Technical Memorandum
Groundwater Quality Sampling, November 2012 Event

Date: 17 April 2013

To: Amy Blain
City of Longview

From: Steve Misner
Kennedy/Jenks Consultants

Subject: City of Longview
Groundwater Quality Sampling Results, November 2012 Monitoring Event
K/J 0997003*01

This memorandum summarizes the results of the groundwater monitoring and sampling event conducted in November 2012 for the Mint Farm Industrial Park wellfield area (Mint Farm). The groundwater monitoring and sampling was conducted on a semiannual basis to establish background water quality in the well field area prior to initiation of full scale water production from the Mint Farm wellfield. Groundwater samples were collected from deep sentinel wells DW-1, DW-2, DW-5, DW-6, DW-7, and DW-9 during each pre-operating semiannual sampling event. These wells were selected based on their locations relative to the industrial facilities in the vicinity of the Mint Farm and their ability to detect potential contaminant migration from those industries. Groundwater monitoring will continue during full-scale water production, on a semiannual basis.

ACTIVITIES CONDUCTED DURING THE NOVEMBER 2012 MONITORING EVENT

Activities completed during this groundwater monitoring event were conducted in general accordance with *Technical Memorandum 2, Water Quality Sampling Protocol* (Kennedy/Jenks, 28 April 2009). Activities included:

- Collecting groundwater samples from deep sentinel wells DW-1, DW-2, DW-5, DW-6, DW-7 and DW-9 on 26 through 28 November 2012. The groundwater samples were collected following well purging to stabilize pH, temperature, conductivity, and dissolved oxygen levels.
- Submitting the groundwater samples to ALS Environmental (ALS), a certified laboratory for analysis for constituents identified based on drinking water regulations, historical activities in the area, unregulated contaminants of emerging concern, and local industrial activity.
- Downloading water level data from the pressure transducers in all of the sentinel wells except DW-5, which is not currently equipped with a pressure transducer.
- Processing the downloaded transducer data, developing shallow and deep groundwater elevation contour maps for 20 October 2012, and generating hydrographs for the wells for summer 2009 through early Fall 2012.
- Preparing this summary technical memorandum.

RESULTS OF GROUNDWATER MONITORING

Groundwater Elevation Contour Maps and Hydrographs

Water level data is continuously collected in each sentinel well using pressure transducers, however, the data must be evaluated and corrected to account for the tidal influence. October 2012 was chosen as the representative data set for the reporting period because the water levels were relatively stable at that time. Figures 1 and 2, respectively, are shallow aquifer and deep aquifer groundwater elevation contour maps representing a snapshot of conditions on 20 October 2012. The method for deriving the groundwater elevations is described in detail in the *Preliminary Design Report (PDR Part 2) for the City of Longview (City) Mint Farm Regional Water Treatment Plant and Well Field, Part 2A: Hydrogeologic Characterization of the Mint Farm Area* (Kennedy/Jenks, March 2010).

An evaluation of the groundwater elevation contours derived from measurements obtained on 20 October 2012 shows that groundwater in the shallow system primarily flows radially toward the CDID drainage ditches around the Mint Farm area. An evaluation of the deep aquifer groundwater elevation contours for the 20 October 2012 period indicates that the gradient in the vicinity of the wellfield is relatively low. In the general vicinity of the Mint Farm, a slight mounding is inferred by groundwater levels which cause localized variations in flow direction.

The groundwater hydrographs for all of the shallow sentinel wells are presented in Figure 3 and the hydrographs for all of the deep sentinel wells are presented in Figure 4.

Groundwater Sampling Results

The laboratory analytical reports for the groundwater samples collected during the November 2012 sampling event are included on compact disc in Attachment A.

Iron and manganese were detected in the groundwater samples at levels that exceed the Washington Department of Health (DOH) secondary water quality standard for these constituents. Although these constituents are not regulated as a health concern, DOH regulates them in drinking water due to their aesthetic character. Total arsenic was detected at a concentration of 9.4 micrograms per liter (ug/l) in the groundwater sample collected from sentinel well DW-2, which is slightly below the Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) of 10 micrograms per liter (ug/l) using EPA Method 200.8. Using EPA Method 1632A, the concentrations of speciated arsenic (III) and inorganic arsenic in the groundwater sample collected from sentinel well DW-2 were 11 ug/l and 10.5 ug/l, respectively. The Mint Farm Regional Water Treatment Plant processes will remove iron, manganese and arsenic to acceptable levels No other analytes were detected in groundwater samples at concentrations above their respective screening levels.

DATA QUALITY

Based on a review of the laboratory reports, it is our opinion that the analytical data are of acceptable quality for their intended use. A laboratory case narrative prepared by ALS is included as part of the lab reports in Attachment A.

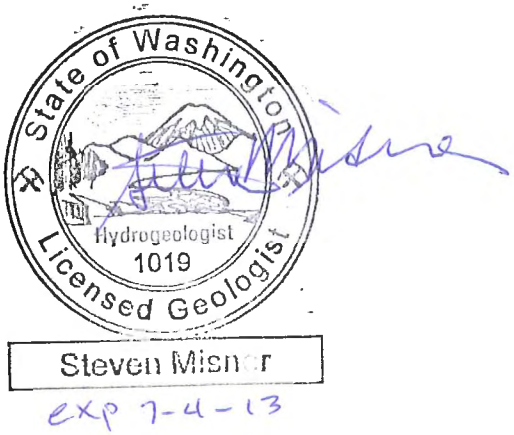
FUTURE SAMPLING ACTIVITIES

The Mint Farm Regional Water Treatment Plant (MFRWTP) was placed into service in late January 2013. Ongoing groundwater monitoring will continue on a semiannual basis to confirm consistent raw water quality. Pressure transducer data will be downloaded periodically from selected sentinel wells to evaluate any change in groundwater flow patterns.

REFERENCES

Kennedy/Jenks Consultants, 2009. *Technical Memorandum 2, Water Quality Sampling Protocol.* Kennedy/Jenks Consultants, 28 April 2009.

Kennedy/Jenks Consultants, 2010. *Preliminary Design Report (PDR Part 2) for the City of Longview (City) Mint Farm Regional Water Treatment Plant and Well Field, Part 2A: Hydrogeologic Characterization of the Mint Farm Area.* Kennedy/Jenks Consultants, March 2010.



Figures

Path: Z:\Projects\Longview\Events\20121003_March_GW_Elev\GW_Elev_Shallow_2012_October.mxd

Legend

- Monitoring Well (Groundwater Elevation)
- Groundwater Contours (Dashed Where Approximate)

Note: Contours shown on this map represent the water level elevation for 10/20/2012.

N

0 600 1,200

Scale: Feet

Contour Interval: 1.0 Foot

Kennedy/Jenks Consultants

Mint Farm RWTP
Longview, Washington

Shallow Aquifer Groundwater Map
October 20, 2012 Groundwater Elevations

KJ 0997003*01

Figure 1

Path: Z:\Projects\Longview\Events\20121003_March_GW_Elev\GW_Elev_Deep_2012_October.mxd

Legend

- Monitoring Well (Groundwater Elevation)
- Groundwater Contours

Note: Contours shown on this map represent the water level elevations for 10/20/2012.

N

0 600 1,200

Scale: Feet

Contour Interval: 0.5 feet

Kennedy/Jenks Consultants

Mint Farm RWTP
Longview, Washington

Deep Aquifer Groundwater Map
October 20, 2012 Groundwater Elevations

KJ 0997003*01

Figure 2

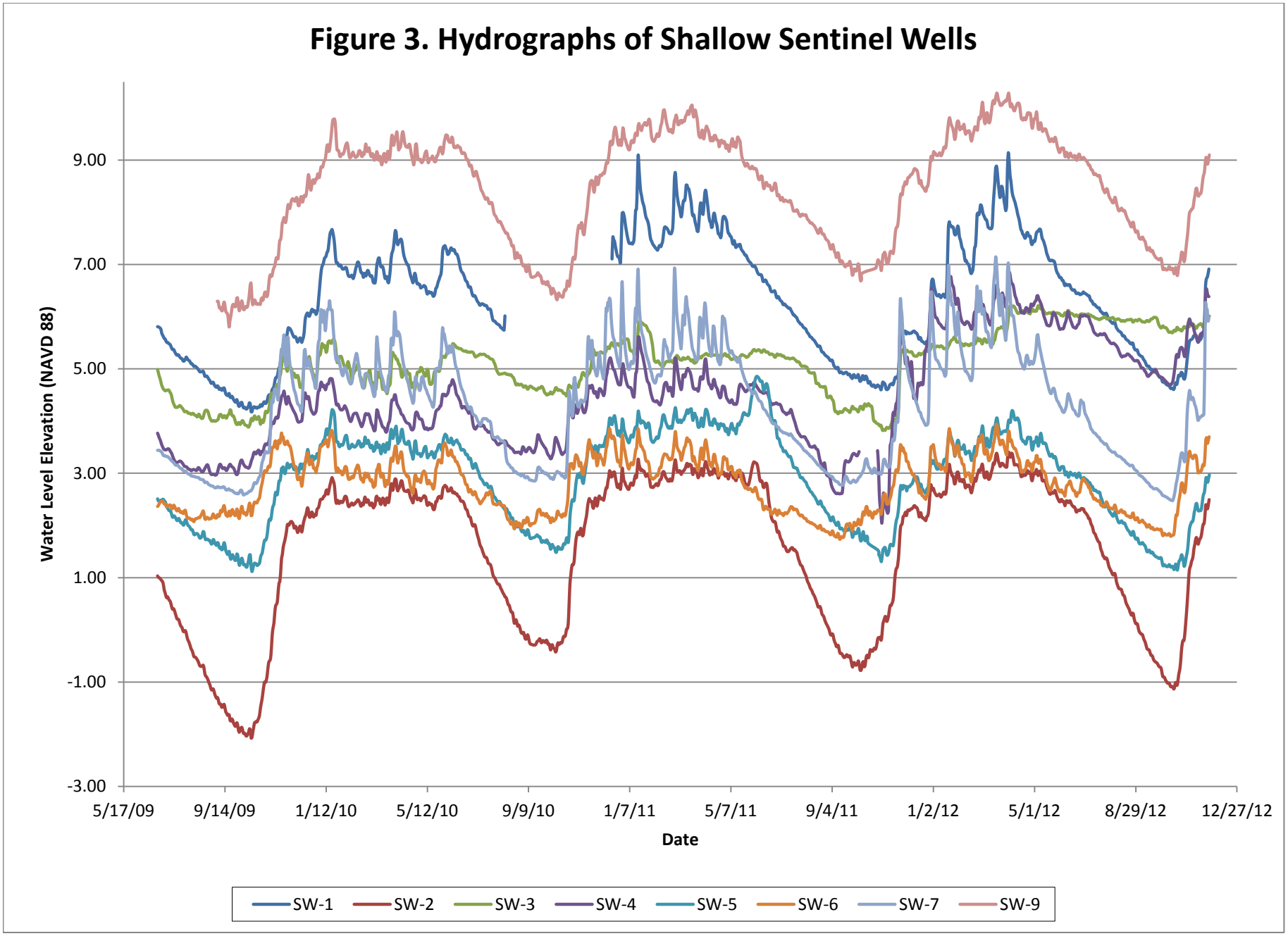
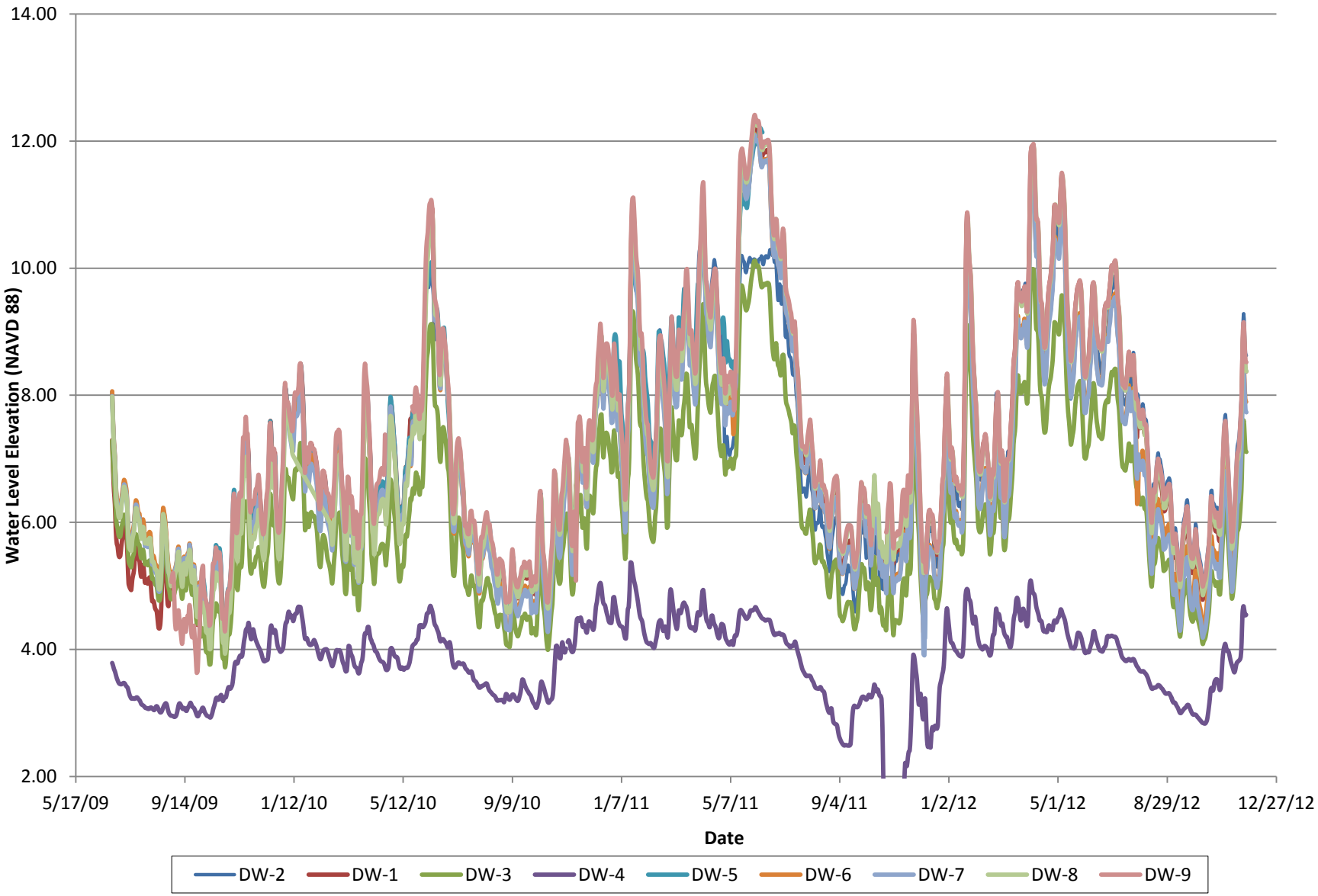


Figure 3. Hydrographs of Shallow Sentinel Wells
Water Level Elevation (NAVD 88)
9.00
7.00
5.00
3.00
1.00
-1.00
-3.00
5/17/09
9/14/09
1/12/10
5/12/10
9/9/10
1/7/11
5/7/11
9/4/11
1/2/12
5/1/12
8/29/12
12/27/12
Date
SW-1
SW-2
SW-3
SW-4
SW-5
SW-6
SW-7
SW-9

Figure 4. Hydrographs of Deep Sentinel Wells



Appendix A

Laboratory Analytical Reports

January 15, 2013 Analytical Report for Service Request No: K1211802

Steven Misner
Kennedy/Jenks Consultants, Incorporated
200 SW Market St., Suite 500
Portland, OR 97201-5715

RE: Mint Farm

Dear Steven:

Enclosed are the results of the samples submitted to our laboratory on November 26, 2012. For your reference, these analyses have been assigned our service request number K1211802.

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 3363. You may also contact me via Email at Lisa.Domenighini@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Lisa Domenighini
Project Manager

LD/ln

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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/anlayte is offered by that state.

ALS ENVIRONMENTAL

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request No.:**	K1211802
Project:	Mint Farm	**Date Received:**	11/26-11/28/12
Sample Matrix:	Drinking Water		

CASE NARRATIVE

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

Sample Receipt

Seven drinking water samples and three trip blank samples were received for analysis at ALS Environmental on 11/26/12-11/28/12. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4ºC upon receipt at the laboratory.

General Chemistry Parameters

Total Cyanide by EPA Method 335.4:
The matrix spike recovery of Total Cyanide for sample Batch QC was outside control criteria because of suspected matrix interference. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. No further corrective action was taken.

Dissolved Organic Carbon by Standard Method 5310 C:
The Relative Percent Difference (RPD) criterion for the replicate analysis of Dissolved Organic Carbon in sample DW-1 was not applicable because the analyte concentration was not significantly greater than the Method Reporting Limit (MRL). Analytical values derived from measurements close to the detection limit are not subject to the same accuracy and precision criteria as results derived from measurements higher on the calibration range for the method.

Methylene Blue Active Substances by Standard Method 5540 C:
The Relative Percent Difference (RPD) for Methylene Blue Active Substances in the replicate matrix spike analyses of sample DW-1 was outside control criteria. All spike recoveries in the MS, DMS, and associated Laboratory Control Sample (LCS) were within acceptance limits, indicating the analytical batch was in control. No further corrective action was appropriate.

Fecal Coliform by Standard Method 9221 E and Total Coliform by Standard Method 9223B:
Sample DW-6 was received past holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data was flagged to indicate the holding time violation.

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

Approved by_____**Date**_____

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Silicon for sample DW-2 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.

EDB and DBCP by EPA Method 504.1

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

Pesticides and Polychlorinated Biphenyls by EPA Method 508.1

Surrogate Exceptions:
The lower control criterion was exceeded for Decachlorobiphenyl in method blank KWG1214191-4. No target analytes were detected in the Method Blank. The problem indicated a potential negative bias to the Method Blank results. No target analytes were detected in the field samples. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions:
The matrix spike recovery of a number of analytes for sample DW-7 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential low bias in this matrix. No further corrective action was appropriate.

Internal Standard Exceptions:
The upper control criterion was exceeded for Pentachloronitrobenzene (PCNB) in method blank KWG1214191-4. No target analytes were detected in the Method Blank. The problem indicated a potential negative bias to the Method Blank results. No target analytes were detected in the field samples. No further corrective action was appropriate.

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

Chlorinated Acids by EPA Method 515.4

Calibration Verification Exceptions:
The analysis of Chlorinated Herbicides by EPA 515.4 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the lower of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Dalapon and 3,5-Dichlorobenzoic Acid. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

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

Approved by_____**Date**_____

Volatile Organic Compounds by EPA Method 524.2

Initial Calibration Exceptions:
The CAS minimum relative response factor criterion for 2-Butanone (MEK) was not met in Initial Calibration (ICAL) ID 12048. In accordance with CAS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question the data quality was not significantly affected. No further corrective action was appropriate.

Calibration Verification Exceptions:
The CAS minimum relative response factor criterion for 2-Butanone (MEK) was not met in Continuing Calibration Verification (CCV) J:\MS19\1130F010.D and J:\MS19\1211F003.D. In accordance with CAS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question the data quality was not significantly affected. No further corrective action was appropriate.

Surrogate Exceptions:
The upper control criterion was exceeded for Toluene-d8 in samples DW-9. No target analytes were detected in the sample. The error associated with an elevated recovery equated to a high bias. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

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

Semivolatile Organic Compounds by EPA Method 525.2

Internal Standard Exceptions:
The internal standard recovery of Acenapthene-d10 in sample DW-6 and DUP-1 was outside control criteria because of suspected matrix interference. The sample contained particulate matter that collected on the extraction disk during sample elution. Historical results have shown that particulate matter can cause low recoveries for this internal standard. All samples in the delivery group contained particulate matter and showed relatively low recoveries for Acenapthene-d10. The results associated with this internal standard were flagged to indicate the problem.

Matrix Spike Recovery Exceptions:
The matrix spike recovery of Bis(2-ethylhexyl) Phthalate and Benzo(a)pyrene for sample DW-1 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential bias in this matrix. No further corrective action was appropriate.

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

Endothall by EPA Method 548.1

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

Diquat by High Performance Liquid Chromatography

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

Approved by_____**Date**_____

Dioxins and Furans by EPA Method 1613B

Dioxin and Furan analysis by EPA Method 1613B was performed at ALS Environmental laboratory in Houston, TX. The narrative for this analysis can be found in the corresponding section of this data package.

Liquid Sulfur

Liquid Sulfur analysis was performed at ALS Environmental laboratory in Simi Valley, CA. The narrative for this analysis can be found in the corresponding section of this data package.

Radiochemistry-ACZ

Radiochemistry analysis was performed at ACZ. The narrative for this analysis can be found in the corresponding section of this data package.

EPA Method 531.1/EPA Method 547:Eurofins

EPA Methods 531.1 and 547 analysis was performed at Eurofins laboratory in CA. The narrative for this analysis can be found in the corresponding section of this data package

Asbestos-LabCor

Asbestos analysis was performed at LabCor. The narrative for this analysis can be found in the corresponding section of this data package.

Approved by_____**Date**_____

CHAIN OF CUSTODY

Columbia Analytical Services, Inc. 1317 S. 13th Ave.
Kelso, WA 98626 (360) 577-7222 **Service Request #** K1211802

Company: Kennedy/Jenks Consultants	PWS ID:
Address: 200 SW Market Street, Suite 500	PWS NAME: City of Longview
City: Portland State: Ore Zip: 97201	P.O./Project Name: Mint Farm
Tel: 503-295-4911 Fax: 503-295-4901 E-mail:stevenmisner@kennedyjenks.com	Project Manager: Janet Snedecor
Sampler(s) Name & Signature: Steve Misner	Samples Chlorinated: Yes____ No__X__
	Compliance Sample: Yes____ No __X___ Report to State: Yes____ No__X___

Sample I.D.	Source Type (see table below)	Date sampled	Time Sampled	Number of Containers	Primary IOCs (Check) or (All) □As □Ba □Be □Cd □Cr □Ag,Hg □Ni □Se □Na □Cyanide □Fluoride □Nitrate □Nitrite xSb xHg xTi	Primary IOCs Lead/Copper	Secondary IOCs (Check) □XAl □XFe □XMn □XAg □XZn □XCa □XMg □xChloride □XColor □XSulfate □XTDS □XHardness □XFoaming Agents □XConductivity X□Silica □XOPhosphate □Other K Alkalinity	Disinfection By-Products Haloacetic Acids (HAA) 552.2	Trihalomethanes (TTHM) 524.2	□XTOC□Bromide□Bromate□Chlorite	Synthetic Organic Chemicals Semi-Volatiles 525.2 □ Regulated □ Unregulated	Pesticides/PCBs 508.1	Volatiles 524.2 □Reg. □UnReg.	EDB/DBCP/TCP 504.1	Chlorinated Acids 515.4	Carbamates 531.1	□Glyphosate 547□Endothall 548.1	Diquat/Paraquat 549.2	Other Analysis (Specify)	Remarks:
DW-1	DW				All X	X	All X		X	X	X	X	X	X	X	X	X	X	Please see below for other extra tests:
~~DW-2~~	~~DW~~				~~All X~~	~~X~~	~~All X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	Arsenic speciation needed
~~DW-5~~	~~DW~~				~~All X~~	~~X~~	~~All X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~Fecal coliform and E coli~~
~~DW-6~~	~~DW~~				~~All X~~	~~X~~	~~All X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	UV 254
DW-7	DW				All X	X	All X		X	X	X	X	X	X	X	X	X	X	Alkalinity
~~DW-9~~	~~DW~~				~~All X~~	~~X~~	~~All X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
~~Dup-1~~	~~DW~~				~~All X~~	~~X~~	~~All X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	

Source Type		
DW- Drinking Water	Relinquished by: Aaron Lawler Date/Time: 11-20-12 1450	Received by: [signature] Date/Time: 11/20/12 1452
SW - Surface Water	Relinquished by:_____ Date/Time:_____	Received by:_____ Date/Time:_____
RW - Raw Water	Relinquished by:_____ Date/Time:_____	Received by:_____ Date/Time:_____
GW - Ground Water	Special Instructions/Comments:	
TW - Treated Water	X Other Analysis:Dioxin needed, Radiochemistry to ACZ, Liquid Sulfur to CAS Tucson, Asbestos to LabCor	

PC Lisa

Cooler Receipt and Preservation Form

Client / Project: Kennedy Jenks Service Request K12 11802

Received: 11/26/12 Opened: 11/26/12 By: UL Unloaded: 11/26/12 By: UL

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

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
6.7	6.5	5.9	5.7	-0.2	307			
9.6	9.5	10.4	10.3	-0.1	320			
7.1	7.1	6.1	6.1	0	319			
11.0	11.0	10.0	10.0	0	309			

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

Sample ID on Bottle	Sample ID on COC	Identified by:

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

SHORT HOLD TIME

Notes, Discrepancies, & Resolutions: Insufficient time to chill.

DW-1 time 11:35

DW-7 time 14:00

CHAIN OF CUSTODY

Columbia Analytical Services, Inc. 1317 S. 13th Ave.
Kelso, WA 98626 (360) 577-7222 **Service Request #** K1211802

Company: Kennedy / Jenks	**PWS ID:**
Address: 700 SW MARKET ST. SUITE 500	**PWS NAME:**
City: Portland **State** OR **Zip:** 97201	**P.O./Project Name:**
Tel: 503-295-4911 **Fax:** 503-295-4901 **E-mail:** STEVEN.MISNER@KENNEDYJENKS.COM	**Project Manager:**
Sampler(s) Name & Signature: Aaron Lawler	**Samples Chlorinated:** Yes____ No____
	Compliance Sample: Yes____ No____ **Report to State:** Yes____ No____

Sample I.D.	Source Type (see table below)	Date sampled	Time Sampled	Number of Containers	Primary IOCs: (Check) or (All) □As □Ba □Be □Cd □Cr □Ag,Hg □Ni □Se □Na □Cyanide □Fluoride □Nitrite □Nitrate	Primary IOCs: Lead/Copper	Secondary IOCs: (Check) □XAl □XFe □XMn □XAg □XZn □XCa □XMg □xChloride □XColor □XSulfate □XTDS □XHardness □XFoaming Agents □XConductivity X□Silica □XOPhosphate □Other	Disinfection By-Products: Haloacetic Acids (HAA) 552.2	Disinfection By-Products: Trihalomethanes (TTHM) 524.2	Disinfection By-Products: □XTOC□Bromide□Bromate□Chlorite	Synthetic Organic Chemicals: Semi-Volatiles 525.2 □ Regulated □ Unregulated	Synthetic Organic Chemicals: Pesticides/PCBs 508.1	Synthetic Organic Chemicals: Volatiles 524.2 □Reg. □UnReg.	Synthetic Organic Chemicals: EDB/DBCP/TCP 504.1	Synthetic Organic Chemicals: Chlorinated Acids 515.4	Synthetic Organic Chemicals: Carbamates 531.1	Synthetic Organic Chemicals: □Glyphosate 547□Endothall 548.1	Synthetic Organic Chemicals: Diquat/Paraquat 549.2	Other Analysis (Specify)	Remarks:
DW-6	DW	11/27/12	1000		All X	X	All X				X	X	X	X	X	x	x	x	x	Please see below for other extra tests:
DW-5	DW	11/27/12	1200		" "	" "	" "				X	X	X	X	X	X	X	X	X	Arsenic speciation needed
DW-2	DW	11/27/12	1315		" "	" "	" "				X	X	X	X	X	X	X	X	X	Fecal coliform and E coli
DUP-1	DW	11/27/12	1500		" "	" "	" "				X	X	X	X	X	X	X	X	X	UV 254
																				Alkalinity

Source Type
DW- Drinking Water
SW - Surface Water
RW - Raw Water
GW - Ground Water
TW - Treated Water

Relinquished by: [signature] Date/Time: 11.27.12 1500	Received by: [signature] Date/Time: 11/27/12 1500
Relinquished by:_____ Date/Time:_____	Received by:_____ Date/Time:_____
Relinquished by:_____ Date/Time:_____	Received by:_____ Date/Time:_____

Special Instructions/Comments:

X Other Analysis: Dioxin needed, Radiochemistry to ACZ, Liquid Sulfur to CAS Tucson, Asbestos to LabCor

PC Lisa

Cooler Receipt and Preservation Form

Client / Project: Kennedy Jenks Service Request *K12* 1211802

Received: 11/27/12 Opened: 11/27/12 By: Sue Unloaded: 11/27/12 By: Sue

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

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
7.1	6.8	6.2	5.9	-0.3	294			
7.3	7.3	7.8	7.8	0	298			
6.1	5.8	5.5	5.2	-0.3	259			
9.3	9.3	9.5	9.5	0	309			
7.0	6.7	10.2	9.9	-0.3	308			

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
DW-4	1 HCL/MC VOA			X						

SHORT HOLD TIME

Notes, Discrepancies, & Resolutions: _____

PC Lisa

Cooler Receipt and Preservation Form

Client / Project: Kennedy / Jenks Service Request *K12* 1211802

Received: 11/27/12 Opened: 11/27/12 By: [illegible] Unloaded: 11/27/12 By: [illegible]

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

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
9.5	9.5	10.4	10.4	Ø	319			
8.5	8.5	7.7	7.7	Ø	287			
4.5	4.3	6.6	6.4	-0.2	276			

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

Sample ID on Bottle	Sample ID on COC	Identified by:

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

Notes, Discrepancies, & Resolutions: _____

CHAIN OF CUSTODY

Columbia Analytical Services, Inc. 1317 S. 13th Ave.
Kelso, WA 98626 (360) 577-7222

Service Request # K1211802

Company: Kennedy/Jenks	PWS ID:
Address: 200 SW MARKET ST SUITE 500	PWS NAME:
City: Portland State: OR Zip: 97201	P.O./Project Name:
Tel: 503-295-4911 Fax: 503-295-4901 E-mail: STEVEN MINNER@KENNEDYJENKS.COM	Project Manager:
Sampler(s) Name & Signature: Aaron Lawke	Samples Chlorinated: Yes____ No____
	Compliance Sample: Yes____ No____ Report to State: Yes____ No____

Sample I.D.	Source Type (see table below)	Date sampled	Time Sampled	Number of Containers	Primary IOCs (Check) or (All) □As □Ba □Be □Cd □Cr □Ag,Hg □Ni □Se □Na □Cyanide □Fluoride □Nitrate □Nitrite	Lead/Copper	Secondary IOCs (Check) □XAl □XFe □XMn □XAg □XZn □XCa □XMg □xChloride □XColor □XSulfate □XTDS □XHardness □XFoaming Agents □XConductivity X□Silica □XOPhosphate □Other	Disinfection By-Products: Haloacetic Acids (HAA) 552.2	Trihalomethanes (TTHM) 524.2	□XTOC□Bromide□Bromate□Chlorite	Synthetic Organic Chemicals: Semi-Volatiles 525.2 □ Regulated □ Unregulated	Pesticides/PCBs 508.1	Volatiles 524.2 □Reg. □UnReg.	EDB/DBCP/TCP 504.1	Chlorinated Acids 515.4	Carbamates 531.1	□Glyphosate 547□Endothall 548.1	Diquat/Paraquat 549.2	Other Analysis (Specify)	Remarks:
DW-9	DW	11-28-12	1130		All X	X	All X			X		X	X	X	X	x	x	x	x	Please see below for other extra tests:
																				Arsenic speciation needed
																				Fecal coliform and E coli
																				UV 254
																				Alkalinity

Source Type		
DW- Drinking Water	Relinquished by: [signature] Date/Time: 11-28-12 1401/1210	Received by: [signature] Date/Time: 11/28/12 1240
SW - Surface Water	Relinquished by: Date/Time:	Received by: Date/Time:
RW - Raw Water	Relinquished by: Date/Time:	Received by: Date/Time:
GW - Ground Water	Special Instructions/Comments:	
TW - Treated Water		

X Other Analysis: Dioxin needed, Radiochemistry to ACZ, Liquid Sulfur to CAS Tucson, Asbestos to LabCor

ALS

PC Lisa

Cooler Receipt and Preservation Form

Client / Project: Kennedy Jenks Service Request *K12* 11802

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

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

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID (NA)	Tracking Number (NA)	Filed
2.1	2.0	5.9	5.8	-0.1	299			
8.2	8.0	10.7	10.5	-0.2	304			

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
D0-9	8, 1000 Plastic	✓								
	4, 500 Plastic	✓								
	4, Trip Blanks	✓								
	10 40ml VOA's	✓								
	2, CCL	✓								
	1, 250ml Amber, 1, 125ml Amber	✓								

Notes, Discrepancies, & Resolutions: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26-11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26-11/28/2012

Coliform, Total

Prep Method:	NONE	Units:	MPN/100ml
Analysis Method:	SM 9223 B	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Analyzed	Time Test Started		Result	Result Notes
DW-1	K1211802-001	1.0	1	11/26/2012	19:00	hrs	ND	
DW-7	K1211802-002	1.0	1	11/27/2012	19:00	hrs	ND	
DW-6	K1211802-004	1.0	1	11/27/2012	17:20	hrs	ND	*
DW-5	K1211802-005	1.0	1	11/27/2012	17:20	hrs	ND	
DW-2	K1211802-006	1.0	1	11/27/2012	17:20	hrs	ND	
DUP-1	K1211802-007	1.0	1	11/27/2012	17:20	hrs	ND	
DW-9	K1211802-009	1.0	1	11/28/2012	16:29	hrs	2.0	

SM *Standard Methods for the Examination of Water and Wastewater* , 20th Ed., 1998.

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	150.1	**Units:**	pH Units
		Basis:	NA

pH

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**7.40**	-	1	11/26/12 17:41	H
DW-7	K1211802-002	**7.59**	-	1	11/26/12 17:44	H
DW-6	K1211802-004	**7.62**	-	1	11/27/12 17:47	H
DW-5	K1211802-005	**7.75**	-	1	11/27/12 17:54	H
DW-2	K1211802-006	**7.99**	-	1	11/27/12 17:59	H
DUP-1	K1211802-007	**8.00**	-	1	11/27/12 18:03	H
DW-9	K1211802-009	**7.51**	-	1	11/28/12 18:00	H

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking Water	**Date Received:**	11/27/12
		Date Analyzed:	11/27/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	DW-6	**Units:**	pH Units
Lab Code:	K1211802-004	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-004DUP Result	Average	RPD	RPD Limit
pH	150.1	-	7.62	7.64	7.63	<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: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/26/12

Lab Control Sample Summary
pH

Analysis Method: 150.1

Units:pH Units
Basis:NA
Analysis Lot:320026

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	7.63	7.65	100	85-115

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/27/12

Lab Control Sample Summary
pH

Analysis Method: 150.1

Units:pH Units
Basis:NA
Analysis Lot:320138

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS2	7.63	7.65	100	85-115

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/28/12

Lab Control Sample Summary
pH

Analysis Method: 150.1

Units:pH Units
Basis:NA
Analysis Lot:320363

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS3	7.61	7.65	99	85-115

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	180.1	**Units:**	NTU
		Basis:	NA

Turbidity

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**8.75**	0.20	1	11/27/12 11:11	
DW-7	K1211802-002	**3.94**	0.20	1	11/27/12 11:12	
DW-6	K1211802-004	**1.86**	0.20	1	11/27/12 17:35	
DW-5	K1211802-005	**0.92**	0.20	1	11/27/12 17:40	
DW-2	K1211802-006	**1.20**	0.20	1	11/27/12 17:40	
DUP-1	K1211802-007	**1.17**	0.20	1	11/27/12 17:45	
DW-9	K1211802-009	**1.08**	0.20	1	11/28/12 16:30	
Method Blank	K1211802-MB1	ND U	0.20	1	11/27/12 11:09	
Method Blank	K1211802-MB2	ND U	0.20	1	11/28/12 11:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	DW-1	**Units:**	NTU
Lab Code:	K1211802-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-001DUP Result	Average	RPD	RPD Limit
Turbidity	180.1	0.20	8.75	8.68	8.72	<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: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/27/12

Lab Control Sample Summary
Turbidity

Analysis Method: 180.1

Units:NTU
Basis:NA
Analysis Lot:320000

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	3.21	3.44	93	82-101

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/28/12

Lab Control Sample Summary
Turbidity

Analysis Method: 180.1

Units:NTU
Basis:NA
Analysis Lot:320181

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS2	3.01	3.44	88	82-101

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**4.67**	0.40	2	11/27/12 09:38	
DW-7	K1211802-002	**6.40**	0.40	2	11/27/12 09:51	
DW-6	K1211802-004	**49.1**	4.0	20	11/27/12 22:52	
DW-5	K1211802-005	**46.5**	4.0	20	11/27/12 23:05	
DW-2	K1211802-006	**16.0**	0.40	2	11/27/12 22:25	
DUP-1	K1211802-007	**15.8**	0.40	2	11/27/12 22:39	
DW-9	K1211802-009	**10.1**	0.40	2	11/28/12 15:54	
Method Blank	K1211802-MB1	ND U	0.20	1	11/27/12 08:05	
Method Blank	K1211802-MB2	ND U	0.20	1	11/28/12 08:23	
Method Blank	K1211802-MB3	ND U	0.20	1	11/28/12 14:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-001DUP Result	Average	RPD	RPD Limit
Chloride	300.0	0.40	4.67	4.60	4.63	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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Duplicate Matrix Spike Summary
Chloride

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA
Analysis Method:	300.0		

		Matrix Spike K1211802-001MS			Duplicate Matrix Spike K1211802-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chloride	4.67	8.89	4.00	106	8.83	4.00	104	90-110	<1	20

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/27/12

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:319919

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	4.62	5.00	92	90-110

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/28/12

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:320142

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS2	4.85	5.00	97	90-110
Lab Control Sample	K1211802-LCS3	4.85	5.00	97	90-110

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Fluoride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	ND U	0.40	2	11/27/12 09:38	
DW-7	K1211802-002	ND U	0.40	2	11/27/12 09:51	
DW-6	K1211802-004	ND U	0.40	2	11/27/12 21:32	
DW-5	K1211802-005	ND U	0.40	2	11/27/12 21:45	
DW-2	K1211802-006	ND U	0.40	2	11/27/12 22:25	
DUP-1	K1211802-007	ND U	0.40	2	11/27/12 22:39	
DW-9	K1211802-009	ND U	0.40	2	11/28/12 15:54	
Method Blank	K1211802-MB1	ND U	0.20	1	11/27/12 08:05	
Method Blank	K1211802-MB2	ND U	0.20	1	11/28/12 08:23	
Method Blank	K1211802-MB3	ND U	0.20	1	11/28/12 14:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Replicate Sample Summary

General Chemistry Parameters

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-001DUP Result	Average	RPD	RPD Limit
Fluoride	300.0	0.40	ND	ND	NC	NC	20

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Duplicate Matrix Spike Summary
Fluoride

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA
Analysis Method:	300.0		

		Matrix Spike K1211802-001MS			Duplicate Matrix Spike K1211802-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Fluoride	ND	4.36	4.00	109	4.38	4.00	110	90-110	<1	20

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/27/12

Lab Control Sample Summary
Fluoride

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:319919

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	16.8	17.2	98	90-110

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/28/12

Lab Control Sample Summary
Fluoride

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:320142

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS2	16.8	17.2	98	90-110

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Nitrite as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	ND U	0.10	2	11/27/12 09:38	
DW-7	K1211802-002	ND U	0.10	2	11/27/12 09:51	
DW-6	K1211802-004	ND U	0.10	2	11/27/12 21:32	
DW-5	K1211802-005	ND U	0.10	2	11/27/12 21:45	
DW-2	K1211802-006	ND U	0.10	2	11/27/12 22:25	
DUP-1	K1211802-007	ND U	0.10	2	11/27/12 22:39	
DW-9	K1211802-009	ND U	0.10	2	11/28/12 15:54	
Method Blank	K1211802-MB1	ND U	0.050	1	11/27/12 08:05	
Method Blank	K1211802-MB2	ND U	0.050	1	11/28/12 08:23	
Method Blank	K1211802-MB3	ND U	0.050	1	11/28/12 14:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-001DUP Result	Average	RPD	RPD Limit
Nitrite as Nitrogen	300.0	0.10	ND	ND	NC	NC	20

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Duplicate Matrix Spike Summary
Nitrite as Nitrogen

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA
Analysis Method:	300.0		

		Matrix Spike K1211802-001MS			Duplicate Matrix Spike K1211802-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrite as Nitrogen	ND	4.10	4.00	102	4.08	4.00	102	90-110	<1	20

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/27/12

Lab Control Sample Summary
Nitrite as Nitrogen

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:319919

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	106	100	106	90-110

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/28/12

Lab Control Sample Summary
Nitrite as Nitrogen

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:320142

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS2	107	100	107	90-110

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	ND U	0.10	2	11/27/12 09:38	
DW-7	K1211802-002	ND U	0.10	2	11/27/12 09:51	
DW-6	K1211802-004	ND U	0.10	2	11/27/12 21:32	
DW-5	K1211802-005	ND U	0.10	2	11/27/12 21:45	
DW-2	K1211802-006	ND U	0.10	2	11/27/12 22:25	
DUP-1	K1211802-007	ND U	0.10	2	11/27/12 22:39	
DW-9	K1211802-009	**0.19**	0.10	2	11/28/12 15:54	
Method Blank	K1211802-MB1	ND U	0.050	1	11/27/12 08:05	
Method Blank	K1211802-MB2	ND U	0.050	1	11/28/12 08:23	
Method Blank	K1211802-MB3	ND U	0.050	1	11/28/12 14:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-001DUP Result	Average	RPD	RPD Limit
Nitrate as Nitrogen	300.0	0.10	ND	ND	NC	NC	20

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA
Analysis Method:	300.0		

		Matrix Spike K1211802-001MS			Duplicate Matrix Spike K1211802-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrate as Nitrogen	ND	3.74	4.00	94	3.73	4.00	93	90-110	<1	20

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/27/12

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:319919

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	18.3	17.7	103	90-110

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/28/12

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:320142

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS2	17.9	17.7	101	90-110
Lab Control Sample	K1211802-LCS3	17.9	17.7	101	90-110

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**1.22**	0.20	2	11/27/12 09:38	
DW-7	K1211802-002	**1.46**	0.20	2	11/27/12 09:51	
DW-6	K1211802-004	**0.21**	0.20	2	11/27/12 21:32	
DW-5	K1211802-005	**0.25**	0.20	2	11/27/12 21:45	
DW-2	K1211802-006	ND U	0.20	2	11/27/12 22:25	
DUP-1	K1211802-007	ND U	0.20	2	11/27/12 22:39	
DW-9	K1211802-009	ND U	0.20	2	11/28/12 15:54	
Method Blank	K1211802-MB1	ND U	0.10	1	11/27/12 08:05	
Method Blank	K1211802-MB2	ND U	0.10	1	11/28/12 08:23	
Method Blank	K1211802-MB3	ND U	0.10	1	11/28/12 14:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-001DUP Result	Average	RPD	RPD Limit
Sulfate	300.0	0.20	1.22	1.20	1.21	2	20

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Duplicate Matrix Spike Summary
Sulfate

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA
Analysis Method:	300.0		

		Matrix Spike K1211802-001MS			Duplicate Matrix Spike K1211802-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sulfate	1.22	5.11	4.00	97	5.08	4.00	97	90-110	<1	20

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/27/12

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:319919

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	4.62	5.00	92	90-110

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/28/12

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units:mg/L
Basis:NA
Analysis Lot:320142

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS2	4.87	5.00	97	90-110
Lab Control Sample	K1211802-LCS3	4.91	5.00	98	90-110

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	335.4	**Units:**	mg/L
Prep Method:	Method	**Basis:**	NA

Cyanide, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
DW-1	K1211802-001	ND U	0.010	1	12/01/12 13:47	12/1/12	
DW-7	K1211802-002	ND U	0.010	1	12/01/12 13:47	12/1/12	
DW-6	K1211802-004	ND U	0.010	1	12/01/12 13:47	12/1/12	
DW-5	K1211802-005	ND U	0.010	1	12/01/12 13:47	12/1/12	
DW-2	K1211802-006	ND U	0.010	1	12/01/12 13:47	12/1/12	
DUP-1	K1211802-007	ND U	0.010	1	12/01/12 13:47	12/1/12	
DW-9	K1211802-009	ND U	0.010	1	12/01/12 13:47	12/1/12	
Method Blank	K1211802-MB1	ND U	0.010	1	12/01/12 13:47	12/1/12	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
		Date Analyzed:	12/01/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	Batch QC	**Units:**	mg/L
Lab Code:	KQ1214107-14	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample KQ1214107-14DUP Result	Average	RPD	RPD Limit
Cyanide, Total	335.4	0.010	0.016	0.016	0.0161	2	20

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COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	N/A
Sample Matrix:	Drinking Water	**Date Received:**	N/A
		Date Analyzed:	12/1/12
		Date Extracted:	12/1/12

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name:	Batch QC	**Units:**	mg/L
Lab Code:	KQ1214107-14	**Basis:**	NA
Analysis Method:	335.4		
Prep Method:	Method		

		Matrix Spike KQ1214107-14MS				Duplicate Matrix Spike KQ1214107-14DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**		**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cyanide, Total	0.016	0.079	0.100	63 *		0.078	0.100	62 *	90-110	2	20

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Analyzed:**	12/01/12
Sample Matrix:	Drinking Water	**Date Extracted:**	12/01/12

Lab Control Sample Summary
Cyanide, Total

Analysis Method:	335.4	**Units:**	mg/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	321023

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	0.145	0.146	99	90-110

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	350.1	**Units:**	mg/L
		Basis:	NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**0.367**	0.050	1	11/30/12 08:13	
DW-7	K1211802-002	**0.277**	0.050	1	11/30/12 08:13	
DW-6	K1211802-004	**0.125**	0.050	1	11/30/12 08:13	
DW-5	K1211802-005	**0.068**	0.050	1	11/30/12 08:13	
DW-2	K1211802-006	**0.056**	0.050	1	11/30/12 08:13	
DUP-1	K1211802-007	**0.054**	0.050	1	11/30/12 08:13	
DW-9	K1211802-009	**0.163**	0.050	1	11/30/12 08:13	
Method Blank	K1211802-MB1	ND	0.050	1	11/30/12 08:13	U
Method Blank	K1211802-MB2	ND	0.050	1	11/30/12 08:13	U

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/30/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-001DUP Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.050	0.367	0.367	0.367	<1	20

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/30/12

Duplicate Matrix Spike Summary
Ammonia as Nitrogen

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA
Analysis Method:	350.1		

		Matrix Spike K1211802-001MS			Duplicate Matrix Spike K1211802-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ammonia as Nitrogen	0.367	2.38	2.00	101	2.35	2.00	99	90-110	1	20

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/30/12

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: 350.1

Units:mg/L
Basis:NA
Analysis Lot:320530

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	10.6	10.9	97	90-110
Lab Control Sample	K1211802-LCS2	10.6	10.9	98	90-110

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	365.3	**Units:**	mg/L
		Basis:	NA

Orthophosphate as Phosphorus

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**0.230**	0.010	1	11/27/12 11:40	
DW-7	K1211802-002	**0.292**	0.010	1	11/27/12 11:40	
DW-6	K1211802-004	**0.293**	0.010	1	11/28/12 08:50	
DW-5	K1211802-005	**0.402**	0.010	1	11/28/12 08:50	
DW-2	K1211802-006	**0.430**	0.010	1	11/28/12 08:50	
DUP-1	K1211802-007	**0.364**	0.010	1	11/28/12 08:50	
DW-9	K1211802-009	**0.392**	0.010	1	11/29/12 10:10	
Method Blank	K1211802-MB1	ND U	0.010	1	11/27/12 11:40	
Method Blank	K1211802-MB2	ND U	0.010	1	11/28/12 08:50	
Method Blank	K1211802-MB3	ND U	0.010	1	11/29/12 10:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	365.3	**Units:**	mg/L
		Basis:	NA

Duplicate Sample Summary

Orthophosphate as Phosphorus

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
DW-7	K1211802-002DUP	0.010	0.292	0.300	0.296	3	20	11/27/12
DW-6	K1211802-004DUP	0.010	0.293	0.290	0.291	1	20	11/28/12
DW-9	K1211802-009DUP	0.010	0.392	0.399	0.395	2	20	11/29/12

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/27/12

Duplicate Matrix Spike Summary
Orthophosphate as Phosphorus

Sample Name:	DW-7	**Units:**	mg/L
Lab Code:	K1211802-002	**Basis:**	NA
Analysis Method:	365.3		

		Matrix Spike K1211802-002MS			Duplicate Matrix Spike K1211802-002DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Orthophosphate as Phosphorus	0.292	0.481	0.200	94	0.673	0.400	95	60-130	1	20

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking Water	**Date Received:**	11/27/12
		Date Analyzed:	11/28/12

Duplicate Matrix Spike Summary
Orthophosphate as Phosphorus

Sample Name:	DW-6	**Units:**	mg/L
Lab Code:	K1211802-004	**Basis:**	NA
Analysis Method:	365.3		

		Matrix Spike K1211802-004MS			Duplicate Matrix Spike K1211802-004DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Orthophosphate as Phosphorus	0.293	0.489	0.200	98	0.705	0.400	103	60-130	5	20

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/28/12
		Date Analyzed:	11/29/12

Duplicate Matrix Spike Summary
Orthophosphate as Phosphorus

Sample Name:	DW-9	**Units:**	mg/L
Lab Code:	K1211802-009	**Basis:**	NA
Analysis Method:	365.3		

		Matrix Spike K1211802-009MS			Duplicate Matrix Spike K1211802-009DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Orthophosphate as Phosphorus	0.392	0.626	0.200	117	0.835	0.400	111	60-130	5	20

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/27/12

Lab Control Sample Summary
Orthophosphate as Phosphorus

Analysis Method: 365.3

Units:mg/L
Basis:NA
Analysis Lot:320004

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	4.08	4.09	100	85-115

COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/28/12

Lab Control Sample Summary
Orthophosphate as Phosphorus

Analysis Method: 365.3

Units:mg/L
Basis:NA
Analysis Lot:320622

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS2	4.10	4.09	100	85-115

COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/29/12

Lab Control Sample Summary
Orthophosphate as Phosphorus

Analysis Method: 365.3

Units:mg/L
Basis:NA
Analysis Lot:320623

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS3	4.06	4.09	99	85-115

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 2120 B	**Units:**	ColorUnits
		Basis:	NA

Color

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**20.0**	5.0	1	11/27/12 12:25	
DW-7	K1211802-002	**20.0**	5.0	1	11/27/12 12:25	
DW-6	K1211802-004	**25.0**	5.0	1	11/27/12 12:25	
DW-5	K1211802-005	**15.0**	5.0	1	11/27/12 12:25	
DW-2	K1211802-006	**15.0**	5.0	1	11/27/12 12:25	
DUP-1	K1211802-007	**15.0**	5.0	1	11/27/12 12:25	
DW-9	K1211802-009	**20.0**	5.0	1	11/30/12 10:47	
Method Blank	K1211802-MB1	ND U	5.0	1	11/27/12 12:25	
Method Blank	K1211802-MB2	ND U	5.0	1	11/27/12 12:25	
Method Blank	K1211802-MB3	ND U	5.0	1	11/30/12 10:47	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 2120 B	**Units:**	ColorUnits
		Basis:	NA

Duplicate Sample Summary

Color

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
DW-1	K1211802-001DUP	5.0	20.0	20.0	20.0	<1	20	11/27/12
DW-9	K1211802-009DUP	5.0	20.0	20.0	20.0	<1	20	11/30/12

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/27/12

Lab Control Sample Summary
Color

Analysis Method: SM 2120 B

Units: ColorUnits
Basis:NA
Analysis Lot:320318

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	65.0	65.0	100	85-115

COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/30/12

Lab Control Sample Summary
Color

Analysis Method: SM 2120 B

Units: ColorUnits
Basis:NA
Analysis Lot:320549

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS2	65.0	65.0	100	85-115

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 2320 B	**Units:**	mg/L
		Basis:	NA

Alkalinity as CaCO3, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**88.5**	9.0	1	11/29/12 07:02	
DW-7	K1211802-002	**88.9**	9.0	1	11/29/12 07:02	
DW-6	K1211802-004	**94.1**	9.0	1	11/29/12 07:02	
DW-5	K1211802-005	**104**	9.0	1	11/29/12 07:02	
DW-2	K1211802-006	**138**	9.0	1	11/29/12 07:02	
DUP-1	K1211802-007	**137**	9.0	1	11/29/12 07:02	
DW-9	K1211802-009	**105**	9.0	1	11/29/12 07:02	
Method Blank	K1211802-MB1	ND U	9.0	1	11/29/12 07:02	
Method Blank	K1211802-MB2	ND U	9.0	1	11/29/12 07:02	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
Analysis Method:	SM 2320 B	**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	K1210669-001DUP	90	824	783	804	5	20	11/29/12
Batch QC	K1211676-001DUP	9.0	186	189	188	2	20	11/29/12
Batch QC	K1211865-002DUP	9.0	320	368	344	14	20	11/29/12
Batch QC	K1211865-016DUP	9.0	275	284	280	3	20	11/29/12

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/29/12

Lab Control Sample Summary
Alkalinity as CaCO3, Total

Analysis Method: SM 2320 B

Units:mg/L
Basis:NA
Analysis Lot:320470

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	117	122	96	90-110
Lab Control Sample	K1211802-LCS2	121	122	99	90-110

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 2510 B	**Units:**	uMHOS/cm
		Basis:	NA

Conductivity at 25 Degrees Celsius

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**208**	2.0	1	12/07/12 09:00	
DW-7	K1211802-002	**209**	2.0	1	12/07/12 09:00	
DW-6	K1211802-004	**383**	2.0	1	12/07/12 09:00	
DW-5	K1211802-005	**388**	2.0	1	12/07/12 09:00	
DW-2	K1211802-006	**319**	2.0	1	12/07/12 09:00	
DUP-1	K1211802-007	**329**	2.0	1	12/07/12 09:00	
DW-9	K1211802-009	**247**	2.0	1	12/07/12 09:00	
Method Blank	K1211802-MB1	ND	2.0	1	12/07/12 09:00	U

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/28/12
		Date Analyzed:	12/07/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	DW-9	**Units:**	uMHOS/cm
Lab Code:	K1211802-009	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-009DUP Result	Average	RPD	RPD Limit
Conductivity at 25 Degrees Celsius	SM 2510 B	2.0	247	245	246	<1	20

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:12/07/12

Lab Control Sample Summary
Conductivity at 25 Degrees Celsius

Analysis Method: SM 2510 B

Units:uMHOS/cm
Basis:NA
Analysis Lot:321715

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	336	330	102	86-113

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 2540 C	**Units:**	mg/L
		Basis:	NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**166**	10	1	11/29/12 12:00	
DW-7	K1211802-002	**169**	10	1	11/29/12 12:00	
DW-6	K1211802-004	**269**	10	1	11/29/12 12:00	
DW-5	K1211802-005	**239**	10	1	11/29/12 12:00	
DW-2	K1211802-006	**214**	10	1	11/29/12 12:00	
DUP-1	K1211802-007	**202**	10	1	11/29/12 12:00	
DW-9	K1211802-009	**190**	20	1	11/29/12 12:00	
Method Blank	K1211802-MB1	ND U	5.0	1	11/29/12 12:00	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
Analysis Method:	SM 2540 C	**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	K1211863-001DUP	10	407	414	411	2	10	11/29/12
Batch QC	K1211865-002DUP	20	760	698	729	9	10	11/29/12

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COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/29/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units:mg/L
Basis:NA
Analysis Lot:320430

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	1800	1810	99	90-108

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 4500-SiO2 C	**Units:**	mg/L
		Basis:	NA

Silica, Dissolved as SiO2

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**81.6**	1.3	25	12/07/12 14:10	
DW-7	K1211802-002	**74.1**	1.3	25	12/07/12 14:10	
DW-6	K1211802-004	**52.4**	1.3	25	12/07/12 14:10	
DW-5	K1211802-005	**49.9**	1.3	25	12/07/12 14:10	
DW-2	K1211802-006	**48.5**	1.3	25	12/07/12 14:10	
DUP-1	K1211802-007	**47.2**	1.3	25	12/07/12 14:10	
DW-9	K1211802-009	**55.6**	1.3	25	12/07/12 14:10	
Method Blank	K1211802-MB1	ND U	0.050	1	12/07/12 14:10	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
		Date Analyzed:	12/07/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	Batch QC	**Units:**	mg/L
Lab Code:	K1212103-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1212103-001DUP Result	Average	RPD	RPD Limit
Silica, Dissolved as SiO2	SM 4500-SiO2 C	0.25	10.4	10.4	10.4	<1	20

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	N/A
Sample Matrix:	Drinking Water	**Date Received:**	N/A
		Date Analyzed:	12/7/12

Duplicate Matrix Spike Summary
Silica, Dissolved as SiO2

Sample Name:	Batch QC	**Units:**	mg/L
Lab Code:	K1212103-001	**Basis:**	NA
Analysis Method:	SM 4500-SiO2 C		

		Matrix Spike K1212103-001MS				Duplicate Matrix Spike K1212103-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Silica, Dissolved as SiO2	10.4	16.2	4.98	117	16.2	4.98	115	73-130	<1	20

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

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:12/07/12

Lab Control Sample Summary
Silica, Dissolved as SiO2

Analysis Method: SM 4500-SiO2 C

Units:mg/L
Basis:NA
Analysis Lot:321587

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	2.08	1.99	105	85-117

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 5310 C	**Units:**	mg/L
		Basis:	NA

Carbon, Dissolved Organic (DOC)

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**1.10**	0.50	1	11/30/12 21:00	
DW-7	K1211802-002	**1.30**	0.50	1	11/30/12 21:00	
DW-6	K1211802-004	**1.67**	0.50	1	11/30/12 21:00	
DW-5	K1211802-005	**1.23**	0.50	1	11/30/12 21:00	
DW-2	K1211802-006	**2.17**	0.50	1	11/30/12 21:00	
DUP-1	K1211802-007	**1.91**	0.50	1	11/30/12 21:00	
DW-9	K1211802-009	**1.26**	0.50	1	11/30/12 21:00	
Method Blank	K1211802-MB1	ND U	0.50	1	11/30/12 21:00	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 5310 C	**Units:**	mg/L
		Basis:	NA

Duplicate Sample Summary
Carbon, Dissolved Organic (DOC)

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
DW-1	K1211802-001DUP	0.50	1.10	0.88	0.988	22 *	10	11/30/12
DW-7	K1211802-002DUP	0.50	1.30	1.19	1.24	9	10	11/30/12
DW-6	K1211802-004DUP	0.50	1.67	1.60	1.64	4	10	11/30/12
DW-5	K1211802-005DUP	0.50	1.23	1.24	1.24	<1	10	11/30/12
DW-2	K1211802-006DUP	0.50	2.17	1.97	2.07	10	10	11/30/12
DUP-1	K1211802-007DUP	0.50	1.91	1.91	1.91	<1	10	11/30/12
DW-9	K1211802-009DUP	0.50	1.26	1.22	1.24	3	10	11/30/12

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

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/30/12

Matrix Spike Summary
Carbon, Dissolved Organic (DOC)

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA
Analysis Method:	SM 5310 C		

Matrix Spike
K1211802-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Dissolved Organic (DOC)	1.10	26.2	25.0	100	83-117

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COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/30/12

Lab Control Sample Summary
Carbon, Dissolved Organic (DOC)

Analysis Method: SM 5310 C

Units:mg/L
Basis:NA
Analysis Lot:320581

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	23.2	22.7	102	83-117

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 5310 C	**Units:**	mg/L
		Basis:	NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**1.06**	0.50	1	11/30/12 21:00	
DW-7	K1211802-002	**1.00**	0.50	1	11/30/12 21:00	
DW-6	K1211802-004	**0.96**	0.50	1	11/30/12 21:00	
DW-5	K1211802-005	**0.99**	0.50	1	11/30/12 21:00	
DW-2	K1211802-006	**1.36**	0.50	1	11/30/12 21:00	
DUP-1	K1211802-007	**1.39**	0.50	1	11/30/12 21:00	
DW-9	K1211802-009	**1.07**	0.50	1	11/30/12 21:00	
Method Blank	K1211802-MB1	ND U	0.50	1	11/30/12 21:00	
Method Blank	K1211802-MB2	ND U	0.50	1	11/30/12 21:00	
Method Blank	K1211802-MB3	ND U	0.50	1	11/30/12 21:00	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 5310 C	**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
DW-1	K1211802-001DUP	0.50	1.06	0.98	1.02	7	10	11/30/12
DW-7	K1211802-002DUP	0.50	1.00	0.97	0.988	3	10	11/30/12
DW-6	K1211802-004DUP	0.50	0.96	0.95	0.956	<1	10	11/30/12
DW-5	K1211802-005DUP	0.50	0.99	0.97	0.983	2	10	11/30/12
DW-2	K1211802-006DUP	0.50	1.36	1.37	1.36	<1	10	11/30/12
DUP-1	K1211802-007DUP	0.50	1.39	1.33	1.36	5	10	11/30/12
DW-9	K1211802-009DUP	0.50	1.07	1.02	1.04	5	10	11/30/12

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COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	N/A
Sample Matrix:	Drinking Water	**Date Received:**	N/A
		Date Analyzed:	11/30/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name:	Batch QC	**Units:**	mg/L
Lab Code:	K1211560-009	**Basis:**	NA
Analysis Method:	SM 5310 C		

Matrix Spike
K1211560-009MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	1.16	26.3	25.0	101	83-117

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COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	N/A
Sample Matrix:	Drinking Water	**Date Received:**	N/A
		Date Analyzed:	11/30/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name:	Batch QC	**Units:**	mg/L
Lab Code:	K1211920-011	**Basis:**	NA
Analysis Method:	SM 5310 C		

Matrix Spike
K1211920-011MS

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

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COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	N/A
Sample Matrix:	Drinking Water	**Date Received:**	N/A
		Date Analyzed:	11/30/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name:	Batch QC	**Units:**	mg/L
Lab Code:	K1212117-002	**Basis:**	NA
Analysis Method:	SM 5310 C		

Matrix Spike
K1212117-002MS

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

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COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm
Sample Matrix: Drinking Water

Service Request:K1211802
Date Analyzed:11/30/12

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method: SM 5310 C

Units:mg/L
Basis:NA
Analysis Lot:320582

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	22.9	22.7	101	83-117
Lab Control Sample	K1211802-LCS2	22.8	22.7	100	83-117
Lab Control Sample	K1211802-LCS3	22.5	22.7	99	83-117

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 5540 C	**Units:**	mg/L
Prep Method:	Method	**Basis:**	NA

Methylene Blue Active Substances

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
DW-1	K1211802-001	ND U	0.050	1	11/28/12 10:34	11/28/12	
DW-7	K1211802-002	ND U	0.050	1	11/28/12 10:34	11/28/12	
DW-6	K1211802-004	ND U	0.050	1	11/28/12 10:34	11/28/12	
DW-5	K1211802-005	ND U	0.050	1	11/28/12 10:34	11/28/12	
DW-2	K1211802-006	ND U	0.050	1	11/28/12 10:34	11/28/12	
DUP-1	K1211802-007	ND U	0.050	1	11/28/12 10:34	11/28/12	
DW-9	K1211802-009	ND U	0.050	1	11/29/12 10:20	11/28/12	
Method Blank	K1211802-MB1	ND U	0.050	1	11/28/12 10:34	11/28/12	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/28/12

Replicate Sample Summary

General Chemistry Parameters

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1211802-001DUP Result	Average	RPD	RPD Limit
Methylene Blue Active Substances	SM 5540 C	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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
		Date Analyzed:	11/28/12
		Date Extracted:	11/28/12

Duplicate Matrix Spike Summary
Methylene Blue Active Substances

Sample Name:	DW-1	**Units:**	mg/L
Lab Code:	K1211802-001	**Basis:**	NA
Analysis Method:	SM 5540 C		
Prep Method:	Method		

		Matrix Spike K1211802-001MS			Duplicate Matrix Spike K1211802-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Methylene Blue Active Substances	ND	0.120	0.160	75	0.156	0.160	98	70-130	26*	20

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COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Analyzed:**	11/28/12
Sample Matrix:	Drinking Water	**Date Extracted:**	11/28/12

Lab Control Sample Summary
Methylene Blue Active Substances

Analysis Method:	SM 5540 C	**Units:**	mg/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	320170

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1211802-LCS1	0.410	0.40	103	70-130

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

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 5910 B	**Units:**	cm-1
		Basis:	NA

UV254

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	**0.070**	-	1	11/28/12 11:20	
DW-7	K1211802-002	**0.038**	-	1	11/28/12 11:20	
DW-6	K1211802-004	**0.036**	-	1	11/28/12 11:20	
DW-5	K1211802-005	**0.035**	-	1	11/28/12 11:20	
DW-2	K1211802-006	**0.052**	-	1	11/28/12 11:20	
DUP-1	K1211802-007	**0.047**	-	1	11/28/12 11:20	
DW-9	K1211802-009	**0.051**	-	1	11/30/12 11:09	
Method Blank	K1211802-MB1	**0.000**	-	1	11/28/12 11:20	
Method Blank	K1211802-MB2	**0.00**	-	1	11/30/12 11:09	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 5910 B	**Units:**	cm-1
		Basis:	NA

Duplicate Sample Summary

UV254

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
DW-1	K1211802-001DUP	-	0.070	0.070	0.0700	<1	20	11/28/12
DW-9	K1211802-009DUP	-	0.051	0.051	0.0510	<1	20	11/30/12

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COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 - 11/28/12
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12 - 11/28/12
Analysis Method:	SM 9221 E	**Units:**	MPN/100mL
		Basis:	NA

Coliform, Fecal

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW-1	K1211802-001	ND U	1.8	1	11/26/12 16:47	
DW-7	K1211802-002	ND U	1.8	1	11/26/12 16:47	
DW-6	K1211802-004	ND U	1.8	1	11/27/12 17:09	*
DW-5	K1211802-005	ND U	1.8	1	11/27/12 17:09	
DW-2	K1211802-006	ND U	1.8	1	11/27/12 17:09	
DUP-1	K1211802-007	ND U	1.8	1	11/27/12 17:09	
DW-9	K1211802-009	ND U	1.8	1	11/28/12 17:22	

COLUMBIA ANALYTICAL SERVICES, INC.
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- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Kennedy/Jenks Consultants, Incorporated
Project Name: Mint Farm
Project No.:

Service Request: K1211802

Sample Name:	Lab Code:
DW-1	K1211802-001
DW-1D	K1211802-001D
DW-1S	K1211802-001S
DW-7	K1211802-002
DW-6	K1211802-004
DW-5	K1211802-005
DW-2	K1211802-006
DW-2D	K1211802-006D
DW-2S	K1211802-006S
DUP-1	K1211802-007
DW-9	K1211802-009
Method Blank	K1211802-MB

Comments:

Metals

INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1211802
Project No.:	NA	**Date Collected:**	11/26/12
Project Name:	Mint Farm	**Date Received:**	11/26/12
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: **DW-1** **Lab Code:** **K1211802-001**

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.2	1.1		11/30/12	2.2	U	
Antimony	200.8	0.05	1.0		12/03/12	0.05	U	
Arsenic	200.8	0.5	1.0		12/03/12	3.9		
Barium	200.8	0.05	1.0		12/03/12	10.9		
Beryllium	200.8	0.02	1.0		12/03/12	0.02	U	
Cadmium	200.8	0.02	1.0		12/03/12	0.02	U	
Calcium	200.7	55.6	1.1		11/30/12	20100		
Chromium	200.8	0.2	1.0		12/03/12	0.2	U	
Copper	200.8	0.1	1.0		12/03/12	0.1	U	
Iron	200.7	11.1	1.1		11/30/12	2280		
Lead	200.8	0.02	1.0		12/03/12	0.02	U	
Magnesium	200.7	2.2	1.1		11/30/12	5100		
Manganese	200.7	0.7	1.1		11/30/12	562		
Mercury	245.1	0.2	1.0	12/03/12	12/04/12	0.2	U	
Nickel	200.8	0.2	1.0		12/03/12	0.2	U	
Potassium	200.7	111	1.1		11/30/12	2510		
Selenium	200.8	1.0	1.0		12/03/12	1.0	U	
Silicon	200.7	55.6	1.1		11/30/12	25800		
Silver	200.8	0.02	1.0		12/03/12	0.02	U	
Sodium	200.7	222	1.1		11/30/12	8400		
Thallium	200.8	0.02	1.0		12/03/12	0.02	U	
Uranium	200.8	0.020	1.0		12/03/12	0.020	U	
Zinc	200.7	2.2	1.1		11/30/12	2.2	U	

Comments:

Metals

INORGANIC ANALYSIS DATA PACKAGE

Client: Kennedy/Jenks Consultants, Incor
Service Request: K1211802
Project No.: NA
Date Collected: 11/26/12
Project Name: Mint Farm
Date Received: 11/26/12
Matrix: WATER
Units: ug/L
Basis: NA

Sample Name: DW-7
Lab Code: K1211802-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.2	1.1		11/30/12	2.2	U	
Antimony	200.8	0.05	1.0		12/03/12	0.05	U	
Arsenic	200.8	0.5	1.0		12/03/12	4.6		
Barium	200.8	0.05	1.0		12/03/12	11.0		
Beryllium	200.8	0.02	1.0		12/03/12	0.02	U	
Cadmium	200.8	0.02	1.0		12/03/12	0.02	U	
Calcium	200.7	55.6	1.1		11/30/12	21200		
Chromium	200.8	0.2	1.0		12/03/12	0.2	U	
Copper	200.8	0.1	1.0		12/03/12	0.1	U	
Iron	200.7	11.1	1.1		11/30/12	1190		
Lead	200.8	0.02	1.0		12/03/12	0.02	U	
Magnesium	200.7	2.2	1.1		11/30/12	5410		
Manganese	200.7	0.7	1.1		11/30/12	665		
Mercury	245.1	0.2	1.0	12/03/12	12/04/12	0.2	U	
Nickel	200.8	0.2	1.0		12/03/12	0.2	U	
Potassium	200.7	111	1.1		11/30/12	2980		
Selenium	200.8	1.0	1.0		12/03/12	1.0	U	
Silicon	200.7	55.6	1.1		11/30/12	25800		
Silver	200.8	0.02	1.0		12/03/12	0.02	U	
Sodium	200.7	222	1.1		11/30/12	8720		
Thallium	200.8	0.02	1.0		12/03/12	0.02	U	
Uranium	200.8	0.020	1.0		12/03/12	0.020	U	
Zinc	200.7	2.2	1.1		11/30/12	2.2	U	

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1211802
Project No.:	NA	**Date Collected:**	11/27/12
Project Name:	Mint Farm	**Date Received:**	11/27/12
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: **DW-6** **Lab Code:** **K1211802-004**

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.2	1.1		11/30/12	2.2	U	
Antimony	200.8	0.05	1.0		12/03/12	0.05	U	
Arsenic	200.8	0.5	1.0		12/03/12	5.1		
Barium	200.8	0.05	1.0		12/03/12	18.2		
Beryllium	200.8	0.02	1.0		12/03/12	0.02	U	
Cadmium	200.8	0.02	1.0		12/03/12	0.02	U	
Calcium	200.7	55.6	1.1		11/30/12	38300		
Chromium	200.8	0.2	1.0		12/03/12	0.2	U	
Copper	200.8	0.1	1.0		12/03/12	0.1	U	
Iron	200.7	11.1	1.1		11/30/12	680		
Lead	200.8	0.02	1.0		12/03/12	0.02	U	
Magnesium	200.7	2.2	1.1		11/30/12	10800		
Manganese	200.7	0.7	1.1		11/30/12	594		
Mercury	245.1	0.2	1.0	12/03/12	12/04/12	0.2	U	
Nickel	200.8	0.2	1.0		12/03/12	0.2	U	
Potassium	200.7	111	1.1		11/30/12	4530		
Selenium	200.8	1.0	1.0		12/03/12	1.0	U	
Silicon	200.7	55.6	1.1		11/30/12	25600		
Silver	200.8	0.02	1.0		12/03/12	0.02	U	
Sodium	200.7	222	1.1		11/30/12	12100		
Thallium	200.8	0.02	1.0		12/03/12	0.02	U	
Uranium	200.8	0.020	1.0		12/03/12	0.020	U	
Zinc	200.7	2.2	1.1		11/30/12	2.2	U	

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1211802
Project No.:	NA	**Date Collected:**	11/27/12
Project Name:	Mint Farm	**Date Received:**	11/27/12
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: **DW-5** **Lab Code:** **K1211802-005**

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.2	1.1		11/30/12	2.2	U	
Antimony	200.8	0.05	1.0		12/03/12	0.05	U	
Arsenic	200.8	0.5	1.0		12/03/12	6.5		
Barium	200.8	0.05	1.0		12/03/12	15.9		
Beryllium	200.8	0.02	1.0		12/03/12	0.02	U	
Cadmium	200.8	0.02	1.0		12/03/12	0.02	U	
Calcium	200.7	55.6	1.1		11/30/12	36800		
Chromium	200.8	0.2	1.0		12/03/12	0.2	U	
Copper	200.8	0.1	1.0		12/03/12	0.1	U	
Iron	200.7	11.1	1.1		11/30/12	347		
Lead	200.8	0.02	1.0		12/03/12	0.02	U	
Magnesium	200.7	22.2	1.1		11/30/12	11600		
Manganese	200.7	0.7	1.1		11/30/12	334		
Mercury	245.1	0.2	1.0	12/03/12	12/04/12	0.2	U	
Nickel	200.8	0.2	1.0		12/03/12	0.2	U	
Potassium	200.7	111	1.1		11/30/12	4660		
Selenium	200.8	1.0	1.0		12/03/12	1.0	U	
Silicon	200.7	55.6	1.1		11/30/12	23800		
Silver	200.8	0.02	1.0		12/03/12	0.02	U	
Sodium	200.7	222	1.1		11/30/12	12800		
Thallium	200.8	0.02	1.0		12/03/12	0.02	U	
Uranium	200.8	0.020	1.0		12/03/12	0.020	U	
Zinc	200.7	2.2	1.1		11/30/12	2.2	U	

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1211802
Project No.:	NA	**Date Collected:**	11/27/12
Project Name:	Mint Farm	**Date Received:**	11/27/12
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: **DW-2** **Lab Code:** **K1211802-006**

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.2	1.1		11/30/12	3.3		
Antimony	200.8	0.05	1.0		12/03/12	0.05	U	
Arsenic	200.8	0.5	1.0		12/03/12	9.4		
Barium	200.8	0.05	1.0		12/03/12	23.4		
Beryllium	200.8	0.02	1.0		12/03/12	0.02	U	
Cadmium	200.8	0.02	1.0		12/03/12	0.02	U	
Calcium	200.7	55.6	1.1		11/30/12	30800		
Chromium	200.8	0.2	1.0		12/03/12	0.2	U	
Copper	200.8	0.1	1.0		12/03/12	0.1	U	
Iron	200.7	11.1	1.1		11/30/12	491		
Lead	200.8	0.02	1.0		12/03/12	0.02	U	
Magnesium	200.7	2.2	1.1		11/30/12	10500		
Manganese	200.7	0.7	1.1		11/30/12	297		
Mercury	245.1	0.2	1.0	12/03/12	12/04/12	0.2	U	
Nickel	200.8	0.2	1.0		12/03/12	0.2	U	
Potassium	200.7	111	1.1		11/30/12	5580		
Selenium	200.8	1.0	1.0		12/03/12	1.0	U	
Silicon	200.7	55.6	1.1		11/30/12	22300		
Silver	200.8	0.02	1.0		12/03/12	0.02	U	
Sodium	200.7	222	1.1		11/30/12	14800		
Thallium	200.8	0.02	1.0		12/03/12	0.02	U	
Uranium	200.8	0.020	1.0		12/03/12	0.020	U	
Zinc	200.7	2.2	1.1		11/30/12	2.7		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1211802
Project No.:	NA	**Date Collected:**	11/27/12
Project Name:	Mint Farm	**Date Received:**	11/27/12
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: **DUP-1** **Lab Code:** **K1211802-007**

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.2	1.1		11/30/12	2.9		
Antimony	200.8	0.05	1.0		12/03/12	0.05	U	
Arsenic	200.8	0.5	1.0		12/03/12	9.2		
Barium	200.8	0.05	1.0		12/03/12	23.2		
Beryllium	200.8	0.02	1.0		12/03/12	0.02	U	
Cadmium	200.8	0.02	1.0		12/03/12	0.02	U	
Calcium	200.7	55.6	1.1		11/30/12	31200		
Chromium	200.8	0.2	1.0		12/03/12	0.2	U	
Copper	200.8	0.1	1.0		12/03/12	0.1	U	
Iron	200.7	11.1	1.1		11/30/12	503		
Lead	200.8	0.02	1.0		12/03/12	0.02	U	
Magnesium	200.7	2.2	1.1		11/30/12	10500		
Manganese	200.7	0.7	1.1		11/30/12	296		
Mercury	245.1	0.2	1.0	12/03/12	12/04/12	0.2	U	
Nickel	200.8	0.2	1.0		12/03/12	0.2	U	
Potassium	200.7	111	1.1		11/30/12	5640		
Selenium	200.8	1.0	1.0		12/03/12	1.0	U	
Silicon	200.7	55.6	1.1		11/30/12	22400		
Silver	200.8	0.02	1.0		12/03/12	0.06		
Sodium	200.7	222	1.1		11/30/12	14800		
Thallium	200.8	0.02	1.0		12/03/12	0.02	U	
Uranium	200.8	0.020	1.0		12/03/12	0.020	U	
Zinc	200.7	2.2	1.1		11/30/12	2.2	U	

Comments:

Metals

INORGANIC ANALYSIS DATA PACKAGE

Client: Kennedy/Jenks Consultants, Incor
Service Request: K1211802
Project No.: NA
Date Collected: 11/28/12
Project Name: Mint Farm
Date Received: 11/28/12
Matrix: WATER
Units: ug/L
Basis: NA

Sample Name: DW-9
Lab Code: K1211802-009

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.2	1.1		11/30/12	2.2	U	
Antimony	200.8	0.05	1.0		12/03/12	0.05	U	
Arsenic	200.8	0.5	1.0		12/03/12	4.8		
Barium	200.8	0.05	1.0		12/03/12	12.1		
Beryllium	200.8	0.02	1.0		12/03/12	0.02	U	
Cadmium	200.8	0.02	1.0		12/03/12	0.02	U	
Calcium	200.7	55.6	1.1		11/30/12	25700		
Chromium	200.8	0.2	1.0		12/03/12	0.2	U	
Copper	200.8	0.1	1.0		12/03/12	0.1	U	
Iron	200.7	11.1	1.1		11/30/12	712		
Lead	200.8	0.02	1.0		12/03/12	0.02	U	
Magnesium	200.7	2.2	1.1		11/30/12	6430		
Manganese	200.7	0.7	1.1		11/30/12	628		
Mercury	245.1	0.2	1.0	12/03/12	12/04/12	0.2	U	
Nickel	200.8	0.2	1.0		12/03/12	0.2	U	
Potassium	200.7	111	1.1		11/30/12	3570		
Selenium	200.8	1.0	1.0		12/03/12	1.0	U	
Silicon	200.7	55.6	1.1		11/30/12	26800		
Silver	200.8	0.02	1.0		12/03/12	0.02	U	
Sodium	200.7	222	1.1		11/30/12	9890		
Thallium	200.8	0.02	1.0		12/03/12	0.02	U	
Uranium	200.8	0.020	1.0		12/03/12	0.020	U	
Zinc	200.7	2.2	1.1		11/30/12	2.2	U	

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Kennedy/Jenks Consultants, Incor
Service Request: K1211802
Project No.: NA
Date Collected:
Project Name: Mint Farm
Date Received:
Matrix: WATER
Units: ug/L
Basis: NA

Sample Name: Method Blank
Lab Code: K1211802-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.2	1.1		11/30/12	2.2	U	
Antimony	200.8	0.05	1.0		12/03/12	0.05	U	
Arsenic	200.8	0.5	1.0		12/03/12	0.5	U	
Barium	200.8	0.05	1.0		12/03/12	0.05	U	
Beryllium	200.8	0.02	1.0		12/03/12	0.02	U	
Cadmium	200.8	0.02	1.0		12/03/12	0.02	U	
Calcium	200.7	55.6	1.1		11/30/12	55.6	U	
Chromium	200.8	0.2	1.0		12/03/12	0.2	U	
Copper	200.8	0.1	1.0		12/03/12	0.1	U	
Iron	200.7	11.1	1.1		11/30/12	11.1	U	
Lead	200.8	0.02	1.0		12/03/12	0.02	U	
Magnesium	200.7	2.2	1.1		11/30/12	2.2	U	
Manganese	200.7	0.7	1.1		11/30/12	0.7	U	
Mercury	245.1	0.2	1.0	12/03/12	12/04/12	0.2	U	
Nickel	200.8	0.2	1.0		12/03/12	0.2	U	
Potassium	200.7	111	1.1		11/30/12	111	U	
Selenium	200.8	1.0	1.0		12/03/12	1.0	U	
Silicon	200.7	55.6	1.1		11/30/12	55.6	U	
Silver	200.8	0.02	1.0		12/03/12	0.02	U	
Sodium	200.7	222	1.1		11/30/12	222	U	
Thallium	200.8	0.02	1.0		12/03/12	0.02	U	
Uranium	200.8	0.020	1.0		12/03/12	0.020	U	
Zinc	200.7	2.2	1.1		11/30/12	2.2	U	

Comments:

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

Metals
- 5A -
SPIKE SAMPLE RECOVERY

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1211802

Project No.: NA **Units:** UG/L

Project Name: Mint Farm **Basis:** NA

Matrix: WATER

Sample Name: DW-1S **Lab Code:** K1211802-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Mercury	70 - 130	1.00		0.2	U	1.00	100.0		245.1

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

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

Metals
- 5A -
SPIKE SAMPLE RECOVERY

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1211802

Project No.: NA **Units:** UG/L

Project Name: Mint Farm **Basis:** NA

Matrix: WATER

Sample Name: DW-2S **Lab Code:** K1211802-006S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	70 - 130	5220		55.6	U	5560.00	93.9		200.7
Antimony	70 - 130	20.9		0.05	U	20.00	104.5		200.8
Arsenic	70 - 130	29.2		9.4		20.00	99.0		200.8
Barium	70 - 130	42.3		23.4		20.00	94.5		200.8
Beryllium	70 - 130	20.2		0.02	U	20.00	101.0		200.8
Cadmium	70 - 130	21.0		0.02	U	20.00	105.0		200.8
Calcium	70 - 130	44900		30800		13900.00	101.4		200.7
Chromium	70 - 130	18.2		0.2	U	20.00	91.0		200.8
Copper	70 - 130	18.5		0.1	U	20.00	92.5		200.8
Iron	70 - 130	3140		491		2780.00	95.3		200.7
Lead	70 - 130	19.8		0.02	U	20.00	99.0		200.8
Magnesium	70 - 130	23900		10500		13900.00	96.4		200.7
Manganese	70 - 130	1660		297		1390.00	98.1		200.7
Nickel	70 - 130	18.3		0.2	U	20.00	91.5		200.8
Potassium	70 - 130	18900		5580		13900.00	95.8		200.7
Selenium	70 - 130	22.1		1.0	U	20.00	110.5		200.8
Silicon		27900		22300		5560.00	100.7		200.7
Silver	70 - 130	17.3		0.02	U	20.00	86.5		200.8
Sodium	70 - 130	28300		14800		13900.00	97.1		200.7
Thallium	70 - 130	19.9		0.02	U	20.00	99.5		200.8
Uranium	70 - 130	20.3		0.020	U	20.00	101.5		200.8
Zinc	70 - 130	1320		2.7		1390.00	94.8		200.7

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

Metals

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DUPLICATES

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1211802

Project No.: NA **Units:** UG/L

Project Name: Mint Farm **Basis:** NA

Matrix: WATER

Sample Name: DW-1D **Lab Code:** K1211802-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury		0.2	U	0.2	U			245.1

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

Metals

- 6 -

DUPLICATES

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1211802

Project No.: NA **Units:** UG/L

Project Name: Mint Farm **Basis:** NA

Matrix: WATER

Sample Name: DW-2D **Lab Code:** K1211802-006D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		3.3		3.8		14.1		200.7
Antimony		0.05	U	0.05	U			200.8
Arsenic	20	9.4		9.4		0.0		200.8
Barium	20	23.4		23.0		1.7		200.8
Beryllium		0.02	U	0.02	U			200.8
Cadmium		0.02	U	0.02	U			200.8
Calcium	20	30800		31400		1.9		200.7
Chromium		0.2	U	0.2	U			200.8
Copper		0.1	U	0.1	U			200.8
Iron	20	491		505		2.8		200.7
Lead		0.02	U	0.02	U			200.8
Magnesium	20	10500		10800		2.8		200.7
Manganese	20	297		299		0.7		200.7
Nickel		0.2	U	0.2	U			200.8
Potassium	20	5580		5610		0.5		200.7
Selenium		1.0	U	1.0	U			200.8
Silicon	20	22300		22300		0.0		200.7
Silver		0.02	U	0.02	U			200.8
Sodium	20	14800		14800		0.0		200.7
Thallium		0.02	U	0.02	U			200.8
Uranium		0.020	U	0.020	U			200.8
Zinc		2.7		2.2	U	200.0		200.7

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

Metals

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LABORATORY CONTROL SAMPLE

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1211802

Project No.: NA

Project Name: Mint Farm

Aqueous LCS Source: Inorganic Ventures **Solid LCS Source:**

Analyte	Aqueous (ug/L) True	Aqueous (ug/L) Found	Aqueous (ug/L) %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C	Solid (mg/kg) Limits	Solid (mg/kg) %R
Aluminum	5000	4940	98.8					
Antimony	25	25.0	100.0					
Arsenic	25	25.6	102.4					
Barium	100	102	102.0					
Beryllium	2.5	2.60	104.0					
Cadmium	12.5	12.6	100.8					
Calcium	12500	12000	96.0					
Chromium	10	9.9	99.0					
Copper	12.5	12.6	100.8					
Iron	2500	2380	95.2					
Lead	25	25.2	100.8					
Magnesium	12500	12000	96.0					
Manganese	1250	1220	97.6					
Mercury	5	4.97	99.4					
Nickel	25	25.1	100.4					
Potassium	12500	12000	96.0					
Selenium	25	25.7	102.8					
Silicon	5000	4930	98.6					
Silver	12.5	12.6	100.8					
Sodium	12500	12200	97.6					
Thallium	25	25.1	100.4					
Uranium	25	25.4	101.6					
Zinc	1250	1190	95.2					

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking water	**Date Received:**	11/26/12

Total Metals

Sample Name:	DW-1	Units:	ug/L (ppb)
Lab Code:	K1211802-001	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	0.4	20	NA	12/04/12	4.3	
Arsenic (V)	None	1632 Rev. A	0.4	20	NA	NA	ND	
Inorganic Arsenic	None	1632 Rev. A	0.2	10	NA	11/30/12	4.6	

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12
Sample Matrix:	Drinking water	**Date Received:**	11/26/12

Total Metals

Sample Name:	DW-7	Units:	ug/L (ppb)
Lab Code:	K1211802-002	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	0.4	20	NA	12/04/12	4.6	
Arsenic (V)	None	1632 Rev. A	0.4	20	NA	NA	0.4	
Inorganic Arsenic	None	1632 Rev. A	0.2	10	NA	11/30/12	5.0	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12

Total Metals

Sample Name:	DW-6	Units:	ug/L (ppb)
Lab Code:	K1211802-004	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	0.2	10	NA	12/04/12	5.0	
Arsenic (V)	None	1632 Rev. A	0.4	20	NA	NA	ND	
Inorganic Arsenic	None	1632 Rev. A	0.4	20	NA	12/18/12	5.0	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12

Total Metals

Sample Name:	DW-5	Units:	ug/L (ppb)
Lab Code:	K1211802-005	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	0.4	20	NA	12/04/12	7.1	
Arsenic (V)	None	1632 Rev. A	0.4	20	NA	NA	1.2	
Inorganic Arsenic	None	1632 Rev. A	0.4	20	NA	11/30/12	8.3	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12

Total Metals

Sample Name:	DW-2	Units:	ug/L (ppb)
Lab Code:	K1211802-006	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	1.0	50	NA	12/04/12	11.0	
Arsenic (V)	None	1632 Rev. A	1.0	50	NA	NA	ND	
Inorganic Arsenic	None	1632 Rev. A	0.4	20	NA	11/30/12	10.5	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12

Total Metals

Sample Name:	DUP-1	Units:	ug/L (ppb)
Lab Code:	K1211802-007	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	1.0	50	NA	12/04/12	9.2	
Arsenic (V)	None	1632 Rev. A	1.0	50	NA	NA	2.1	
Inorganic Arsenic	None	1632 Rev. A	0.4	20	NA	11/30/12	11.3	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12

Total Metals

Sample Name:	DW-9	Units:	ug/L (ppb)
Lab Code:	K1211802-009	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	0.4	20	NA	12/04/12	4.8	
Arsenic (V)	None	1632 Rev. A	0.4	20	NA	NA	1.5	
Inorganic Arsenic	None	1632 Rev. A	0.4	20	NA	11/30/12	6.3	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12

Total Metals

Sample Name:	Method Blank 1	Units:	ug/L (ppb)
Lab Code:	K1211802-MB1	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	0.02	1	NA	12/04/12	ND	
Arsenic (V)	None	1632 Rev. A	0.02	1	NA	NA	ND	
Inorganic Arsenic	None	1632 Rev. A	0.02	1	NA	11/30/12	ND	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12

Total Metals

Sample Name:	Method Blank 2	Units:	ug/L (ppb)
Lab Code:	K1211802-MB2	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	0.02	1	NA	12/04/12	ND	
Arsenic (V)	None	1632 Rev. A	0.02	1	NA	NA	ND	
Inorganic Arsenic	None	1632 Rev. A	0.02	1	NA	11/30/12	ND	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12

Total Metals

Sample Name:	Method Blank 3	Units:	ug/L (ppb)
Lab Code:	K1211802-MB3	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	0.02	1	NA	12/04/12	ND	
Arsenic (V)	None	1632 Rev. A	0.02	1	NA	NA	ND	
Inorganic Arsenic	None	1632 Rev. A	0.02	1	NA	11/30/12	ND	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12

Total Metals

Sample Name:	Method Blank 4	Units:	ug/L (ppb)
Lab Code:	K1211802-MB4	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632 Rev. A	0.02	1	NA	12/04/12	ND	
Arsenic (V)	None	1632 Rev. A	0.02	1	NA	NA	ND	
Inorganic Arsenic	None	1632 Rev. A	0.02	1	NA	11/30/12	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	12/04/12

Matrix Spike/Duplicate Matrix Spike Summary

Total Metals

Sample Name:	Batch QC	Units:	ug/L (ppb)
Lab Code:	K1211743-001S, K1211743-001SD	Basis:	NA
Test Notes:			

									Percent Recovery				
				Spike Level		Sample	Spike Result				Method	Relative	
Analyte	**Prep Method**	**Analysis Method**	**MRL**	**MS**	**DMS**	**Result**	**MS**	**DMS**	**MS**	**DMS**	**Acceptance Limits**	**Percent Difference**	**Result Notes**
Arsenic (III)	None	1632 Rev. A	0.02	0.2	0.2	0.03	0.19	0.17	80	70	30-170	11	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12
		Date Extracted:	NA
		Date Analyzed:	11/30/12

Matrix Spike/Duplicate Matrix Spike Summary

Total Metals

Sample Name:	DW-5	Units:	ug/L (ppb)
Lab Code:	K1211802-005S, K1211802-005SD	Basis:	NA
Test Notes:			

									Percent Recovery				
				Spike Level		Sample	Spike Result				Method	Relative	
Analyte	**Prep Method**	**Analysis Method**	**MRL**	**MS**	**DMS**	**Result**	**MS**	**DMS**	**MS**	**DMS**	**Acceptance Limits**	**Percent Difference**	**Result Notes**
Inorganic Arsenic	None	1632 Rev. A	0.4	4.0	4.0	8.3	11.5	12.9	80	115	50-150	11	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	11/30, 12/4/12

Calibration Verification (CALVER) Sample Summary

Total Metals

Sample Name: CALVER 1

Units: ug/L (ppb)

Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic (III)	None	1632 Rev. A	0.200	0.204	102	70-130	
Inorganic Arsenic	None	1632 Rev. A	0.200	0.171	86	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	11/30, 12/4/12

Calibration Verification (CALVER) Sample Summary

Total Metals

Sample Name: CALVER 2

Units: ug/L (ppb)

Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic (III)	None	1632 Rev. A	0.200	0.210	105	70-130	
Inorganic Arsenic	None	1632 Rev. A	0.200	0.209	104	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	11/30, 12/4/12

Calibration Verification (CALVER) Sample Summary

Total Metals

Sample Name: CALVER 3

Units: ug/L (ppb)

Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic (III)	None	1632 Rev. A	0.200	0.200	100	70-130	
Inorganic Arsenic	None	1632 Rev. A	0.200	0.213	106	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26-28/12
Sample Matrix:	Drinking water	**Date Received:**	11/26-28/12

Hardness as CaCO3

Prep Method:	CLAA	Units:	mg/L (ppm)
Analysis Method:	200.7/SM 2340B	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
DW-1	K1211802-001	0.4	1.1	NA	11/30/12	71.2	
DW-7	K1211802-002	0.4	1.1	NA	11/30/12	75.3	
DW-6	K1211802-004	0.4	1.1	NA	11/30/12	140	
DW-5	K1211802-005	0.4	1.1	NA	11/30/12	140	
DW-2	K1211802-006	0.4	1.1	NA	11/30/12	120	
DUP-1	K1211802-007	0.4	1.1	NA	11/30/12	121	
DW-9	K1211802-009	0.4	1.1	NA	11/30/12	90.7	
Method Blank	K1211802-MB	0.4	1.1	NA	11/30/12	ND	

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12
Sample Matrix:	Drinking water	**Date Received:**	11/27/12
		Date Extracted:	NA
		Date Analyzed:	11/30/12

Duplicate Summary
Metals

Sample Name:	DW-2	Units:	mg/L (ppm)
Lab Code:	K1211802-006D	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Hardness as CaCO3	CLAA	200.7/SM 2340B	0.4	120	123	122	2	

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

EPA Method 504.1

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0097	1	11/28/12	11/28/12	KWG1214072	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0097	1	11/28/12	11/28/12	KWG1214072	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

EPA Method 504.1

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0097	1	11/28/12	11/28/12	KWG1214072	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0097	1	11/28/12	11/28/12	KWG1214072	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

EPA Method 504.1

Sample Name:	Trip Blank 11/26	**Units:**	ug/L
Lab Code:	K1211802-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0096	1	11/28/12	11/29/12	KWG1214072	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0096	1	11/28/12	11/29/12	KWG1214072	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

EPA Method 504.1

Sample Name:	DW-6	**Units:**	ug/L
Lab Code:	K1211802-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0096	1	11/28/12	11/29/12	KWG1214072	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0096	1	11/28/12	11/29/12	KWG1214072	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

EPA Method 504.1

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0099	1	11/28/12	11/29/12	KWG1214072	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0099	1	11/28/12	11/29/12	KWG1214072	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

EPA Method 504.1

Sample Name:	DW-2	**Units:**	ug/L
Lab Code:	K1211802-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0096	1	11/28/12	11/29/12	KWG1214072	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0096	1	11/28/12	11/29/12	KWG1214072	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

EPA Method 504.1

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1211802-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0096	1	11/28/12	11/29/12	KWG1214072	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0096	1	11/28/12	11/29/12	KWG1214072	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

EPA Method 504.1

Sample Name:	Trip Blank 11/27	**Units:**	ug/L
Lab Code:	K1211802-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0099	1	12/05/12	12/05/12	KWG1214338	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0099	1	12/05/12	12/05/12	KWG1214338	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

EPA Method 504.1

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0094	1	12/05/12	12/05/12	KWG1214338	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0094	1	12/05/12	12/05/12	KWG1214338	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

EPA Method 504.1

Sample Name:	Trip Blank 11/28	**Units:**	ug/L
Lab Code:	K1211802-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0096	1	12/05/12	12/05/12	KWG1214338	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0096	1	12/05/12	12/05/12	KWG1214338	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

EPA Method 504.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214072-5	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.010	1	11/28/12	11/28/12	KWG1214072	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.010	1	11/28/12	11/28/12	KWG1214072	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

EPA Method 504.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214338-5	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.010	1	12/05/12	12/06/12	KWG1214338	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.010	1	12/05/12	12/06/12	KWG1214338	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/28/2012
Sample Matrix:	Water	**Date Analyzed:**	11/29/2012

Matrix Spike/Duplicate Matrix Spike Summary
EPA Method 504.1

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1211813-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1	**Extraction Lot:**	KWG1214072

		Batch QCMS KWG1214072-1 Matrix Spike			Batch QCDMS KWG1214072-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	ND	0.258	0.242	107	0.255	0.240	106	65-135	1	30
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.264	0.242	109	0.268	0.240	112	65-135	1	30

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	12/05/2012
Sample Matrix:	Water	**Date Analyzed:**	12/05/2012 - 12/06/2012

Matrix Spike/Duplicate Matrix Spike Summary
EPA Method 504.1

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1212019-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1	**Extraction Lot:**	KWG1214338

		Batch QCMS KWG1214338-1 Matrix Spike			Batch QCDMS KWG1214338-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	ND	0.250	0.242	103	0.231	0.244	95	65-135	8	30
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.236	0.242	97	0.224	0.244	92	65-135	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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/28/2012
Sample Matrix:	Water	**Date Analyzed:**	11/28/2012

Lab Control Spike Summary
EPA Method 504.1

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	504.1	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214072

	Lab Control Sample KWG1214072-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.275	0.250	110	70-130
1,2-Dibromo-3-chloropropane (DBCP)	0.244	0.250	98	70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/28/2012
Sample Matrix:	Water	**Date Analyzed:**	11/28/2012

Lab Control Spike Summary
EPA Method 504.1

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	504.1	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214072

	Lab Control Sample KWG1214072-4 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.254	0.250	101	70-130
1,2-Dibromo-3-chloropropane (DBCP)	0.257	0.250	103	70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	12/05/2012
Sample Matrix:	Water	**Date Analyzed:**	12/06/2012

Lab Control Spike Summary
EPA Method 504.1

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	504.1	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214338

	Lab Control Sample KWG1214338-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.255	0.250	102	70-130
1,2-Dibromo-3-chloropropane (DBCP)	0.222	0.250	89	70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	12/05/2012
Sample Matrix:	Water	**Date Analyzed:**	12/06/2012

Lab Control Spike Summary
EPA Method 504.1

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	504.1	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214338

	Lab Control Sample KWG1214338-4 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.285	0.250	114	70-130
1,2-Dibromo-3-chloropropane (DBCP)	0.282	0.250	113	70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Pesticides/PCBs by EPA method 508.1

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Heptachlor	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Heptachlor Epoxide	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Endrin	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Methoxychlor	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Toxaphene	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Chlordane	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1016	ND	U	0.049	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1221	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1232	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1242	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1248	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1254	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1260	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	93	70-130	12/04/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Pesticides/PCBs by EPA method 508.1

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Heptachlor	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Heptachlor Epoxide	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Endrin	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Methoxychlor	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Toxaphene	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Chlordane	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1016	ND	U	0.049	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1221	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1232	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1242	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1248	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1254	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1260	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	94	70-130	12/04/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Pesticides/PCBs by EPA method 508.1

Sample Name:	DW-6	**Units:**	ug/L
Lab Code:	K1211802-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Heptachlor	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Heptachlor Epoxide	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Endrin	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Methoxychlor	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Toxaphene	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Chlordane	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1016	ND	U	0.049	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1221	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1232	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1242	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1248	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1254	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1260	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	85	70-130	12/04/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Pesticides/PCBs by EPA method 508.1

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Heptachlor	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Heptachlor Epoxide	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Endrin	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Methoxychlor	ND	U	0.0098	1	11/30/12	12/04/12	KWG1214191	
Toxaphene	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Chlordane	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1016	ND	U	0.049	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1221	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1232	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1242	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1248	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1254	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1260	ND	U	0.098	1	11/30/12	12/04/12	KWG1214191	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	86	70-130	12/04/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Pesticides/PCBs by EPA method 508.1

Sample Name:	DW-2	**Units:**	ug/L
Lab Code:	K1211802-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Heptachlor	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Heptachlor Epoxide	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Endrin	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Methoxychlor	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Toxaphene	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Chlordane	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1016	ND	U	0.049	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1221	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1232	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1242	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1248	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1254	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1260	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	85	70-130	12/05/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Pesticides/PCBs by EPA method 508.1

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1211802-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Heptachlor	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Heptachlor Epoxide	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Endrin	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Methoxychlor	ND	U	0.0098	1	11/30/12	12/05/12	KWG1214191	
Toxaphene	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Chlordane	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1016	ND	U	0.049	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1221	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1232	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1242	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1248	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1254	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	
Aroclor 1260	ND	U	0.098	1	11/30/12	12/05/12	KWG1214191	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	88	70-130	12/05/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Pesticides/PCBs by EPA method 508.1

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	11/30/12	12/13/12	KWG1214191	
Heptachlor	ND	U	0.0098	1	11/30/12	12/13/12	KWG1214191	
Heptachlor Epoxide	ND	U	0.0098	1	11/30/12	12/13/12	KWG1214191	
Endrin	ND	U	0.0098	1	11/30/12	12/13/12	KWG1214191	*
Methoxychlor	ND	U	0.0098	1	11/30/12	12/13/12	KWG1214191	
Toxaphene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214191	
Chlordane	ND	U	0.098	1	11/30/12	12/13/12	KWG1214191	
Aroclor 1016	ND	U	0.049	1	11/30/12	12/13/12	KWG1214191	
Aroclor 1221	ND	U	0.098	1	11/30/12	12/13/12	KWG1214191	
Aroclor 1232	ND	U	0.098	1	11/30/12	12/13/12	KWG1214191	
Aroclor 1242	ND	U	0.098	1	11/30/12	12/13/12	KWG1214191	
Aroclor 1248	ND	U	0.098	1	11/30/12	12/13/12	KWG1214191	
Aroclor 1254	ND	U	0.098	1	11/30/12	12/13/12	KWG1214191	
Aroclor 1260	ND	U	0.098	1	11/30/12	12/13/12	KWG1214191	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	80	70-130	12/13/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Pesticides/PCBs by EPA method 508.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214191-5	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.010	1	11/30/12	12/04/12	KWG1214191	*
Heptachlor	ND	U	0.010	1	11/30/12	12/04/12	KWG1214191	*
Heptachlor Epoxide	ND	U	0.010	1	11/30/12	12/04/12	KWG1214191	*
Endrin	ND	U	0.010	1	11/30/12	12/04/12	KWG1214191	*
Methoxychlor	ND	U	0.010	1	11/30/12	12/04/12	KWG1214191	*
Toxaphene	ND	U	0.10	1	11/30/12	12/04/12	KWG1214191	
Chlordane	ND	U	0.10	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1016	ND	U	0.050	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1221	ND	U	0.10	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1232	ND	U	0.10	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1242	ND	U	0.10	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1248	ND	U	0.10	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1254	ND	U	0.10	1	11/30/12	12/04/12	KWG1214191	
Aroclor 1260	ND	U	0.10	1	11/30/12	12/04/12	KWG1214191	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	55	70-130	12/04/12	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated **Service Request:** K1211802
Project: Mint Farm
Sample Matrix: Drinking water

Surrogate Recovery Summary
Pesticides/PCBs by EPA method 508.1

Extraction Method: METHOD **Units:** ug/L
Analysis Method: 508.1 **Level:** Low

Sample Name	Lab Code	Sur1	
DW-1	K1211802-001	93	
DW-7	K1211802-002	94	
DW-6	K1211802-004	85	
DW-5	K1211802-005	86	
DW-2	K1211802-006	85	
DUP-1	K1211802-007	88	
DW-9	K1211802-009	80	
Method Blank	KWG1214191-5	55	*
DW-7MS	KWG1214191-1	73	
DW-5MS	KWG1214191-2	102	
Lab Control Sample	KWG1214191-3	79	

Surrogate Recovery Control Limits (%)

Sur1 = 4,4'-Dibromooctafluorobiphenyl 70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/30/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/04/2012

Matrix Spike Summary
Pesticides/PCBs by EPA method 508.1

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1	**Extraction Lot:**	KWG1214191

		DW-7MS KWG1214191-1 **Matrix Spike**				
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**		**%Rec Limits**
gamma-BHC (Lindane)	ND	0.0665	0.0971	68		65-135
Heptachlor	ND	0.0542	0.0971	56	*	65-135
Heptachlor Epoxide	ND	0.0598	0.0971	62	*	65-135
Endrin	ND	0.0511	0.0971	53	*	65-135
Methoxychlor	ND	0.0767	0.0971	79		65-135

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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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/30/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/04/2012

Matrix Spike Summary
Pesticides/PCBs by EPA method 508.1

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1	**Extraction Lot:**	KWG1214191

		DW-5MS KWG1214191-2 **Matrix Spike**			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1242	ND	0.468	0.485	96	65-135

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/30/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/04/2012

Lab Control Spike Summary
Pesticides/PCBs by EPA method 508.1

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	508.1	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214191

	Lab Control Sample KWG1214191-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
gamma-BHC (Lindane)	0.00795	0.0100	79	70-130
Heptachlor	0.00704	0.0100	70	70-130
Heptachlor Epoxide	0.00822	0.0100	82	70-130
Endrin	0.00835	0.0100	84	70-130
Methoxychlor	0.00859	0.0100	86	70-130
Aroclor 1242	0.963	1.00	96	70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Chlorinated Acids by EPA Method 515.4

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	1.0	1	11/29/12	12/01/12	KWG1214129	
2,4-D	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	
Pentachlorophenol	ND	U	0.040	1	11/29/12	12/01/12	KWG1214129	
2,4,5-TP (Silvex)	ND	U	0.050	1	11/29/12	12/01/12	KWG1214129	
Dinoseb	ND	U	0.20	1	11/29/12	12/01/12	KWG1214129	
Picloram	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	105	70-130	12/01/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Chlorinated Acids by EPA Method 515.4

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	1.0	1	11/29/12	12/01/12	KWG1214129	
2,4-D	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	
Pentachlorophenol	ND	U	0.040	1	11/29/12	12/01/12	KWG1214129	
2,4,5-TP (Silvex)	ND	U	0.050	1	11/29/12	12/01/12	KWG1214129	
Dinoseb	ND	U	0.20	1	11/29/12	12/01/12	KWG1214129	
Picloram	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	119	70-130	12/01/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Chlorinated Acids by EPA Method 515.4

Sample Name:	DW-6	**Units:**	ug/L
Lab Code:	K1211802-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	1.0	1	11/29/12	12/01/12	KWG1214129	
2,4-D	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	
Pentachlorophenol	ND	U	0.040	1	11/29/12	12/01/12	KWG1214129	
2,4,5-TP (Silvex)	ND	U	0.050	1	11/29/12	12/01/12	KWG1214129	
Dinoseb	ND	U	0.20	1	11/29/12	12/01/12	KWG1214129	
Picloram	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	106	70-130	12/01/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Chlorinated Acids by EPA Method 515.4

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	0.99	1	11/29/12	12/01/12	KWG1214129	
2,4-D	ND	U	0.099	1	11/29/12	12/01/12	KWG1214129	
Pentachlorophenol	ND	U	0.040	1	11/29/12	12/01/12	KWG1214129	
2,4,5-TP (Silvex)	ND	U	0.050	1	11/29/12	12/01/12	KWG1214129	
Dinoseb	ND	U	0.20	1	11/29/12	12/01/12	KWG1214129	
Picloram	ND	U	0.099	1	11/29/12	12/01/12	KWG1214129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	103	70-130	12/01/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Chlorinated Acids by EPA Method 515.4

Sample Name:	DW-2	**Units:**	ug/L
Lab Code:	K1211802-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	1.0	1	11/29/12	12/01/12	KWG1214129	
2,4-D	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	
Pentachlorophenol	ND	U	0.040	1	11/29/12	12/01/12	KWG1214129	
2,4,5-TP (Silvex)	ND	U	0.050	1	11/29/12	12/01/12	KWG1214129	
Dinoseb	ND	U	0.20	1	11/29/12	12/01/12	KWG1214129	
Picloram	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	105	70-130	12/01/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Chlorinated Acids by EPA Method 515.4

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1211802-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	1.0	1	11/29/12	12/01/12	KWG1214129	
2,4-D	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	
Pentachlorophenol	ND	U	0.040	1	11/29/12	12/01/12	KWG1214129	
2,4,5-TP (Silvex)	ND	U	0.050	1	11/29/12	12/01/12	KWG1214129	
Dinoseb	ND	U	0.20	1	11/29/12	12/01/12	KWG1214129	
Picloram	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	106	70-130	12/01/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Chlorinated Acids by EPA Method 515.4

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	1.0	1	11/29/12	12/01/12	KWG1214129	
2,4-D	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	
Pentachlorophenol	ND	U	0.040	1	11/29/12	12/01/12	KWG1214129	
2,4,5-TP (Silvex)	ND	U	0.050	1	11/29/12	12/01/12	KWG1214129	
Dinoseb	ND	U	0.20	1	11/29/12	12/01/12	KWG1214129	
Picloram	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	130	70-130	12/01/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Chlorinated Acids by EPA Method 515.4

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214129-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	1.0	1	11/29/12	12/01/12	KWG1214129	
2,4-D	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	
Pentachlorophenol	ND	U	0.040	1	11/29/12	12/01/12	KWG1214129	
2,4,5-TP (Silvex)	ND	U	0.050	1	11/29/12	12/01/12	KWG1214129	
Dinoseb	ND	U	0.20	1	11/29/12	12/01/12	KWG1214129	
Picloram	ND	U	0.10	1	11/29/12	12/01/12	KWG1214129	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	103	70-130	12/01/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated **Service Request:** K1211802
Project: Mint Farm
Sample Matrix: Drinking water

Surrogate Recovery Summary
Chlorinated Acids by EPA Method 515.4

Extraction Method: METHOD **Units:** ug/L
Analysis Method: 515.4 **Level:** Low

Sample Name	Lab Code	Sur1
DW-1	K1211802-001	105
DW-7	K1211802-002	119
DW-6	K1211802-004	106
DW-5	K1211802-005	103
DW-2	K1211802-006	105
DUP-1	K1211802-007	106
DW-9	K1211802-009	130
Method Blank	KWG1214129-4	103
DW-1MS	KWG1214129-1	100
DW-1DMS	KWG1214129-2	88
Lab Control Sample	KWG1214129-3	101

Surrogate Recovery Control Limits (%)

Sur1 = 2,4-Dichlorophenylacetic Acid 70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/29/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/01/2012

Matrix Spike/Duplicate Matrix Spike Summary
Chlorinated Acids by EPA Method 515.4

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4	**Extraction Lot:**	KWG1214129

		DW-1MS KWG1214129-1 Matrix Spike			DW-1DMS KWG1214129-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Dalapon	ND	5.55	4.96	112	4.76	5.00	95	70-130	15	30
2,4-D	ND	5.28	4.96	107	5.39	5.00	108	70-130	2	30
Pentachlorophenol	ND	4.44	4.96	90	4.44	5.00	89	70-130	0	30
2,4,5-TP (Silvex)	ND	4.52	4.96	91	4.70	5.00	94	70-130	4	30
Dinoseb	ND	4.98	4.96	101	5.35	5.00	107	70-130	7	30
Picloram	ND	5.72	4.96	115	6.13	5.00	123	70-130	7	30

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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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/29/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/01/2012

Lab Control Spike Summary
Chlorinated Acids by EPA Method 515.4

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	515.4	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214129

	Lab Control Sample KWG1214129-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Dalapon	5.68	5.00	114	70-130
2,4-D	5.12	5.00	102	70-130
Pentachlorophenol	4.49	5.00	90	70-130
2,4,5-TP (Silvex)	4.56	5.00	91	70-130
Dinoseb	4.79	5.00	96	70-130
Picloram	5.16	5.00	103	70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Volatile Organic Compounds

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Volatile Organic Compounds

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Volatile Organic Compounds

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	84	70-130	11/30/12	Acceptable
Dibromofluoromethane	106	82-124	11/30/12	Acceptable
Toluene-d8	109	82-124	11/30/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Volatile Organic Compounds

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Volatile Organic Compounds

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Volatile Organic Compounds

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	88	70-130	11/30/12	Acceptable
Dibromofluoromethane	109	82-124	11/30/12	Acceptable
Toluene-d8	92	82-124	11/30/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Volatile Organic Compounds

Sample Name:	Trip Blank 11/26	**Units:**	ug/L
Lab Code:	K1211802-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Volatile Organic Compounds

Sample Name:	Trip Blank 11/26	**Units:**	ug/L
Lab Code:	K1211802-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Volatile Organic Compounds

Sample Name:	Trip Blank 11/26	**Units:**	ug/L
Lab Code:	K1211802-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	79	70-130	11/30/12	Acceptable
Dibromofluoromethane	86	82-124	11/30/12	Acceptable
Toluene-d8	89	82-124	11/30/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DW-6	**Units:**	ug/L
Lab Code:	K1211802-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DW-6	**Units:**	ug/L
Lab Code:	K1211802-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DW-6	**Units:**	ug/L
Lab Code:	K1211802-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	84	70-130	11/30/12	Acceptable
Dibromofluoromethane	93	82-124	11/30/12	Acceptable
Toluene-d8	94	82-124	11/30/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	84	70-130	11/30/12	Acceptable
Dibromofluoromethane	108	82-124	11/30/12	Acceptable
Toluene-d8	99	82-124	11/30/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DW-2	**Units:**	ug/L
Lab Code:	K1211802-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DW-2	**Units:**	ug/L
Lab Code:	K1211802-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DW-2	**Units:**	ug/L
Lab Code:	K1211802-006	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	86	70-130	11/30/12	Acceptable
Dibromofluoromethane	84	82-124	11/30/12	Acceptable
Toluene-d8	87	82-124	11/30/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1211802-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1211802-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1211802-007	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	85	70-130	11/30/12	Acceptable
Dibromofluoromethane	111	82-124	11/30/12	Acceptable
Toluene-d8	92	82-124	11/30/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	Trip Blank 11/27	**Units:**	ug/L
Lab Code:	K1211802-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	Trip Blank 11/27	**Units:**	ug/L
Lab Code:	K1211802-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Volatile Organic Compounds

Sample Name:	Trip Blank 11/27	**Units:**	ug/L
Lab Code:	K1211802-008	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	87	70-130	11/30/12	Acceptable
Dibromofluoromethane	108	82-124	11/30/12	Acceptable
Toluene-d8	92	82-124	11/30/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Volatile Organic Compounds

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Volatile Organic Compounds

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Volatile Organic Compounds

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	86	70-130	11/30/12	Acceptable
Dibromofluoromethane	104	82-124	11/30/12	Acceptable
Toluene-d8	125	82-124	11/30/12	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Volatile Organic Compounds

Sample Name:	Trip Blank 11/28	**Units:**	ug/L
Lab Code:	K1211802-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Chloromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Vinyl Chloride	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromomethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Chloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Trichlorofluoromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Methylene Chloride	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1-Dichloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Methyl tert-Butyl Ether	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Chloroform	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromochloromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Carbon Tetrachloride	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Benzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dichloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Trichloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dichloropropane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromodichloromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Dibromomethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Diisopropyl Ether	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1-Dichloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Toluene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Tetrachloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
2,2-Dichloropropane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,3-Dichloropropane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
2-Butanone (MEK)	ND	U	5.0	1	12/11/12	12/11/12	KWG1214547	*
Dibromochloromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Chlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Ethylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Volatile Organic Compounds

Sample Name:	Trip Blank 11/28	**Units:**	ug/L
Lab Code:	K1211802-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
m,p-Xylenes	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
o-Xylene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1,1-Trichloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromoform	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Isopropylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1-Dichloropropene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
n-Propylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,3,5-Trimethylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
2-Chlorotoluene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
4-Chlorotoluene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
tert-Butylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2,4-Trimethylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
sec-Butylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
p-Isopropyltoluene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,3-Dichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,4-Dichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
n-Butylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2,4-Trichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Hexachlorobutadiene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Naphthalene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1,2-Trichloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	12/11/12	12/11/12	KWG1214547	
1,2,3-Trichloropropane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2,3-Trichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Volatile Organic Compounds

Sample Name:	Trip Blank 11/28	**Units:**	ug/L
Lab Code:	K1211802-010	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	84	70-130	12/11/12	Acceptable
Dibromofluoromethane	100	82-124	12/11/12	Acceptable
Toluene-d8	89	82-124	12/11/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214192-2	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Vinyl Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichlorofluoromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methylene Chloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chloroform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Carbon Tetrachloride	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Benzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Trichloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromodichloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Dibromomethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Diisopropyl Ether	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Toluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Tetrachloroethene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2,2-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Butanone (MEK)	ND	U	5.0	1	11/30/12	11/30/12	KWG1214192	*
Dibromochloromethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Chlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Ethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214192-2	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
m,p-Xylenes	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
o-Xylene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromoform	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Isopropylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1-Dichloropropene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Bromobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Propylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
2-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Chlorotoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
tert-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
sec-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
p-Isopropyltoluene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,3-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,4-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
n-Butylbenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Hexachlorobutadiene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
Naphthalene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,2-Trichloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichloropropane	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/30/12	11/30/12	KWG1214192	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214192-2	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	85	70-130	11/30/12	Acceptable
Dibromofluoromethane	88	82-124	11/30/12	Acceptable
Toluene-d8	90	82-124	11/30/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214547-2	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Chloromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Vinyl Chloride	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromomethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Chloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Trichlorofluoromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Methylene Chloride	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1-Dichloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Methyl tert-Butyl Ether	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Chloroform	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromochloromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Carbon Tetrachloride	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Benzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dichloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Trichloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dichloropropane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromodichloromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Dibromomethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Diisopropyl Ether	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1-Dichloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Toluene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Tetrachloroethene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
2,2-Dichloropropane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,3-Dichloropropane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
2-Butanone (MEK)	ND	U	5.0	1	12/11/12	12/11/12	KWG1214547	*
Dibromochloromethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Chlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Ethylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214547-2	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Styrene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
m,p-Xylenes	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
o-Xylene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1,1-Trichloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromoform	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Isopropylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1-Dichloropropene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Bromobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
n-Propylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,3,5-Trimethylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
2-Chlorotoluene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
4-Chlorotoluene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
tert-Butylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2,4-Trimethylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
sec-Butylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
p-Isopropyltoluene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,3-Dichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,4-Dichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
n-Butylbenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2,4-Trichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Hexachlorobutadiene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
Naphthalene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1,2-Trichloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
4-Methyl-2-pentanone (MIBK)	ND	U	10	1	12/11/12	12/11/12	KWG1214547	
1,2,3-Trichloropropane	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	
1,2,3-Trichlorobenzene	ND	U	0.50	1	12/11/12	12/11/12	KWG1214547	

* See Case Narrative

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214547-2	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	86	70-130	12/11/12	Acceptable
Dibromofluoromethane	100	82-124	12/11/12	Acceptable
Toluene-d8	90	82-124	12/11/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated **Service Request:** K1211802
Project: Mint Farm
Sample Matrix: Drinking water

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: METHOD **Units:** PERCENT
Analysis Method: 524.2 **Level:** Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	
DW-1	K1211802-001	84	106	109	
DW-7	K1211802-002	88	109	92	
Trip Blank 11/26	K1211802-003	79	86	89	
DW-6	K1211802-004	84	93	94	
DW-5	K1211802-005	84	108	99	
DW-2	K1211802-006	86	84	87	
DUP-1	K1211802-007	85	111	92	
Trip Blank 11/27	K1211802-008	87	108	92	
DW-9	K1211802-009	86	104	125	*
Trip Blank 11/28	K1211802-010	84	100	89	
Method Blank	KWG1214192-2	85	88	90	
Method Blank	KWG1214547-2	86	100	90	
Lab Control Sample	KWG1214192-1	103	88	102	
Lab Control Sample	KWG1214547-1	103	99	104	

Surrogate Recovery Control Limits (%)

Sur1	=	4-Bromofluorobenzene	70-130
Sur2	=	Dibromofluoromethane	82-124
Sur3	=	Toluene-d8	82-124

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

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

COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/30/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	11/30/2012

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	524.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214192

	Lab Control Sample KWG1214192-1 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	5.56	5.00	111	70-130
Chloromethane	6.05	5.00	121	70-130
Vinyl Chloride	5.04	5.00	101	70-130
Bromomethane	4.00	5.00	80	70-130
Chloroethane	4.36	5.00	87	70-130
Trichlorofluoromethane	4.66	5.00	93	70-130
Methylene Chloride	3.67	5.00	73	70-130
trans-1,2-Dichloroethene	3.83	5.00	77	70-130
cis-1,2-Dichloroethene	4.04	5.00	81	70-130
1,1-Dichloroethene	4.31	5.00	86	70-130
Methyl tert-Butyl Ether	6.95	10.0	70	70-130
Chloroform	4.61	5.00	92	70-130
Bromochloromethane	4.10	5.00	82	70-130
Carbon Tetrachloride	4.89	5.00	98	70-130
Benzene	5.80	5.00	116	70-130
1,2-Dichloroethane	5.75	5.00	115	70-130
Trichloroethene	5.30	5.00	106	70-130
1,2-Dichloropropane	5.27	5.00	105	70-130
Bromodichloromethane	5.53	5.00	111	70-130
Dibromomethane	5.54	5.00	111	70-130
cis-1,3-Dichloropropene	4.83	5.00	97	70-130
Diisopropyl Ether	4.00	5.00	80	70-130
1,1-Dichloroethane	4.06	5.00	81	70-130
Toluene	5.35	5.00	107	70-130
trans-1,3-Dichloropropene	5.02	5.00	100	70-130
Tetrachloroethene	5.34	5.00	107	70-130
1,3-Dichloropropane	5.10	5.00	102	70-130
2,2-Dichloropropane	4.08	5.00	82	70-130
Dibromochloromethane	4.92	5.00	98	70-130
2-Butanone (MEK)	77.5	100	78	70-130
1,2-Dibromoethane (EDB)	4.89	5.00	98	70-130
Chlorobenzene	4.90	5.00	98	70-130
Ethylbenzene	5.19	5.00	104	70-130
Styrene	5.23	5.00	105	70-130
m,p-Xylenes	11.2	10.0	112	70-130

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.

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/30/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	11/30/2012

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	524.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214192

	Lab Control Sample KWG1214192-1 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
o-Xylene	5.19	5.00	104	70-130
1,1,1-Trichloroethane	5.06	5.00	101	70-130
Bromoform	4.71	5.00	94	70-130
1,1,2,2-Tetrachloroethane	5.31	5.00	106	70-130
Isopropylbenzene	5.39	5.00	108	70-130
1,1-Dichloropropene	4.90	5.00	98	70-130
Bromobenzene	4.86	5.00	97	70-130
n-Propylbenzene	5.61	5.00	112	70-130
1,3,5-Trimethylbenzene	5.47	5.00	109	70-130
2-Chlorotoluene	5.36	5.00	107	70-130
4-Chlorotoluene	5.44	5.00	109	70-130
tert-Butylbenzene	5.23	5.00	105	70-130
1,2,4-Trimethylbenzene	5.34	5.00	107	70-130
sec-Butylbenzene	5.64	5.00	113	70-130
p-Isopropyltoluene	5.36	5.00	107	70-130
1,3-Dichlorobenzene	5.09	5.00	102	70-130
1,4-Dichlorobenzene	4.90	5.00	98	70-130
n-Butylbenzene	5.56	5.00	111	70-130
1,2-Dichlorobenzene	5.08	5.00	102	70-130
1,2-Dibromo-3-chloropropane (DBCP)	5.42	5.00	108	70-130
1,2,4-Trichlorobenzene	4.61	5.00	92	70-130
Hexachlorobutadiene	5.06	5.00	101	70-130
Naphthalene	4.21	5.00	84	70-130
1,1,2-Trichloroethane	5.11	5.00	102	70-130
1,1,1,2-Tetrachloroethane	4.84	5.00	97	70-130
4-Methyl-2-pentanone (MIBK)	93.5	100	94	70-130
1,2,3-Trichloropropane	5.45	5.00	109	70-130
1,2,3-Trichlorobenzene	5.10	5.00	102	70-130

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COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	12/11/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/11/2012

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	524.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214547

	Lab Control Sample KWG1214547-1 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	5.57	5.00	111	70-130
Chloromethane	5.39	5.00	108	70-130
Vinyl Chloride	5.58	5.00	112	70-130
Bromomethane	5.54	5.00	111	70-130
Chloroethane	5.37	5.00	107	70-130
Trichlorofluoromethane	5.35	5.00	107	70-130
Methylene Chloride	4.89	5.00	98	70-130
trans-1,2-Dichloroethene	5.14	5.00	103	70-130
cis-1,2-Dichloroethene	5.10	5.00	102	70-130
1,1-Dichloroethene	5.23	5.00	105	70-130
Methyl tert-Butyl Ether	9.43	10.0	94	70-130
Chloroform	5.08	5.00	102	70-130
Bromochloromethane	4.84	5.00	97	70-130
Carbon Tetrachloride	5.20	5.00	104	70-130
Benzene	5.24	5.00	105	70-130
1,2-Dichloroethane	4.95	5.00	99	70-130
Trichloroethene	5.13	5.00	103	70-130
1,2-Dichloropropane	4.98	5.00	100	70-130
Bromodichloromethane	4.88	5.00	98	70-130
Dibromomethane	4.83	5.00	97	70-130
cis-1,3-Dichloropropene	4.11	5.00	82	70-130
Diisopropyl Ether	5.05	5.00	101	70-130
1,1-Dichloroethane	5.15	5.00	103	70-130
Toluene	5.33	5.00	107	70-130
trans-1,3-Dichloropropene	3.82	5.00	76	70-130
Tetrachloroethene	5.07	5.00	101	70-130
1,3-Dichloropropane	5.06	5.00	101	70-130
2,2-Dichloropropane	5.25	5.00	105	70-130
Dibromochloromethane	4.72	5.00	94	70-130
2-Butanone (MEK)	83.5	100	83	70-130
1,2-Dibromoethane (EDB)	4.90	5.00	98	70-130
Chlorobenzene	5.05	5.00	101	70-130
Ethylbenzene	5.33	5.00	107	70-130
Styrene	4.69	5.00	94	70-130
m,p-Xylenes	11.3	10.0	113	70-130

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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.

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	12/11/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/11/2012

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	524.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214547

	Lab Control Sample KWG1214547-1 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
o-Xylene	4.34	5.00	87	70-130
1,1,1-Trichloroethane	5.17	5.00	103	70-130
Bromoform	4.24	5.00	85	70-130
1,1,2,2-Tetrachloroethane	4.79	5.00	96	70-130
Isopropylbenzene	4.53	5.00	91	70-130
1,1-Dichloropropene	5.28	5.00	106	70-130
Bromobenzene	5.05	5.00	101	70-130
n-Propylbenzene	5.85	5.00	117	70-130
1,3,5-Trimethylbenzene	5.60	5.00	112	70-130
2-Chlorotoluene	5.53	5.00	111	70-130
4-Chlorotoluene	5.60	5.00	112	70-130
tert-Butylbenzene	4.83	5.00	97	70-130
1,2,4-Trimethylbenzene	4.74	5.00	95	70-130
sec-Butylbenzene	4.96	5.00	99	70-130
p-Isopropyltoluene	4.89	5.00	98	70-130
1,3-Dichlorobenzene	5.23	5.00	105	70-130
1,4-Dichlorobenzene	4.90	5.00	98	70-130
n-Butylbenzene	4.84	5.00	97	70-130
1,2-Dichlorobenzene	5.21	5.00	104	70-130
1,2-Dibromo-3-chloropropane (DBCP)	4.68	5.00	94	70-130
1,2,4-Trichlorobenzene	5.00	5.00	100	70-130
Hexachlorobutadiene	5.15	5.00	103	70-130
Naphthalene	4.13	5.00	83	70-130
1,1,2-Trichloroethane	5.02	5.00	100	70-130
1,1,1,2-Tetrachloroethane	4.68	5.00	94	70-130
4-Methyl-2-pentanone (MIBK)	84.4	100	84	70-130
1,2,3-Trichloropropane	4.76	5.00	95	70-130
1,2,3-Trichlorobenzene	5.40	5.00	108	70-130

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Semivolatile Organics by EPA method 525.2

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Hexachlorobenzene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Simazine	ND	U	0.049	1	11/30/12	12/13/12	KWG1214181	
Atrazine	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Alachlor	ND	U	0.070	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Benzo(a)pyrene	ND	U	0.020	1	11/30/12	12/13/12	KWG1214181	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	107	70-130	12/13/12	Acceptable
Triphenyl Phosphate	82	70-130	12/13/12	Acceptable
Perylene-d12	89	70-130	12/13/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Semivolatile Organics by EPA method 525.2

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Hexachlorobenzene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Simazine	ND	U	0.049	1	11/30/12	12/13/12	KWG1214181	
Atrazine	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Alachlor	ND	U	0.070	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Benzo(a)pyrene	ND	U	0.020	1	11/30/12	12/13/12	KWG1214181	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	112	70-130	12/13/12	Acceptable
Triphenyl Phosphate	83	70-130	12/13/12	Acceptable
Perylene-d12	87	70-130	12/13/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Semivolatile Organics by EPA method 525.2

Sample Name:	DW-6	**Units:**	ug/L
Lab Code:	K1211802-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	*
Hexachlorobenzene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Simazine	ND	U	0.049	1	11/30/12	12/13/12	KWG1214181	
Atrazine	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Alachlor	ND	U	0.070	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Benzo(a)pyrene	ND	U	0.020	1	11/30/12	12/13/12	KWG1214181	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	110	70-130	12/13/12	Acceptable
Triphenyl Phosphate	89	70-130	12/13/12	Acceptable
Perylene-d12	84	70-130	12/13/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Semivolatile Organics by EPA method 525.2

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Hexachlorobenzene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Simazine	ND	U	0.049	1	11/30/12	12/13/12	KWG1214181	
Atrazine	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Alachlor	ND	U	0.070	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Benzo(a)pyrene	ND	U	0.020	1	11/30/12	12/13/12	KWG1214181	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	115	70-130	12/13/12	Acceptable
Triphenyl Phosphate	91	70-130	12/13/12	Acceptable
Perylene-d12	97	70-130	12/13/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Semivolatile Organics by EPA method 525.2

Sample Name:	DW-2	**Units:**	ug/L
Lab Code:	K1211802-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Hexachlorobenzene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Simazine	ND	U	0.049	1	11/30/12	12/13/12	KWG1214181	
Atrazine	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Alachlor	ND	U	0.070	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Benzo(a)pyrene	ND	U	0.020	1	11/30/12	12/13/12	KWG1214181	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	102	70-130	12/13/12	Acceptable
Triphenyl Phosphate	85	70-130	12/13/12	Acceptable
Perylene-d12	96	70-130	12/13/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Semivolatile Organics by EPA method 525.2

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1211802-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	*
Hexachlorobenzene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Simazine	ND	U	0.049	1	11/30/12	12/13/12	KWG1214181	
Atrazine	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Alachlor	ND	U	0.070	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Benzo(a)pyrene	ND	U	0.020	1	11/30/12	12/13/12	KWG1214181	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	116	70-130	12/13/12	Acceptable
Triphenyl Phosphate	97	70-130	12/13/12	Acceptable
Perylene-d12	73	70-130	12/13/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Semivolatile Organics by EPA method 525.2

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Hexachlorobenzene	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Simazine	ND	U	0.049	1	11/30/12	12/13/12	KWG1214181	
Atrazine	ND	U	0.098	1	11/30/12	12/13/12	KWG1214181	
Alachlor	ND	U	0.070	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	11/30/12	12/13/12	KWG1214181	
Benzo(a)pyrene	ND	U	0.020	1	11/30/12	12/13/12	KWG1214181	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	112	70-130	12/13/12	Acceptable
Triphenyl Phosphate	89	70-130	12/13/12	Acceptable
Perylene-d12	73	70-130	12/13/12	Acceptable

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Semivolatile Organics by EPA method 525.2

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214181-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.10	1	11/30/12	12/13/12	KWG1214181	
Hexachlorobenzene	ND	U	0.10	1	11/30/12	12/13/12	KWG1214181	
Simazine	ND	U	0.050	1	11/30/12	12/13/12	KWG1214181	
Atrazine	ND	U	0.10	1	11/30/12	12/13/12	KWG1214181	
Alachlor	ND	U	0.072	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Adipate	ND	U	0.60	1	11/30/12	12/13/12	KWG1214181	
Bis(2-ethylhexyl) Phthalate	ND	U	0.60	1	11/30/12	12/13/12	KWG1214181	
Benzo(a)pyrene	ND	U	0.020	1	11/30/12	12/13/12	KWG1214181	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	101	70-130	12/13/12	Acceptable
Triphenyl Phosphate	84	70-130	12/13/12	Acceptable
Perylene-d12	98	70-130	12/13/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated **Service Request:** K1211802
Project: Mint Farm
Sample Matrix: Drinking water

Surrogate Recovery Summary
Semivolatile Organics by EPA method 525.2

Extraction Method: METHOD **Units:** PERCENT
Analysis Method: 525.2 **Level:** Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
DW-1	K1211802-001	107	82	89
DW-7	K1211802-002	112	83	87
DW-6	K1211802-004	110	89	84
DW-5	K1211802-005	115	91	97
DW-2	K1211802-006	102	85	96
DUP-1	K1211802-007	116	97	73
DW-9	K1211802-009	112	89	73
Method Blank	KWG1214181-3	101	84	98
DW-1MS	KWG1214181-2	104	105	75
Lab Control Sample	KWG1214181-1	103	108	112

Surrogate Recovery Control Limits (%)

Sur1	=	1,3-Dimethyl-2-nitrobenzene	70-130
Sur2	=	Triphenyl Phosphate	70-130
Sur3	=	Perylene-d12	70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/30/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/13/2012

Matrix Spike Summary
Semivolatile Organics by EPA method 525.2

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2	**Extraction Lot:**	KWG1214181

		DW-1MS KWG1214181-2 Matrix Spike			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Hexachlorocyclopentadiene	ND	1.16	0.971	119	70-130
Hexachlorobenzene	ND	0.947	0.971	98	70-130
Simazine	ND	0.839	0.971	86	70-130
Atrazine	ND	0.855	0.971	88	70-130
Alachlor	ND	1.03	0.971	106	70-130
Bis(2-ethylhexyl) Adipate	ND	1.03	0.971	106	70-130
Bis(2-ethylhexyl) Phthalate	ND	1.37	0.971	141 *	70-130
Benzo(a)pyrene	ND	0.195	0.971	20 *	70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	11/30/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/13/2012

Lab Control Spike Summary
Semivolatile Organics by EPA method 525.2

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	525.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214181

	Lab Control Sample KWG1214181-1 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Hexachlorocyclopentadiene	1.28	1.00	128	70-130
Hexachlorobenzene	1.01	1.00	101	70-130
Simazine	0.895	1.00	89	70-130
Atrazine	0.864	1.00	86	70-130
Alachlor	1.06	1.00	106	70-130
Bis(2-ethylhexyl) Adipate	1.08	1.00	108	70-130
Bis(2-ethylhexyl) Phthalate	1.17	1.00	117	70-130
Benzo(a)pyrene	1.17	1.00	117	70-130

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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Endothall by EPA Method 548.1

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	12/03/12	12/13/12	KWG1214258	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Endothall by EPA Method 548.1

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	12/03/12	12/06/12	KWG1214258	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Endothall by EPA Method 548.1

Sample Name:	DW-6	**Units:**	ug/L
Lab Code:	K1211802-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	12/03/12	12/06/12	KWG1214258	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Endothall by EPA Method 548.1

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	12/03/12	12/13/12	KWG1214258	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Endothall by EPA Method 548.1

Sample Name:	DW-2	**Units:**	ug/L
Lab Code:	K1211802-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	12/03/12	12/13/12	KWG1214258	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Endothall by EPA Method 548.1

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1211802-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	12/03/12	12/06/12	KWG1214258	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Endothall by EPA Method 548.1

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	12/03/12	12/06/12	KWG1214258	

Comments:

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Endothall by EPA Method 548.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214258-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	12/03/12	12/06/12	KWG1214258	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	12/03/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/06/2012

Matrix Spike Summary
Endothall by EPA Method 548.1

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1	**Extraction Lot:**	KWG1214258

		DW-1MS KWG1214258-2 Matrix Spike			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Endothall	ND	112	100	112	30-142

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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:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	12/03/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/06/2012

Lab Control Spike Summary
Endothall by EPA Method 548.1

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	548.1	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214258

	Lab Control Sample KWG1214258-1 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Endothall	111	100	111	30-142

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

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

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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Diquat by High Performance Liquid Chromatography

Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	K1211802-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	12/03/12	12/03/12	KWG1214050	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/2012
Sample Matrix:	Drinking water	**Date Received:**	11/26/2012

Diquat by High Performance Liquid Chromatography

Sample Name:	DW-7	**Units:**	ug/L
Lab Code:	K1211802-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	12/03/12	12/03/12	KWG1214050	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Diquat by High Performance Liquid Chromatography

Sample Name:	DW-6	**Units:**	ug/L
Lab Code:	K1211802-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	**0.80**		0.40	1	12/03/12	12/03/12	KWG1214050	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Diquat by High Performance Liquid Chromatography

Sample Name:	DW-5	**Units:**	ug/L
Lab Code:	K1211802-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	12/03/12	12/03/12	KWG1214050	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Diquat by High Performance Liquid Chromatography

Sample Name:	DW-2	**Units:**	ug/L
Lab Code:	K1211802-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	12/03/12	12/03/12	KWG1214050	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/2012
Sample Matrix:	Drinking water	**Date Received:**	11/27/2012

Diquat by High Performance Liquid Chromatography

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1211802-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	12/03/12	12/03/12	KWG1214050	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/2012
Sample Matrix:	Drinking water	**Date Received:**	11/28/2012

Diquat by High Performance Liquid Chromatography

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	12/03/12	12/03/12	KWG1214050	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Diquat by High Performance Liquid Chromatography

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1214050-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	12/03/12	12/03/12	KWG1214050	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	12/03/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/03/2012

Matrix Spike Summary
Diquat by High Performance Liquid Chromatography

Sample Name:	DW-9	**Units:**	ug/L
Lab Code:	K1211802-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2	**Extraction Lot:**	KWG1214050

		DW-9MS KWG1214050-1 **Matrix Spike**			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Diquat	ND	12.1	12.0	101	70-130

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Extracted:**	12/03/2012
Sample Matrix:	Drinking water	**Date Analyzed:**	12/03/2012

Lab Control Spike Summary
Diquat by High Performance Liquid Chromatography

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	549.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1214050

	Lab Control Sample KWG1214050-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Diquat	11.9	12.0	99	70-130

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

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

December 14, 2012 Service Request No: K1211802

Lisa Domenighini

Columbia Analytical Services Inc
1317 South 13th Avenue
Kelso, WA 98626

Laboratory Results for: Kennedy/Jenks Consultants Incorporated.

Dear Lisa:

Enclosed are the results of the sample(s) submitted to our laboratory on November 29, 2012. For your reference, these analyses have been assigned our service request number : **K1211802.** 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.
All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) 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. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My direct number is 281-994-2959.

Respectfully submitted,

Columbia Analytical Services, Inc.

Arthi Kodur
Project Manager

For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com.

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Certificate of Analysis

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COLUMBIA ANALYTICAL SERVICES, INC
dba ALS Environmental

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request No.:**	K1211802
Project:	Mint Farm	**Date Received:**	11/28/12-11/30/12
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Seven water samples were received for analysis at ALS-Columbia Analytical Services on 11/28/12-11/30/12

Please note the reporting forms are currently referencing the date ALS-CAS-Kelso received the samples (11/26/12-11/28/12) and not the date ALS-CAS-Houston received the samples (11/28/12-11/30/12).

The samples were received at 2°C in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Extraction

Samples K1211802-001(DW-1), 002 (DW-7), 004 (DW-6), 005(DW-5), 006(DW-2) and 007 (DUP-1) did not have clean up standard added during the extraction due to a laboratory error.

Data Validation Notes and Discussion

MS/MSD

EQ1200697: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of an MS/MSD for this extraction batch. The batch quality control criteria were met.

EQ1200702: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of an MS/MSD for this extraction batch. The batch quality control criteria were met.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of Columbia Analytical Services, Inc. dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: Kennedy/Jenks Consultants, Incorporated **Service Request:** K1211802
Project: Mint Farm

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K1211802-001	DW-1	11/26/12	11:35
K1211802-002	DW-7	11/26/12	14:00
K1211802-003	Trip Blank 11/26	11/26/12	11:35
K1211802-004	DW-6	11/27/12	10:00
K1211802-005	DW-5	11/27/12	12:00
K1211802-006	DW-2	11/27/12	13:15
K1211802-007	DUP-1	11/27/12	15:00
K1211802-008	Trip Blank 11/27	11/27/12	15:00
K1211802-009	DW-9	11/28/12	11:30
K1211802-010	Trip Blank 11/28	11/28/12	11:30

Laboratory Certifications
2012-2013

STATE/PROGRAM	AGENCY	CERT#	EXP DATE	CERTIFIED?
DoD ELAP	A2LA	2897.01	11/30/13	Yes
ISO 17025	A2LA	2897.01	11/30/13	Yes
ARIZONA	AZ-DHS	AZ0725	05/27/13	Yes
ARKANSAS	ADEQ	12-035-0	06/16/13	Yes
CALIFORNIA	CA-ELAP	2452	02/28/13	Yes
FLORIDA/NELAP	FL-DOHS	E87611	06/30/13	Yes
HAWAII	HI-DOH	N/A	06/30/13	Yes
ILLINOIS/NELAP	IL-EPA	003004	10/06/13	Yes
LOUISIANA/NELAP	LELAP	03048	06/30/13	Yes
LOUISIANA/NELAP	LDHH	LA120014	12/31/12	Yes
MAINE	ME-DOHS	2012017	06/05/13	Yes
MARYLAND	MDE	343	06/30/13	
MICHIGAN	MIDEQ	9971	06/30/13	Yes
MINNESOTA	MDH	048-999-427	12/31/12	Yes
NEVADA	NDEP	TX014112013A	07/31/13	Yes
NEW JERSEY	NJDEP	TX008	06/30/13	Yes
NEW MEXICO	NMED-DWB	N/A	06/30/13	Yes
NEW YORK/NELAP	NY-DOH	11707	04/01/13	Yes
OKLAHOMA	OKDEQ	2012-133	08/31/13	Yes
OREGON/NELAP	ORELAP	TX200002-009	03/24/13	Yes
PENNSYLVANIA/NELAP	PLAP	004	06/30/13	Yes
TENNESSEE	TNDEC	TN04016	06/30/13	Yes
TEXAS/NELAP	TCEQ	T104704216-12-3	06/30/13	Yes
UTAH/NELAP	UTELCP	TX014112013-2	06/30/13	Yes
SOIL IMPORT PERMIT	USDA	P330-12-00002	01/13/15	Yes
WASHINGTON/NELAP	WA-Ecology	C819-12	11/14/13	Yes
WEST VIRGINIA	WVDEP	347	06/30/13	Yes

Abbreviations, Acronyms & Definitions

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent Recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
RRT	Relative Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-Noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

Data Qualifier Flags – Dioxin/Furans

- **B** Indicates the associated analyte is found in the method blank, as well as in the sample.

- **C** Confirmation of the TCDF compound: When 2378-TCDF is detected on the DB-5 column, confirmation analyses are performed on a second column (DB-225). The results from both the DB-5 column and the DB-225 column are included in this data package. The results from the DB-225 analyses should be used to evaluate the 2378-TCDF in the samples. The confirmed result should be used in determining the TEQ value for TCDF.

- **E** Indicates an estimated value – used when the analyte concentration exceeds the upper end of the linear calibration range.

- **J** Indicates an estimated value – used when the analyte concentration is below the method reporting limit (MRL) and above the estimated detection limit (EDL).

- **K** EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

- **U** Indicates the compound was analyzed and not detected.

- **Y** Samples that had recoveries of labeled standards outside the acceptance limits are flagged with 'Y'. In all cases, the signal-to-noise ratios are greater than 10:1, making these data acceptable.

- **ND** Indicates concentration is reported as 'Not Detected.'

- **S** Peak is saturated; data not reportable.

- **P** Indicates chlorodiphenyl ether interference present at the retention time of the target compound.

- **Q** Lock-mass interference by chlorodiphenyl ether compounds.

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID K1211802 DB-5 DB-225 SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
12/11/12	[illegible]	001, 002, 004

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
12/12/12	UM	001, 002, 004

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID K1211802 (DB-5) DB-225 SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 12/11/12	Analyst: JC	Samples: 005-007

Second Level - Data Review – to be filled by person doing peer review

Date: 12/11/12	Analyst: [illegible]	Samples: 005-007

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID K1211802 (DB-5) DB-225 SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
12/14/12	[illegible]	009

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
12/14/12	UK	009

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Analytical Results

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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 1135
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
Sample Name:	DW-1	**Units:**	pg/L
Lab Code:	K1211802-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/10/12 2033
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/30/12
Sample Amount:	1040mL	**Instrument Name:**	E-HRMS-03
		GC Column:	DB-5
Data File Name:	P161281	**Blank File Name:**	P220910
ICAL Date:	10/29/12	**Cal Ver. File Name:**	P161277

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.440	4.81			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1319.631	66		25-164	0.78	1.007
37Cl-2,3,7,8-TCDD		0.108			35-197	NA	1.008

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/26/12 1400
Sample Matrix:	Drinking Water	**Date Received:**	11/26/12
Sample Name:	DW-7	**Units:**	pg/L
Lab Code:	K1211802-002	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/10/12 2120
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/30/12
Sample Amount:	1020mL	**Instrument Name:**	E-HRMS-03
		GC Column:	DB-5
Data File Name:	P161282	**Blank File Name:**	P220910
ICAL Date:	10/29/12	**Cal Ver. File Name:**	P161277

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.343	4.90			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1177.568	59		25-164	0.78	1.007
37Cl-2,3,7,8-TCDD		0.070			35-197	NA	1.008

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12 1000
Sample Matrix:	Drinking Water	**Date Received:**	11/27/12
Sample Name:	DW-6	**Units:**	pg/L
Lab Code:	K1211802-004	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/10/12 2208
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/30/12
Sample Amount:	1020mL	**Instrument Name:**	E-HRMS-03
		GC Column:	DB-5
Data File Name:	P161283	**Blank File Name:**	P220910
ICAL Date:	10/29/12	**Cal Ver. File Name:**	P161277

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.305	4.90			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1154.036	58		25-164	0.78	1.007
37Cl-2,3,7,8-TCDD		0.107			35-197	NA	1.008

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12 1200
Sample Matrix:	Drinking Water	**Date Received:**	11/27/12
Sample Name:	DW-5	**Units:**	pg/L
Lab Code:	K1211802-005	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/10/12 2239
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/30/12
Sample Amount:	1040mL	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P220924	**Blank File Name:**	P220910
ICAL Date:	05/03/12	**Cal Ver. File Name:**	P220917

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.01	4.81			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1254.834	63		25-164	0.81	1.009
37Cl-2,3,7,8-TCDD		0.758			35-197	NA	1.009

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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12 1315
Sample Matrix:	Drinking Water	**Date Received:**	11/27/12
Sample Name:	DW-2	**Units:**	pg/L
Lab Code:	K1211802-006	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/10/12 2331
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/30/12
Sample Amount:	1040mL	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P220925	**Blank File Name:**	P220910
ICAL Date:	05/03/12	**Cal Ver. File Name:**	P220917

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.32	4.81			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1195.145	60		25-164	0.78	1.008
37Cl-2,3,7,8-TCDD		*			35-197	NA	

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/27/12 1500
Sample Matrix:	Drinking Water	**Date Received:**	11/27/12
Sample Name:	DUP-1	**Units:**	pg/L
Lab Code:	K1211802-007	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/11/12 0022
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/30/12
Sample Amount:	1040mL	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P220926	**Blank File Name:**	P220910
ICAL Date:	05/03/12	**Cal Ver. File Name:**	P220917

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.651	4.81			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1419.740	71		25-164	0.80	1.008
37Cl-2,3,7,8-TCDD		*			35-197	NA	

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	11/28/12 1130
Sample Matrix:	Drinking Water	**Date Received:**	11/28/12
Sample Name:	DW-9	**Units:**	pg/L
Lab Code:	K1211802-009	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/11/12 1642
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	12/3/12
Sample Amount:	1040mL	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P220942	**Blank File Name:**	P220937
ICAL Date:	05/03/12	**Cal Ver. File Name:**	P220933

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.487	4.81			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1721.606	86		25-164	0.78	1.008
37Cl-2,3,7,8-TCDD	800	756.422	95		35-197	NA	1.009

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ1200697-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/10/12 1028
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/30/12
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P220910	**Blank File Name:**	P220910
ICAL Date:	05/03/12	**Cal Ver. File Name:**	P220908

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.954	5.00			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1629.360	81		25-164	0.78	1.008
37Cl-2,3,7,8-TCDD		*			35-197	NA	

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ1200702-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/11/12 1225
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	12/3/12
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P220937	**Blank File Name:**	P220937
ICAL Date:	05/03/12	**Cal Ver. File Name:**	P220933

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.808	5.00			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1303.414	65		25-164	0.79	1.008
37Cl-2,3,7,8-TCDD	800	570.109	71		35-197	NA	1.009

Columbia Analytical Services

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Accuracy and Precision

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Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

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QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Analyzed:**	12/10/12
Sample Matrix:	Drinking Water		

Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Units:**	pg/L
Prep Method:	Method Sep Funnel/Jar	**Basis:**	NA
		Extraction Lot:	172588

	Lab Control Sample EQ1200697-02			Duplicate Lab Control Sample EQ1200697-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,3,7,8-TCDD	218	200	109	220	200	110	67 - 158	<1	50

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

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

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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ1200697-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/10/12 1534
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/30/12
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-03
		GC Column:	DB-5
Data File Name:	P161275	**Blank File Name:**	P220910
ICAL Date:	10/29/12	**Cal Ver. File Name:**	P161268

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**218**		0.465	5.00	0.76	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1188.129	59		25-164	0.78	1.007
37Cl-2,3,7,8-TCDD		0.927			35-197	NA	1.007

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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ1200697-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/10/12 1620
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/30/12
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-03
		GC Column:	DB-5
Data File Name:	P161276	**Blank File Name:**	P220910
ICAL Date:	10/29/12	**Cal Ver. File Name:**	P161268

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**220**		0.261	5.00	0.77	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1354.664	68		25-164	0.79	1.007
37Cl-2,3,7,8-TCDD		0.845			35-197	NA	1.007

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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ1200702-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/12/12 0010
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	12/3/12
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-03
		GC Column:	DB-5
Data File Name:	P161311	**Blank File Name:**	P220937
ICAL Date:	10/29/12	**Cal Ver. File Name:**	P161301

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**194**		0.368	5.00	0.76	1.000	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1115.941	56		25-164	0.78	1.007
37Cl-2,3,7,8-TCDD	800	513.102	64		35-197	NA	1.007

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1211802
Project:	Mint Farm	**Date Collected:**	NA
Sample Matrix:	Drinking Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ1200702-03	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	12/12/12 0058
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	12/3/12
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-03
		GC Column:	DB-5
Data File Name:	P161312	**Blank File Name:**	P220937
ICAL Date:	10/29/12	**Cal Ver. File Name:**	P161301

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**203**		0.247	5.00	0.78	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1352.731	68		25-164	0.78	1.007
37Cl-2,3,7,8-TCDD	800	598.855	75		35-197	NA	1.008

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Chain of Custody

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Intra-Network Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

Project Name: Mint Farm
Project Number:
Project Manager: Steven Misner
Company: Kennedy/Jenks Consultants, Incorporated

Lab Code	Client Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Date Received	Send To	Dioxins Furans 1613B
K1211802-001	DW-1	2	Drinking Water	11/26/12	1135	11/26/12	HOUSTON	V
K1211802-002	DW-7	2	Drinking Water	11/26/12	1400	11/26/12	HOUSTON	V

WA State D water
no State forms
11/27/12

Test Comments

Dioxins Furans - 1613B K1211802-001,2 2,3,7,8-TCDD

Folder Comments:

Use Baseline for Performance Testing Samples

Special Instructions/Comments

Please provide the electronic (PDF and EDD) report to the following e-mail address:
kelso_data@caslab.com

1016
SW 101915976
1/2°

2 Seals
bubble wrap
Gel packs

Turnaround Requirements

____ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

X **STANDARD**

Requested FAX Date: _____

Requested Report Date: 12/13/12

Report Requirements

___ I. Results Only

X II. Results + QC Summaries

___ III. Results + QC and Calibration Summaries

___ IV. Data Validation Report with Raw Data

PQL/MDL/J N

EDD Y

Invoice Information

PO# K1211802

Bill to

Relinquished By: 11/27/12 1300

Received By: 11/28/12 ~~1016~~ 1010 MR 11/28/12

Airbill Number: 12 973 659 01 6675 4060

Pag

Intra-Network Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

Project Name: Mint Farm
Project Number:
Project Manager: Steven Misner
Company: Kennedy/Jenks Consultants, Incorporated

K1211802 5
Kennedy/Jenks Consultants, Incorporated
Mint Farm

Lab Code	Client Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Date Received	Send To	Dioxins Furans 1613B
K1211802-001	DW-1	~~0~~	Drinking Water	11/26/12	1135	11/26/12	HOUSTON	V
K1211802-002	DW-7	~~0~~	Drinking Water	11/26/12	1400	11/26/12	HOUSTON	V
K1211802-004	DW-6	2	Drinking Water	11/27/12	1000	11/27/12	HOUSTON	V
K1211802-005	DW-5	2	Drinking Water	11/27/12	1200	11/27/12	HOUSTON	V
K1211802-006	DW-2	2	Drinking Water	11/27/12	1315	11/27/12	HOUSTON	V
K1211802-007	DUP-1	2	Drinking Water	11/27/12	1500	11/27/12	HOUSTON	V

Test Comments

Dioxins Furans - 1613B K1211802-001,2,4,5,6,7 2,3,7,8-TCDD

WA State DW
State DW Forms not needed
11/28/12 Lisa D

Folder Comments:

Use Baseline for Performance Testing Samples

Special Instructions/Comments

Please provide the electronic (PDF and EDD) report to the following e-mail address:
kelso_data@caslab.com
1012
5478072577755
1/2
S/N: 19915976

Turnaround Requirements

____ RUSH (Surcharges Apply)

PLEASE CIRCLE WORK DAYS
1 2 3 4 5

X STANDARD

Requested FAX Date: _____

Requested Report Date: 12/13/12

Report Requirements

____ I. Results Only

X II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

PQL/MDL/J N
EDD Y

Invoice Information

PO# K1211802

Bill to

Relinquished By: MT 11/28/12 Received By: 11/29/12 1000 Airbill Number:

Pag

Intra-Network Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

Project Name: Mint Farm
Project Number:
Project Manager: Steven Misner
Company: Kennedy/Jenks Consultants, Incorporated

Lab Code	Client Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Date Received	Send To	Dioxins Furans 1613B
K1211802-001	DW-1	6	Drinking Water	11/26/12	1135	11/26/12	HOUSTON	V
K1211802-002	DW-7		Drinking Water	11/26/12	1400	11/26/12	HOUSTON	V
K1211802-004	DW-6		Drinking Water	11/27/12	1000	11/27/12	HOUSTON	V
K1211802-005	DW-5		Drinking Water	11/27/12	1200	11/27/12	HOUSTON	V
K1211802-006	DW-2		Drinking Water	11/27/12	1315	11/27/12	HOUSTON	V
K1211802-007	DUP-1		Drinking Water	11/27/12	1500	11/27/12	HOUSTON	V
K1211802-009	DW-9	2	Drinking Water	11/28/12	1130	11/28/12	HOUSTON	V

Test Comments

Dioxins Furans - 1613B K1211802-001,2,4,5,6,7,9 2,3,7,8-TCDD
samples 004-007 will be shipped outlater this week (ak 11/28/12)

WA State DW
no State Forms
11/29/12
LisaD

Folder Comments:
Use Baseline for Performance Testing Samples

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
Please provide the electronic (PDF and EDD) report to the following e-mail address: kelso_data@caslab.com 1013 SW1019159946 1/2	____ RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 X STANDARD Requested FAX Date: ____ Requested Report Date: 12/13/12	____ I. Results Only X II. Results + QC Summaries ____ III. Results + QC and Calibration Summaries ____ IV. Data Validation Report with Raw Data PQL/MDL/J Y EDD Y	PO# K1211802 Bill to

Relinquished By: BJ 11/29/12 Received By: [signature] 11/30/12 1000 Airbill Number: 5478 9725 7928

Pag

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Cooler Receipt Form

Project Chemist: AK

Client/Project: Kennedy/Jenks Consultants, Inc; Mint Farm

Service Request: K1211802

Date/Time Received: 11/28/12 10:10:00

Date/Time Logged in: 11/28/12 11:47:00

Technician: MR

Technician: MR

1. Method of delivery: ○ US Mail ○ Fed Ex ● UPS ○ DHL ○ Courier ○ Client

2. Samples received in: ● Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ● Yes ○ No ○ N/A

Were they intact? ● Yes ○ No ○ N/A

Were they signed and dated? ● Yes ○ No ○ N/A

If yes, how many and where? 2

4. Method of delivery: ○ Inserts ○ Baggies ☑ Bubble Wrap ☑ Gel Packs ○ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ● No

Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?	Filed
1z9736590166754660		Nov 28, 2012	1016	MR	1/2	☒	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ● Yes ○ No ○ N/A

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ● Yes ○ No ○ N/A

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ● Yes ○ No ○ N/A

9. Were appropriate bottles/containers and volumes received for the requested tests? ● Yes ○ No ○ N/A

10. Did sample labels and tags agree with custody documents? ● Yes ○ No ○ N/A

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Broken	Date	Technician
			☐	☐		
			☐	☐		
			☐	☐		
			☐	☐		

Notes, Discrepancies, & Resolutions:

Print Form

Reset Form

Columbia Analytical Services
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Cooler Receipt Form

Project Chemist: AK

Client/Project: Kennedy/Jenks Consultants, Inc; Mint Farm

Service Request: K1211802

Date/Time Received: 11/29/12 10:00:00

Date/Time Logged in: 11/29/12 12:20:00

Technician: AL

Technician: AL

1. Method of delivery: ○ US Mail ● Fed Ex ○ UPS ○ DHL ○ Courier ○ Client

2. Samples received in: ● Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ● Yes ○ No ○ N/A

Were they intact? ● Yes ○ No ○ N/A

Were they signed and dated? ● Yes ○ No ○ N/A

If yes, how many and where? 2

4. Method of delivery: ○ Inserts ○ Baggies ☑ Bubble Wrap ☑ Gel Packs ○ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ● No

Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?	Filed
547807257755		Nov 29, 2012	1012	AL	1/2	☒	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ● Yes ○ No ○ N/A

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ● Yes ○ No ○ N/A

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ● Yes ○ No ○ N/A

9. Were appropriate bottles/containers and volumes received for the requested tests? ● Yes ○ No ○ N/A

10. Did sample labels and tags agree with custody documents? ● Yes ○ No ○ N/A

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Broken	Date	Technician
			☐	☐		
			☐	☐		
			☐	☐		
			☐	☐		

Notes, Discrepancies, & Resolutions:

Print Form

Reset Form

Columbia Analytical Services
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Cooler Receipt Form

Project Chemist: NB

Client/Project: Kennedy/Jenks Consultants, Inc; Mint Farm

Service Request: K1211802

Date/Time Received: 11/30/12 10:00:00

Date/Time Logged in: 11/30/12 13:57:00

Technician: AL

Technician: MR

1. Method of delivery: ○ US Mail ● Fed Ex ○ UPS ○ DHL ○ Courier ○ Client

2. Samples received in: ● Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ● Yes ○ No ○ N/A

Were they intact? ● Yes ○ No ○ N/A

Were they signed and dated? ● Yes ○ No ○ N/A

If yes, how many and where? 2

4. Method of delivery: ○ Inserts ○ Baggies ☑ Bubble Wrap ☑ Gel Packs ○ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ● No

Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?	Filed
547897257928		Nov 30, 2012	1013	MR	1/2	☒	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ● Yes ○ No ○ N/A

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ● Yes ○ No ○ N/A

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ● Yes ○ No ○ N/A

9. Were appropriate bottles/containers and volumes received for the requested tests? ● Yes ○ No ○ N/A

10. Did sample labels and tags agree with custody documents? ● Yes ○ No ○ N/A

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Broken	Date	Technician
			☐	☐		
			☐	☐		
			☐	☐		
			☐	☐		

Notes, Discrepancies, & Resolutions:

Print Form

Reset Form

Columbia Analytical Services INC

Sample Acceptance Policy

This policy outlines the criteria samples must meet to be accepted by CAS/ Houston.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sample
- ✓ The COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, CAS/Houston will complete a COC, which must be approved by the client, in writing, prior to proceeding with the analysis.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples can be shipped and stored at ambient temperature, ~23°C.
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder.

Service Request Summary

Folder #: **K1211802**
Client Name: Kennedy/Jenks Consultants, Incorporated
Project Name: Mint Farm
Project Number:

Report To: Steven Misner
Kennedy/Jenks Consultants, Incorporated
200 SW Market St., Suite 500
Portland, OR 97201-5715
Phone Number: 503-423-4004
Cell Number:
Fax Number: 503-295-4901
E-mail: stevenmisner@kennedyjenks.com

Project Chemist: Arthi Kodur
Originating Lab: KELSO
Logged By: LKENNEDY
Date Received: 11/26 - 11/28/12
Internal Due Date: 12/14/12
QAP: LAB QAP
Qualifier Set: CAS Standard
Formset: CAS Standard
Merged?: N,Y
Report to MDL?: N,Y
P.O. Number:
EDD: BASIC_WQC, EQuIS Kennedy Jenks Mint Farm

35 - 1000 mL-Plastic Bottle NM CLEAR HNO3
34 - 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
33 - 40 mL-Glass Vial VOA CLEAR Tef/Silicone Septa Na2S2O3
32 - 40 mL-Glass Vial DW VOA CLEAR Tef/Silicone Septa AAc/HCl
21 - 1000 mL-Plastic Bottle NM CLEAR Unpreserved
14 - 100 ml-Plastic Cup Sterile Na2S2O3
14 - 40 mL-Glass Vial VOA CLEAR Tef/Silicone Septa Unpreserved
14 - 1000 mL-Glass Bottle NM AMBER Na2SO3, HCL
14 - 40 mL-Glass Vial DW VOA AMBER Tef/Silicone Septa Na2S2O3
7 - 500 ml-Plastic Bottle WM CLEAR Unpreserved
7 - 125 mL-Glass Bottle NM AMBER Na2S2O3
7 - 250 mL-Glass Bottle NM AMBER Na2SO3
7 - 1000 mL-Plastic Bottle NM AMBER Na2S2O3
7 - 500 mL-Plastic Bottle NM CLEAR H2SO4
7 - 500 mL-Plastic Bottle NM CLEAR HNO3
7 - 500 mL-Plastic Bottle NM CLEAR NaOH
7 - 250 mL-Plastic Bottle Natural HCl Cleaned WM HCL

Location: SUBBED, K-HERK-B4, E-WIC01-DK, E-Disposed, K-Disposed, K-MISTY, In Lab, K-COLIBIN, P-39-31, P-39-30

				KELSO										
CAS Samp No	**Client Samp No.**	**Matrix**	**Collected**	150.1/ pH	180.1/ Turbidity	300.0/ Chloride	300.0/ F	300.0/ NO2	300.0/ NO3	300.0/ SO4	335.4/ CN T	350.1/ Ammonia T	365.3/ O Phos T	Filter Gen/ Filter Gen
K1211802-001	DW-1	DW	11/26/12 1135	V	V	V	V	V	V	V	V	V	V	V
K1211802-002	DW-7	DW	11/26/12 1400	V	V	V	V	V	V	V	V	V	V	V
K1211802-003	Trip Blank 11/26	DW	11/26/12 1135											
K1211802-004	DW-6	DW	11/27/12 1000	V	V	V	V	V	V	V	V	V	V	V
K1211802-005	DW-5	DW	11/27/12 1200	V	V	V	V	V	V	V	V	V	V	V
K1211802-006	DW-2	DW	11/27/12 1315	V	V	V	V	V	V	V	V	V	V	V
K1211802-007	DUP-1	DW	11/27/12 1500	V	V	V	V	V	V	V	V	V	V	V
K1211802-008	Trip Blank 11/27	DW	11/27/12 1500											
K1211802-009	DW-9	DW	11/28/12 1130	V	V	V	V	V	V	V	V	V	V	V
K1211802-010	Trip Blank 11/28	DW	11/28/12 1130											

Folder Comments:

Use Baseline for Performance Testing Samples

CAS Samp No.	Client Samp No.	Matrix	Collected		KELSO										
					SM 2120 B/ Color	SM 2320 B/ Alkalinity Titr	SM 2510 B/ Conductivity	SM 2540 C/ TDS	SM 4500-SiO2 C/ SiO2 D	SM 5310 C/ TOC D	SM 5310 C/ TOC T	SM 5540 C/ MBAS	SM 5910 B/ UV 254	SM 9221 E/ Fec Coli MT	SM 9223 B/ Qntray Tot NC
K1211802-001	DW-1	DW	11/26/12	1135	V	V	V	V	V	V	V	V	V	V	V
K1211802-002	DW-7	DW	11/26/12	1400	V	V	V	V	V	V	V	V	V	V	V
K1211802-003	Trip Blank 11/26	DW	11/26/12	1135											
K1211802-004	DW-6	DW	11/27/12	1000	V	V	V	V	V	V	V	V	V	V	V
K1211802-005	DW-5	DW	11/27/12	1200	V	V	V	V	V	V	V	V	V	V	V
K1211802-006	DW-2	DW	11/27/12	1315	V	V	V	V	V	V	V	V	V	V	V
K1211802-007	DUP-1	DW	11/27/12	1500	V	V	V	V	V	V	V	V	V	V	V
K1211802-008	Trip Blank 11/27	DW	11/27/12	1500											
K1211802-009	DW-9	DW	11/28/12	1130	V	V	V	V	V	V	V	V	V	V	V
K1211802-010	Trip Blank 11/28	DW	11/28/12	1130											

					KELSO							KELSO	KELSO		
					1632/ As Inorg T	1632/ As3	1632/ As5	200.7 LL/ Metals T	200.8/ Metals T	245.1/ Hg T	SM 2340 B/ Hardness Calc	549.2/ DIQ_PARAQ	504.1/ EDB DBCP 123TCP	508.1/ PEST_CL	515.4/ CL_ACID_HER B
K1211802-001	DW-1	DW	11/26/12	1135	V	V	V	V	V	V	V	V	V	V	V
K1211802-002	DW-7	DW	11/26/12	1400	V	V	V	V	V	V	V	V	V	V	V
K1211802-003	Trip Blank 11/26	DW	11/26/12	1135									V		
K1211802-004	DW-6	DW	11/27/12	1000	V	V	V	V	V	V	V	V	V	V	V
K1211802-005	DW-5	DW	11/27/12	1200	V	V	V	V	V	V	V	V	V	V	V
K1211802-006	DW-2	DW	11/27/12	1315	V	V	V	V	V	V	V	V	V	V	V
K1211802-007	DUP-1	DW	11/27/12	1500	V	V	V	V	V	V	V	V	V	V	V
K1211802-008	Trip Blank 11/27	DW	11/27/12	1500									V		
K1211802-009	DW-9	DW	11/28/12	1130	V	V	V	V	V	V	V	V	V	V	V
K1211802-010	Trip Blank 11/28	DW	11/28/12	1130									V		

					KELSO		KELSO	SVM	SIMIVALLEY	ACZ			Eurofins (MWH Labs)		LabCOR
					525.2/ SVO	548.1/ ENDO	524.2/ VOC	1613B/ Dioxins Furans	Sulfur Liq/ Sulfur	900.0/ Radioact	903.1/ Radium 226	904.0/ Radium 228	547/ GLYPH	None/ Misc Out 5	100.1/ Asbestos
K1211802-001	DW-1	DW	11/26/12	1135	V	V	V	V	V	V	V	V	V	V	V
K1211802-002	DW-7	DW	11/26/12	1400	V	V	V	V	V	V	V	V	V	V	V
K1211802-003	Trip Blank 11/26	DW	11/26/12	1135			V								
K1211802-004	DW-6	DW	11/27/12	1000	V	V	V	V	V	V	V	V	V	V	V
K1211802-005	DW-5	DW	11/27/12	1200	V	V	V	V	V	V	V	V	V	V	V
K1211802-006	DW-2	DW	11/27/12	1315	V	V	V	V	V	V	V	V	V	V	V
K1211802-007	DUP-1	DW	11/27/12	1500	V	V	V	V	V	V	V	V	V	V	V
K1211802-008	Trip Blank 11/27	DW	11/27/12	1500			V								
K1211802-009	DW-9	DW	11/28/12	1130	V	V	V	V	V	V	V	V	V	V	V
K1211802-010	Trip Blank 11/28	DW	11/28/12	1130			V								

Service Request Summary

Folder #:	**K1211802**
Client Name:	Kennedy/Jenks Consultants, Incorporated
Project Name:	Mint Farm
Project Number:	
Report To:	Steven Misner Kennedy/Jenks Consultants, Incorporated 200 SW Market St., Suite 500 Portland, OR 97201-5715
Phone Number:	503-423-4004
Cell Number:	
Fax Number:	503-295-4901
E-mail:	stevenmisner@kennedyjenks.com

Project Chemist:	Arthi Kodur
Originating Lab:	KELSO
Logged By:	LKENNEDY
Date Received:	11/26 - 11/28/12
Internal Due Date:	12/14/12
QAP:	LAB QAP
Qualifier Set:	CAS Standard
Formset:	CAS Standard
Merged?:	N,Y
Report to MDL?:	N,Y
P.O. Number:	
EDD:	BASIC_WQC, EQuIS Kennedy Jenks Mint Farm

35	- 1000 mL-Plastic Bottle NM CLEAR HNO3
34	- 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
33	- 40 mL-Glass Vial VOA CLEAR Tef/Silicone Septa Na2S2O3
32	- 40 mL-Glass Vial DW VOA CLEAR Tef/Silicone Septa AAc/HCl
21	- 1000 mL-Plastic Bottle NM CLEAR Unpreserved
14	- 100 ml-Plastic Cup Sterile Na2S2O3
14	- 40 mL-Glass Vial VOA CLEAR Tef/Silicone Septa Unpreserved
14	- 1000 mL-Glass Bottle NM AMBER Na2SO3, HCL
14	- 40 mL-Glass Vial DW VOA AMBER Tef/Silicone Septa Na2S2O3
7	- 500 ml-Plastic Bottle WM CLEAR Unpreserved
7	- 125 mL-Glass Bottle NM AMBER Na2S2O3
7	- 250 mL-Glass Bottle NM AMBER Na2SO3
7	- 1000 mL-Plastic Bottle NM AMBER Na2S2O3
7	- 500 mL-Plastic Bottle NM CLEAR H2SO4
7	- 500 mL-Plastic Bottle NM CLEAR HNO3
7	- 500 mL-Plastic Bottle NM CLEAR NaOH
7	- 250 mL-Plastic Bottle Natural HCl Cleaned WM HCL

Location: SUBBED, K-HERK-B4, E-WIC01-DK, E-Disposed, K-Disposed, K-MISTY, In Lab, K-COLIBIN, P-39-31, P-39-30

Test Comments:

Group	Test/Method	Samples	Comments
GenChem	TOC D/SM 5310 C	1-2, 4-7, 9	Filter in the lab
Metals	Metals T/200.7 LL	1-2, 4-7, 9	Al,Ca,Fe,Mg,K,Mn,Si,Na,Zn
Metals	Metals T/200.8	1-2, 4-7, 9	Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ag,Tl,U.
Semivoa GCMS	Dioxins Furans/1613B	1-2, 4-7, 9	2,3,7,8-TCDD samples 004-007 will be shipped outlater this week (ak 11/28/12) all samples have arrived (ak 11/30/12)
SubLab	Asbestos/100.1	1-2, 4-7, 9	Asbestos in drinking water (not chlorinated)
			EPA 100.2
SubLab	Misc Out 5/None	1-2, 4-7, 9	531.1 Carbamates
SubLab	Radioact/900.0	1-2, 4-7, 9	Gross Alpha,Beta,Radium 226 and 228
VOA GC AIR	Sulfur/Sulfur Liq	1-2, 4-7, 9	Hydrogen Sulfide
VOA GCMS	VOC/524.2	1-10	Full list 524.2

Preparation Information Benchsheet

Prep Run#: 172588 **Prep WorkFlow:** OrgExtAq(365) **Status:** Prepped
Team: Semivoa GCMS/HLEUNG **Prep Method:** Method Sep Funnel/Jar **Prep Date/Time:** 11/30/12 01:00 PM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Sample Description
1	E1201555-001	9999283001	.01	1613B/Dioxins Furans	9	Drinking Water	1060mL	Clear Liquid
2	E1201556-001	9999344001	.01	1613B/Dioxins Furans	6	Drinking Water	1020mL	Clear Liquid
3	E1201557-001	9999343001	.01	1613B/Dioxins Furans	6	Drinking Water	1020mL	Clear Liquid
4	E1201558-001	9999345001	.01	1613B/Dioxins Furans	6	Drinking Water	1040mL	Clear Liquid
5	E1201561-001	9998937001	.01	1613B/Dioxins Furans	6	Drinking Water	1040mL	Clear Liquid
6	EQ1200697-01	MB		1613B/Dioxins Furans	6	Liquid	1000mL	
7	EQ1200697-02	LCS		1613B/Dioxins Furans	6	Liquid	1000mL	
8	EQ1200697-03	DLCS		1613B/Dioxins Furans	6	Liquid	1000mL	
9	K1211802-001	DW-1	.06	1613B/Dioxins Furans	6	Drinking Water	1040mL	Light Yellow Liquid
10	K1211802-002	DW-7	.06	1613B/Dioxins Furans	6	Drinking Water	1020mL	Light Yellow Liquid
11	K1211802-004	DW-6	.06	1613B/Dioxins Furans	6	Drinking Water	1020mL	Clear Liquid
12	K1211802-005	DW-5	.06	1613B/Dioxins Furans	6	Drinking Water	1040mL	Clear Liquid
13	K1211802-006	DW-2	.06	1613B/Dioxins Furans	6	Drinking Water	1040mL	Clear Liquid
14	K1211802-007	DUP-1	.06	1613B/Dioxins Furans	6	Drinking Water	1040mL	Clear Liquid

Spiking Solutions

Name: 1613B Matrix Working Standard Inventory ID 51536 Logbook Ref: D13-89-4 (51536) Expires On: 11/14/2013

EQ1200697-02	100.00µL	EQ1200697-03	100.00µL

Name: 1613B Labeled Working Standard Inventory ID 52219 Logbook Ref: D13-97-1(52219) Expires On: 11/30/2013

E1201555-001	1,000.00µL	E1201556-001	1,000.00µL	E1201557-001	1,000.00µL	E1201558-001	1,000.00µL	E1201561-001	1,000.00µL	EQ1200697-01	1,000.00µL
EQ1200697-02	1,000.00µL	EQ1200697-03	1,000.00µL	K1211802-001	1,000.00µL	K1211802-002	1,000.00µL	K1211802-004	1,000.00µL	K1211802-005	1,000.00µL
K1211802-006	1,000.00µL	K1211802-007	1,000.00µL								

Preparation Materials

Sensafe Free Chlorine WTR CHK	C2-80-3 (48874)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	C2-86-5 (51707)	Hexane (n-Hexane) 98.5% Minimum	C2-87-5 (51941)
ColorpHast pH-Indicator Strips	C2-81-6 (50232)				

Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	11/30/12 13:00	Started:	12/6/12 09:01	Started:	12/6/12 09:02	Started:	12/6/12 09:55
Finished:	11/30/12 15:00	Finished:	12/6/12 09:01	Finished:	12/6/12 09:02	Finished:	12/6/12 11:20
By:	WMCDONOUGH	By:	SMORE	By:	SMORE	By:	SMORE
Comments		Comments		Comments		Comments	

Preparation Information Benchsheet

Prep Run#: 172588
Team: Semivoa GCMS/HLEUNG

Prep WorkFlow: OrgExtAq(365)
Prep Method: Method Sep Funnel/Jar

Status: Prepped
Prep Date/Time: 11/30/12 01:00 PM

Comments:

Reviewed By: SM Date: 12/7/12

Chain of Custody

Relinquished By: Date:

Received By: Date:

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 172742 **Prep WorkFlow:** OrgExtAq(365) **Status:** Prepped
Team: Semivoa GCMS/SMORE **Prep Method:** Method Sep Funnel/Jar **Prep Date/Time:** 12/3/12 05:00 PM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Sample Description
1	E1201565-001	9999077 001	.01	1613B/Dioxins Furans	7	Drinking Water	1040mL	CLEAR LIQUID
2	E1201566-001	1000094 001	.01	1613B/Dioxins Furans	7	Drinking Water	1040mL	CLEAR LIQUID
3	E1201567-001	9999089 001	.01	1613B/Dioxins Furans	7	Drinking Water	1040mL	CLEAR LIQUID
4	E1201567-002	9999089 002	.01	1613B/Dioxins Furans	7	Drinking Water	1040mL	CLEAR LIQUID
5	EQ1200702-01	MB		1613B/Dioxins Furans	5	Liquid	1000mL	
6	EQ1200702-02	LCS		1613B/Dioxins Furans	5	Liquid	1000mL	
7	EQ1200702-03	DLCS		1613B/Dioxins Furans	5	Liquid	1000mL	
8	K1211802-009	DW-9	.06	1613B/Dioxins Furans	7	Drinking Water	1040mL	CLEAR LIQUID

Spiking Solutions

Name: 8290/1613B Cleanup Working Standard Inventory ID 51166 Logbook Ref: D13-83-4(51166) Expires On: 11/01/2013

E1201565-001	100.00µL	E1201566-001	100.00µL	E1201567-001	100.00µL	E1201567-002	100.00µL	EQ1200702-01	100.00µL	EQ1200702-02	100.00µL
EQ1200702-03	100.00µL	K1211802-009	100.00µL								

Name: 1613B Matrix Working Standard Inventory ID 51536 Logbook Ref: D13-89-4 (51536) Expires On: 11/14/2013

EQ1200702-02	100.00µL	EQ1200702-03	100.00µL

Name: 1613B Labeled Working Standard Inventory ID 51965 Logbook Ref: D13-95-3 (51965) Expires On: 11/26/2013

E1201565-001	1,000.00µL	E1201566-001	1,000.00µL	E1201567-001	1,000.00µL	E1201567-002	1,000.00µL	EQ1200702-01	1,000.00µL	EQ1200702-02	1,000.00µL
EQ1200702-03	1,000.00µL	K1211802-009	1,000.00µL								

Preparation Materials

Sensafe Free Chlorine WTR CHK	C2-80-3 (48874)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	C2-86-5 (51707)	Hexane (n-Hexane) 98.5% Minimum	C2-87-5 (51941)
ColorpHast pH-Indicator Strips	C2-81-6 (50232)				

Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	12/3/12 17:00	Started:	12/10/12 11:00	Started:	12/10/12 11:00	Started:	12/10/12 11:00
Finished:	12/4/12 10:00	Finished:	12/10/12 11:00	Finished:	12/10/12 11:00	Finished:	12/10/12 11:33
By:	HLEUNG	By:	SMORE	By:	SMORE	By:	SMORE
Comments		Comments		Comments		Comments	

Preparation Information Benchsheet

Prep Run#: 172742
Team: Semivoa GCMS/SMORE

Prep WorkFlow: OrgExtAq(365)
Prep Method: Method Sep Funnel/Jar

Status: Prepped
Prep Date/Time: 12/3/12 05:00 PM

Comments:

Reviewed By: ak Date: 12/14/12

Chain of Custody

Relinquished By: Date:

Received By: Date:

Extracts Examined

Yes No

LABORATORY REPORT

December 20, 2012

Steven Misner
Kennedy/Jenks Consultants, Incorporated
200 SW Market St., Suite 500
Portland, OR 97201-5715

RE: Mint Farm

Dear Steven:

Enclosed are the results of the samples submitted to our laboratory on November 26-27, 2012. For your reference, these analyses have been assigned our service request number K1211802.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA200007; The American Industrial Hygiene Association, Laboratory #101661; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L11-203; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-12-3; Minnesota Department of Health, NELAP Certificate No. 362188; Washington State Department of Ecology, ELAP Lab ID: C946, State of Utah Department of Health, NELAP Certificate No. CA01527Z012-Z; Los Angeles Department of Building and Safety, Approval No: TA00001. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Kate Aguilera

By Kate Aguilera at 12:42 pm, Dec 20, 2012

Kate Aguilera
Project Manager

Client: Kennedy/Jenks Consultants, Incorporated Service Request No: K1211802
Project: Mint Farm

CASE NARRATIVE

The samples were received intact under chain of custody on November 26-27, 2012 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of Columbia Analytical Services, Inc. dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Intra-Network Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

Project Name: Mint Farm
Project Number:
Project Manager: Steven Misner
Company: Kennedy/Jenks Consultants, Incorporated

Lab Code	Client Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Date Received	Send To	Sulfur Sulfur Liq
K1211802-001	DW-1	~~0~~	Drinking Water	11/26/12	1135	11/26/12	SIMIVALLEY	V
K1211802-002	DW-7	~~0~~	Drinking Water	11/26/12	1400	11/26/12	SIMIVALLEY	V
K1211802-004	DW-6	2	Drinking Water	11/27/12	1000	11/27/12	SIMIVALLEY	V
K1211802-005	DW-5	2	Drinking Water	11/27/12	1200	11/27/12	SIMIVALLEY	V
K1211802-006	DW-2	2	Drinking Water	11/27/12	1315	11/27/12	SIMIVALLEY	V
K1211802-007	DUP-1	2	Drinking Water	11/27/12	1500	11/27/12	SIMIVALLEY	V

WA state DW
Lisa D
11/28/12

Test Comments
Sulfur - Sulfur Liq K1211802-001,2,4,5,6,7 Hydrogen Sulfide

Folder Comments:
Use Baseline for Performance Testing Samples

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address:
kelso_data@caslab.com

Turnaround Requirements
____ **RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
X **STANDARD**
Requested FAX Date: ____
Requested Report Date: 12/13/12

Report Requirements
____ I. Results Only
X II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
PQL/MDL/J N
EDD Y

Invoice Information
CSOK
3% [illegible] TO
PO# K1211802
Bill to

Relinquished By: BST 11/28/12 Received By: [illegible] 11/29/12 0945 Airbill Number:

Pag

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Sample Acceptance Check Form

Client: Kennedy/Jenks Consultants, Incorporated Work order: K1211802
Project: Mint Farm
Sample(s) received on: 11/30/12 Date opened: 11/30/12 by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Container(s) **supplied by CAS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☒	☐	☐
	Cooler Temperature: ° C Blank Temperature: 4° C **Gel Packs**			
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☒	☐	☐
	Location of seal(s)? Top of cooler, down the front. Sealing Lid?	☒	☐	☐
	Were signature and date included?	☒	☐	☐
	Were seals intact?	☒	☐	☐
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☒	☐	☐
	Is there a client indication that the submitted samples are **pH** preserved?	☒	☐	☐
	Were **VOA vials** checked for presence/absence of air bubbles?	☒	☐	☐
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☒	☐	☐
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
K1211802-001.09	40mL VOA NP		7	1	A	
K1211802-001.10	40mL VOA NP				A	
K1211802-002.09	40mL VOA NP		7	1	A	
K1211802-002.10	40mL VOA NP				A	
K1211802-004.09	40mL VOA NP		7	1	A	
K1211802-004.10	40mL VOA NP				A	
K1211802-005.09	40mL VOA NP		7	1	A	
K1211802-005.10	40mL VOA NP				A	

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

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Sample Acceptance Check Form

Client: Kennedy/Jenks Consultants, Incorporated Work order: K1211802

Project: Mint Farm

Sample(s) received on: 11/30/12 Date opened: 11/30/12 by: MZAMORA

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
K1211802-006.09	40mL VOA NP		7	1	A	
K1211802-006.10	40mL VOA NP				A	
K1211802-007.09	40mL VOA NP		7	1	A	
K1211802-007.10	40mL VOA NP				A	
K1211802-009.09	40mL VOA NP		7	1	A	
K1211802-009.10	40mL VOA NP				A	

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

RESULTS OF ANALYSIS

Client: **Kennedy/Jenks Consultants, Incorporated**
Client Project ID: **Mint Farm** CAS Project ID: K1211802

Hydrogen Sulfide

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: HP5890 II/GC5/SCD Date(s) Collected: 11/26 - 11/28/12
Analyst: Wade Henton Date Received: 11/26 - 11/28/12
Sample Type: Drinking Water Date Analyzed: 12/11/12
Test Notes:

Client Sample ID	CAS Sample ID	Liquid Amount: Amount ml(s)	Purge Volume Liter(s)	Injection Volume ml(s)	**Result µg/L**	MRL µg/L	Data Qualifier
DW-1	K1211802-001	10.0	0.30	1.0	ND	0.21	
DW-7	K1211802-002	10.0	0.30	1.0	ND	0.21	
DW-6	K1211802-004	10.0	0.30	1.0	ND	0.21	
DW-5	K1211802-005	10.0	0.30	1.0	ND	0.21	
DW-2	K1211802-006	10.0	0.30	1.0	ND	0.21	
DUP-1	K1211802-007	10.0	0.30	1.0	ND	0.21	
DW-9	K1211802-009	10.0	0.30	1.0	ND	0.21	
Method Blank	P121211-MB	10.0	0.30	1.0	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **Kennedy/Jenks Consultants, Incorporated**
Client Sample ID: **Duplicate Lab Control Sample** CAS Project ID: K1211802
Client Project ID: **Mint Farm** CAS Sample ID: P121211-DLCS

Test Code: GC/SCD Reduced Sulfur Analysis
Instrument ID: HP5890 II/GC5/SCD
Analyst: Wade Henton
Sample Type: Drinking Water
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/11/12
Liquid Amount: 10.0 ml(s)
Purge Volume: 0.30 Liter(s)
Injection Volume: 0.20 ml(s)

CAS #	Compound	Spike Amount LCS / DLCS ug/L	Result LCS ug/L	Result DLCS ug/L	% Recovery LCS	% Recovery DLCS	CAS Acceptance Limits	RPD	RPD Limit	Data Qualifier
7783-06-4	Hydrogen Sulfide	428	441	448	**103**	**105**	58-121	2	26	

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

January 15, 2013

Report to:
Lisa Domenighini
Columbia Analytical Services
1317 S. 13th Ave.
Kelso, WA 98626

Bill to:
Lisa Domenighini
Columbia Analytical Services
1317 S. 13th Ave.
Kelso, WA 98626

cc: Columbia Analytical Services, Inc.

Project ID: K1211802
ACZ Project ID: L98065

Lisa Domenighini:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 28, 2012. This project has been assigned to ACZ's project number, L98065. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L98065. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after February 15, 2013. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

Columbia Analytical Services

January 15, 2013

Project ID: K1211802
ACZ Project ID: L98065

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 2 drinking water samples from Columbia Analytical Services on November 28, 2012. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L98065. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for radiochemistry parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The following anomaly required further explanation not provided by the Extended Qualifier Report:

1. For the Radium 228 values flagged with an "N1", there was insufficient sample volume to run a sample duplicate. An LCSW/LCSWD duplicate was run instead with passing QC.

ACZ Laboratories, Inc.
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RadioChemistry Analytical Results

Columbia Analytical Services
Project ID: K1211802
Sample ID: DW-1
Locator:

ACZ Sample ID: ***L98065-01***
Date Sampled: *11/26/12 11:35*
Date Received: *11/28/12*
Sample Matrix: *Drinking Water*

Gross Alpha & Beta — Prep Method:
M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Alpha	01/14/13 9:45		1.5	1.5	1.2	pCi/L		mla
Beta	01/14/13 9:45		3.6	1.9	2.6	pCi/L		mla

Radium 226 — Prep Method:
M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226	12/19/12 14:52		0.14	0.11	0.2	pCi/L		thf

Radium 228 — Prep Method:
M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228	12/11/12 14:20		0.34	0.22	1	pCi/L	*	mla

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RadioChemistry Analytical Results

Columbia Analytical Services
Project ID: K1211802
Sample ID: DW-7
Locator:

ACZ Sample ID: ***L98065-02***
Date Sampled: *11/26/12 14:00*
Date Received: *11/28/12*
Sample Matrix: *Drinking Water*

Gross Alpha & Beta — Prep Method:
M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Alpha	01/14/13 9:46		1.2	1.2	1.2	pCi/L		mla
Beta	01/14/13 9:46		4	2.1	2.6	pCi/L		mla

Radium 226 — Prep Method:
M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226	12/19/12 14:54		0.07	0.08	0.16	pCi/L		thf

Radium 228 — Prep Method:
M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228	12/18/12 16:54		0.44	0.33	1.1	pCi/L	*	mla

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	*PBS*	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

(1) Solid matrices are reported on a dry weight basis.

(2) Preparation method: "Method" indicates preparation defined in analytical method.

(3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.

(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

ACZ Laboratories, Inc.
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Radiochemistry QC Summary

Columbia Analytical Services

ACZ Project ID: ***L98065***

Alpha

M900.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG337275																
WG336599PBW	PBW	01/14/13						1.6	1.2	0.95			1.9			
WG336599LCSW	LCSW	01/14/13	RC121002-2	81.06				80	7.6	1.4	98.7	83	133			
L98065-01DUP	DUP-RPD	01/14/13			1.5	1.5	1.2	1.5	1.3	1.2				0	20	
L98492-02DUP	DUP-RPD	01/14/13			3.6	2.7	1.8	3.5	2.3	1.8				2.8	20	
L98065-02MS	MS	01/14/13	RC121002-2	54.04	1.2	1.2	1.2	56	6	1.2	101.4	83	133			

Beta

M900.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG337275																
WG336599PBW	PBW	01/14/13						1.2	1.8	2.6			5.2			
WG336599LCSW	LCSW	01/14/13	PCN40591	100				85	5.9	3.8	85	70	129			
L98065-01DUP	DUP-RPD	01/14/13			3.6	1.9	2.6	3.1	1.9	2.6				14.9	20	
L98492-02DUP	DUP-RPD	01/14/13			5.3	3	3.8	7.1	2.9	3.9				29	20	RG
L98492-02DUP	DUP-RER	01/14/13			5.3	3	3.8	7.1	2.9	3.9				0.43	2	
L98492-03MS	MS	01/14/13	PCN40591	100	14	3.5	4	110	6.8	3.9	96	70	129			

Radium 226

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG336184																
WG335553PBW	PBW	12/19/12						0	0.04	0.07			0.14			
WG335553LCSW	LCSW	12/19/12	RC121106-2	23.92				23	0.55	0.09	96.2	43	148			
L98040-01DUP	DUP-RPD	12/19/12			0.12	0.07	0.13	.1	0.06	0.13				18.2	20	
L98012-01MS	MS	12/19/12	RC121106-2	23.92	2	0.18	0.07	29	0.69	0.21	112.9	43	148			

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Radiochemistry QC Summary

Columbia Analytical Services

ACZ Project ID: ***L98065***

Radium 228 M904.0 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG335697																
WG335454LCSW	LCSW	12/11/12	PCN41249	19.64				9.2	0.75	1.3	47	47	123			
WG335454PBW	PBW	12/11/12						.03	0.2	0.58			1.16			
L98012-03DUP	DUP-RPD	12/11/12			0.36	0.44	1.1	1.5	0.52	1.3				122.6	20	RG
L98012-02MS	MS	12/11/12	PCN41249	19.64	0.43	0.43	1.6	10	0.79	2.1	48.7	47	123			
L98012-03DUP	DUP-RER	12/11/12			0.36	0.44	1.1	1.5	0.52	1.3				1.67	2	
L98012-01DUP	DUP-RPD	12/11/12			0.48	0.4	1.5	1.6	0.53	1.6				107.7	20	RG
L98012-01DUP	DUP-RER	12/11/12			0.48	0.4	1.5	1.6	0.53	1.6				1.69	2	
WG336208																
L98108-03MS	MS	12/18/12	PCN41299	19.6	0.74	0.39	0.77	11	0.81	0.99	52.4	47	123			
WG335721LCSW	LCSW	12/18/12	PCN41300	19.6				11	0.8	1	56.1	47	123			
WG335721LCSWD	LCSWD	12/18/12	PCN41300	19.6				11	0.83	1.1		47	123		20	N1
WG335721LCSWD	LCSWD	12/18/12	PCN41300	19.6				11	0.83	1.1		47	123	0	20	N1
WG335721PBW	PBW	12/18/12						.06	0.19	0.44			0.88			

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RadChem Extended Qualifier Report

Columbia Analytical Services ACZ Project ID: ***L98065***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L98065-01	WG335697	Radium 228	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L98065-02	WG336208	Radium 228	M904.0	DJ	Sample dilution required due to insufficient sample.
			M904.0	N1	See Case Narrative.

Certification Qualifiers

Columbia Analytical Services ACZ Project ID: ***L98065***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Columbia Analytical Services
K1211802

ACZ Project ID:	L98065
Date Received:	11/28/2012 11:07
Received By:	gac
Date Printed:	11/29/2012

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits?	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA16649	3.3	16	Yes

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

L98065 Chain of Custody

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

L98065

Project Number: K1211802
Project Manager: Lisa Domenighini

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Radioact 900.0	Radium 226 903.1	Radium 228 904.0
K1211802-001	DW-1	5	Drinking Water	11/26/12	1135	ACZ	X	X	X
K1211802-002	DW-7	5	Drinking Water	11/26/12	1400	ACZ	X	X	X

Test Comments
Radioact - 900.0 K1211802-001,2 Gross Alpha,Beta,Radium 226 and 228

Wa State DW
No State Forms are needed
ZP 11/27/12

Folder Comments:
Use Baseline for Performance Testing Samples

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address:
kelso_data@caslab.com

Turnaround Requirements
____RUSH (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
X STANDARD
Requested FAX Date: _____
Requested Report Date: 12/13/12

Report Requirements
___ I. Results Only
X II. Results + QC Summaries
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
PQL/MDL/J N
EDD Y

Invoice Information
PO# K1211802
Bill to

Relinquished By: 11/27/12 1300 Received By: 11/28/12 1100 Airbill Number:

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

December 31, 2012

Report to:
Lisa Domenighini
Columbia Analytical Services
1317 S. 13th Ave.
Kelso, WA 98626

Bill to:
Lynda Huckestein
Columbia Analytical Services
1317 S. 13th Ave.
Kelso, WA 98626

cc: Columbia Analytical Services, Inc.

Project ID: K1211802
ACZ Project ID: L98108

Lisa Domenighini:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 29, 2012. This project has been assigned to ACZ's project number, L98108. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L98108. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after January 31, 2013. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

Columbia Analytical Services

December 31, 2012

Project ID: K1211802
ACZ Project ID: L98108

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 4 drinking water samples from Columbia Analytical Services on November 29, 2012. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L98108. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for radiochemistry parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The following anomaly required further explanation not provided by the Extended Qualifier Report:

1. For the Radium 228 values flagged with an "N1", there was insufficient sample volume to run a sample duplicate so an LCSW/LCSWD was run instead. The QC was passing.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Columbia Analytical Services
Project ID: K1211802
Sample ID: DW-6
Locator:

ACZ Sample ID: ***L98108-01***
Date Sampled: *11/27/12 10:00*
Date Received: *11/29/12*
Sample Matrix: *Drinking Water*

Gross Alpha & Beta
M900.0
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Alpha	12/10/12 10:57		0.86	1.2	1.4	pCi/L	*	zsh
Beta	12/10/12 10:57		5.1	2	2.6	pCi/L	*	zsh

Radium 226
M903.1
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226	12/27/12 13:15		0.09	0.06	0.11	pCi/L		thf

Radium 228
M904.0
Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228	12/18/12 16:54		0.28	0.19	0.64	pCi/L	*	mla

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Columbia Analytical Services
Project ID: K1211802
Sample ID: DW-5
Locator:

ACZ Sample ID: ***L98108-02***
Date Sampled: *11/27/12 12:00*
Date Received: *11/29/12*
Sample Matrix: *Drinking Water*

Gross Alpha & Beta — Prep Method:
M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Alpha	12/10/12 10:58		0.55	1.2	1.5	pCi/L	*	zsh
Beta	12/10/12 10:58		5.8	2.2	2.7	pCi/L	*	zsh

Radium 226 — Prep Method:
M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226	12/27/12 13:17		0.29	0.09	0.14	pCi/L		thf

Radium 228 — Prep Method:
M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228	12/18/12 16:54		0.36	0.22	0.65	pCi/L	*	mla

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Columbia Analytical Services
Project ID: K1211802
Sample ID: DW-2
Locator:

ACZ Sample ID: ***L98108-03***
Date Sampled: *11/27/12 13:15*
Date Received: *11/29/12*
Sample Matrix: *Drinking Water*

Gross Alpha & Beta — Prep Method:
M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Alpha	12/10/12 11:00		0.56	1.1	1.4	pCi/L	*	zsh
Beta	12/10/12 11:00		4.2	2.1	2.6	pCi/L	*	zsh

Radium 226 — Prep Method:
M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226	12/27/12 13:18		0.19	0.07	0.09	pCi/L		thf

Radium 228 — Prep Method:
M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228	12/18/12 16:54		0.74	0.39	0.77	pCi/L	*	mla

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Columbia Analytical Services
Project ID: K1211802
Sample ID: DUP-1
Locator:

ACZ Sample ID: ***L98108-04***
Date Sampled: *11/27/12 15:00*
Date Received: *11/29/12*
Sample Matrix: *Drinking Water*

Gross Alpha & Beta — Prep Method:
M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Alpha	12/10/12 11:01		-0.25	0.69	1.4	pCi/L	*	zsh
Beta	12/10/12 11:01		3	1.9	2.6	pCi/L	*	zsh

Radium 226 — Prep Method:
M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226	12/27/12 13:19		0.15	0.08	0.09	pCi/L		thf

Radium 228 — Prep Method:
M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228	12/18/12 16:54		0.39	0.18	0.76	pCi/L	*	mla

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	*PBS*	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

(1) Solid matrices are reported on a dry weight basis.

(2) Preparation method: "Method" indicates preparation defined in analytical method.

(3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.

(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Radiochemistry QC Summary

Columbia Analytical Services

ACZ Project ID: ***L98108***

Alpha

M900.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG335611																
WG335177PBW	PBW	12/10/12						-.59	0.83	0.95			1.9			
WG335177LCSW	LCSW	12/10/12	RC121002-2	81.06				85	7.9	1.4	104.9	83	133			
L98108-01DUP	DUP-RPD	12/10/12			0.86	1.2	1.4	2.1	1.5	1.4				83.8	20	RG
L98108-01DUP	DUP-RER	12/10/12			0.86	1.2	1.4	2.1	1.5	1.4				0.65	2	
L98129-01DUP	DUP-RPD	12/10/12			57	9.5	2.8	51	9.3	3.2				11.1	20	
L98108-02MS	MS	12/10/12	RC121002-2	54.04	0.55	1.2	1.5	47	6	1.5	86	83	133			

Beta

M900.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG335611																
WG335177PBW	PBW	12/10/12						1.8	1.9	2.6			5.2			
WG335177LCSW	LCSW	12/10/12	PCN40511	100				85	5.9	3.8	85	70	129			
L98108-01DUP	DUP-RER	12/10/12			5.1	2	2.6	3.3	1.9	2.6				0.65	2	
L98108-01DUP	DUP-RPD	12/10/12			5.1	2	2.6	3.3	1.9	2.6				42.9	20	RG
L98129-01DUP	DUP-RPD	12/10/12			39	5	4.4	34	4.9	4.5				13.7	20	
L98129-02MS	MS	12/10/12	PCN40511	166.67	200	12	6.7	360	15	6.6	96	70	129			

Radium 226

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG336505																
WG335661PBW	PBW	12/27/12						.24	0.09	0.23			0.46			
WG335661LCSW	LCSW	12/27/12	RC121106-2	23.92				15	0.49	0.25	62.7	43	148			
L98064-01DUP	DUP-RPD	12/27/12			32	0.67	0.12	32	0.67	0.13				0	20	
L98126-01DUP	DUP-RPD	12/27/12			1.2	0.16	0.18	1.4	0.14	0.13				15.4	20	
L98087-01MS	MS	12/27/12	RC121106-2	23.92	28	0.68	0.21	49	0.82	0.18	87.8	43	148			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Radiochemistry QC Summary

Columbia Analytical Services

ACZ Project ID: ***L98108***

Radium 228 M904.0 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG336208																
L98108-03MS	MS	12/18/12	PCN41299	19.6	0.74	0.39	0.77	11	0.81	0.99	52.4	47	123			
WG335721LCSW	LCSW	12/18/12	PCN41300	19.6				11	0.8	1	56.1	47	123			
WG335721LCSWD	LCSWD	12/18/12	PCN41300	19.6				11	0.83	1.1		47	123		20	N1
WG335721LCSWD	LCSWD	12/18/12	PCN41300	19.6				11	0.83	1.1		47	123	0	2	N1
WG335721PBW	PBW	12/18/12						.06	0.19	0.44			0.88			

Columbia Analytical Services ACZ Project ID: ***L98108***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L98108-01	WG335611	Alpha	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Beta	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG336208	Radium 228	M904.0	DJ	Sample dilution required due to insufficient sample.
			M904.0	N1	See Case Narrative.
L98108-02	WG335611	Alpha	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Beta	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG336208	Radium 228	M904.0	DJ	Sample dilution required due to insufficient sample.
			M904.0	N1	See Case Narrative.
L98108-03	WG335611	Alpha	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Beta	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG336208	Radium 228	M904.0	DJ	Sample dilution required due to insufficient sample.
			M904.0	N1	See Case Narrative.
L98108-04	WG335611	Alpha	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Beta	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG336208	Radium 228	M904.0	N1	See Case Narrative.

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Columbia Analytical Services
K1211802

ACZ Project ID:	L98108
Date Received:	11/29/2012 09:58
Received By:	ksj
Date Printed:	11/29/2012

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits?	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA16658	0.2	14	N/A
NA16659	3.2	16	Yes

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

L98108 Chain of Custody

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

L98108

Project Number: K1211802
Project Manager: Lisa Domenighini

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Radioact 900.0	Radium 226 903.1	Radium 228 904.0
K1211802-001	DW-1	~~0~~	Drinking Water	11/26/12	1135	ACZ			
K1211802-002	DW-7	~~0~~	Drinking Water	11/26/12	1400	ACZ			
K1211802-004	DW-6	5	Drinking Water	11/27/12	1000	ACZ	X	X	X
K1211802-005	DW-5	5	Drinking Water	11/27/12	1200	ACZ	X	X	X
K1211802-006	DW-2	5	Drinking Water	11/27/12	1315	ACZ	X	X	X
K1211802-007	DUP-1	5	Drinking Water	11/27/12	1500	ACZ	X	X	X

Test Comments
Radioact - 900.0 K1211802-001,2,4,5,6,7 Gross Alpha,Beta,Radium 226 and 228

WA State DW
no forms needed

Folder Comments:
Use Baseline for Performance Testing Samples

Lisa D
11/28/12

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address:
kelso_data@caslab.com

Turnaround Requirements
____ RUSH (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
X STANDARD
Requested FAX Date: _____
Requested Report Date: 12/13/12

Report Requirements
____ I. Results Only
X II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
PQL/MDL/J N
EDD Y

Invoice Information
PO# K1211802
Bill to

Relinquished By: BJT 11/28/12 Received By: 320 11/29/12 0950 Airbill Number:

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

Project Number: K1211802
Project Manager: Lisa Domenighini

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID

Ship To: ACZ

ACZ Laboratories, Incorporated
2773 Downhill Dr.
Steamboat Springs CO. 80487

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address:
kelso_data@caslab.com

Turnaround Requirements

____RUSH (Surcharges Apply)

PLEASE CIRCLE WORK DAYS
1 2 3 4 5

____ **STANDARD**

Requested FAX Date: _____

Requested Report Date: 12/13/12

Report Requirements

____ I. Results Only

____ II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

PQL MDL J N
EDD Y

Invoice Information

PO#
K1211802

Bill to

Relinquished By: _____ Received By: 321 _____ Airbill Number: _____

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

January 09, 2013

Report to:
Lisa Domenighini
Columbia Analytical Services
1317 S. 13th Ave.
Kelso, WA 98626

Bill to:
Lisa Domenighini
Columbia Analytical Services
1317 S. 13th Ave.
Kelso, WA 98626

cc: Columbia Analytical Services, Inc.

Project ID: K1211802
ACZ Project ID: L98144

Lisa Domenighini:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 30, 2012. This project has been assigned to ACZ's project number, L98144. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L98144. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after February 09, 2013. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadioChemistry Analytical Results

Columbia Analytical Services
Project ID: K1211802
Sample ID: DW-9
Locator:

ACZ Sample ID: ***L98144-01***
Date Sampled: *11/28/12 11:30*
Date Received: *11/30/12*
Sample Matrix: *Drinking Water*

Gross Alpha & Beta — Prep Method:
M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Alpha	12/10/12 11:24		0.08	0.8	1.2	pCi/L		zsh
Beta	12/10/12 11:24		4.1	1.8	2.6	pCi/L		zsh

Radium 226 — Prep Method:
M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226	01/07/13 12:21		0.2	0.07	0.11	pCi/L		thf

Radium 228 — Prep Method:
M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228	12/17/12 15:34		1.1	0.23	1.4	pCi/L	*	mla

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	*PBS*	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

(1) Solid matrices are reported on a dry weight basis.

(2) Preparation method: "Method" indicates preparation defined in analytical method.

(3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.

(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Radiochemistry QC Summary

Columbia Analytical Services

ACZ Project ID: ***L98144***

Alpha

M900.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG335611																
WG335177PBW	PBW	12/10/12						-.59	0.83	0.95			1.9			
WG335177LCSW	LCSW	12/10/12	RC121002-2	81.06				85	7.9	1.4	104.9	83	133			
L98129-01DUP	DUP-RPD	12/10/12			57	9.5	2.8	51	9.3	3.2				11.1	20	
L98108-02MS	MS	12/10/12	RC121002-2	54.04	0.55	1.2	1.5	47	6	1.5	86	83	133			

Beta

M900.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG335611																
WG335177PBW	PBW	12/10/12						1.8	1.9	2.6			5.2			
WG335177LCSW	LCSW	12/10/12	PCN40511	100				85	5.9	3.8	85	70	129			
L98129-01DUP	DUP-RPD	12/10/12			39	5	4.4	34	4.9	4.5				13.7	20	
L98129-02MS	MS	12/10/12	PCN40511	166.67	200	12	6.7	360	15	6.6	96	70	129			

Radium 226

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG336904																
WG335930PBW	PBW	01/07/13						.14	0.08	0.08			0.16			
WG335930LCSW	LCSW	01/07/13	RC121106-2	23.92				19	0.4	0.06	79.4	43	148			
L98186-01DUP	DUP-RPD	01/07/13			0.13	0.07	0.16	.13	0.05	0.07				0	20	
L98189-03DUP	DUP-RPD	01/07/13			2	0.15	0.21	1.7	0.13	0.07				16.2	20	
L98186-03MS	MS	01/07/13	RC121106-2	23.92	0.8	0.19	0.34	16	0.48	0.09	63.6	43	148			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Radiochemistry QC Summary

Columbia Analytical Services

ACZ Project ID: ***L98144***

Radium 228 M904.0 **Units:** pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG335984																
L98186-01DUP	DUP-RPD	12/17/12			0.82	0.52	1.4	1.4	0.5	1.3				52.3	20	RG
L98186-01DUP	DUP-RER	12/17/12			0.82	0.52	1.4	1.4	0.5	1.3				0.8	2	
L98186-02MS	MS	12/17/12	PCN41251	19.6	1.1	0.47	1	14	0.95	1.5	65.8	47	123			
WG335542LCSW	LCSW	12/17/12	PCN41251	19.6				11	0.86	1.3	56.1	47	123			
WG335542PBW	PBW	12/17/12						.58	0.24	0.92			1.84			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

RadChem Extended Qualifier Report

Columbia Analytical Services ACZ Project ID: ***L98144***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L98144-01	WG335984	Radium 228	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Certification Qualifiers

Columbia Analytical Services ACZ Project ID: ***L98144***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Columbia Analytical Services
K1211802

ACZ Project ID:	L98144
Date Received:	11/30/2012 10:45
Received By:	ksj
Date Printed:	12/3/2012

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits?	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA16671	3.7	14	Yes

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

L98144 Chain of Custody

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

L98144

Project Number: K1211802
Project Manager: Lisa Domenighini

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Radioact 900.0	Radium 226 903.1	Radium 228 904.0
K1211802-001	DW-1		Drinking Water	11/26/12	1135	ACZ			
K1211802-002	DW-7		Drinking Water	11/26/12	1400	ACZ			
K1211802-004	DW-6		Drinking Water	11/27/12	1000	ACZ			
K1211802-005	DW-5		Drinking Water	11/27/12	1200	ACZ			
K1211802-006	DW-2		Drinking Water	11/27/12	1315	ACZ			
K1211802-007	DUP-1		Drinking Water	11/27/12	1500	ACZ			
K1211802-009	DW-9	5	Drinking Water	11/28/12	1130	ACZ	X	X	X

Test Comments
Radioact - 900.0 K1211802-001,2,4,5,6,7,9 Gross Alpha,Beta,Radium 226 and 228

WA State DW
no state forms needed

LisaD 11/29/12

Folder Comments:
Use Baseline for Performance Testing Samples

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
Please provide the electronic (PDF and EDD) report to the following e-mail address: kelso_data@caslab.com	____RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 X STANDARD Requested FAX Date: _____ Requested Report Date: 12/13/12	___ I. Results Only X II. Results + QC Summaries ___ III. Results + QC and Calibration Summaries ___ IV. Data Validation Report with Raw Data PQL/MDL/J Y EDD Y	PO# K1211802 Bill to

Relinquished By: LJT 11/29/12 Received By: LT 330 11.30.12 10:45 Airbill Number: _____

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

Project Number: K1211802
Project Manager: Lisa Domenighini

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID

Ship To: ACZ

ACZ Laboratories, Incorporated
2773 Downhill Dr.
Steamboat Springs CO, 80487

Special Instructions/Comments

Please provide the electronic (PDF and EDD) report to the following e-mail address:
kelso_data@caslab.com

Turnaround Requirements

____**RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS
1 2 3 4 5

____ **STANDARD**

Requested FAX Date: _____

Requested Report Date: 12/13/12

Report Requirements

____ I. Results Only

____ II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

PQL/MDL/J Y
EDD Y

Invoice Information

PO#
K1211802

Bill to

Relinquished By: _____ Received By: 331 Airbill Number: _____

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Columbia Analytical Services, Inc.
1317 S. 13th Avenue
Kelso, WA 98626
Attention: Chris Leaf

Date of Issue
12/07/2012
EUROFINS EATON
ANALYTICAL

01114CA

Report: 416646
Project: SUBCONTRACT
Group: SOCs

DST: David S Tripp

Project Manager

Laboratory certifies that the test results meet all **TNI NELAP** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nevada**	CA00006-2012-1
Arkansas	Certified	**New Hampshire**	2959-11
California – NELAP	01114CA	**New Jersey**	CA 008
California – ELAP	1422	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-010
Georgia	947	**Pennsylvania**	68-565
Guam	11-004r	**Rhode Island**	01114CA
Hawaii	Certified	**South Carolina**	87016001
Idaho	Certified	**South Dakota**	Certified
Illinois	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas**	T104704230-11-2
Kansas	E-10268	**Utah**	Mont-1
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA110022	**Virginia**	00210
Maine	CA0006	**Washington**	C383
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified

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Acknowledgement of Samples Received

Addr: **Columbia Analytical Services, Inc.**
1317 S. 13th Avenue
Kelso, WA 98626

Client ID: COLUMBIA-WA
Folder #: 416646
Project: SUBCONTRACT
Sample Group: SOCs

Attn: Chris Leaf
Phone: 360-577-7222

Project Manager: David S Tripp
Phone: (626) 386-1158
PO #: K1211802

The following samples were received from you on **November 28, 2012**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201211280102	DW-1	11/26/2012 1135
	Variable ID: K1211802-001	
	@ML531.2 Glyphosate	
201211280103	DW-7	11/26/2012 1400
	Variable ID: K1211802-002	
	@ML531.2 Glyphosate	

Test Description

@ML531.2 -- Aldicarbs

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

416646

Project Number: K1211802
Project Manager: Lisa Domenighini

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	GLYPH 547	Misc Out 5 None
K1211802-001	DW-1	3	Drinking Water	11/26/12	1135	Eurofins (MWH Lab	X	X
K1211802-002	DW-7	3	Drinking Water	11/26/12	1400	Eurofins (MWH Lab	X	X

EUROFINS EATON ANALYTICAL
750 ROYAL OAKS DR
STE 100
MONROVIA CA 91016-6356

P:02 S: TGRN I: 204
C205 – RDL
1Z973669016474 2837 1030
JT01TT CASGA143 NOV 28 06:26:06 2012
US 9171 HIP 12.1.6 ZEBRAZ4MP

Test Comments
Misc Out 5 - None K1211802-001,2 531.1 Carbamates

Folder Comments:
Use Baseline for Performance Testing Samples

WA State DW
No DWater
Forms 11/27/12 LD

TEMP BLK = 4.2°C
BI FROZEN

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
Please provide the electronic(PDF and EDD) report to the following e-mail address: kelso_data@caslab.com	____RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS X 1 2 3 4 5 X STANDARD Requested FAX Date: ____ Requested Report Date: 12/13/12	___ I. Results Only X II. Results + QC Summaries ___ III. Results + QC and Calibration Summaries ___ IV. Data Validation Report with Raw Data PQL/MDL/J N EDD Y	PO# K1211802 Bill to

Relinquished By: 11/27/12 1300 Received By: M. DELMESA EEA 11-28-12 1080 Airbill Number:

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 416646

Columbia Analytical Services, Inc.
Chris Leaf
1317 S. 13th Avenue
Kelso, WA 98626

The Comments Report may be blank if there are no comments for this report.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
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Laboratory Hits
Report: 416646

Columbia Analytical Services, Inc.
Chris Leaf
1317 S. 13th Avenue
Kelso, WA 98626

Samples Received on:
11/28/2012

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 416646

Columbia Analytical Services, Inc.
Chris Leaf
1317 S. 13th Avenue
Kelso, WA 98626

Samples Received on:
11/28/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
DW-1 (201211280102)						**Sampled on 11/26/2012 1135**		
Variable ID: K1211802-001								
	EPA 547 - Glyphosate							
	12/03/2012 15:20	682936	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	12/01/2012 07:51	682460	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	12/01/2012 07:51	682460	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	84	%		1
DW-7 (201211280103)						**Sampled on 11/26/2012 1400**		
Variable ID: K1211802-002								
	EPA 547 - Glyphosate							
	12/03/2012 15:31	682936	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	12/01/2012 08:27	682460	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	12/01/2012 08:27	682460	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	93	%		1

Rounding on totals after summation.
(c) - indicates calculated results

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Columbia Analytical Services, Inc.

QC Ref # 682460 - Aldicarbs **Analysis Date: 12/01/2012**

201211280102	DW-1	Analyzed by: XWO
201211280103	DW-7	Analyzed by: XWO

QC Ref # 682936 - Glyphosate **Analysis Date: 12/03/2012**

201211280102	DW-1	Analyzed by: XWO
201211280103	DW-7	Analyzed by: XWO

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Laboratory QC
Report: 416646

Columbia Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 682460 - Aldicarbs by EPA 531.2						**Analysis Date: 11/30/2012**			
CCCH	3-Hydroxycarbofuran		25	24.8	ug/L	99	(70-130)		
CCCM	3-Hydroxycarbofuran		10	9.77	ug/L	98	(70-130)		
LCS1	3-Hydroxycarbofuran		10	9.80	ug/L	98	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.16	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.507	ug/L	101	(50-150)		
MS_201211210166	3-Hydroxycarbofuran	ND	10	10.1	ug/L	101	(70-130)		
MSD_201211210166	3-Hydroxycarbofuran	ND	10	9.78	ug/L	98	(70-130)	20	3.2
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		108	%	108	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		101	%	101	(70-130)		
LCS1	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		102	%	102	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		92.9	%	93	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		98.9	%	99	(70-130)		
MS_201211210166	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		105	%	105	(70-130)		
MSD_201211210166	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		108	%	108	(70-130)		
CCCH	Aldicarb (Temik)		25	24.7	ug/L	99	(70-130)		
CCCM	Aldicarb (Temik)		10	9.60	ug/L	96	(70-130)		
LCS1	Aldicarb (Temik)		10	10.8	ug/L	108	(70-130)		
MBLK	Aldicarb (Temik)			<0.16	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.445	ug/L	89	(50-150)		
MS_201211210166	Aldicarb (Temik)	ND	10	10.3	ug/L	103	(70-130)		
MSD_201211210166	Aldicarb (Temik)	ND	10	10.0	ug/L	100	(70-130)	20	3.0
CCCH	Aldicarb sulfone		25	24.3	ug/L	97	(70-130)		
CCCM	Aldicarb sulfone		10	9.73	ug/L	97	(70-130)		
LCS1	Aldicarb sulfone		10	8.99	ug/L	90	(70-130)		
MBLK	Aldicarb sulfone			<0.16	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.454	ug/L	91	(50-150)		
MS_201211210166	Aldicarb sulfone	ND	10	9.53	ug/L	95	(70-130)		
MSD_201211210166	Aldicarb sulfone	ND	10	9.58	ug/L	96	(70-130)	20	0.52
CCCH	Aldicarb sulfoxide		25	25.1	ug/L	101	(70-130)		
CCCM	Aldicarb sulfoxide		10	10.0	ug/L	100	(70-130)		
LCS1	Aldicarb sulfoxide		10	9.65	ug/L	97	(70-130)		
MBLK	Aldicarb sulfoxide			<0.16	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.418	ug/L	84	(50-150)		
MS_201211210166	Aldicarb sulfoxide	ND	10	9.55	ug/L	96	(70-130)		
MSD_201211210166	Aldicarb sulfoxide	ND	10	9.67	ug/L	97	(70-130)	20	1.3
CCCH	Baygon		25	24.9	ug/L	100	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Laboratory QC
Report: 416646

Columbia Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Baygon		10	10.2	ug/L	102	(70-130)		
LCS1	Baygon		10	10.2	ug/L	102	(70-130)		
MBLK	Baygon			<0.16	ug/L				
MRL_CHK	Baygon		0.5	0.430	ug/L	86	(50-150)		
MS_201211210166	Baygon	ND	10	9.70	ug/L	97	(70-130)		
MSD_201211210166	Baygon	ND	10	10.2	ug/L	102	(70-130)	20	5.0
CCCH	Carbaryl		25	25.2	ug/L	101	(70-130)		
CCCM	Carbaryl		10	9.64	ug/L	96	(70-130)		
LCS1	Carbaryl		10	10.6	ug/L	106	(70-130)		
MBLK	Carbaryl			<0.16	ug/L				
MRL_CHK	Carbaryl		0.5	0.479	ug/L	96	(50-150)		
MS_201211210166	Carbaryl	ND	10	10.0	ug/L	100	(70-130)		
MSD_201211210166	Carbaryl	ND	10	9.99	ug/L	100	(70-130)	20	0.10
CCCH	Carbofuran (Furadan)		25	24.7	ug/L	99	(70-130)		
CCCM	Carbofuran (Furadan)		10	10.2	ug/L	102	(70-130)		
LCS1	Carbofuran (Furadan)		10	10.1	ug/L	101	(70-130)		
MBLK	Carbofuran (Furadan)			<0.16	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.480	ug/L	96	(50-150)		
MS_201211210166	Carbofuran (Furadan)	ND	10	9.80	ug/L	98	(70-130)		
MSD_201211210166	Carbofuran (Furadan)	ND	10	9.95	ug/L	100	(70-130)	20	1.5
CCCH	Methiocarb		25	24.8	ug/L	99	(70-130)		
CCCM	Methiocarb		10	9.87	ug/L	99	(70-130)		
LCS1	Methiocarb		10	10.2	ug/L	102	(70-130)		
MBLK	Methiocarb			<0.16	ug/L				
MRL_CHK	Methiocarb		0.5	0.378	ug/L	76	(50-150)		
MS_201211210166	Methiocarb	ND	10	9.88	ug/L	99	(70-130)		
MSD_201211210166	Methiocarb	ND	10	10.1	ug/L	101	(70-130)	20	2.2
CCCH	Methomyl		25	24.4	ug/L	98	(70-130)		
CCCM	Methomyl		10	10.0	ug/L	100	(70-130)		
LCS1	Methomyl		10	10.0	ug/L	100	(70-130)		
MBLK	Methomyl			<0.16	ug/L				
MRL_CHK	Methomyl		0.5	0.473	ug/L	95	(50-150)		
MS_201211210166	Methomyl	ND	10	9.70	ug/L	97	(70-130)		
MSD_201211210166	Methomyl	ND	10	9.76	ug/L	98	(70-130)	20	0.72
CCCH	Oxamyl (Vydate)		25	25.0	ug/L	100	(70-130)		
CCCM	Oxamyl (Vydate)		10	10.0	ug/L	100	(70-130)		
LCS1	Oxamyl (Vydate)		10	9.67	ug/L	97	(70-130)		
MBLK	Oxamyl (Vydate)			<0.16	ug/L				

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Laboratory QC
Report: 416646

Columbia Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Oxamyl (Vydate)		0.5	0.432	ug/L	87	(50-150)		
MS_201211210166	Oxamyl (Vydate)	ND	10	10.5	ug/L	105	(70-130)		
MSD_201211210166	Oxamyl (Vydate)	ND	10	9.59	ug/L	96	(70-130)	20	9.1
QC Ref# 682936 - Glyphosate by EPA 547						**Analysis Date: 12/03/2012**			
CCCH	Glyphosate		25	23.9	ug/L	96	(80-120)		
CCCM	Glyphosate		10	11.0	ug/L	110	(80-120)		
LCS1	Glyphosate		10	8.85	ug/L	89	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	6.75	ug/L	112	(50-150)		
MS_201211280431	Glyphosate	ND	10	11.2	ug/L	112	(70-130)		
MS2_201211270444	Glyphosate	ND	10	9.32	ug/L	93	(70-130)		
MSD_201211280431	Glyphosate	ND	10	11.7	ug/L	117	(70-130)	20	4.4

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Laboratory Report

for

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
Attention: Lisa Domenighini

Date of Issue
12/17/2012
EUROFINS EATON
ANALYTICAL

NELAP ACCREDITED TNI LABORATORY
01114CA

Report: 416997
Project: DOMENIGHINI
Group: SUBCONTRACT

DST: David S Tripp
Project Manager

Laboratory certifies that the test results meet all **TNI NELAP** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nevada**	CA00006-2012-1
Arkansas	Certified	**New Hampshire**	2959-11
California – NELAP	01114CA	**New Jersey**	CA 008
California – ELAP	1422	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-010
Georgia	947	**Pennsylvania**	68-565
Guam	11-004r	**Rhode Island**	01114CA
Hawaii	Certified	**South Carolina**	87016001
Idaho	Certified	**South Dakota**	Certified
Illinois	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas**	T104704230-11-2
Kansas	E-10268	**Utah**	Mont-1
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA110022	**Virginia**	00210
Maine	CA0006	**Washington**	C383
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified

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Acknowledgement of Samples Received

Addr: **Columbia Analytical Services, Inc.**
1317 S. 13th Ave
Kelso, WA 98626

Client ID: COLUMBIA-WA
Folder #: 416997
Project: DOMENIGHINI
Sample Group: SUBCONTRACT

Attn: Lisa Domenighini
Phone: 360-577-7222

Project Manager: David S Tripp
Phone: (626) 386-1158
PO #: K1211802

The following samples were received from you on **November 29, 2012**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID		Sample Date
201211290210	DW-6		11/27/2012 1000
	Variable ID: K1211802-004		
	@ML531.2	Glyphosate	
201211290211	DW-5		11/27/2012 1200
	Variable ID: K1211802-005		
	@ML531.2	Glyphosate	
201211290212	DW-2		11/27/2012 1315
	Variable ID: K1211802-006		
	@ML531.2	Glyphosate	
201211290213	DUP-1		11/27/2012 1500
	Variable ID: K1211802-007		
	@ML531.2	Glyphosate	

Test Description

@ML531.2 -- Aldicarbs

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

~~4168874~~6997

4.3° on ice

Project Number: K1211802
Project Manager: Lisa Domenighini

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	GLYPH 547	Misc Out 5 None 531.1
K1211802-001	DW-1	~~0~~	Drinking Water	11/26/12	1135	Eurofins (MWH		
K1211802-002	DW-7	~~0~~	Drinking Water	11/26/12	1400	Eurofins (MWH		
K1211802-004	DW-6	3	Drinking Water	11/27/12	1000	Eurofins (MWH	X	X
K1211802-005	DW-5	3	Drinking Water	11/27/12	1200	Eurofins (MWH	X	X
K1211802-006	DW-2	3	Drinking Water	11/27/12	1315	Eurofins (MWH	X	X
K1211802-007	DUP-1	3	Drinking Water	11/27/12	1500	Eurofins (MWH	X	X

Test Comments

Misc Out 5 - None K1211802-001,2,4,5,6,7 531.1 Carbamates

Folder Comments:

Use Baseline for Performance Testing Samples

WA State DW
State forms not needed
11/28/12 Lisa D

Invoice: Date: 29Nov12
Customer: Wgt: 3.15 LBS
Dept: SAMPLE PREP. / COD: 0.00
PO Num: RETURN COOLER DV: 0.00
2ND BLL RCP
TRCK: 0820963930501171

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Special Instructions/Comments

Please provide the electronic (PDF and EDD) report to the following e-mail address:
kelso_data@caslab.com

Turnaround Requirements

____RUSH (Surcharges Apply)

PLEASE CIRCLE WORK DAYS
1 2 3 4 5

X STANDARD

Requested FAX Date: _____

Requested Report Date: 12/13/12

Report Requirements

___ I. Results Only
X II. Results + QC Summaries
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

PQL/MDL/J N
EDD Y

Invoice Information

PO# K1211802

Bill to

Relinquished By: 11/28/12 Received By: 11-29-12 1154 Airbill Number:

ALS Environmental Chain of Custody

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ALS Contact: Lisa Domenighini

Project Number: K1211802
Project Manager: Lisa Domenighini

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID

Ship To: Eurofins (MWH Labs)

Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia CA, 91016-3629

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
Please provide the electronic (PDF and EDD) report to the following e-mail address: kelso_data@caslab.com	_____RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 ____ STANDARD Requested FAX Date: _____ Requested Report Date: 12/13/12	____ I. Results Only ____ II. Results + QC Summaries ____ III. Results + QC and Calibration Summaries ____ IV. Data Validation Report with Raw Data PQL/MDL/J N EDD Y	PO# K1211802 Bill to

Relinquished By: _____ Received By: _____ Airbill Number: _____

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Laboratory Comments
Report: 416997

Columbia Analytical Services, Inc.
Lisa Domenighini
1317 S. 13th Ave
Kelso, WA 98626

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits
Report: 416997

Columbia Analytical Services, Inc.
Lisa Domenighini
1317 S. 13th Ave
Kelso, WA 98626

Samples Received on:
11/29/2012

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 416997

Columbia Analytical Services, Inc.
Lisa Domenighini
1317 S. 13th Ave
Kelso, WA 98626

Samples Received on:
11/29/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
DW-6 (201211290210)						**Sampled on 11/27/2012 1000**		
Variable ID: K1211802-004								
	EPA 547 - Glyphosate							
	12/03/2012 16:17	682936	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	12/06/2012 18:31	684137	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	12/06/2012 18:31	684137	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	85	%		1
DW-5 (201211290211)						**Sampled on 11/27/2012 1200**		
Variable ID: K1211802-005								
	EPA 547 - Glyphosate							
	12/03/2012 16:29	682936	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	12/06/2012 19:07	684137	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	12/06/2012 19:07	684137	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	91	%		1
DW-2 (201211290212)						**Sampled on 11/27/2012 1315**		
Variable ID: K1211802-006								
	EPA 547 - Glyphosate							
	12/03/2012 16:40	682936	(EPA 547)	Glyphosate	ND	ug/L	6	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
Report: 416997

Columbia Analytical Services, Inc.
Lisa Domenighini
1317 S. 13th Ave
Kelso, WA 98626

Samples Received on:
11/29/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	EPA 531.2 - Aldicarbs							
	12/06/2012 19:44	684137	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	12/06/2012 19:44	684137	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	92	%		1
DUP-1 (201211290213)						**Sampled on 11/27/2012 1500**		
	Variable ID: K1211802-007							
	EPA 547 - Glyphosate							
	12/03/2012 17:03	682936	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	12/06/2012 20:20	684137	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	12/06/2012 20:20	684137	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	85	%		1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory
QC Summary: 416997

Columbia Analytical Services, Inc.

QC Ref # 682936 - Glyphosate **Analysis Date: 12/03/2012**

201211290210	DW-6	Analyzed by: XWO
201211290211	DW-5	Analyzed by: XWO
201211290212	DW-2	Analyzed by: XWO
201211290213	DUP-1	Analyzed by: XWO

QC Ref # 684137 - Aldicarbs **Analysis Date: 12/06/2012**

201211290210	DW-6	Analyzed by: XWO
201211290211	DW-5	Analyzed by: XWO
201211290212	DW-2	Analyzed by: XWO
201211290213	DUP-1	Analyzed by: XWO

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Laboratory QC
Report: 416997

Columbia Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 682936 - Glyphosate by EPA 547						**Analysis Date: 12/03/2012**			
CCCH	Glyphosate		25	23.9	ug/L	96	(80-120)		
CCCM	Glyphosate		10	11.0	ug/L	110	(80-120)		
LCS1	Glyphosate		10	8.85	ug/L	89	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	6.75	ug/L	112	(50-150)		
MS_201211280431	Glyphosate	ND	10	11.2	ug/L	112	(70-130)		
MS2_201211270444	Glyphosate	ND	10	9.32	ug/L	93	(70-130)		
MSD_201211280431	Glyphosate	ND	10	11.7	ug/L	117	(70-130)	20	4.4
QC Ref# 684137 - Aldicarbs by EPA 531.2						**Analysis Date: 12/06/2012**			
CCCH	3-Hydroxycarbofuran		25	24.4	ug/L	98	(70-130)		
CCCM	3-Hydroxycarbofuran		10	10.0	ug/L	100	(70-130)		
LCS1	3-Hydroxycarbofuran		10	9.70	ug/L	97	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.16	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.496	ug/L	99	(50-150)		
MS_201211290210	3-Hydroxycarbofuran	ND	10	10.2	ug/L	102	(70-130)		
MSD_201211290210	3-Hydroxycarbofuran	ND	10	10.3	ug/L	103	(70-130)	20	0.98
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		99.4	%	99	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		104	%	104	(70-130)		
LCS1	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		108	%	108	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		101	%	101	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		94.4	%	94	(70-130)		
MS_201211290210	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		99.9	%	100	(70-130)		
MSD_201211290210	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		94.0	%	94	(70-130)		
CCCH	Aldicarb (Temik)		25	22.0	ug/L	88	(70-130)		
CCCM	Aldicarb (Temik)		10	9.32	ug/L	93	(70-130)		
LCS1	Aldicarb (Temik)		10	10.9	ug/L	109	(70-130)		
MBLK	Aldicarb (Temik)			<0.16	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.428	ug/L	86	(50-150)		
MS_201211290210	Aldicarb (Temik)	ND	10	10.1	ug/L	101	(70-130)		
MSD_201211290210	Aldicarb (Temik)	ND	10	10.4	ug/L	104	(70-130)	20	2.9
CCCH	Aldicarb sulfone		25	24.7	ug/L	99	(70-130)		
CCCM	Aldicarb sulfone		10	9.43	ug/L	94	(70-130)		
LCS1	Aldicarb sulfone		10	9.18	ug/L	92	(70-130)		
MBLK	Aldicarb sulfone			<0.16	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.535	ug/L	107	(50-150)		
MS_201211290210	Aldicarb sulfone	ND	10	9.77	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Columbia Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201211290210	Aldicarb sulfone	ND	10	9.39	ug/L	94	(70-130)	20	4.0
CCCH	Aldicarb sulfoxide		25	24.9	ug/L	100	(70-130)		
CCCM	Aldicarb sulfoxide		10	9.86	ug/L	99	(70-130)		
LCS1	Aldicarb sulfoxide		10	9.07	ug/L	91	(70-130)		
MBLK	Aldicarb sulfoxide			<0.16	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.482	ug/L	97	(50-150)		
MS_201211290210	Aldicarb sulfoxide	ND	10	9.94	ug/L	99	(70-130)		
MSD_201211290210	Aldicarb sulfoxide	ND	10	9.06	ug/L	91	(70-130)	20	9.3
CCCH	Baygon		25	25.0	ug/L	100	(70-130)		
CCCM	Baygon		10	10.0	ug/L	100	(70-130)		
LCS1	Baygon		10	9.88	ug/L	99	(70-130)		
MBLK	Baygon			<0.16	ug/L				
MRL_CHK	Baygon		0.5	0.540	ug/L	108	(50-150)		
MS_201211290210	Baygon	ND	10	10.2	ug/L	102	(70-130)		
MSD_201211290210	Baygon	ND	10	10.3	ug/L	103	(70-130)	20	0.98
CCCH	Carbaryl		25	25.4	ug/L	101	(70-130)		
CCCM	Carbaryl		10	9.66	ug/L	97	(70-130)		
LCS1	Carbaryl		10	10.3	ug/L	103	(70-130)		
MBLK	Carbaryl			<0.16	ug/L				
MRL_CHK	Carbaryl		0.5	0.473	ug/L	95	(50-150)		
MS_201211290210	Carbaryl	ND	10	9.81	ug/L	98	(70-130)		
MSD_201211290210	Carbaryl	ND	10	9.88	ug/L	99	(70-130)	20	0.71
CCCH	Carbofuran (Furadan)		25	24.7	ug/L	99	(70-130)		
CCCM	Carbofuran (Furadan)		10	10.4	ug/L	104	(70-130)		
LCS1	Carbofuran (Furadan)		10	9.93	ug/L	99	(70-130)		
MBLK	Carbofuran (Furadan)			<0.16	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.479	ug/L	96	(50-150)		
MS_201211290210	Carbofuran (Furadan)	ND	10	10.1	ug/L	101	(70-130)		
MSD_201211290210	Carbofuran (Furadan)	ND	10	10.4	ug/L	104	(70-130)	20	2.9
CCCH	Methiocarb		25	24.0	ug/L	96	(70-130)		
CCCM	Methiocarb		10	9.81	ug/L	98	(70-130)		
LCS1	Methiocarb		10	10.1	ug/L	101	(70-130)		
MBLK	Methiocarb			<0.16	ug/L				
MRL_CHK	Methiocarb		0.5	0.358	ug/L	72	(50-150)		
MS_201211290210	Methiocarb	ND	10	9.36	ug/L	94	(70-130)		
MSD_201211290210	Methiocarb	ND	10	9.11	ug/L	91	(70-130)	20	2.7
CCCH	Methomyl		25	24.4	ug/L	98	(70-130)		
CCCM	Methomyl		10	10.1	ug/L	101	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Laboratory QC
Report: 416997

Columbia Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Methomyl		10	10.2	ug/L	102	(70-130)		
MBLK	Methomyl			<0.16	ug/L				
MRL_CHK	Methomyl		0.5	0.470	ug/L	94	(50-150)		
MS_201211290210	Methomyl	ND	10	9.16	ug/L	92	(70-130)		
MSD_201211290210	Methomyl	ND	10	9.44	ug/L	94	(70-130)	20	3.0
CCCH	Oxamyl (Vydate)		25	25.1	ug/L	100	(70-130)		
CCCM	Oxamyl (Vydate)		10	10.7	ug/L	107	(70-130)		
LCS1	Oxamyl (Vydate)		10	10.1	ug/L	101	(70-130)		
MBLK	Oxamyl (Vydate)			<0.16	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.462	ug/L	92	(50-150)		
MS_201211290210	Oxamyl (Vydate)	ND	10	9.49	ug/L	95	(70-130)		
MSD_201211290210	Oxamyl (Vydate)	ND	10	11.0	ug/L	110	(70-130)	20	15

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory Report

for

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
Attention: Lisa Domenighini

Date of Issue
12/17/2012
EUROFINS EATON
ANALYTICAL

NELAP ACCREDITED TNI LABORATORY
01114CA

Report: 417035
Project: DOMENIGHINI
Group: SUBCONTRACT

DST: David S Tripp
Project Manager

Laboratory certifies that the test results meet all **TNI NELAP** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nevada**	CA00006-2012-1
Arkansas	Certified	**New Hampshire**	2959-11
California – NELAP	01114CA	**New Jersey**	CA 008
California – ELAP	1422	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-010
Georgia	947	**Pennsylvania**	68-565
Guam	11-004r	**Rhode Island**	01114CA
Hawaii	Certified	**South Carolina**	87016001
Idaho	Certified	**South Dakota**	Certified
Illinois	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas**	T104704230-11-2
Kansas	E-10268	**Utah**	Mont-1
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA110022	**Virginia**	00210
Maine	CA0006	**Washington**	C383
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified

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Acknowledgement of Samples Received

Addr: **Columbia Analytical Services, Inc.**
1317 S. 13th Ave
Kelso, WA 98626

Client ID: COLUMBIA-WA
Folder #: 417035
Project: DOMENIGHINI
Sample Group: SUBCONTRACT

Attn: Lisa Domenighini
Phone: 360-577-7222

Project Manager: David S Tripp
Phone: (626) 386-1158
PO #: K1211802

The following samples were received from you on **November 30, 2012**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201211300295	DW-9	11/28/2012 1130

Variable ID: K1211802-009

@ML531.2	Glyphosate

Test Description

@ML531.2 -- Aldicarbs

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ALS Environmental Chain of Custody

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ALS Contact: Lisa Domenighini

Project Number: K1211802
Project Manager: Lisa Domenighini

4.5° on ICE

417035

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	GLYPH 547	Misc Out 5 None
K1211802-001	DW-1		Drinking Water	11/26/12	1135	Eurofins (MWH		
K1211802-002	DW-7		Drinking Water	11/26/12	1400	Eurofins (MWH		
K1211802-004	DW-6		Drinking Water	11/27/12	1000	Eurofins (MWH		
K1211802-005	DW-5		Drinking Water	11/27/12	1200	Eurofins (MWH		
K1211802-006	DW-2		Drinking Water	11/27/12	1315	Eurofins (MWH		
K1211802-007	DUP-1		Drinking Water	11/27/12	1500	Eurofins (MWH		
K1211802-009	DW-9	3	Drinking Water	11/28/12	1130	Eurofins (MWH	X	X

Test Comments
Misc Out 5 - None K1211802-001,2,4,5,6,7,9 531.1 Carbamates

Folder Comments:
Use Baseline for Performance Testing Samples

WA State DW
no State forms needed
11/29/12
LisaD

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address:
kelso_data@caslab.com

Turnaround Requirements
____ **RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
X **STANDARD**
Requested FAX Date: _____
Requested Report Date: 12/13/12

Report Requirements
X I. Results Only
___ II. Results + QC Summaries
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD Y

Invoice Information
PO#
K1211802
Bill to

Relinquished By: 11/29/12 Received By: 11/30/12 401 Airbill Number:

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Lisa Domenighini

Project Number: K1211802
Project Manager: Lisa Domenighini

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID

Ship To: Eurofins (MWH Labs)

Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia CA, 91016-3629

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
Please provide the electronic (PDF and EDD) report to the following e-mail address: kelso_data@caslab.com	_____RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 ____ STANDARD Requested FAX Date: _____ Requested Report Date: 12/13/12	____ I. Results Only ____ II. Results + QC Summaries ____ III. Results + QC and Calibration Summaries ____ IV. Data Validation Report with Raw Data PQL/MDL/J Y EDD Y	PO# K1211802 Bill to

Relinquished By: _____ Received By: _____ Airbill Number: _____

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Laboratory Comments
Report: 417035

Columbia Analytical Services, Inc.
Lisa Domenighini
1317 S. 13th Ave
Kelso, WA 98626

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits
Report: 417035

Columbia Analytical Services, Inc.
Lisa Domenighini
1317 S. 13th Ave
Kelso, WA 98626

Samples Received on:
11/30/2012

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 417035

Columbia Analytical Services, Inc.
Lisa Domenighini
1317 S. 13th Ave
Kelso, WA 98626

Samples Received on:
11/30/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
DW-9 (201211300295)						**Sampled on 11/28/2012 1130**		
	Variable ID: K1211802-009							
	EPA 547 - Glyphosate							
	12/03/2012 17:49	682936	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	12/06/2012 20:56	684137	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	12/06/2012 20:56	684137	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	88	%		1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory
QC Summary: 417035

Columbia Analytical Services, Inc.

QC Ref # 682936 - Glyphosate **Analysis Date: 12/03/2012**

201211300295 DW-9 Analyzed by: XWO

QC Ref # 684137 - Aldicarbs **Analysis Date: 12/06/2012**

201211300295 DW-9 Analyzed by: XWO

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Laboratory QC
Report: 417035

Columbia Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 682936 - Glyphosate by EPA 547						**Analysis Date: 12/03/2012**			
CCCH	Glyphosate		25	23.9	ug/L	96	(80-120)		
CCCM	Glyphosate		10	11.0	ug/L	110	(80-120)		
LCS1	Glyphosate		10	8.85	ug/L	89	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	6.75	ug/L	112	(50-150)		
MS_201211280431	Glyphosate	ND	10	11.2	ug/L	112	(70-130)		
MS2_201211270444	Glyphosate	ND	10	9.32	ug/L	93	(70-130)		
MSD_201211280431	Glyphosate	ND	10	11.7	ug/L	117	(70-130)	20	4.4
QC Ref# 684137 - Aldicarbs by EPA 531.2						**Analysis Date: 12/06/2012**			
CCCH	3-Hydroxycarbofuran		25	24.4	ug/L	98	(70-130)		
CCCM	3-Hydroxycarbofuran		10	10.0	ug/L	100	(70-130)		
LCS1	3-Hydroxycarbofuran		10	9.70	ug/L	97	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.16	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.496	ug/L	99	(50-150)		
MS_201211290210	3-Hydroxycarbofuran	ND	10	10.2	ug/L	102	(70-130)		
MSD_201211290210	3-Hydroxycarbofuran	ND	10	10.3	ug/L	103	(70-130)	20	0.98
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		99.4	%	99	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		104	%	104	(70-130)		
LCS1	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		108	%	108	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		101	%	101	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		94.4	%	94	(70-130)		
MS_201211290210	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		99.9	%	100	(70-130)		
MSD_201211290210	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		94.0	%	94	(70-130)		
CCCH	Aldicarb (Temik)		25	22.0	ug/L	88	(70-130)		
CCCM	Aldicarb (Temik)		10	9.32	ug/L	93	(70-130)		
LCS1	Aldicarb (Temik)		10	10.9	ug/L	109	(70-130)		
MBLK	Aldicarb (Temik)			<0.16	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.428	ug/L	86	(50-150)		
MS_201211290210	Aldicarb (Temik)	ND	10	10.1	ug/L	101	(70-130)		
MSD_201211290210	Aldicarb (Temik)	ND	10	10.4	ug/L	104	(70-130)	20	2.9
CCCH	Aldicarb sulfone		25	24.7	ug/L	99	(70-130)		
CCCM	Aldicarb sulfone		10	9.43	ug/L	94	(70-130)		
LCS1	Aldicarb sulfone		10	9.18	ug/L	92	(70-130)		
MBLK	Aldicarb sulfone			<0.16	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.535	ug/L	107	(50-150)		
MS_201211290210	Aldicarb sulfone	ND	10	9.77	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Columbia Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201211290210	Aldicarb sulfone	ND	10	9.39	ug/L	94	(70-130)	20	4.0
CCCH	Aldicarb sulfoxide		25	24.9	ug/L	100	(70-130)		
CCCM	Aldicarb sulfoxide		10	9.86	ug/L	99	(70-130)		
LCS1	Aldicarb sulfoxide		10	9.07	ug/L	91	(70-130)		
MBLK	Aldicarb sulfoxide			<0.16	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.482	ug/L	97	(50-150)		
MS_201211290210	Aldicarb sulfoxide	ND	10	9.94	ug/L	99	(70-130)		
MSD_201211290210	Aldicarb sulfoxide	ND	10	9.06	ug/L	91	(70-130)	20	9.3
CCCH	Baygon		25	25.0	ug/L	100	(70-130)		
CCCM	Baygon		10	10.0	ug/L	100	(70-130)		
LCS1	Baygon		10	9.88	ug/L	99	(70-130)		
MBLK	Baygon			<0.16	ug/L				
MRL_CHK	Baygon		0.5	0.540	ug/L	108	(50-150)		
MS_201211290210	Baygon	ND	10	10.2	ug/L	102	(70-130)		
MSD_201211290210	Baygon	ND	10	10.3	ug/L	103	(70-130)	20	0.98
CCCH	Carbaryl		25	25.4	ug/L	101	(70-130)		
CCCM	Carbaryl		10	9.66	ug/L	97	(70-130)		
LCS1	Carbaryl		10	10.3	ug/L	103	(70-130)		
MBLK	Carbaryl			<0.16	ug/L				
MRL_CHK	Carbaryl		0.5	0.473	ug/L	95	(50-150)		
MS_201211290210	Carbaryl	ND	10	9.81	ug/L	98	(70-130)		
MSD_201211290210	Carbaryl	ND	10	9.88	ug/L	99	(70-130)	20	0.71
CCCH	Carbofuran (Furadan)		25	24.7	ug/L	99	(70-130)		
CCCM	Carbofuran (Furadan)		10	10.4	ug/L	104	(70-130)		
LCS1	Carbofuran (Furadan)		10	9.93	ug/L	99	(70-130)		
MBLK	Carbofuran (Furadan)			<0.16	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.479	ug/L	96	(50-150)		
MS_201211290210	Carbofuran (Furadan)	ND	10	10.1	ug/L	101	(70-130)		
MSD_201211290210	Carbofuran (Furadan)	ND	10	10.4	ug/L	104	(70-130)	20	2.9
CCCH	Methiocarb		25	24.0	ug/L	96	(70-130)		
CCCM	Methiocarb		10	9.81	ug/L	98	(70-130)		
LCS1	Methiocarb		10	10.1	ug/L	101	(70-130)		
MBLK	Methiocarb			<0.16	ug/L				
MRL_CHK	Methiocarb		0.5	0.358	ug/L	72	(50-150)		
MS_201211290210	Methiocarb	ND	10	9.36	ug/L	94	(70-130)		
MSD_201211290210	Methiocarb	ND	10	9.11	ug/L	91	(70-130)	20	2.7
CCCH	Methomyl		25	24.4	ug/L	98	(70-130)		
CCCM	Methomyl		10	10.1	ug/L	101	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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formerly MWH Laboratories

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1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 417035

Columbia Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Methomyl		10	10.2	ug/L	102	(70-130)		
MBLK	Methomyl			<0.16	ug/L				
MRL_CHK	Methomyl		0.5	0.470	ug/L	94	(50-150)		
MS_201211290210	Methomyl	ND	10	9.16	ug/L	92	(70-130)		
MSD_201211290210	Methomyl	ND	10	9.44	ug/L	94	(70-130)	20	3.0
CCCH	Oxamyl (Vydate)		25	25.1	ug/L	100	(70-130)		
CCCM	Oxamyl (Vydate)		10	10.7	ug/L	107	(70-130)		
LCS1	Oxamyl (Vydate)		10	10.1	ug/L	101	(70-130)		
MBLK	Oxamyl (Vydate)			<0.16	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.462	ug/L	92	(50-150)		
MS_201211290210	Oxamyl (Vydate)	ND	10	9.49	ug/L	95	(70-130)		
MSD_201211290210	Oxamyl (Vydate)	ND	10	11.0	ug/L	110	(70-130)	20	15

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Analysis Report Cover

Final Report

A Professional Service Corporation in the Northwest

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

Job Number: 121368 **SEA**
Client: ALS Laboratory Group
Address: 1317 13th Avenue
Kelso, WA 98626
Project Name:
Project No.: K1211802
PO Number: K1211802
PWS ID:
Reference No.:

Report Number: 121368R01
Report Date: 12/3/2012

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
121368 - S1	K1211802-001 - DW-1, WA Water ID#: 119-15407	EPA 100.2 - Potable Water		11/28/2012
121368 - S2	K1211802-002 - DW-7, WA Water ID#: 119-15408	EPA 100.2 - Potable Water		11/28/2012

EPA 100.2 - Potable Water

Preparation and analysis of the above samples was conducted in accordance with the EPA method #100.2. In this method, samples are taken from an affected water supply to measure the amount of asbestos contamination in the system. Samples received 48 hours after collection, or with a sample received temperature greater than 10ºC, are subjected to ozone/UV treatment.

Each sample was shaken, then sonicated briefly in a Branson 2200 sonicator to distribute particulate evenly. Several aliquots were filtered onto 0.22 µm, 25 mm diameter mixed cellulose ester filters. Briefly, the samples were collapsed with a solution of N,N-dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

Each aliquot was examined at low magnification to determine the best particulate loading for analysis. Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 10,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer

The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

X

Derk Wipprecht
Laboratory Supervisor

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Seattle, WA 98117

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EPA 100.2 - Potable Water Summary Data

Job Number: 121368 **SEA**
Client: ALS Laboratory Group
Project Name:

Report Number: 121368R01
Date Received: 11/28/2012

Lab/Cor Sample No.: S1
Client Sample No.: K1211802-001
Description: DW-1, WA Water ID#: 119-15407
Filter Fraction: 1 **Aliquot Dilution:** 1
Volume Taken: 3 **Final Dilution:** 1

Sample Area/Mass/Volume (L) : 1
Lab Filter Area (mm2) : 193
Grid Openings Analyzed : 20
Average Grid Opening Area : 0.0097
Area Analyzed (mm2) : 0.194
Analytical Sens. (struc/MFL>10-um) : 0.332
Detection Limit. (struc/MFL>10-um) : 0.992

Analyst(s)	Analysis Date	Microscope	Magnification
DW	12/3/2012	Philips 410	10000

Structure Type	Concen-tration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count[1] Prim/Total	
TEM Water Amphibole	< 0.332	0 - 1.223 - Poisson	0	
TEM Water Chrysotile	< 0.332	0 - 1.223 - Poisson	0	
TEM Water Total	< 0.332	0 - 1.223 - Poisson	0	

Lab/Cor Sample No.: S2
Client Sample No.: K1211802-002
Description: DW-7, WA Water ID#: 119-15408
Filter Fraction: 1 **Aliquot Dilution:** 1
Volume Taken: 3 **Final Dilution:** 1

Sample Area/Mass/Volume (L) : 1
Lab Filter Area (mm2) : 193
Grid Openings Analyzed : 20
Average Grid Opening Area : 0.0097
Area Analyzed (mm2) : 0.194
Analytical Sens. (struc/MFL>10-um) : 0.332
Detection Limit. (struc/MFL>10-um) : 0.992

Analyst(s)	Analysis Date	Microscope	Magnification
DW	12/3/2012	Philips 410	10000

Structure Type	Concen-tration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count[1] Prim/Total	
TEM Water Amphibole	< 0.332	0 - 1.223 - Poisson	0	
TEM Water Chrysotile	< 0.332	0 - 1.223 - Poisson	0	
TEM Water Total	< 0.332	0 - 1.223 - Poisson	0	

Reviewed by:

X

Derk Wipprecht
Laboratory Supervisor

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

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EPA 100.2 - Potable Water Raw Data

Job Number: 121368 **SEA**
Client: ALS Laboratory Group
Project Name:
Project No.: K1211802

Report Number: 121368R01
Date Received: 11/28/2012

Lab/Cor Sample No: S1
Client Sample No: K1211802-001
Description: DW-1, WA Water ID#: 119-15407

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	1	C31				NSD							
G5	2	C32				NSD							
G5	3	E31				NSD							
G5	4	E32				NSD							
G5	5	F31				NSD							
G5	6	F32				NSD							
G5	7	G31				NSD							
G5	8	G32				NSD							
G5	9	H31				NSD							
G5	10	H32				NSD							
G6	11	C33				NSD							
G6	12	C34				NSD							
G6	13	E33				NSD							
G6	14	E34				NSD							
G7	15	F31				NSD							
G7	16	F32				NSD							
G7	17	G31				NSD							
G7	18	G32				NSD							
G7	19	H31				NSD							
G7	20	H32				NSD							

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EPA 100.2 - Potable Water Raw Data

Job Number: 121368 **SEA**
Client: ALS Laboratory Group
Project Name:
Project No.: K1211802

Report Number: 121368R01
Date Received: 11/28/2012

Lab/Cor Sample No: S2
Client Sample No: K1211802-002
Description: DW-7, WA Water ID#: 119-15408

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	B31				NSD							
G4	2	B32				NSD							
G4	3	C31				NSD							
G4	4	C32				NSD							
G4	5	E31				NSD							
G4	6	E32				NSD							
G4	7	F31				NSD							
G4	8	F32				NSD							
G4	9	G33				NSD							
G4	10	G34				NSD							
G5	11	E33				NSD							
G5	12	E34				NSD							
G5	13	F33				NSD							
G5	14	F34				NSD							
G5	15	G33				NSD							
G6	16	E31				NSD							
G6	17	E32				NSD							
G6	18	F31				NSD							
G6	19	F32				NSD							
G6	20	G31				NSD							

Count Categories

Water_Amph	TEM Water Amphibole	WATER_Chrys	TEM Water Chrysotile	WATER_Total	TEM Water Total

Reviewed by:

X

Derk Wipprecht
Laboratory Supervisor

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Seattle, WA 98117

Analysis Report Cover

Final Report

A Professional Service Corporation in the Northwest

Phone: (206) 781-0155
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Job Number: 121370 **SEA**
Client: ALS Laboratory Group
Address: 1317 13th Avenue
Kelso, WA 98626
Project Name:
Project No.: K1211802
PO Number: K1211802
PWS ID:
Reference No.:

Report Number: 121370R01
Report Date: 12/6/2012

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
121370 - S1	K1211802-004 - DW-6, WA Water ID#: 119-15411	EPA 100.2 - Potable Water		11/29/2012
121370 - S2	K1211802-005 - DW-5, WA Water ID#: 119-15412	EPA 100.2 - Potable Water		11/29/2012
121370 - S3	K1211802-006 - DW-2, WA Water ID#: 119-15413	EPA 100.2 - Potable Water		11/29/2012
121370 - S4	K1211802-007 - DUP-1, WA Water ID#: 119-15414	EPA 100.2 - Potable Water		11/29/2012

EPA 100.2 - Potable Water

Preparation and analysis of the above samples was conducted in accordance with the EPA method #100.2. In this method, samples are taken from an affected water supply to measure the amount of asbestos contamination in the system. Samples received 48 hours after collection, or with a sample received temperature greater than 10ºC, are subjected to ozone/UV treatment.

Each sample was shaken, then sonicated briefly in a Branson 2200 sonicator to distribute particulate evenly. Several aliquots were filtered onto 0.22 µm, 25 mm diameter mixed cellulose ester filters. Briefly, the samples were collapsed with a solution of N,N-dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

Each aliquot was examined at low magnification to determine the best particulate loading for analysis. Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 10,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer

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If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

X

Derk Wipprecht
Laboratory Supervisor

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EPA 100.2 - Potable Water Summary Data

Job Number: 121370 **SEA**
Client: ALS Laboratory Group
Project Name:

Report Number: 121370R01
Date Received: 11/29/2012

Lab/Cor Sample No.: S1
Client Sample No.: K1211802-004
Description: DW-6, WA Water ID#: 119-15411
Filter Fraction: 1 **Aliquot Dilution:** 1
Volume Taken: 0.5 **Final Dilution:** 1

Sample Area/Mass/Volume (ml) : 800
Lab Filter Area (mm2) : 193
Grid Openings Analyzed : 20
Average Grid Opening Area : 0.0091
Area Analyzed (mm2) : 0.182
Analytical Sens. (struc/MFL>10-um) : 2.121
Detection Limit. (struc/MFL>10-um) : 6.341

Analyst(s)	Analysis Date	Microscope	Magnification
DW	12/6/2012	Philips 410	10000

Structure Type	Concen-tration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count[1] Prim/Total	
TEM Water Amphibole	< 2.121	0 - 7.824 - Poisson	0	
TEM Water Chrysotile	< 2.121	0 - 7.824 - Poisson	0	
TEM Water Total	< 2.121	0 - 7.824 - Poisson	0	

Lab/Cor Sample No.: S2
Client Sample No.: K1211802-005
Description: DW-5, WA Water ID#: 119-15412
Filter Fraction: 1 **Aliquot Dilution:** 1
Volume Taken: 40 **Final Dilution:** 1

Sample Area/Mass/Volume (ml) : 800
Lab Filter Area (mm2) : 193
Grid Openings Analyzed : 4
Average Grid Opening Area : 0.0091
Area Analyzed (mm2) : 0.0364
Analytical Sens. (struc/MFL>10-um) : 0.133
Detection Limit. (struc/MFL>10-um) : 0.396

Analyst(s)	Analysis Date	Microscope	Magnification
DW	12/6/2012	Philips 410	10000

Structure Type	Concen-tration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count[1] Prim/Total	
TEM Water Amphibole	< 0.133	0 - 0.489 - Poisson	0	
TEM Water Chrysotile	< 0.133	0 - 0.489 - Poisson	0	
TEM Water Total	< 0.133	0 - 0.489 - Poisson	0	

Lab/Cor Sample No.: S3
Client Sample No.: K1211802-006
Description: DW-2, WA Water ID#: 119-15413
Filter Fraction: 1 **Aliquot Dilution:** 1
Volume Taken: 10 **Final Dilution:** 1

Sample Area/Mass/Volume (ml) : 800
Lab Filter Area (mm2) : 193
Grid Openings Analyzed : 11
Average Grid Opening Area : 0.0091
Area Analyzed (mm2) : 0.1001
Analytical Sens. (struc/MFL>10-um) : 0.193
Detection Limit. (struc/MFL>10-um) : 0.576

Analyst(s)	Analysis Date	Microscope	Magnification
DW	12/6/2012	Philips 410	10000

Structure Type	Concen-tration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count[1] Prim/Total	
TEM Water Amphibole	< 0.193	0 - 0.711 - Poisson	0	
TEM Water Chrysotile	< 0.193	0 - 0.711 - Poisson	0	
TEM Water Total	< 0.193	0 - 0.711 - Poisson	0	

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

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EPA 100.2 - Potable Water Summary Data

Job Number: 121370 **SEA**
Client: ALS Laboratory Group
Project Name:

Report Number: 121370R01
Date Received: 11/29/2012

Lab/Cor Sample No.: S4
Client Sample No.: K1211802-007
Description: DUP-1, WA Water ID#: 119-15414
Filter Fraction: 1 **Aliquot Dilution:** 1
Volume Taken: 10 **Final Dilution:** 1

Sample Area/Mass/Volume (ml) : 800
Lab Filter Area (mm2) : 193
Grid Openings Analyzed : 11
Average Grid Opening Area : 0.0091
Area Analyzed (mm2) : 0.1001
Analytical Sens. (struc/MFL>10-um) : 0.193
Detection Limit. (struc/MFL>10-um) : 0.576

Analyst(s)	Analysis Date	Microscope	Magnification
DW	12/6/2012	Philips 410	10000

Structure Type	Concen-tration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count[1] Prim/Total	
TEM Water Amphibole	< 0.193	0 - 0.711 - Poisson	0	
TEM Water Chrysotile	< 0.193	0 - 0.711 - Poisson	0	
TEM Water Total	< 0.193	0 - 0.711 - Poisson	0	

Reviewed by:

X

Derk Wipprecht
Laboratory Supervisor

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

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EPA 100.2 - Potable Water Raw Data

Job Number: 121370 **SEA**
Client: ALS Laboratory Group
Project Name:
Project No.: K1211802

Report Number: 121370R01
Date Received: 11/29/2012

Lab/Cor Sample No: S1
Client Sample No: K1211802-004
Description: DW-6, WA Water ID#: 119-15411

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	1	B41				NSD							
G5	2	B42				NSD							
G5	3	C41				NSD							
G5	4	C42				NSD							
G5	5	E41				NSD							
G5	6	E42				NSD							
G5	7	F41				NSD							
G5	8	F42				NSD							
G5	9	G41				NSD							
G5	10	G42				NSD							
G5	11	H41				NSD							
G5	12	H42				NSD							
G5	13	K41				NSD							
G5	14	K42				NSD							
G6	15	C33				NSD							
G6	16	C34				NSD							
G6	17	E33				NSD							
G7	18	F31				NSD							
G7	19	F32				NSD							
G7	20	G31				NSD							

Lab/Cor Sample No: S2
Client Sample No: K1211802-005
Description: DW-5, WA Water ID#: 119-15412

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G9	1	F31				NSD							
G9	2	F32				NSD							
G10	3	C33				NSD							
G11	4	F41				NSD							

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EPA 100.2 - Potable Water Raw Data

Job Number: 121370 **SEA**
Client: ALS Laboratory Group
Project Name:
Project No.: K1211802

Report Number: 121370R01
Date Received: 11/29/2012

Lab/Cor Sample No: S3
Client Sample No: K1211802-006
Description: DW-2, WA Water ID#: 119-15413

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	1	C31				NSD							
G5	2	C32				NSD							
G5	3	E31				NSD							
G5	4	E32				NSD							
G5	5	F31				NSD							
G5	6	F32				NSD							
G5	7	G31				NSD							
G6	8	E31				NSD							
G6	9	E32				NSD							
G7	10	F43				NSD							
G7	11	F44				NSD							

Lab/Cor Sample No: S4
Client Sample No: K1211802-007
Description: DUP-1, WA Water ID#: 119-15414

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	1	C32				NSD							
G5	2	E31				NSD							
G5	3	E32				NSD							
G5	4	F31				NSD							
G5	5	F32				NSD							
G5	6	G31				NSD							
G5	7	G32				NSD							
G6	8	H33				NSD							
G6	9	H34				NSD							
G7	10	E41				NSD							
G7	11	E42				NSD							

Count Categories

Water_Amph	TEM Water Amphibole	WATER_Chrys	TEM Water Chrysotile	WATER_Total	TEM Water Total

Reviewed by:

X

Derk Wipprecht
Laboratory Supervisor

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Final Report

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Job Number: 121374 **SEA**
Client: ALS Laboratory Group
Address: 1317 13th Avenue
Kelso, WA 98626
Project Name:
Project No.: K1211802
PO Number: K1211802
PWS ID:
Reference No.:

Report Number: 121374R01
Report Date: 12/6/2012

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
121374 - S1	K1211802-009 - DW-9, WA Water ID#: 119-15430	EPA 100.2 - Potable Water		11/30/2012

EPA 100.2 - Potable Water

Preparation and analysis of the above samples was conducted in accordance with the EPA method #100.2. In this method, samples are taken from an affected water supply to measure the amount of asbestos contamination in the system. Samples received 48 hours after collection, or with a sample received temperature greater than 10ºC, are subjected to ozone/UV treatment.

Each sample was shaken, then sonicated briefly in a Branson 2200 sonicator to distribute particulate evenly. Several aliquots were filtered onto 0.22 µm, 25 mm diameter mixed cellulose ester filters. Briefly, the samples were collapsed with a solution of N,N-dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

Each aliquot was examined at low magnification to determine the best particulate loading for analysis. Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 10,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer

The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

X

Derk Wipprecht
Laboratory Supervisor

Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Final Report

Phone: (206) 781-0155
Fax: (206) 789-8424
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EPA 100.2 - Potable Water Summary Data

Job Number: 121374 **SEA**
Client: ALS Laboratory Group
Project Name:

Report Number: 121374R01
Date Received: 11/30/2012

Lab/Cor Sample No.: S1
Client Sample No.: K1211802-009
Description: DW-9, WA Water ID#: 119-15430
Filter Fraction: 1 **Aliquot Dilution:** 1
Volume Taken: 10 **Final Dilution:** 1

Sample Area/Mass/Volume (ml) : 800
Lab Filter Area (mm2) : 193
Grid Openings Analyzed : 11
Average Grid Opening Area : 0.0091
Area Analyzed (mm2) : 0.1001
Analytical Sens. (struc/MFL>10-um) : 0.193
Detection Limit. (struc/MFL>10-um) : 0.576

Analyst(s)	Analysis Date	Microscope	Magnification
DW	12/6/2012	Philips 410	10000

Structure Type	Concen-tration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count[1] Prim/Total	
TEM Water Amphibole	< 0.193	0 - 0.711 - Poisson	0	
TEM Water Chrysotile	< 0.193	0 - 0.711 - Poisson	0	
TEM Water Total	< 0.193	0 - 0.711 - Poisson	0	

Reviewed by:

X

Derk Wipprecht
Laboratory Supervisor

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

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EPA 100.2 - Potable Water Raw Data

Job Number: 121374 **SEA**
Client: ALS Laboratory Group
Project Name:
Project No.: K1211802

Report Number: 121374R01
Date Received: 11/30/2012

Lab/Cor Sample No: S1
Client Sample No: K1211802-009
Description: DW-9, WA Water ID#: 119-15430

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	1	B31				NSD							
G5	2	B32				NSD							
G5	3	C31				NSD							
G5	4	C32				NSD							
G5	5	E31				NSD							
G5	6	E33				NSD							
G6	7	C33				NSD							
G6	8	C34				NSD							
G7	9	E33				NSD							
G7	10	E34				NSD							
G7	11	F33				NSD							

Count Categories

Water_Amph	TEM Water Amphibole	WATER_Chrys	TEM Water Chrysotile	WATER_Total	TEM Water Total

Reviewed by:

X

Derk Wipprecht
Laboratory Supervisor