Technical Memorandum
Groundwater Quality Sampling, May 2011 Event

Date: 7 September 2011

To: Amy Blain
City of Longview

From: Steve Misner
Kennedy/Jenks Consultants

Subject: City of Longview
Groundwater Quality Sampling Results, May 2011 Monitoring Event
K/J 0997003*01

This memorandum summarizes the results of the groundwater monitoring and sampling event conducted in May 2011 in the Mint Farm Industrial Park well field area (Mint Farm). The groundwater monitoring and sampling is 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 well field. Groundwater samples are 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 contaminate migration from those industries. Groundwater monitoring will continue during full-scale water production, most likely on a semiannual basis.

ACTIVITIES CONDUCTED DURING THE MAY 2011 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 10 and 11 May 2011. The groundwater samples were collected following purging and stabilization of pH, temperature, conductivity, and dissolved oxygen.

- Submitting the groundwater samples to a certified laboratory for analysis of total metals using Environmental Protection Agency (EPA) Method E200.7 and E200.8, semi-volatile organic compounds (SVOCs) using EPA Method 525.2, and volatile organic compounds (VOCs) using EPA Method 524.2.

- Downloading water level data from the pressure transducers in all 17 sentinel wells and the Prudential Boulevard well. Production well PW-1 was not accessible because of construction activities so the transducer was not downloaded.

- Processing the downloaded transducer data, developing shallow and deep groundwater elevation contour maps for March 2011, and generating hydrographs for the wells for summer 2009 through Spring 2011.

- Preparing this summary technical memorandum.

RESULTS OF GROUNDWATER MONITORING

Groundwater Elevation Contour Maps and Hydrographs

Figures 1 and 2 are, respectively, shallow aquifer and deep aquifer groundwater elevation contour maps representing a snapshot of conditions on 15 March 2011. Water level data is continuously collected in each sentinel well using pressure transducers. Although water level data was most recently downloaded from the transducers in May 2011, the data must be evaluated and corrected to account for the tidal influence. 15 March 2011 was chosen as a representative data set for the purpose of reporting dampened conditions for the reporting period. 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 15 March 2011 shows that groundwater in the shallow system primarily flows radially toward the CDID drainage canals around the Mint Farm area. An evaluation of the deep aquifer groundwater elevation contours for the March period indicates that the gradient in the vicinity of the well field is relatively low, with a predominant flow direction toward the east. However, in the south-central portion of the Mint Farm area a slight mounding is also inferred which causes localized variations in flow direction.

The groundwater hydrographs for all of the shallow sentinel wells are presented on Figure 3 and the hydrographs for all of the deep sentinel wellsand the Prudential Boulevard well are presented on Figure 4.

Groundwater Sampling Results

The groundwater analytical results of only detected constituents are summarized in Table 1. Potentially applicable screening standards are presented in Table 1 for comparison purposes. The laboratory analytical report is included in Attachment A.

No VOCs or SVOCs were detected in any of the primary samples collected during this sampling event using the analytical methods established for this project. A duplicate sample collected from sentinel well DW-6 (DUP-1) contained bis (2-ethylhexyl) phthalate at a concentration slightly above the laboratory detection limit. Phthalates are a common laboratory contaminant and the likely source of the detection. None of the concentrations of the detected total metals exceeded the screening values.

DATA QUALITY

To confirm the sampling and analysis methods were uncompromised, the duplicate groundwater sample (DUP-1) was analyzed and found to be generally consistent with the primary sample results.

The trip blank (trip blank) and equipment rinsate blank (QCFB-1-110511) samples submitted for analysis did not contain VOCs. 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 CAS is included as part of the lab report in Attachment A.

FUTURE SAMPLING ACTIVITIES

Groundwater monitoring will continue 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 well field. The next groundwater monitoring event will be conducted in the third quarter of 2011. Pressure transducer data will be downloaded on a quarterly basis.

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.

Tables

Table 1: Detected Constituents in Groundwater

Detected Constituents in Groundwater in Micrograms per Liter

Well Identification	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Total	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Thallium	Uranium	Zinc
DW-1	06/09/09	4.3	0.05 U[a]	2.44	12	0.004 B[b]	0.004 B	20,200	0.2 U	0.06 B	2,250	0.02 U	4,740	605	0.74	2,730	1.0 U	23,400	0.017 B	8,650	0.02 U	0.02 U	1.8 B
	11/11/09	1.0 J[c]	0.05 U	3.77	11.4	0.008 J	0.02 U	21,500	0.27	0.08 J	2,370	0.02 U	4,810	548	0.57	2,650	1.0 U	24,500	0.02 U	8,850	0.003 J	0.02 U	2.0 U
	05/19/10	2.1	0.05 U	3.9	11.3	0.02 U	0.02 U	20,300	0.2 U	0.2	2,290	0.02 U	5,020	552	0.4	2,650	1.0 U	25,500	0.02 U	8,880	0.02 U	0.02 U	2.0 U
	11/19/10	2.0 U	0.05 U	4.5	11.8	0.02 U	0.02 U	21,600	0.2 U	0.2 U	2,490	0.02 U	5,120	616	0.6	2,730	1.0 U	27,000	0.02 U	8,570	0.02 U	0.02 U	2.0 U
	05/10/11	2.8 U	0.05 U	4.1	11.4	0.02 U	0.02 U	21,600	0.2 U	0.2	2,370	0.02 U	5,090	556	0.7	2,770	1.0 U	26,000	0.02 U	8,940	0.02 U	0.02 U	2.0 U
DW-2	06/12/09	435	0.07	4.88	27.7	0.021	0.039	27,000	0.63	0.8	895	0.177	8,660	216	1.26	5,610	1.0 U	17,900	0.016 B	14,000	0.004 B	0.015 B	1.3 B
	05/19/10	64.0	0.05 U	5.2	24.1	0.02 U	0.02 U	30,600	0.2 U	0.2	571	0.04	10,500	257	0.6	5,750	1.0 U	19,900	0.02 U	15,500	0.02 U	0.02 U	2.0 U
	11/19/10	16.6	0.05 U	7.7	25.1	0.02 U	0.02 U	33,300	0.2 U	0.2 U	547	0.02 U	11,000	287	0.9	5,910	1.0 U	21,100	0.02 U	15,100	0.02 U	0.02 U	2.0 U
	05/10/11	14.6	0.05 U	8.5	23.4	0.02 U	0.02 U	32,500	0.2 U	0.2	535	0.02 U	10,700	273	1.1	5,840	1.0 U	21,700	0.02 U	15,300	0.02 U	0.02 U	2.0 U
DW-5	06/11/09	23.2	0.05 U	3.75	13.2	0.004 B	0.005 B	26,400	0.04 B	0.04 B	308	0.02 U	8,070	233	0.96	4,050	1.0 U	20,400	0.02 U	12,000	0.02 U	0.004 B	2.0 U
	05/20/10	2.7	0.05 U	5.4	13.9	0.02 U	0.02 U	31,400	0.2 U	0.1 U	404	0.02 U	10,000	287	0.5	4,350	1.0 U	23,000	0.02 U	12,300	0.02 U	0.02 U	2.0 U
	05/20/10	2.2	0.05 U	5.4	13.9	0.02 U	0.02 U	31,100	0.2 U	0.1 U	405	0.02 U	9,990	286	0.6	4,280	1.0 U	22,800	0.02 U	12,300	0.02 U	0.02 U	2.0 U
	11/18/10	2.4	0.05 U	6.7	15.4	0.02 U	0.02 U	34,000	0.2 U	0.1 U	451	0.02 U	10,700	319	0.9	4,610	1.0 U	23,700	0.02 U	12,400	0.02 U	0.02 U	2.0 U
	05/10/11	2.0 U	0.05 U	6.5	14.8	0.02 U	0.02 U	34,600	0.2 U	0.3	403	0.02 U	10,800	297	1.1	4,610	1.0 U	23,800	0.02 U	12,700	0.02 U	0.02 U	2.0 U
DW-6	06/10/09	47.6	0.03 B	2.29	12.5	0.008 B	0.007 B	24,100	0.05 B	0.05 B	450	0.033	6,270	371	0.91	3,670	1.0 U	21,100	0.02 U	10,800	0.02 U	0.025	1.6 B
	05/20/10	49.2	0.05 U	3.8	14.1	0.02 U	0.02 U	28,400	0.2 U	0.1 U	580	0.07	7,990	432	0.6	3,900	1.0 U	23,800	0.02 U	10,900	0.02 U	0.04	2.0 U
	11/18/10	2.0 U	0.05 U	5.1	15.0	0.02 U	0.02 U	31,000	0.2 U	0.1 U	593	0.02 U	8,380	487	0.8	4,090	1.0 U	25,000	0.02 U	10,900	0.02 U	0.02 U	2.0 U
	11/18/10	3.0	0.05 U	5.2	15.0	0.02 U	0.02 U	31,000	0.2 U	0.1 U	593	0.02 U	8,370	483	0.8	4,100	1.0 U	24,900	0.02 U	10,900	0.02 U	0.02 U	2.0
	05/10/11	2.0 U	0.05 U	4.9	15.5	0.02 U	0.02 U	33,400	0.2 U	0.2	617	0.02 U	9,210	493	1.1	4,390	1.0 U	25,600	0.02 U	11,800	0.02 U	0.02 U	2.0 U
	05/10/11	2.0 U	0.05 U	4.7	15.4	0.02 U	0.02 U	34,600	0.2 U	0.2	639	0.02 U	9,140	501	1.1	4,390	1.0 U	25,400	0.02 U	11,700	0.02 U	0.02 U	2.0 U
DW-7	06/10/09	4.7	0.05 U	2.95	12.9	0.02 U	0.005 B	20,800	0.13 B	0.05 B	1,220	0.02 U	4,950	671	0.77	3,010	1.0 U	23,200	0.01 B	8,990	0.02 U	0.02 U	1.7 B
	11/12/09	0.9 J	0.05 U	4.3	11.1	0.005 J	0.02 U	21,600	0.17 J	0.05 J	1,220	0.02 U	4,950	662	0.61	2,950	1.0 U	24,200	0.005 J	8,620	0.004 J	0.02 U	2.0 U
	05/20/10	2.0 U	0.05 U	4.4	10.9	0.02 U	0.02 U	20,800	0.2 U	0.1 U	1,210	0.02 U	5,130	660	0.4	2,940	1.0 U	25,100	0.02 U	8,820	0.02 U	0.02 U	2.0 U
	11/19/10	2.0 U	0.05 U	5.1	10.9	0.02 U	0.02 U	21,000	0.2 U	0.1 U	1,210	0.02 U	5,090	655	0.6	2,990	1.0 U	25,300	0.02 U	8,530	0.02 U	0.02 U	2.0 U
	05/10/11	2.0 U	0.05 U	4.9	10.8	0.02 U	0.02 U	22,400	0.2 U	1.2	1,260	0.36	5,340	672	0.8	3,140	1.0 U	26,000	0.02 U	8,920	0.02 U	0.02 U	3.8
DW-9	08/13/09	23.2	0.05 U,N[d]	3.46	13.8	0.005 B	0.006 B	26,500	0.73	0.3	1,060	0.05	6,500	587	1.68	3,620	1.0 U	24,600	0.009 B	10,300	0.02 U	0.003 B	3.6
	11/12/09	2.5	0.05 U	4.14	10.2	0.004 J	0.02 U	22,600	0.17 J	0.07 J	637	0.02 U	5,010	513	0.63	3,200	1.0 U	25,300	0.02 U	8,890	0.02 U	0.02 U	2.0 U
	05/19/10	4.3	0.05 U	4.5	11.4	0.02 U	0.03	23,400	0.2 U	0.1 U	688	0.02	5,700	550	0.5	3,360	1.0 U	25,900	0.02 U	9,450	0.02 U	0.02 U	2.0 U
	11/18/10	2.0 U	0.05 U	6.0	12.9	0.02 U	0.02 U	26,600	0.2 U	0.1 U	795	0.02 U	6,210	639	0.8	3,600	1.0 U	26,900	0.02 U	9,590	0.02 U	0.02 U	2.2
	05/11/11	2.0 U	0.05 U	5.9	12.4	0.02 U	0.02 U	26,700	0.2 U	0.2	784	0.02 U	6,380	604	0.9	3,710	1.0 U	27,800	0.02 U	10,100	0.02 U	0.02 U	2.0 U
PW-1	04/23/10	2.0 U	0.05 U	4.1	12.1	0.02 U	0.02 U	22,500	0.2 U	0.1 U	2,120	0.02 U	5,200	550	0.4	3,100	1.0 U	24,900	0.02 U	8,750	0.02 U	0.02 U	2.0 U
Screening Level		37,000[e]	6[f]	10[f]	2,000[f]	4[f]	5[f]	NE[g]	100[f]	1,300[f]	26,000[e]	15[f]	NE	2,200[h]	100[f]	NE	50[f]	NE	50[f]	NE	2[f]	30[f]	4,800[h]
Chemical Abstract Service Number		7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-70-2	7440-47-3	7440-50-8	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7440-02-0	7440-09-7	7782-49-2	SI	7440-22-4	7440-23-5	7440-28-0	U	7440-66-6

Notes:

(a) U = The analyte was analyzed for, but was not detected ("Non-detect") at or above the Method Reporting Limit/Method Detection Limit.
(b) 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 and NELAC standards.
(c) J = The result is an estimated value that was detected outside the quantitation range.
(d) N = The matrix spike sample recovery is not within control limits. Recoveries in the laboratory control sample were acceptable, which indicates the analytical batch was in control.
(e) U.S. Environmental Protection Agency (EPA) Risk Screening Level (RSL)
(f) EPA Maximum Contaminant Level (MCL)
(g) NE = Not Established
(h) Department of Ecology Model Toxics Control Act (MTCA) Method B
(i) Washington Administrative Code (WAC) 173-200-040 Table 1 Groundwater Quality Criteria

Figures

Path:Z:\Projects\Longview\Events\20110711_March_GW_Elev\MXD\GW_Elev_Shallow.mxd

Aerial Source: (c)2009 Microsoft Corporation

Legend

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

Note: Contours shown on this map represent the water level elevation for 3/15/2011.

N

0 600 1,200

Scale: Feet

Contour Interval: 1.0 Foot

Kennedy/Jenks Consultants

Mint Farm RWTP
Longview, Washington

Shallow Aquifer Groundwater Map
March 15, 2011 Groundwater Elevations

KJ 0997003*01

Figure 1

Path:Z:\Projects\Longview\Events\20110711_March_GW_Elev\MXD\GW_Elev_Deep.mxd

Aerial Source: (c)2009 Microsoft Corporation

Legend

- Monitoring Well (Groundwater Elevation)
- Groundwater Contours

Note: Contours shown on this map represent the water level elevations for 3/15/2011.
N/A = Not Applicable

N

0 600 1,200

Scale: Feet

Contour Interval: 0.2 Foot

Kennedy/Jenks Consultants

Mint Farm RWTP
Longview, Washington

Deep Aquifer Groundwater Map
March 15, 2011 Groundwater Elevations

KJ 0997003*01

Figure 2

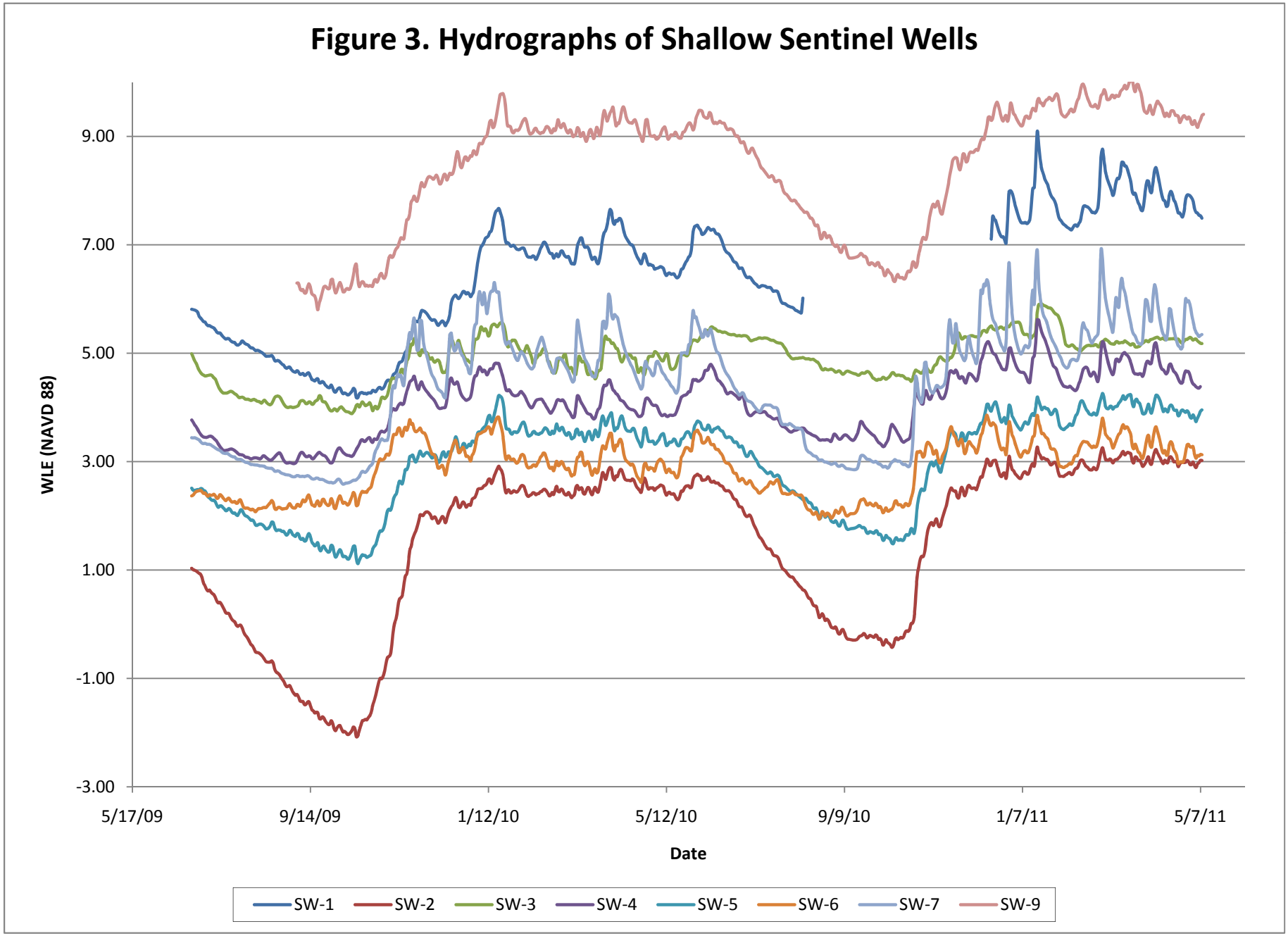
Figure 3. Hydrographs of Shallow Sentinel Wells
WLE (NAVD 88)
9.00
7.00
5.00
3.00
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-1.00
-3.00
5/17/09
9/14/09
1/12/10
5/12/10
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SW-6
SW-7
SW-9

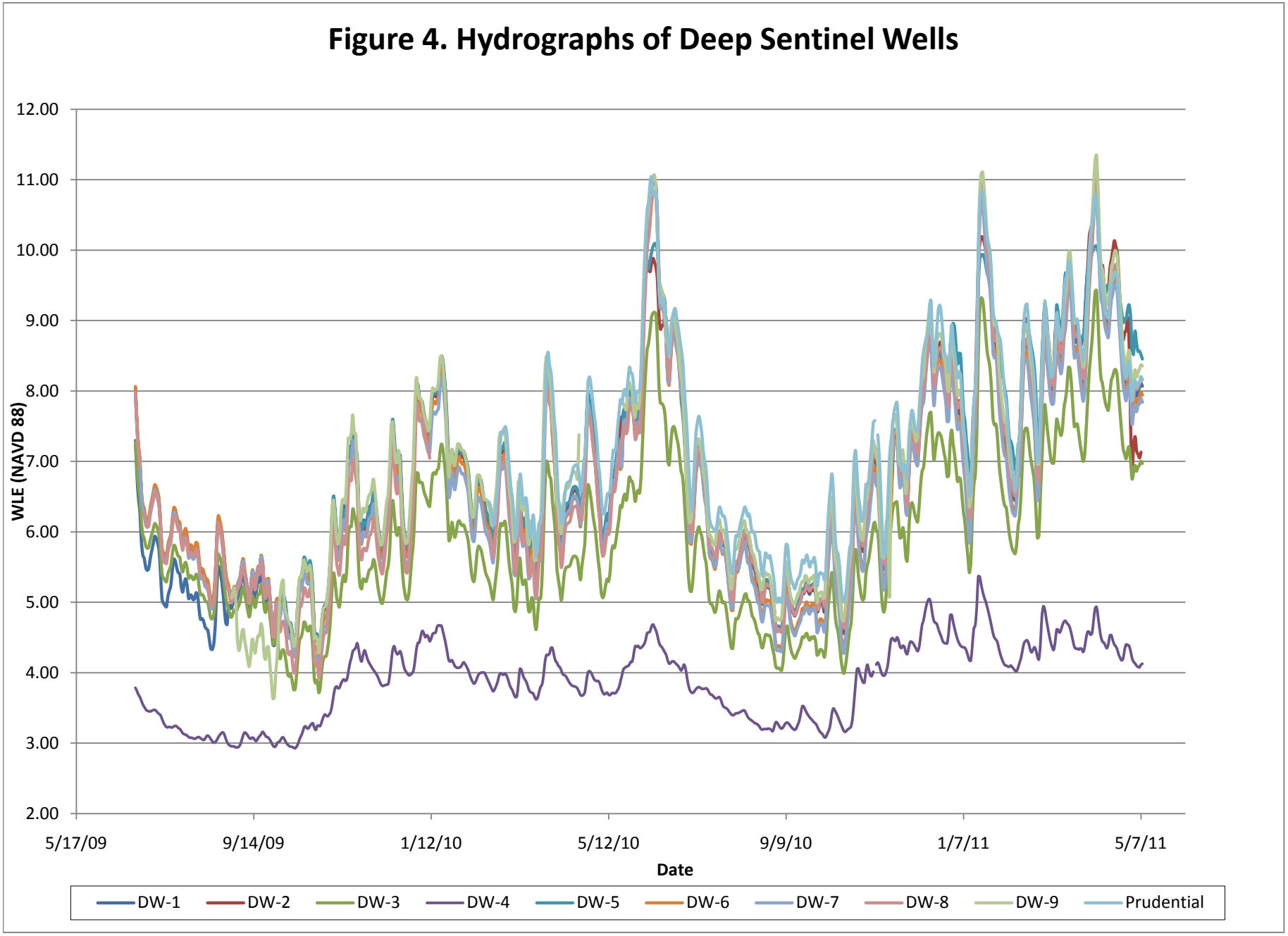
Figure 4. Hydrographs of Deep Sentinel Wells
12.00
11.00
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3.00
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WLE (NAVD 88)
5/17/09
9/14/09
1/12/10
5/12/10
9/9/10
1/7/11
5/7/11
Date
DW-1
DW-2
DW-3
DW-4
DW-5
DW-6
DW-7
DW-8
DW-9
Prudential

Appendix A

Laboratory Analytical Reports

Columbia Analytical Services™ 1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

June 7, 2011 Analytical Report for Service Request No: K1104181

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

RE: Longview/0997003.01

Dear Steven:

Enclosed are the results of the samples submitted to our laboratory on May 11, 2011. For your reference, these analyses have been assigned our service request number K1104181.

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. (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.

Please call if you have any questions. My extension is 3358. You may also contact me via Email at LHuckestein@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Lisa A Domenghini for
Lynda Huckestein
Client Services Manager

LH/jw

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
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 4.1 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 4.1 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 estimate amount because the value exceeded the instrument calibration range.
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 4.1 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.
Kelso, WA
State Certifications, Accreditations, and Licenses

Agency	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DEQ	WA100010
South Carolina DHEC	61002
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request No.:**	K1104181
Project:	Longview/0997003.01	**Date Received:**	05/11/11
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Eight and one trip blank water samples were received for analysis at Columbia Analytical Services on 05/11/11. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Total Metals

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

Polynuclear Aromatic Hydrocarbons by EPA Method 8270C

Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

Volatile Organic Compounds by EPA Method 524.2

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

Semivolatile Organic Compounds by EPA Method 525.2

Surrogate Exceptions:

The control criteria were exceeded for the following surrogate in samples DW-1-110510 and DW-6-110510 due to suspected matrix interferences: Perylene-d12. 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 surrogate. Reanalysis confirmed the original results. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions:

The matrix spike recovery of Anthracene, Benz(a)anthracene and Benzo(a)pyrene for sample Batch QC 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/high bias in this matrix. No further corrective action was appropriate.

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

Approved by _____ **Date** 6/8/11

Chain of Custody

Columbia Analytical Services

24212 CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR# K1104181

COC Set ____ of ____

Page 1 OF 1 COC# ____

Project Name: Longview
Project Number: 0997003.01
Project Manager: Steve Misner
Company Name: Kennedy/Jenks
Comany Address: 200 SW Market St Ste 500
City/State/Zip: Portland OR 97201
E-Mail Address: Stevemisner@kennedyjenks.com
Phone #: 503-295-4911 FAX #: 503-295-4901
Sampler Signature: Kimberly A Slack

Sample ID	Date	Time	Lab ID	Matrix	Number of Containers	7D 8270C SIM / PAH_SIM_ULL	14D 524.2 / VOC	525.2 / SVO	180D 200.7 LL / Metals T	200.8 / Metals T	999D SM 2340 B / Hardness Calc				Remarks
1 DW-1-110510	5/10/11	1000			7	X	X	X	X	X	X				1
2 DW-2-110510	"	1120			7	X	X	X	X	X	X				2
3 DW-5-110510	"	15:25			7	X	X	X	X	X	X				3
4 DW-6-110510	5/10/11	14:25			7	X	X	X	X	X	X				4
5 DW-7-110510	5/10/11	13:25			7	X	X	X	X	X	X				5
6 DW-9-110511	5/11/11	10:00			7	X	X	X	X	X	X				6
7 DUP-1-	5/10/11	15:00			7	X	X	X	X	X	X				7
8 DUFB-1-110511	5/11/11	10:30			3		X								8
9															9
10															10
11															11

Report Requirements

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

Invoice Information

P.O.#____
Bill To: City of Longview
Attn: Amy Blaine

Turnaround Requirements

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide Fax Results

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other____(Circle One)

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
Signature: Kimberly A Slack	5/11/11 11:00	Signature: [illegible]	5/11/11 1100	Signature		Signature	
Printed Name: Kimberly Slack		Printed Name: Erika Smith		Printed Name		Printed Name	
Firm: Kennedy/Jenks		Firm: CAS		Firm		Firm	

8

PC LH

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client / Project: Kennedy/Jenks Service Request K11 04181

Received: 5/11/11 Opened: 5/11/11 By: HO Unloaded: 5/11/11 By: HO

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

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

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-1.9	.2	308			
-.5	1.3	307			
3.8	5.6	281			

7. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
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-2-110510	1of3 40ml		X							

Notes, Discrepancies, & Resolutions: _____

Metals

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/11
Sample Matrix:	Water	**Date Received:**	05/11/11

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-1-110510	K1104181-001	0.4	1	05/23/11	05/26/11	74.9	
DW-2-110510	K1104181-002	0.4	1	05/23/11	05/26/11	125	
DW-5-110510	K1104181-003	0.4	1	05/23/11	05/26/11	131	
DW-6-110510	K1104181-004	0.4	1	05/23/11	05/26/11	121	
DW-7-110510	K1104181-005	0.4	1	05/23/11	05/26/11	77.8	
DW-9-110510	K1104181-006	0.4	1	05/23/11	05/26/11	92.9	
DUP-1	K1104181-007	0.4	1	05/23/11	05/26/11	124	
Method Blank	K1104181-MB	0.4	1	05/23/11	05/26/11	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/11
Sample Matrix:	Water	**Date Received:**	05/11/11
		Date Extracted:	05/23/11
		Date Analyzed:	05/26/11

Duplicate Summary
Metals

Sample Name:	DW-1-110510	Units:	mg/L (ppm)
Lab Code:	K1104181-001D	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	74.9	75.2	75.1	<1	

Metals

Columbia Analytical Services

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Kennedy/Jenks Consultants, Incorporated
Project Name: Longview
Project No.: 0997003.01

Service Request: K1104181

Sample Name:	Lab Code:
DW-1-110510	K1104181-001
DW-1-110510D	K1104181-001D
DW-1-110510S	K1104181-001S
DW-2-110510	K1104181-002
DW-5-110510	K1104181-003
DW-6-110510	K1104181-004
DW-7-110510	K1104181-005
DW-9-110510	K1104181-006
DUP-1	K1104181-007
Method Blank	K1104181-MB

Comments:

Approved By: 3C **Date:** 6/7/11

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	Service Request:	K1104181
Project No.:	0997003.01	Date Collected:	5/10/2011
Project Name:	Longview	Date Received:	5/11/2011
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: DW-1-110510 Lab Code: K1104181-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	05/23/11	05/26/11	2.8		
Antimony	200.8	0.05	1.0	05/23/11	06/07/11	0.05	U	
Arsenic	200.8	0.5	1.0	05/23/11	06/07/11	4.1		
Barium	200.8	0.05	1.0	05/23/11	06/07/11	11.4		
Beryllium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Cadmium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Calcium	200.7	50.0	1.0	05/23/11	05/26/11	21600		
Chromium	200.8	0.2	1.0	05/23/11	06/07/11	0.2	U	
Copper	200.8	0.1	1.0	05/23/11	06/07/11	0.2		
Iron	200.7	10.0	1.0	05/23/11	05/26/11	2370		
Lead	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Magnesium	200.7	20.0	1.0	05/23/11	05/26/11	5090		
Manganese	200.7	0.6	1.0	05/23/11	05/26/11	556		
Nickel	200.8	0.2	1.0	05/23/11	06/07/11	0.7		
Potassium	200.7	100	1.0	05/23/11	05/26/11	2770		
Selenium	200.8	1.0	1.0	05/23/11	06/07/11	1.0	U	
Silicon	200.7	50.0	1.0	05/23/11	05/26/11	26000		
Silver	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Sodium	200.7	200	1.0	05/23/11	05/26/11	8940		
Thallium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Uranium	200.8	0.020	1.0	05/23/11	06/07/11	0.020	U	
Zinc	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	Service Request:	K1104181
Project No.:	0997003.01	Date Collected:	5/10/2011
Project Name:	Longview	Date Received:	5/11/2011
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: DW-2-110510 Lab Code: K1104181-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	05/23/11	05/26/11	14.6		
Antimony	200.8	0.05	1.0	05/23/11	06/07/11	0.05	U	
Arsenic	200.8	0.5	1.0	05/23/11	06/07/11	8.5		
Barium	200.8	0.05	1.0	05/23/11	06/07/11	23.4		
Beryllium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Cadmium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Calcium	200.7	50.0	1.0	05/23/11	05/26/11	32500		
Chromium	200.8	0.2	1.0	05/23/11	06/07/11	0.2	U	
Copper	200.8	0.1	1.0	05/23/11	06/07/11	0.2		
Iron	200.7	10.0	1.0	05/23/11	05/26/11	535		
Lead	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Magnesium	200.7	20.0	1.0	05/23/11	05/26/11	10700		
Manganese	200.7	0.6	1.0	05/23/11	05/26/11	273		
Nickel	200.8	0.2	1.0	05/23/11	06/07/11	1.1		
Potassium	200.7	100	1.0	05/23/11	05/26/11	5840		
Selenium	200.8	1.0	1.0	05/23/11	06/07/11	1.0	U	
Silicon	200.7	50.0	1.0	05/23/11	05/26/11	21700		
Silver	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Sodium	200.7	200	1.0	05/23/11	05/26/11	15300		
Thallium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Uranium	200.8	0.020	1.0	05/23/11	06/07/11	0.020	U	
Zinc	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	Service Request:	K1104181
Project No.:	0997003.01	Date Collected:	5/10/2011
Project Name:	Longview	Date Received:	5/11/2011
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: DW-5-110510 Lab Code: K1104181-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	
Antimony	200.8	0.05	1.0	05/23/11	06/07/11	0.05	U	
Arsenic	200.8	0.5	1.0	05/23/11	06/07/11	6.5		
Barium	200.8	0.05	1.0	05/23/11	06/07/11	14.8		
Beryllium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Cadmium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Calcium	200.7	50.0	1.0	05/23/11	05/26/11	34600		
Chromium	200.8	0.2	1.0	05/23/11	06/07/11	0.2	U	
Copper	200.8	0.1	1.0	05/23/11	06/07/11	0.3		
Iron	200.7	10.0	1.0	05/23/11	05/26/11	403		
Lead	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Magnesium	200.7	20.0	1.0	05/23/11	05/26/11	10800		
Manganese	200.7	0.6	1.0	05/23/11	05/26/11	297		
Nickel	200.8	0.2	1.0	05/23/11	06/07/11	1.1		
Potassium	200.7	100	1.0	05/23/11	05/26/11	4610		
Selenium	200.8	1.0	1.0	05/23/11	06/07/11	1.0	U	
Silicon	200.7	50.0	1.0	05/23/11	05/26/11	23800		
Silver	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Sodium	200.7	200	1.0	05/23/11	05/26/11	12700		
Thallium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Uranium	200.8	0.020	1.0	05/23/11	06/07/11	0.020	U	
Zinc	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	

% Solids: 0.0

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	Service Request:	K1104181
Project No.:	0997003.01	Date Collected:	5/10/2011
Project Name:	Longview	Date Received:	5/11/2011
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: DW-6-110510 Lab Code: K1104181-004

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	
Antimony	200.8	0.05	1.0	05/23/11	06/07/11	0.05	U	
Arsenic	200.8	0.5	1.0	05/23/11	06/07/11	4.9		
Barium	200.8	0.05	1.0	05/23/11	06/07/11	15.5		
Beryllium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Cadmium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Calcium	200.7	50.0	1.0	05/23/11	05/26/11	33400		
Chromium	200.8	0.2	1.0	05/23/11	06/07/11	0.2	U	
Copper	200.8	0.1	1.0	05/23/11	06/07/11	0.2		
Iron	200.7	10.0	1.0	05/23/11	05/26/11	617		
Lead	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Magnesium	200.7	20.0	1.0	05/23/11	05/26/11	9210		
Manganese	200.7	0.6	1.0	05/23/11	05/26/11	493		
Nickel	200.8	0.2	1.0	05/23/11	06/07/11	1.1		
Potassium	200.7	100	1.0	05/23/11	05/26/11	4390		
Selenium	200.8	1.0	1.0	05/23/11	06/07/11	1.0	U	
Silicon	200.7	50.0	1.0	05/23/11	05/26/11	25600		
Silver	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Sodium	200.7	200	1.0	05/23/11	05/26/11	11800		
Thallium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Uranium	200.8	0.020	1.0	05/23/11	06/07/11	0.020	U	
Zinc	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	Service Request:	K1104181
Project No.:	0997003.01	Date Collected:	5/10/2011
Project Name:	Longview	Date Received:	5/11/2011
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: DW-7-110510 Lab Code: K1104181-005

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	
Antimony	200.8	0.05	1.0	05/23/11	06/07/11	0.05	U	
Arsenic	200.8	0.5	1.0	05/23/11	06/07/11	4.9		
Barium	200.8	0.05	1.0	05/23/11	06/07/11	10.8		
Beryllium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Cadmium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Calcium	200.7	50.0	1.0	05/23/11	05/26/11	22400		
Chromium	200.8	0.2	1.0	05/23/11	06/07/11	0.2	U	
Copper	200.8	0.1	1.0	05/23/11	06/07/11	1.2		
Iron	200.7	10.0	1.0	05/23/11	05/26/11	1260		
Lead	200.8	0.02	1.0	05/23/11	06/07/11	0.36		
Magnesium	200.7	20.0	1.0	05/23/11	05/26/11	5340		
Manganese	200.7	0.6	1.0	05/23/11	05/26/11	672		
Nickel	200.8	0.2	1.0	05/23/11	06/07/11	0.8		
Potassium	200.7	100	1.0	05/23/11	05/26/11	3140		
Selenium	200.8	1.0	1.0	05/23/11	06/07/11	1.0	U	
Silicon	200.7	50.0	1.0	05/23/11	05/26/11	26000		
Silver	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Sodium	200.7	200	1.0	05/23/11	05/26/11	8920		
Thallium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Uranium	200.8	0.020	1.0	05/23/11	06/07/11	0.020	U	
Zinc	200.7	2.0	1.0	05/23/11	05/26/11	3.8		

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	Service Request:	K1104181
Project No.:	0997003.01	Date Collected:	5/11/2011
Project Name:	Longview	Date Received:	5/11/2011
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: DW-9-110510 Lab Code: K1104181-006

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	
Antimony	200.8	0.05	1.0	05/23/11	06/07/11	0.05	U	
Arsenic	200.8	0.5	1.0	05/23/11	06/07/11	5.9		
Barium	200.8	0.05	1.0	05/23/11	06/07/11	12.4		
Beryllium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Cadmium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Calcium	200.7	50.0	1.0	05/23/11	05/26/11	26700		
Chromium	200.8	0.2	1.0	05/23/11	06/07/11	0.2	U	
Copper	200.8	0.1	1.0	05/23/11	06/07/11	0.2		
Iron	200.7	10.0	1.0	05/23/11	05/26/11	784		
Lead	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Magnesium	200.7	20.0	1.0	05/23/11	05/26/11	6380		
Manganese	200.7	0.6	1.0	05/23/11	05/26/11	604		
Nickel	200.8	0.2	1.0	05/23/11	06/07/11	0.9		
Potassium	200.7	100	1.0	05/23/11	05/26/11	3710		
Selenium	200.8	1.0	1.0	05/23/11	06/07/11	1.0	U	
Silicon	200.7	50.0	1.0	05/23/11	05/26/11	27800		
Silver	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Sodium	200.7	200	1.0	05/23/11	05/26/11	10100		
Thallium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Uranium	200.8	0.020	1.0	05/23/11	06/07/11	0.020	U	
Zinc	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	Service Request:	K1104181
Project No.:	0997003.01	Date Collected:	5/10/2011
Project Name:	Longview	Date Received:	5/11/2011
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: DUP-1 Lab Code: K1104181-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	
Antimony	200.8	0.05	1.0	05/23/11	06/07/11	0.05	U	
Arsenic	200.8	0.5	1.0	05/23/11	06/07/11	4.7		
Barium	200.8	0.05	1.0	05/23/11	06/07/11	15.4		
Beryllium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Cadmium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Calcium	200.7	50.0	1.0	05/23/11	05/26/11	34600		
Chromium	200.8	0.2	1.0	05/23/11	06/07/11	0.2	U	
Copper	200.8	0.1	1.0	05/23/11	06/07/11	0.2		
Iron	200.7	10.0	1.0	05/23/11	05/26/11	639		
Lead	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Magnesium	200.7	20.0	1.0	05/23/11	05/26/11	9140		
Manganese	200.7	0.6	1.0	05/23/11	05/26/11	501		
Nickel	200.8	0.2	1.0	05/23/11	06/07/11	1.1		
Potassium	200.7	100	1.0	05/23/11	05/26/11	4390		
Selenium	200.8	1.0	1.0	05/23/11	06/07/11	1.0	U	
Silicon	200.7	50.0	1.0	05/23/11	05/26/11	25400		
Silver	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Sodium	200.7	200	1.0	05/23/11	05/26/11	11700		
Thallium	200.8	0.02	1.0	05/23/11	06/07/11	0.02	U	
Uranium	200.8	0.020	1.0	05/23/11	06/07/11	0.020	U	
Zinc	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client: Kennedy/Jenks Consultants, Incor
Service Request: K1104181
Project No.: 0997003.01
Date Collected:
Project Name: Longview
Date Received:
Matrix: WATER
Units: ug/L
Basis: NA

Sample Name: Method Blank
Lab Code: K1104181-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	
Antimony	200.8	0.05	1.0	05/23/11	06/06/11	0.05	U	
Arsenic	200.8	0.5	1.0	05/23/11	06/06/11	0.5	U	
Barium	200.8	0.05	1.0	05/23/11	06/06/11	0.05	U	
Beryllium	200.8	0.02	1.0	05/23/11	06/06/11	0.02	U	
Cadmium	200.8	0.02	1.0	05/23/11	06/06/11	0.02	U	
Calcium	200.7	50.0	1.0	05/23/11	05/26/11	50.0	U	
Chromium	200.8	0.2	1.0	05/23/11	06/06/11	0.2	U	
Copper	200.8	0.1	1.0	05/23/11	06/06/11	0.1	U	
Iron	200.7	10.0	1.0	05/23/11	05/26/11	10.0	U	
Lead	200.8	0.02	1.0	05/23/11	06/06/11	0.02	U	
Magnesium	200.7	20.0	1.0	05/23/11	05/26/11	20.0	U	
Manganese	200.7	0.6	1.0	05/23/11	05/26/11	0.6	U	
Nickel	200.8	0.2	1.0	05/23/11	06/06/11	0.2	U	
Potassium	200.7	100	1.0	05/23/11	05/26/11	100	U	
Selenium	200.8	1.0	1.0	05/23/11	06/06/11	1.0	U	
Silicon	200.7	50.0	1.0	05/23/11	05/26/11	50.0	U	
Silver	200.8	0.02	1.0	05/23/11	06/06/11	0.02	U	
Sodium	200.7	200	1.0	05/23/11	05/26/11	200	U	
Thallium	200.8	0.02	1.0	05/23/11	06/06/11	0.02	U	
Uranium	200.8	0.020	1.0	05/23/11	06/06/11	0.020	U	
Zinc	200.7	2.0	1.0	05/23/11	05/26/11	2.0	U	

% Solids: 0.0

Comments:

Columbia Analytical Services

METALS

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SPIKE SAMPLE RECOVERY

Client: Kennedy/Jenks Consultants, Incor Service Request: K1104181

Project No.: 0997003.01 Units: UG/L

Project Name: Longview Basis: NA

Matrix: WATER % Solids: 0.0

Sample Name: DW-1-110510S Lab Code: K1104181-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	70 - 130	1980		50.0	U	2000.00	99.0		200.7
Antimony	70 - 130	21.1		0.05	U	20.00	105.5		200.8
Arsenic	70 - 130	24.9		4.1		20.00	104.0		200.8
Barium	70 - 130	31.9		11.4		20.00	102.5		200.8
Beryllium	70 - 130	20.5		0.02	U	20.00	102.5		200.8
Cadmium	70 - 130	20.9		0.02	U	20.00	104.5		200.8
Calcium	70 - 130	31700		21600		10000.00	101.0		200.7
Chromium	70 - 130	18.8		0.2	U	20.00	94.0		200.8
Copper	70 - 130	19.3		0.2		20.00	95.5		200.8
Iron	70 - 130	3390		2370		1000.00	102.0		200.7
Lead	70 - 130	20.5		0.02	U	20.00	102.4		200.8
Magnesium	70 - 130	15100		5090		10000.00	100.1		200.7
Manganese	70 - 130	1030		556		500.00	94.8		200.7
Nickel	70 - 130	19.5		0.7		20.00	94.0		200.8
Potassium	70 - 130	12700		2770		10000.00	99.3		200.7
Selenium	70 - 130	20.4		1.0	U	20.00	102.0		200.8
Silicon	70 - 130	37200		26000		10000.00	112.0		200.7
Silver	70 - 130	18.7		0.02	U	20.00	93.5		200.8
Sodium	70 - 130	19000		8940		10000.00	100.6		200.7
Thallium	70 - 130	20.4		0.02	U	20.00	102.0		200.8
Uranium	70 - 130	21.4		0.020	U	20.00	107.0		200.8
Zinc	70 - 130	509		2.0	U	500.00	101.8		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: K1104181

Project No.: 0997003.01 Units: UG/L

Project Name: Longview Basis: NA

Matrix: WATER % Solids: 0.0

Sample Name: DW-1-110510D Lab Code: K1104181-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		2.8		2.2		24.0		200.7
Antimony		0.05	U	0.05	U			200.8
Arsenic	20	4.14		4.08		1		200.8
Barium	20	11.4		11.2		2		200.8
Beryllium		0.020	U	0.020	U			200.8
Cadmium		0.020	U	0.020	U			200.8
Calcium	20	21600		21700		0.5		200.7
Chromium		0.20	U	0.20	U			200.8
Copper		0.22		0.21		5		200.8
Iron	20	2370		2370		0.0		200.7
Lead		0.020	U	0.020	U			200.8
Magnesium	20	5090		5110		0.4		200.7
Manganese	20	556		559		0.5		200.7
Nickel		0.75		0.72		4		200.8
Potassium	20	2770		2720		1.8		200.7
Selenium		1.0	U	1.0	U			200.8
Silicon	20	26000		26000		0.0		200.7
Silver		0.020	U	0.020	U			200.8
Sodium	20	8940		8970		0.3		200.7
Thallium		0.020	U	0.020	U			200.8
Uranium		0.020	U	0.020	U			200.8
Zinc		2.0	U	2.0	U			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: K1104181

Project No.: 0997003.01

Project Name: Longview

Aqueous LCS Source: Inorganic Ventures Solid LCS Source:

Analyte	Aqueous: ug/L True	Found	%R	Solid: mg/kg True	Found	C	Limits	%R
Aluminum	5000	4920	98.4					
Antimony	20	20.9	104.5					
Arsenic	20	20.6	103.0					
Barium	20	20.6	103.0					
Beryllium	20	20.7	103.5					
Cadmium	20	20.9	104.5					
Calcium	12500	12200	97.6					
Chromium	20	20.8	104.0					
Copper	20	20.1	100.5					
Iron	2500	2450	98.0					
Lead	20	20.8	104.0					
Magnesium	12500	12400	99.2					
Manganese	1250	1230	98.4					
Nickel	20	20.2	101.0					
Potassium	12500	12600	100.8					
Selenium	20	19.9	99.5					
Silicon	10000	10800	108.0					
Silver	20	18.7	93.5					
Sodium	12500	12400	99.2					
Thallium	20	20.6	103.0					
Uranium	20	21.1	105.5					
Zinc	1250	1300	104.0					

Volatile Organic Compounds

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	DW-1-110510	**Units:**	ug/L
Lab Code:	K1104181-001	**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	05/15/11	05/15/11	KWG1104326	
Chloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Vinyl Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichlorofluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methylene Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Carbon Tetrachloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Benzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromodichloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Toluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Tetrachloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Ethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Styrene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
m,p-Xylenes	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
o-Xylene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	DW-1-110510	**Units:**	ug/L
Lab Code:	K1104181-001	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromoform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Isopropylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Propylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
4-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
tert-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
sec-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
p-Isopropyltoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,4-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Hexachlorobutadiene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Naphthalene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	95	70-130	05/15/11	Acceptable
Dibromofluoromethane	93	82-124	05/15/11	Acceptable
Toluene-d8	98	82-124	05/15/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Volatile Organic Compounds

Sample Name: DW-2-110510
Lab Code: K1104181-002

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Vinyl Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichlorofluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methylene Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Carbon Tetrachloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Benzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromodichloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Toluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Tetrachloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Ethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Styrene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
m,p-Xylenes	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
o-Xylene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	DW-2-110510	**Units:**	ug/L
Lab Code:	K1104181-002	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromoform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Isopropylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Propylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
4-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
tert-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
sec-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
p-Isopropyltoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,4-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Hexachlorobutadiene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Naphthalene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	94	70-130	05/15/11	Acceptable
Dibromofluoromethane	93	82-124	05/15/11	Acceptable
Toluene-d8	99	82-124	05/15/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	DW-5-110510	**Units:**	ug/L
Lab Code:	K1104181-003	**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	05/15/11	05/15/11	KWG1104326	
Chloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Vinyl Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichlorofluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methylene Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Carbon Tetrachloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Benzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromodichloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Toluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Tetrachloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Ethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Styrene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
m,p-Xylenes	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
o-Xylene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	DW-5-110510	**Units:**	ug/L
Lab Code:	K1104181-003	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromoform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Isopropylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Propylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
4-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
tert-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
sec-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
p-Isopropyltoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,4-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Hexachlorobutadiene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Naphthalene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	92	70-130	05/15/11	Acceptable
Dibromofluoromethane	93	82-124	05/15/11	Acceptable
Toluene-d8	99	82-124	05/15/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Volatile Organic Compounds

Sample Name: DW-6-110510
Lab Code: K1104181-004

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Vinyl Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichlorofluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methylene Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Carbon Tetrachloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Benzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromodichloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Toluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Tetrachloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Ethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Styrene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
m,p-Xylenes	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
o-Xylene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Volatile Organic Compounds

Sample Name: DW-6-110510
Lab Code: K1104181-004

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromoform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Isopropylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Propylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
4-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
tert-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
sec-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
p-Isopropyltoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,4-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Hexachlorobutadiene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Naphthalene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	89	70-130	05/15/11	Acceptable
Dibromofluoromethane	100	82-124	05/15/11	Acceptable
Toluene-d8	98	82-124	05/15/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Volatile Organic Compounds

Sample Name: DW-7-110510
Lab Code: K1104181-005

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Vinyl Chloride	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromomethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Trichlorofluoromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Methylene Chloride	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1-Dichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chloroform	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromochloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Carbon Tetrachloride	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Benzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Trichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromodichloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Dibromomethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1-Dichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Toluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Tetrachloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
2,2-Dichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,3-Dichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Dibromochloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Ethylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Styrene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
m,p-Xylenes	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
o-Xylene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	DW-7-110510	**Units:**	ug/L
Lab Code:	K1104181-005	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromoform	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Isopropylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1-Dichloropropene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
n-Propylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
2-Chlorotoluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
4-Chlorotoluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
tert-Butylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
sec-Butylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
p-Isopropyltoluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,3-Dichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,4-Dichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
n-Butylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Hexachlorobutadiene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Naphthalene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1,2-Trichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,3-Trichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	93	70-130	05/16/11	Acceptable
Dibromofluoromethane	107	82-124	05/16/11	Acceptable
Toluene-d8	104	82-124	05/16/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/11/2011
Date Received: 05/11/2011

Volatile Organic Compounds

Sample Name: DW-9-110510
Lab Code: K1104181-006

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Vinyl Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichlorofluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methylene Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Carbon Tetrachloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Benzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromodichloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Toluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Tetrachloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Ethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Styrene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
m,p-Xylenes	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
o-Xylene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/11/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	DW-9-110510	**Units:**	ug/L
Lab Code:	K1104181-006	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromoform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Isopropylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Propylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
4-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
tert-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
sec-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
p-Isopropyltoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,4-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Hexachlorobutadiene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Naphthalene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	94	70-130	05/15/11	Acceptable
Dibromofluoromethane	100	82-124	05/15/11	Acceptable
Toluene-d8	99	82-124	05/15/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1104181-007	**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	05/15/11	05/15/11	KWG1104326	
Chloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Vinyl Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichlorofluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methylene Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Carbon Tetrachloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Benzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromodichloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Toluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Tetrachloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Ethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Styrene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
m,p-Xylenes	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
o-Xylene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1104181-007	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromoform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Isopropylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Propylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
4-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
tert-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
sec-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
p-Isopropyltoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,4-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Hexachlorobutadiene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Naphthalene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	94	70-130	05/15/11	Acceptable
Dibromofluoromethane	101	82-124	05/15/11	Acceptable
Toluene-d8	99	82-124	05/15/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/11/2011
Date Received: 05/11/2011

Volatile Organic Compounds

Sample Name: QCFB-1-110511
Lab Code: K1104181-008

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Vinyl Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichlorofluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methylene Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Carbon Tetrachloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Benzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromodichloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Toluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Tetrachloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Ethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Styrene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
m,p-Xylenes	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
o-Xylene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/11/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	QCFB-1-110511	**Units:**	ug/L
Lab Code:	K1104181-008	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromoform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Isopropylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Propylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
4-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
tert-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
sec-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
p-Isopropyltoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,4-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Hexachlorobutadiene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Naphthalene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	93	70-130	05/15/11	Acceptable
Dibromofluoromethane	100	82-124	05/15/11	Acceptable
Toluene-d8	98	82-124	05/15/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	K1104181-009	**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	05/16/11	05/16/11	KWG1104339	
Chloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Vinyl Chloride	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromomethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Trichlorofluoromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Methylene Chloride	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1-Dichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chloroform	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromochloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Carbon Tetrachloride	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Benzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Trichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromodichloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Dibromomethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1-Dichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Toluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Tetrachloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
2,2-Dichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,3-Dichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Dibromochloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Ethylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Styrene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
m,p-Xylenes	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
o-Xylene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Volatile Organic Compounds

Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	K1104181-009	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromoform	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Isopropylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1-Dichloropropene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
n-Propylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
2-Chlorotoluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
4-Chlorotoluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
tert-Butylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
sec-Butylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
p-Isopropyltoluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,3-Dichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,4-Dichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
n-Butylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Hexachlorobutadiene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Naphthalene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1,2-Trichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,3-Trichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	94	70-130	05/16/11	Acceptable
Dibromofluoromethane	96	82-124	05/16/11	Acceptable
Toluene-d8	96	82-124	05/16/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1104326-2

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Vinyl Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichlorofluoromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methylene Chloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chloroform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Carbon Tetrachloride	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Benzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Trichloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromodichloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromomethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Toluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Tetrachloroethene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2,2-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Dibromochloromethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Chlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Ethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Styrene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
m,p-Xylenes	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
o-Xylene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1104326-2	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromoform	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Isopropylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1-Dichloropropene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Bromobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Propylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
2-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
4-Chlorotoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
tert-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
sec-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
p-Isopropyltoluene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,3-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,4-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
n-Butylbenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Hexachlorobutadiene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
Naphthalene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,2-Trichloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichloropropane	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/15/11	05/15/11	KWG1104326	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	94	70-130	05/15/11	Acceptable
Dibromofluoromethane	93	82-124	05/15/11	Acceptable
Toluene-d8	99	82-124	05/15/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1104339-2

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Vinyl Chloride	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromomethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Trichlorofluoromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Methylene Chloride	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1-Dichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chloroform	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromochloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Carbon Tetrachloride	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Benzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Trichloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromodichloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Dibromomethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1-Dichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Toluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Tetrachloroethene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
2,2-Dichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,3-Dichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Dibromochloromethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Chlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Ethylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Styrene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
m,p-Xylenes	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
o-Xylene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1104339-2	**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
1,1,1-Trichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromoform	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Isopropylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1-Dichloropropene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Bromobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
n-Propylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
2-Chlorotoluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
4-Chlorotoluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
tert-Butylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
sec-Butylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
p-Isopropyltoluene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,3-Dichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,4-Dichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
n-Butylbenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Hexachlorobutadiene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
Naphthalene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1,2-Trichloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,3-Trichloropropane	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/16/11	05/16/11	KWG1104339	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	93	70-130	05/16/11	Acceptable
Dibromofluoromethane	97	82-124	05/16/11	Acceptable
Toluene-d8	98	82-124	05/16/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: METHOD
Analysis Method: 524.2

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
DW-1-110510	K1104181-001	95	93	98
DW-2-110510	K1104181-002	94	93	99
DW-5-110510	K1104181-003	92	93	99
DW-6-110510	K1104181-004	89	100	98
DW-7-110510	K1104181-005	93	107	104
DW-9-110510	K1104181-006	94	100	99
DUP-1	K1104181-007	94	101	99
QCFB-1-110511	K1104181-008	93	100	98
Trip Blank	K1104181-009	94	96	96
Method Blank	KWG1104326-2	94	93	99
Method Blank	KWG1104339-2	93	97	98
Lab Control Sample	KWG1104326-1	96	94	100
Lab Control Sample	KWG1104339-1	96	98	101

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.

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Extracted:**	05/15/2011
Sample Matrix:	Water	**Date Analyzed:**	05/15/2011

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	524.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1104326

	Lab Control Sample KWG1104326-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	4.62	5.00	92	70-130
Chloromethane	4.68	5.00	94	70-130
Vinyl Chloride	4.67	5.00	93	70-130
Bromomethane	5.36	5.00	107	70-130
Chloroethane	4.84	5.00	97	70-130
Trichlorofluoromethane	4.63	5.00	93	70-130
Methylene Chloride	5.03	5.00	101	70-130
trans-1,2-Dichloroethene	4.58	5.00	92	70-130
1,1-Dichloroethene	4.48	5.00	90	70-130
cis-1,2-Dichloroethene	4.78	5.00	96	70-130
Methyl tert-Butyl Ether	9.39	10.0	94	70-130
Chloroform	4.70	5.00	94	70-130
Bromochloromethane	4.95	5.00	99	70-130
Carbon Tetrachloride	4.14	5.00	83	70-130
Benzene	5.31	5.00	106	70-130
1,2-Dichloroethane	5.34	5.00	107	70-130
Trichloroethene	4.63	5.00	93	70-130
1,2-Dichloropropane	4.83	5.00	97	70-130
Bromodichloromethane	4.41	5.00	88	70-130
Dibromomethane	4.86	5.00	97	70-130
cis-1,3-Dichloropropene	4.34	5.00	87	70-130
Toluene	4.80	5.00	96	70-130
1,1-Dichloroethane	4.82	5.00	96	70-130
trans-1,3-Dichloropropene	4.11	5.00	82	70-130
Tetrachloroethene	4.85	5.00	97	70-130
1,3-Dichloropropane	5.11	5.00	102	70-130
2,2-Dichloropropane	4.25	5.00	85	70-130
Dibromochloromethane	4.42	5.00	88	70-130
1,2-Dibromoethane (EDB)	5.10	5.00	102	70-130
Chlorobenzene	5.15	5.00	103	70-130
Ethylbenzene	4.96	5.00	99	70-130
Styrene	5.19	5.00	104	70-130
m,p-Xylenes	10.2	10.0	102	70-130
o-Xylene	5.14	5.00	103	70-130
1,1,1-Trichloroethane	4.23	5.00	85	70-130
Bromoform	3.97	5.00	79	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.

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Extracted:**	05/15/2011
Sample Matrix:	Water	**Date Analyzed:**	05/15/2011

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	524.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1104326

	Lab Control Sample KWG1104326-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,2,2-Tetrachloroethane	4.95	5.00	99	70-130
Isopropylbenzene	5.02	5.00	100	70-130
1,1-Dichloropropene	4.48	5.00	90	70-130
Bromobenzene	5.12	5.00	102	70-130
n-Propylbenzene	5.00	5.00	100	70-130
1,3,5-Trimethylbenzene	5.19	5.00	104	70-130
2-Chlorotoluene	5.13	5.00	103	70-130
4-Chlorotoluene	5.14	5.00	103	70-130
tert-Butylbenzene	4.95	5.00	99	70-130
1,2,4-Trimethylbenzene	5.21	5.00	104	70-130
sec-Butylbenzene	5.08	5.00	102	70-130
p-Isopropyltoluene	5.09	5.00	102	70-130
1,3-Dichlorobenzene	5.16	5.00	103	70-130
1,4-Dichlorobenzene	5.23	5.00	105	70-130
n-Butylbenzene	5.13	5.00	103	70-130
1,2-Dichlorobenzene	5.24	5.00	105	70-130
1,2-Dibromo-3-chloropropane (DBCP	3.80	5.00	76	70-130
1,2,4-Trichlorobenzene	5.34	5.00	107	70-130
Hexachlorobutadiene	4.97	5.00	99	70-130
Naphthalene	5.50	5.00	110	70-130
1,1,2-Trichloroethane	5.01	5.00	100	70-130
1,1,1,2-Tetrachloroethane	4.64	5.00	93	70-130
1,2,3-Trichloropropane	4.99	5.00	100	70-130
1,2,3-Trichlorobenzene	5.38	5.00	108	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.

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Extracted:**	05/16/2011
Sample Matrix:	Water	**Date Analyzed:**	05/16/2011

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	524.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1104339

	Lab Control Sample KWG1104339-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	4.24	5.00	85	70-130
Chloromethane	4.57	5.00	91	70-130
Vinyl Chloride	4.54	5.00	91	70-130
Bromomethane	4.83	5.00	97	70-130
Chloroethane	4.59	5.00	92	70-130
Trichlorofluoromethane	4.45	5.00	89	70-130
Methylene Chloride	4.77	5.00	95	70-130
trans-1,2-Dichloroethene	4.37	5.00	87	70-130
1,1-Dichloroethene	4.05	5.00	81	70-130
cis-1,2-Dichloroethene	4.53	5.00	91	70-130
Methyl tert-Butyl Ether	8.85	10.0	89	70-130
Chloroform	4.53	5.00	91	70-130
Bromochloromethane	4.69	5.00	94	70-130
Carbon Tetrachloride	3.76	5.00	75	70-130
Benzene	4.44	5.00	89	70-130
1,2-Dichloroethane	5.24	5.00	105	70-130
Trichloroethene	4.35	5.00	87	70-130
1,2-Dichloropropane	4.60	5.00	92	70-130
Bromodichloromethane	4.48	5.00	90	70-130
Dibromomethane	4.80	5.00	96	70-130
cis-1,3-Dichloropropene	3.96	5.00	79	70-130
Toluene	4.45	5.00	89	70-130
1,1-Dichloroethane	4.63	5.00	93	70-130
trans-1,3-Dichloropropene	3.69	5.00	74	70-130
Tetrachloroethene	4.24	5.00	85	70-130
1,3-Dichloropropane	4.82	5.00	96	70-130
2,2-Dichloropropane	3.54	5.00	71	70-130
Dibromochloromethane	4.36	5.00	87	70-130
1,2-Dibromoethane (EDB)	4.73	5.00	95	70-130
Chlorobenzene	4.69	5.00	94	70-130
Ethylbenzene	4.47	5.00	89	70-130
Styrene	4.89	5.00	98	70-130
m,p-Xylenes	9.23	10.0	92	70-130
o-Xylene	4.52	5.00	90	70-130
1,1,1-Trichloroethane	3.93	5.00	79	70-130
Bromoform	3.94	5.00	79	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.

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Extracted: 05/16/2011
Date Analyzed: 05/16/2011

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: METHOD
Analysis Method: 524.2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1104339

Analyte Name	Lab Control Sample KWG1104339-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	5.01	5.00	100	70-130
Isopropylbenzene	4.52	5.00	90	70-130
1,1-Dichloropropene	4.28	5.00	86	70-130
Bromobenzene	4.85	5.00	97	70-130
n-Propylbenzene	4.74	5.00	95	70-130
1,3,5-Trimethylbenzene	4.84	5.00	97	70-130
2-Chlorotoluene	4.85	5.00	97	70-130
4-Chlorotoluene	4.97	5.00	99	70-130
tert-Butylbenzene	4.62	5.00	92	70-130
1,2,4-Trimethylbenzene	4.98	5.00	100	70-130
sec-Butylbenzene	4.89	5.00	98	70-130
p-Isopropyltoluene	4.85	5.00	97	70-130
1,3-Dichlorobenzene	4.87	5.00	97	70-130
1,4-Dichlorobenzene	4.89	5.00	98	70-130
n-Butylbenzene	4.94	5.00	99	70-130
1,2-Dichlorobenzene	4.90	5.00	98	70-130
1,2-Dibromo-3-chloropropane (DBCP	3.71	5.00	74	70-130
1,2,4-Trichlorobenzene	4.93	5.00	99	70-130
Hexachlorobutadiene	4.76	5.00	95	70-130
Naphthalene	5.43	5.00	109	70-130
1,1,2-Trichloroethane	4.78	5.00	96	70-130
1,1,1,2-Tetrachloroethane	4.48	5.00	90	70-130
1,2,3-Trichloropropane	4.99	5.00	100	70-130
1,2,3-Trichlorobenzene	4.96	5.00	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.

Semi-Volatile Organic Compounds

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name: DW-1-110510
Lab Code: K1104181-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.099	1	05/16/11	05/17/11	KWG1104361	
EPTC	ND	U	0.051	1	05/16/11	05/17/11	KWG1104361	
Dimethyl Phthalate	ND	U	0.50	1	05/16/11	05/17/11	KWG1104361	
Acenaphthylene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Acenaphthene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Diethyl Phthalate	ND	U	0.50	1	05/16/11	05/17/11	KWG1104361	
Fluorene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Propachlor	ND	U	0.075	1	05/16/11	05/17/11	KWG1104361	
Trifluralin	ND	U	0.099	1	05/16/11	05/17/11	KWG1104361	
Hexachlorobenzene	ND	U	0.099	1	05/16/11	05/17/11	KWG1104361	
Simazine	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Atrazine	ND	U	0.099	1	05/16/11	05/17/11	KWG1104361	
Phenanthrene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Anthracene	ND	U	0.067	1	05/16/11	05/17/11	KWG1104361	
Terbacil	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Metribuzin	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Alachlor	ND	U	0.071	1	05/16/11	05/17/11	KWG1104361	
Di-n-butyl Phthalate	ND	U	0.59	1	05/16/11	05/17/11	KWG1104361	
Bromacil	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Malathion	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Metolachlor	ND	U	0.089	1	05/16/11	05/17/11	KWG1104361	
Parathion	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Fluoranthene	ND	U	0.099	1	05/16/11	05/17/11	KWG1104361	
Butachlor	ND	U	0.051	1	05/16/11	05/17/11	KWG1104361	
Pyrene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Benzyl butyl phthalate	ND	U	0.50	1	05/16/11	05/17/11	KWG1104361	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/16/11	05/17/11	KWG1104361	
Benz(a)anthracene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Chrysene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/16/11	05/17/11	KWG1104361	
Benzo(b)fluoranthene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Benzo(k)fluoranthene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Benzo(a)pyrene	ND	U	0.020	1	05/16/11	05/17/11	KWG1104361	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-1-110510	**Units:**	ug/L
Lab Code:	K1104181-001	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	89	70-130	05/17/11	Acceptable
Triphenyl Phosphate	87	70-130	05/17/11	Acceptable
Perylene-d12	61	70-130	05/17/11	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name: DW-2-110510
Lab Code: K1104181-002

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	05/16/11	05/17/11	KWG1104361	
EPTC	ND	U	0.051	1	05/16/11	05/17/11	KWG1104361	
Dimethyl Phthalate	ND	U	0.49	1	05/16/11	05/17/11	KWG1104361	
Acenaphthylene	ND	U	0.049	1	05/16/11	05/17/11	KWG1104361	
Acenaphthene	ND	U	0.049	1	05/16/11	05/17/11	KWG1104361	
Diethyl Phthalate	ND	U	0.49	1	05/16/11	05/17/11	KWG1104361	
Fluorene	ND	U	0.049	1	05/16/11	05/17/11	KWG1104361	
Propachlor	ND	U	0.074	1	05/16/11	05/17/11	KWG1104361	
Trifluralin	ND	U	0.098	1	05/16/11	05/17/11	KWG1104361	
Hexachlorobenzene	ND	U	0.098	1	05/16/11	05/17/11	KWG1104361	
Simazine	ND	U	0.049	1	05/16/11	05/17/11	KWG1104361	
Atrazine	ND	U	0.098	1	05/16/11	05/17/11	KWG1104361	
Phenanthrene	ND	U	0.049	1	05/16/11	05/17/11	KWG1104361	
Anthracene	ND	U	0.067	1	05/16/11	05/17/11	KWG1104361	
Terbacil	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Metribuzin	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Alachlor	ND	U	0.070	1	05/16/11	05/17/11	KWG1104361	
Di-n-butyl Phthalate	ND	U	0.59	1	05/16/11	05/17/11	KWG1104361	
Bromacil	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Malathion	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Metolachlor	ND	U	0.088	1	05/16/11	05/17/11	KWG1104361	
Parathion	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Fluoranthene	ND	U	0.098	1	05/16/11	05/17/11	KWG1104361	
Butachlor	ND	U	0.051	1	05/16/11	05/17/11	KWG1104361	
Pyrene	ND	U	0.049	1	05/16/11	05/17/11	KWG1104361	
Benzyl butyl phthalate	ND	U	0.49	1	05/16/11	05/17/11	KWG1104361	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/16/11	05/17/11	KWG1104361	
Benz(a)anthracene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Chrysene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/16/11	05/17/11	KWG1104361	
Benzo(b)fluoranthene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Benzo(k)fluoranthene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Benzo(a)pyrene	ND	U	0.020	1	05/16/11	05/17/11	KWG1104361	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-2-110510	**Units:**	ug/L
Lab Code:	K1104181-002	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	90	70-130	05/17/11	Acceptable
Triphenyl Phosphate	90	70-130	05/17/11	Acceptable
Perylene-d12	82	70-130	05/17/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name: DW-5-110510
Lab Code: K1104181-003

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
EPTC	ND	U	0.051	1	05/16/11	05/18/11	KWG1104361	
Dimethyl Phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Acenaphthylene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Acenaphthene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Diethyl Phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Fluorene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Propachlor	ND	U	0.074	1	05/16/11	05/18/11	KWG1104361	
Trifluralin	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Hexachlorobenzene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Simazine	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Atrazine	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Phenanthrene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Anthracene	ND	U	0.067	1	05/16/11	05/18/11	KWG1104361	
Terbacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metribuzin	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Alachlor	ND	U	0.070	1	05/16/11	05/18/11	KWG1104361	
Di-n-butyl Phthalate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Bromacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Malathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metolachlor	ND	U	0.088	1	05/16/11	05/18/11	KWG1104361	
Parathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Fluoranthene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Butachlor	ND	U	0.051	1	05/16/11	05/18/11	KWG1104361	
Pyrene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Benzyl butyl phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Benz(a)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Chrysene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Benzo(b)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(k)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(a)pyrene	ND	U	0.020	1	05/16/11	05/18/11	KWG1104361	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-5-110510	**Units:**	ug/L
Lab Code:	K1104181-003	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	86	70-130	05/18/11	Acceptable
Triphenyl Phosphate	91	70-130	05/18/11	Acceptable
Perylene-d12	81	70-130	05/18/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name: DW-6-110510
Lab Code: K1104181-004

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.10	1	05/16/11	05/18/11	KWG1104361	
EPTC	ND	U	0.052	1	05/16/11	05/18/11	KWG1104361	
Dimethyl Phthalate	ND	U	0.50	1	05/16/11	05/18/11	KWG1104361	
Acenaphthylene	ND	U	0.050	1	05/16/11	05/18/11	KWG1104361	
Acenaphthene	ND	U	0.050	1	05/16/11	05/18/11	KWG1104361	
Diethyl Phthalate	ND	U	0.50	1	05/16/11	05/18/11	KWG1104361	
Fluorene	ND	U	0.050	1	05/16/11	05/18/11	KWG1104361	
Propachlor	ND	U	0.076	1	05/16/11	05/18/11	KWG1104361	
Trifluralin	ND	U	0.10	1	05/16/11	05/18/11	KWG1104361	
Hexachlorobenzene	ND	U	0.10	1	05/16/11	05/18/11	KWG1104361	
Simazine	ND	U	0.050	1	05/16/11	05/18/11	KWG1104361	
Atrazine	ND	U	0.10	1	05/16/11	05/18/11	KWG1104361	
Phenanthrene	ND	U	0.050	1	05/16/11	05/18/11	KWG1104361	
Anthracene	ND	U	0.068	1	05/16/11	05/18/11	KWG1104361	
Terbacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metribuzin	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Alachlor	ND	U	0.072	1	05/16/11	05/18/11	KWG1104361	
Di-n-butyl Phthalate	ND	U	0.60	1	05/16/11	05/18/11	KWG1104361	
Bromacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Malathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metolachlor	ND	U	0.090	1	05/16/11	05/18/11	KWG1104361	
Parathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Fluoranthene	ND	U	0.10	1	05/16/11	05/18/11	KWG1104361	
Butachlor	ND	U	0.052	1	05/16/11	05/18/11	KWG1104361	
Pyrene	ND	U	0.050	1	05/16/11	05/18/11	KWG1104361	
Benzyl butyl phthalate	ND	U	0.50	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Adipate	ND	U	0.60	1	05/16/11	05/18/11	KWG1104361	
Benz(a)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Chrysene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Phthalate	ND	U	0.60	1	05/16/11	05/18/11	KWG1104361	
Benzo(b)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(k)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(a)pyrene	ND	U	0.020	1	05/16/11	05/18/11	KWG1104361	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-6-110510	**Units:**	ug/L
Lab Code:	K1104181-004	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	95	70-130	05/18/11	Acceptable
Triphenyl Phosphate	83	70-130	05/18/11	Acceptable
Perylene-d12	65	70-130	05/18/11	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-7-110510	**Units:**	ug/L
Lab Code:	K1104181-005	**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	05/16/11	05/18/11	KWG1104361	
EPTC	ND	U	0.051	1	05/16/11	05/18/11	KWG1104361	
Dimethyl Phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Acenaphthylene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Acenaphthene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Diethyl Phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Fluorene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Propachlor	ND	U	0.074	1	05/16/11	05/18/11	KWG1104361	
Trifluralin	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Hexachlorobenzene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Simazine	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Atrazine	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Phenanthrene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Anthracene	ND	U	0.067	1	05/16/11	05/18/11	KWG1104361	
Terbacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metribuzin	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Alachlor	ND	U	0.070	1	05/16/11	05/18/11	KWG1104361	
Di-n-butyl Phthalate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Bromacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Malathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metolachlor	ND	U	0.088	1	05/16/11	05/18/11	KWG1104361	
Parathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Fluoranthene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Butachlor	ND	U	0.051	1	05/16/11	05/18/11	KWG1104361	
Pyrene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Benzyl butyl phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Benz(a)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Chrysene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Benzo(b)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(k)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(a)pyrene	ND	U	0.020	1	05/16/11	05/18/11	KWG1104361	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-7-110510	**Units:**	ug/L
Lab Code:	K1104181-005	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	87	70-130	05/18/11	Acceptable
Triphenyl Phosphate	85	70-130	05/18/11	Acceptable
Perylene-d12	75	70-130	05/18/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/11/2011
Date Received: 05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name: DW-9-110510
Lab Code: K1104181-006

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
EPTC	ND	U	0.051	1	05/16/11	05/18/11	KWG1104361	
Dimethyl Phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Acenaphthylene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Acenaphthene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Diethyl Phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Fluorene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Propachlor	ND	U	0.074	1	05/16/11	05/18/11	KWG1104361	
Trifluralin	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Hexachlorobenzene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Simazine	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Atrazine	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Phenanthrene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Anthracene	ND	U	0.067	1	05/16/11	05/18/11	KWG1104361	
Terbacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metribuzin	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Alachlor	ND	U	0.070	1	05/16/11	05/18/11	KWG1104361	
Di-n-butyl Phthalate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Bromacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Malathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metolachlor	ND	U	0.088	1	05/16/11	05/18/11	KWG1104361	
Parathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Fluoranthene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Butachlor	ND	U	0.051	1	05/16/11	05/18/11	KWG1104361	
Pyrene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Benzyl butyl phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Benz(a)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Chrysene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Benzo(b)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(k)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(a)pyrene	ND	U	0.020	1	05/16/11	05/18/11	KWG1104361	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/11/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-9-110510	**Units:**	ug/L
Lab Code:	K1104181-006	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	92	70-130	05/18/11	Acceptable
Triphenyl Phosphate	90	70-130	05/18/11	Acceptable
Perylene-d12	73	70-130	05/18/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name: DUP-1
Lab Code: K1104181-007

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
EPTC	ND	U	0.051	1	05/16/11	05/18/11	KWG1104361	
Dimethyl Phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Acenaphthylene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Acenaphthene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Diethyl Phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Fluorene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Propachlor	ND	U	0.074	1	05/16/11	05/18/11	KWG1104361	
Trifluralin	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Hexachlorobenzene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Simazine	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Atrazine	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Phenanthrene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Anthracene	ND	U	0.067	1	05/16/11	05/18/11	KWG1104361	
Terbacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metribuzin	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Alachlor	ND	U	0.070	1	05/16/11	05/18/11	KWG1104361	
Di-n-butyl Phthalate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Bromacil	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Malathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Metolachlor	ND	U	0.088	1	05/16/11	05/18/11	KWG1104361	
Parathion	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Fluoranthene	ND	U	0.098	1	05/16/11	05/18/11	KWG1104361	
Butachlor	ND	U	0.051	1	05/16/11	05/18/11	KWG1104361	
Pyrene	ND	U	0.049	1	05/16/11	05/18/11	KWG1104361	
Benzyl butyl phthalate	ND	U	0.49	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/16/11	05/18/11	KWG1104361	
Benz(a)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Chrysene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Bis(2-ethylhexyl) Phthalate	**0.73**		0.59	1	05/16/11	05/18/11	KWG1104361	
Benzo(b)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(k)fluoranthene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(a)pyrene	ND	U	0.020	1	05/16/11	05/18/11	KWG1104361	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Semivolatile Organics by EPA Method 525.2

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1104181-007	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/16/11	05/18/11	KWG1104361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	88	70-130	05/18/11	Acceptable
Triphenyl Phosphate	85	70-130	05/18/11	Acceptable
Perylene-d12	81	70-130	05/18/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Drinking water

Service Request: K1104181
Date Collected: NA
Date Received: NA

Semivolatile Organics by EPA Method 525.2

Sample Name: Method Blank
Lab Code: KWG1104361-3

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.10	1	05/16/11	05/17/11	KWG1104361	
EPTC	ND	U	0.052	1	05/16/11	05/17/11	KWG1104361	
Dimethyl Phthalate	ND	U	0.50	1	05/16/11	05/17/11	KWG1104361	
Acenaphthylene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Acenaphthene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Diethyl Phthalate	ND	U	0.50	1	05/16/11	05/17/11	KWG1104361	
Fluorene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Propachlor	ND	U	0.076	1	05/16/11	05/17/11	KWG1104361	
Trifluralin	ND	U	0.10	1	05/16/11	05/17/11	KWG1104361	
Hexachlorobenzene	ND	U	0.10	1	05/16/11	05/17/11	KWG1104361	
Simazine	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Atrazine	ND	U	0.10	1	05/16/11	05/17/11	KWG1104361	
Phenanthrene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Anthracene	ND	U	0.068	1	05/16/11	05/17/11	KWG1104361	
Terbacil	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Metribuzin	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Alachlor	ND	U	0.072	1	05/16/11	05/17/11	KWG1104361	
Di-n-butyl Phthalate	ND	U	0.60	1	05/16/11	05/17/11	KWG1104361	
Bromacil	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Malathion	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Metolachlor	ND	U	0.090	1	05/16/11	05/17/11	KWG1104361	
Parathion	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Fluoranthene	ND	U	0.10	1	05/16/11	05/17/11	KWG1104361	
Butachlor	ND	U	0.052	1	05/16/11	05/17/11	KWG1104361	
Pyrene	ND	U	0.050	1	05/16/11	05/17/11	KWG1104361	
Benzyl butyl phthalate	ND	U	0.50	1	05/16/11	05/17/11	KWG1104361	
Bis(2-ethylhexyl) Adipate	ND	U	0.60	1	05/16/11	05/17/11	KWG1104361	
Benz(a)anthracene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Chrysene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Bis(2-ethylhexyl) Phthalate	ND	U	0.60	1	05/16/11	05/17/11	KWG1104361	
Benzo(b)fluoranthene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Benzo(k)fluoranthene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Benzo(a)pyrene	ND	U	0.020	1	05/16/11	05/17/11	KWG1104361	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**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:	KWG1104361-3	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/16/11	05/17/11	KWG1104361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	89	70-130	05/17/11	Acceptable
Triphenyl Phosphate	74	70-130	05/17/11	Acceptable
Perylene-d12	73	70-130	05/17/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Drinking water

Service Request: K1104181

Surrogate Recovery Summary
Semivolatile Organics by EPA Method 525.2

Extraction Method: METHOD
Analysis Method: 525.2

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	
Batch QC	K1104148-001	88	86	79	
DW-1-110510	K1104181-001	89	87	61	*
DW-2-110510	K1104181-002	90	90	82	
DW-5-110510	K1104181-003	86	91	81	
DW-6-110510	K1104181-004	95	83	65	*
DW-7-110510	K1104181-005	87	85	75	
DW-9-110510	K1104181-006	92	90	73	
DUP-1	K1104181-007	88	85	81	
Method Blank	KWG1104361-3	89	74	73	
Batch QCMS	KWG1104361-2	90	92	81	
Lab Control Sample	KWG1104361-1	84	72	80	

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.

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003:01	**Date Extracted:**	05/16/2011
Sample Matrix:	Drinking water	**Date Analyzed:**	05/17/2011

Matrix Spike Summary
Semivolatile Organics by EPA Method 525.2

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1104148-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2	**Extraction Lot:**	KWG1104361

Analyte Name	Sample Result	Batch QCMS KWG1104361-2 Matrix Spike Result	Expected	%Rec	%Rec Limits
Hexachlorocyclopentadiene	ND	0.877	0.971	90	70-130
EPTC	ND	0.939	0.971	97	70-130
Dimethyl Phthalate	ND	1.10	0.971	114	70-130
Acenaphthylene	ND	0.676	0.971	70	70-130
Acenaphthene	ND	0.792	0.971	82	70-130
Diethyl Phthalate	ND	1.15	0.971	118	70-130
Fluorene	ND	1.10	0.971	113	70-130
Propachlor	ND	1.14	0.971	117	70-130
Trifluralin	ND	1.05	0.971	108	70-130
Hexachlorobenzene	ND	0.867	0.971	89	70-130
Simazine	ND	0.876	0.971	90	70-130
Atrazine	ND	0.863	0.971	89	70-130
Phenanthrene	ND	0.957	0.971	99	70-130
Anthracene	ND	0.0200	0.971	2 *	70-130
Terbacil	ND	0.932	0.971	96	70-130
Metribuzin	ND	0.710	0.971	73	70-130
Alachlor	ND	0.916	0.971	94	70-130
Di-n-butyl Phthalate	ND	0.948	0.971	98	70-130
Bromacil	ND	0.941	0.971	97	70-130
Malathion	ND	0.812	0.971	84	70-130
Metolachlor	ND	0.866	0.971	89	70-130
Parathion	ND	0.917	0.971	94	70-130
Fluoranthene	ND	0.963	0.971	99	70-130
Butachlor	ND	0.854	0.971	88	70-130
Pyrene	ND	0.771	0.971	79	70-130
Benzyl butyl phthalate	ND	0.924	0.971	95	70-130
Bis(2-ethylhexyl) Adipate	ND	0.841	0.971	87	70-130
Benz(a)anthracene	ND	0.383	0.971	39 *	70-130
Chrysene	ND	0.948	0.971	98	70-130
Bis(2-ethylhexyl) Phthalate	ND	0.928	0.971	96	70-130
Benzo(b)fluoranthene	ND	0.925	0.971	95	70-130
Benzo(k)fluoranthene	ND	0.842	0.971	87	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.

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Extracted:**	05/16/2011
Sample Matrix:	Drinking water	**Date Analyzed:**	05/17/2011

Matrix Spike Summary
Semivolatile Organics by EPA Method 525.2

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1104148-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2	**Extraction Lot:**	KWG1104361

Analyte Name	Sample Result	Batch QCMS KWG1104361-2 Matrix Spike Result	Expected	%Rec	%Rec Limits
Indeno(1,2,3-cd)pyrene	ND	0.960	0.971	99	70-130
Dibenz(a,h)anthracene	ND	0.953	0.971	98	70-130
Benzo(g,h,i)perylene	ND	0.977	0.971	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.

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Drinking water

Service Request: K1104181
Date Extracted: 05/16/2011
Date Analyzed: 05/17/2011 - 05/18/2011

Lab Control Spike Summary
Semivolatile Organics by EPA Method 525.2

Extraction Method: METHOD
Analysis Method: 525.2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1104361

Analyte Name	Lab Control Sample KWG1104361-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Hexachlorocyclopentadiene	0.856	1.00	86	70-130
EPTC	0.917	1.00	92	70-130
Dimethyl Phthalate	1.06	1.00	106	70-130
Acenaphthylene	1.00	1.00	100	70-130
Acenaphthene	0.817	1.00	82	70-130
Diethyl Phthalate	1.19	1.00	119	70-130
Fluorene	1.11	1.00	111	70-130
Propachlor	1.14	1.00	114	70-130
Trifluralin	0.814	1.00	81	70-130
Hexachlorobenzene	0.848	1.00	85	70-130
Simazine	0.962	1.00	96	70-130
Atrazine	0.892	1.00	89	70-130
Phenanthrene	1.01	1.00	101	70-130
Anthracene	0.917	1.00	92	70-130
Terbacil	0.858	1.00	86	70-130
Metribuzin	0.870	1.00	87	70-130
Alachlor	0.857	1.00	86	70-130
Di-n-butyl Phthalate	0.908	1.00	91	70-130
Bromacil	0.760	1.00	76	70-130
Malathion	0.730	1.00	73	70-130
Metolachlor	0.808	1.00	81	70-130
Parathion	0.895	1.00	90	70-130
Fluoranthene	1.09	1.00	109	70-130
Butachlor	0.833	1.00	83	70-130
Pyrene	1.06	1.00	106	70-130
Benzyl butyl phthalate	0.949	1.00	95	70-130
Bis(2-ethylhexyl) Adipate	0.766	1.00	77	70-130
Benz(a)anthracene	0.971	1.00	97	70-130
Chrysene	0.972	1.00	97	70-130
Bis(2-ethylhexyl) Phthalate	0.855	1.00	85	70-130
Benzo(b)fluoranthene	0.848	1.00	85	70-130
Benzo(k)fluoranthene	0.869	1.00	87	70-130
Benzo(a)pyrene	0.854	1.00	85	70-130
Indeno(1,2,3-cd)pyrene	0.837	1.00	84	70-130
Dibenz(a,h)anthracene	0.847	1.00	85	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.

Polynuclear Aromatic Hydrocarbons

Note: the correct method for SVOC analysis established for this project is EPA Method 525.2 (results shown above) and no PAH's were detected using this method. Method 8270C SIM provides significantly lower laboratory detection limits than are required for drinking water analysis and is the incorrect method for this project.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Extracted:**	05/16/2011
Sample Matrix:	Drinking water	**Date Analyzed:**	05/17/2011 - 05/18/2011

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:	KWG1104361

	Lab Control Sample KWG1104361-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Benzo(g,h,i)perylene	0.889	1.00	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.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Polynuclear Aromatic Hydrocarbons

Sample Name:	DW-1-110510	**Units:**	ug/L
Lab Code:	K1104181-001	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.0098**		0.0033	1	05/17/11	05/20/11	KWG1104371	
2-Methylnaphthalene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenzofuran	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluorene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Phenanthrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benz(a)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Chrysene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(b)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(k)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(a)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Indeno(1,2,3-cd)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenz(a,h)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(g,h,i)perylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	77	29-98	05/20/11	Acceptable
Fluoranthene-d10	75	31-105	05/20/11	Acceptable
Terphenyl-d14	84	27-112	05/20/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Polynuclear Aromatic Hydrocarbons

Sample Name:	DW-2-110510	**Units:**	ug/L
Lab Code:	K1104181-002	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.034**		0.0033	1	05/17/11	05/20/11	KWG1104371	
2-Methylnaphthalene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenzofuran	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluorene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Phenanthrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benz(a)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Chrysene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(b)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(k)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(a)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Indeno(1,2,3-cd)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenz(a,h)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(g,h,i)perylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	70	29-98	05/20/11	Acceptable
Fluoranthene-d10	69	31-105	05/20/11	Acceptable
Terphenyl-d14	77	27-112	05/20/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Polynuclear Aromatic Hydrocarbons

Sample Name:	DW-5-110510	**Units:**	ug/L
Lab Code:	K1104181-003	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.0052**		0.0033	1	05/17/11	05/20/11	KWG1104371	
2-Methylnaphthalene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenzofuran	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluorene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Phenanthrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benz(a)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Chrysene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(b)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(k)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(a)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Indeno(1,2,3-cd)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenz(a,h)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(g,h,i)perylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	72	29-98	05/20/11	Acceptable
Fluoranthene-d10	72	31-105	05/20/11	Acceptable
Terphenyl-d14	79	27-112	05/20/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Polynuclear Aromatic Hydrocarbons

Sample Name:	DW-6-110510	**Units:**	ug/L
Lab Code:	K1104181-004	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.0091**		0.0033	1	05/17/11	05/20/11	KWG1104371	
2-Methylnaphthalene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenzofuran	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluorene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Phenanthrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benz(a)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Chrysene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(b)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(k)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(a)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Indeno(1,2,3-cd)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenz(a,h)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(g,h,i)perylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	73	29-98	05/20/11	Acceptable
Fluoranthene-d10	72	31-105	05/20/11	Acceptable
Terphenyl-d14	79	27-112	05/20/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181
Date Collected: 05/10/2011
Date Received: 05/11/2011

Polynuclear Aromatic Hydrocarbons

Sample Name: DW-7-110510
Lab Code: K1104181-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 8270C SIM

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.0070**		0.0033	1	05/17/11	05/20/11	KWG1104371	
2-Methylnaphthalene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenzofuran	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluorene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Phenanthrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benz(a)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Chrysene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(b)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(k)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(a)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Indeno(1,2,3-cd)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenz(a,h)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(g,h,i)perylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	73	29-98	05/20/11	Acceptable
Fluoranthene-d10	72	31-105	05/20/11	Acceptable
Terphenyl-d14	79	27-112	05/20/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/11/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Polynuclear Aromatic Hydrocarbons

Sample Name:	DW-9-110510	**Units:**	ug/L
Lab Code:	K1104181-006	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.0062**		0.0033	1	05/17/11	05/20/11	KWG1104371	
2-Methylnaphthalene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenzofuran	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluorene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Phenanthrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benz(a)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Chrysene	**0.0092**		0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(b)fluoranthene	**0.0089**		0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(k)fluoranthene	**0.0082**		0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(a)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Indeno(1,2,3-cd)pyrene	**0.0042**		0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenz(a,h)anthracene	**0.0059**		0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(g,h,i)perylene	**0.0051**		0.0033	1	05/17/11	05/20/11	KWG1104371	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	72	29-98	05/20/11	Acceptable
Fluoranthene-d10	71	31-105	05/20/11	Acceptable
Terphenyl-d14	79	27-112	05/20/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	05/10/2011
Sample Matrix:	Water	**Date Received:**	05/11/2011

Polynuclear Aromatic Hydrocarbons

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	K1104181-007	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.016**		0.0033	1	05/17/11	05/20/11	KWG1104371	
2-Methylnaphthalene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenzofuran	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluorene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Phenanthrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benz(a)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Chrysene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(b)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(k)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(a)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Indeno(1,2,3-cd)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenz(a,h)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(g,h,i)perylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	75	29-98	05/20/11	Acceptable
Fluoranthene-d10	71	31-105	05/20/11	Acceptable
Terphenyl-d14	81	27-112	05/20/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1104371-3	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
2-Methylnaphthalene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Acenaphthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenzofuran	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluorene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Phenanthrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benz(a)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Chrysene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(b)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(k)fluoranthene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(a)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Indeno(1,2,3-cd)pyrene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Dibenz(a,h)anthracene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	
Benzo(g,h,i)perylene	ND	U	0.0033	1	05/17/11	05/20/11	KWG1104371	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	76	29-98	05/20/11	Acceptable
Fluoranthene-d10	72	31-105	05/20/11	Acceptable
Terphenyl-d14	82	27-112	05/20/11	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Longview/0997003.01
Sample Matrix: Water

Service Request: K1104181

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3520C
Analysis Method: 8270C SIM

Units: ug/L
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
DW-1-110510	K1104181-001	77	75	84
DW-2-110510	K1104181-002	70	69	77
DW-5-110510	K1104181-003	72	72	79
DW-6-110510	K1104181-004	73	72	79
DW-7-110510	K1104181-005	73	72	79
DW-9-110510	K1104181-006	72	71	79
DUP-1	K1104181-007	75	71	81
Method Blank	KWG1104371-3	76	72	82
Lab Control Sample	KWG1104371-1	73	71	80
Duplicate Lab Control Sample	KWG1104371-2	74	74	81

Surrogate Recovery Control Limits (%)

Sur1 =	Fluorene-d10	29-98
Sur2 =	Fluoranthene-d10	31-105
Sur3 =	Terphenyl-d14	27-112

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.

QA/QC Report

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1104181
Project:	Longview/0997003.01	**Date Extracted:**	05/17/2011
Sample Matrix:	Water	**Date Analyzed:**	05/20/2011

Lab Control Spike/Duplicate Lab Control Spike Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method:	EPA 3520C	**Units:**	ug/L
Analysis Method:	8270C SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1104371

	Lab Control Sample KWG1104371-1 Lab Control Spike			Duplicate Lab Control Sample KWG1104371-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Naphthalene	0.359	0.500	72	0.363	0.500	73	39-110	1	30
2-Methylnaphthalene	0.325	0.500	65	0.322	0.500	64	39-115	1	30
Acenaphthylene	0.388	0.500	78	0.378	0.500	76	44-115	3	30
Acenaphthene	0.376	0.500	75	0.372	0.500	74	44-113	1	30
Dibenzofuran	0.385	0.500	77	0.376	0.500	75	46-116	2	30
Fluorene	0.383	0.500	77	0.375	0.500	75	48-118	2	30
Phenanthrene	0.395	0.500	79	0.395	0.500	79	47-120	0	30
Anthracene	0.361	0.500	72	0.365	0.500	73	44-117	1	30
Fluoranthene	0.376	0.500	75	0.372	0.500	74	48-128	1	30
Pyrene	0.416	0.500	83	0.409	0.500	82	42-133	2	30
Benz(a)anthracene	0.417	0.500	83	0.403	0.500	81	48-125	3	30
Chrysene	0.409	0.500	82	0.402	0.500	80	50-128	2	30
Benzo(b)fluoranthene	0.437	0.500	87	0.432	0.500	86	49-131	1	30
Benzo(k)fluoranthene	0.428	0.500	86	0.420	0.500	84	54-131	2	30
Benzo(a)pyrene	0.411	0.500	82	0.402	0.500	80	43-134	2	30
Indeno(1,2,3-cd)pyrene	0.446	0.500	89	0.436	0.500	87	45-133	2	30
Dibenz(a,h)anthracene	0.448	0.500	90	0.435	0.500	87	49-133	3	30
Benzo(g,h,i)perylene	0.437	0.500	87	0.428	0.500	86	51-124	2	30

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

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