 KWG1209488-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	9.47	10.0	95	32-124
Chloromethane	7.93	10.0	79	34-130
Vinyl Chloride	7.91	10.0	79	55-123
Bromomethane	8.72	10.0	87	35-113
Chloroethane	9.21	10.0	92	58-134
Trichlorofluoromethane	9.06	10.0	91	52-141
1,1-Dichloroethene	10.4	10.0	104	66-129
Acetone	54.7	50.0	109	68-135
Iodomethane	27.4	30.0	91	51-164
Carbon Disulfide	20.0	20.0	100	46-144
Methylene Chloride	9.01	10.0	90	71-122
Acrylonitrile	38.8	40.0	97	65-129
trans-1,2-Dichloroethene	9.66	10.0	97	67-125
1,1-Dichloroethane	9.77	10.0	98	68-132
Vinyl Acetate	38.1	50.0	76	44-156
cis-1,2-Dichloroethene	8.94	10.0	89	71-118
2-Butanone (MEK)	44.9	50.0	90	71-149
Bromochloromethane	9.78	10.0	98	75-131
Chloroform	10.2	10.0	102	70-129
1,1,1-Trichloroethane (TCA)	10.4	10.0	104	59-136
Carbon Tetrachloride	11.1	10.0	111	55-140
Benzene	8.83	10.0	88	69-124
1,2-Dichloroethane (EDC)	11.1	10.0	111	56-142
Trichloroethene (TCE)	9.29	10.0	93	67-128
1,2-Dichloropropane	8.89	10.0	89	67-126
Dibromomethane	9.73	10.0	97	69-128
Bromodichloromethane	10.8	10.0	108	63-129
cis-1,3-Dichloropropene	10.4	10.0	104	62-132
4-Methyl-2-pentanone (MIBK)	45.7	50.0	91	64-134
Toluene	8.75	10.0	88	69-124
trans-1,3-Dichloropropene	9.24	10.0	92	59-125
1,1,2-Trichloroethane	9.09	10.0	91	74-118
Tetrachloroethene (PCE)	8.26	10.0	83	62-126
2-Hexanone	45.3	50.0	91	59-131
Dibromochloromethane	9.63	10.0	96	67-126

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Extracted: 08/21/2012
Date Analyzed: 08/21/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1209488

Lab Control Sample
 KWG1209488-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	9.11	10.0	91	74-118
Chlorobenzene	8.47	10.0	85	72-116
Ethylbenzene	8.76	10.0	88	67-121
1,1,1,2-Tetrachloroethane	9.81	10.0	98	66-124
m,p-Xylenes	17.4	20.0	87	69-121
o-Xylene	8.59	10.0	86	71-119
Styrene	8.82	10.0	88	74-121
Bromoform	9.80	10.0	98	52-144
cis-1,4-Dichloro-2-butene	27.2	30.0	91	26-171
1,1,2,2-Tetrachloroethane	8.84	10.0	88	70-127
trans-1,4-Dichloro-2-butene	28.5	30.0	95	46-170
1,2,3-Trichloropropane	9.07	10.0	91	69-123
1,4-Dichlorobenzene	8.47	10.0	85	73-115
1,2-Dichlorobenzene	8.56	10.0	86	72-115
1,2-Dibromo-3-chloropropane	10.3	10.0	103	55-132

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

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



September 11, 2012

Analytical Report for Service Request No: K1208086
Revised Service Request No: K1208086.01

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

RE: City of Walla Walla Sudbury Road Landfill RI

Dear Craig:

Enclosed are the additional pages for the samples submitted to our laboratory on August 16, 2012. For your reference, these analyses have been assigned our service request number K1208086.

The 8260 SIM run for Vinyl Chloride was omitted in the original report.

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. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

We apologize for any inconvenience this may have created.

Please call if you have any questions. My extension is 3291. You may also contact me via Email at Ed.Wallace@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Ed Wallace
Project Manager

EW/as

Page 88 of 109



ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
Columbia Analytical Services, Inc.

Part of the ALS Group A Campbell Brothers Limited Company

Environmental 

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ADDENDUM

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Camp **Units:** ng/L
Lab Code: K1208086-001 **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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	77-123	08/27/12	Acceptable
Toluene-d8	104	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	78	46-118	08/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

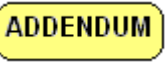
Sample Name: Kinman
Lab Code: K1208086-002
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	08/27/12	Acceptable
Toluene-d8	103	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	78	46-118	08/27/12	Acceptable

Comments: _____



COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1208086-003
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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	08/27/12	Acceptable
Toluene-d8	104	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	78	46-118	08/27/12	Acceptable

Comments: _____

ADDENDUM

11mNew.rpt

Merged

SuperSet Reference:

RR146221

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

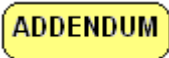
Sample Name: Schmidt
Lab Code: K1208086-004
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	77-123	08/27/12	Acceptable
Toluene-d8	103	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	78	46-118	08/27/12	Acceptable

Comments: _____



COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1208086-005
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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	77-123	08/27/12	Acceptable
Toluene-d8	103	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	78	46-118	08/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1208086-006
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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	77-123	08/27/12	Acceptable
Toluene-d8	102	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	77	46-118	08/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

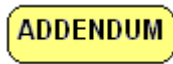
Sample Name: MW-5
Lab Code: K1208086-007
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

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	08/29/12	08/29/12	KWG1209908	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	77-123	08/29/12	Acceptable
Toluene-d8	106	74-112	08/29/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/29/12	Acceptable

Comments: _____



COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-9 **Units:** ng/L
Lab Code: K1208086-008 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	77-123	08/27/12	Acceptable
Toluene-d8	105	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	79	46-118	08/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-10 **Units:** ng/L
Lab Code: K1208086-009 **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	08/29/12	08/29/12	KWG1209908	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	08/29/12	Acceptable
Toluene-d8	104	74-112	08/29/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/29/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1208086-010
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	08/29/12	08/29/12	KWG1209908	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	08/29/12	Acceptable
Toluene-d8	105	74-112	08/29/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/29/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

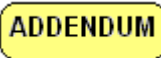
Sample Name: MW-24
Lab Code: K1208086-011
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	08/29/12	08/29/12	KWG1209908	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	08/29/12	Acceptable
Toluene-d8	104	74-112	08/29/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/29/12	Acceptable

Comments: _____



COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

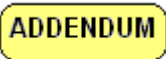
Volatile Organic Compounds

Sample Name: MW-20 **Units:** ng/L
Lab Code: K1208086-012 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	08/29/12	08/29/12	KWG1209908	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	08/29/12	Acceptable
Toluene-d8	104	74-112	08/29/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/29/12	Acceptable

Comments: _____



COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1208086-013
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	08/29/12	08/29/12	KWG1209908	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	77-123	08/29/12	Acceptable
Toluene-d8	103	74-112	08/29/12	Acceptable
4-Bromofluorobenzene	81	46-118	08/29/12	Acceptable

Comments: _____

ADDENDUM

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Form IA - Organic

Page 1 of 1

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Merged

SuperSet Reference: RR146221

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

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

Service Request: K1208086
Date Collected: 08/15/2012
Date Received: 08/16/2012

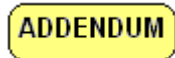
Volatile Organic Compounds

Sample Name: D5 **Units:** ng/L
Lab Code: K1208086-014 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	08/29/12	08/29/12	KWG1209908	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	08/29/12	Acceptable
Toluene-d8	104	74-112	08/29/12	Acceptable
4-Bromofluorobenzene	80	46-118	08/29/12	Acceptable

Comments: _____



COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

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

Service Request: K1208086
Date Collected: 08/14/2012
Date Received: 08/16/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1208086-015
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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	77-123	08/27/12	Acceptable
Toluene-d8	104	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	79	46-118	08/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1209748-4 **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	08/27/12	08/27/12	KWG1209748	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	77-123	08/27/12	Acceptable
Toluene-d8	106	74-112	08/27/12	Acceptable
4-Bromofluorobenzene	79	46-118	08/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1208086
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1209908-4 **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	08/29/12	08/29/12	KWG1209908	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	08/29/12	Acceptable
Toluene-d8	106	74-112	08/29/12	Acceptable
4-Bromofluorobenzene	81	46-118	08/29/12	Acceptable

Comments: _____

ADDENDUM

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1208086

**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>
Camp	K1208086-001	107	104	78
Kinman	K1208086-002	108	103	78
Small	K1208086-003	108	104	78
Schmidt	K1208086-004	109	103	78
MW-16	K1208086-005	109	103	78
MW-3	K1208086-006	109	102	77
MW-5	K1208086-007	109	106	80
MW-9	K1208086-008	107	105	79
MW-10	K1208086-009	110	104	80
MW-23	K1208086-010	110	105	80
MW-24	K1208086-011	110	104	80
MW-20	K1208086-012	110	104	80
MW-19	K1208086-013	111	103	81
D5	K1208086-014	110	104	80
Trip Blank	K1208086-015	106	104	79
Method Blank	KWG1209748-4	104	106	79
Method Blank	KWG1209908-4	108	106	81
MW-9MS	KWG1209748-1	101	110	100
MW-9DMS	KWG1209748-2	102	110	99
Lab Control Sample	KWG1209748-3	101	109	100
Lab Control Sample	KWG1209908-3	105	110	103

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.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Extracted: 08/27/2012
Date Analyzed: 08/27/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1208086-008
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1209748

Analyte Name	Sample Result	MW-9MS KWG1209748-1 Matrix Spike			MW-9DMS KWG1209748-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	1850	2000	92	1760	2000	88	70-130	5	30

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1208086
Date Extracted: 08/27/2012
Date Analyzed: 08/27/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

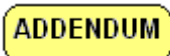
Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1209748

Lab Control Sample
KWG1209748-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Vinyl Chloride	1900	2000	95	70-136

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 Road Landfill RI
Sample Matrix: Water

Service Request: K1208086
Date Extracted: 08/29/2012
Date Analyzed: 08/29/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1209908

Lab Control Sample
KWG1209908-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Vinyl Chloride	1910	2000	95	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.