Trail Ridge Landfill

Semiannual Water Quality Monitoring Report

Operating Permit Number 0013493-017-SO

Prepared for:

Trail Ridge Landfill
5110 U.S. Highway 301 South
Baldwin, FL 32234

Prepared by:

HDR Engineering, Inc.
200 West Forsyth Street, Suite 800
Jacksonville, Florida 32202
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October 2010

TRAIL RIDGE LANDFILL

Semiannual Water Quality Data Report

Prepared for:
Trail Ridge Landfill
5110 U.S. Highway 301, South
Jacksonville, Florida 32234

FDEP Permit Number	0013493-017-SO
WACS ID Number	NED/16/00033628

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October 2010

Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31)
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9)

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Trail Ridge Landfill, Inc.

Address 5110 U.S. Highway 301

City Baldwin, FL Zip 32234 County Duval

Telephone Number (850) 474-8846

(2) WACS Facility ID NED/16/00033628

(3) DEP Permit Number 0013493-017-SO

(4) Authorized Representative's Name Eric Parker Title Manager of Env. Protection

Address 5110 US Hwy 301

City Baldwin, FL Zip 322534 County Duval

Telephone Number (904) 289-9100 Ext. 212

Email address (if available) EParker1@wm.com

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

10-11-10
(Date)

Eric Parker
(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Professional Tech. Support Services

Analytical Lab NELAC / HRS Certification # NELAP Certification E87667

Lab Name Test America, Inc.

Address 4955 Yarrow Street, Arvada, CO 80002

Phone Number (303) 736-0100

Email address (if available) Danielle.Harrington@testamericainc.com

EXECUTIVE SUMMARY

Semiannual Water Quality Data Report for Trail Ridge Landfill

This semiannual water quality monitoring report was completed on behalf of the Trail Ridge Landfill (Trail Ridge) located in Jacksonville, Duval County, Florida. The data reviewed were obtained during the routine semiannual detection monitoring event conducted in July 2010. The groundwater at Trail Ridge is monitored by thirty-seven wells including five background wells and three surface water sample points in accordance with Permit Number 0013493-010-SC. The groundwater wells are monitored semiannually for the parameters listed under Attachment 6 and Specific Condition 45 of the Permit. The three surface water points are monitored semiannually for parameters listed under Attachment 9 and Specific Condition 46 of the Permit. Leachate is monitored annually and reported during the 2nd semiannual sampling event for the parameters listed in Specific Condition 40 of the Permit. Condensate is discharged into the leachate collection system, which is monitored in accordance with the leachate sampling requirement. Therefore testing of gas condensate is no longer conducted.

A detailed review of the monitoring data indicates that iron exceeded the Secondary Drinking Water Standard (SDWS) in samples from 26 of the 37 monitoring wells including all five background wells. This finding is consistent with historical reports which show that the levels of iron in the groundwater at Trail Ridge result from the geochemical kinetics processes of soil minerals in groundwater and are characteristic of the groundwater in Duval County. The pH of samples from 32 of the 37 wells was below the SDWS of 6.5 S.U., including four background wells (i.e., pH's below 6.5 S.U. are naturally occurring). Total dissolved solids was detected from one well (MWB-34(S)c) above the Secondary Drinking Water Standard (SDWS), which is consistent with the historical data. Consistent with the monitoring history, vanadium was detected from two wells (MWB-12(S)c and MWB-13(S)c) above the Groundwater Cleanup Target Level.

Several VOCs were detected at MWB-2(S)c at trace levels slightly above laboratory detection limits but below the reporting limit and substantially below applicable groundwater standards. VOC's detected at trace levels include 2-butanone, acetone, and toluene. These concentrations are substantially below their respective groundwater standards. Toluene was also detected from MWB-2(S)c, MWB-2(I)c, and field blank below the report limit. These compounds are common field and laboratory contaminants.

The field measured pH and dissolved oxygen of the surface water samples from both SW-1 and SW-2 (background location) exceeded the Class III standard limits. Calculated unionized ammonia concentration from SW-3 was above the Class III limit. Beryllium was detected from SW-2 and mercury was detected from all surface water points below reporting limits but above their respective Class III standards. Iron from SW-1 and SW-3 were also detected above the Class III standards. The remainder of the data meets the water quality standards.

Overall, the data reported is consistent with the site's overall groundwater quality and historical data. The parameters detected at levels above applicable SDWS have been previously reported to the FDEP and there are no new exceedances requiring reporting under 62-701.510(7)a.

Based on recent monitoring well inspections, all of the wells are maintained in good condition. Surface seals, protective casings, well caps, and well locks are in-place and in proper condition at each well to ensure that

samples collected from the wells are representative of the aquifer. Trail Ridge will continue to closely monitor the facility and evaluate the water quality data obtained during detection monitoring.

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1.0 INTRODUCTION

This semiannual groundwater monitoring report is submitted on behalf of the Trail Ridge Landfill (Trail Ridge) located in Jacksonville, Florida. Trail Ridge is located to the west of US Highway 301 South, in the western portion of Duval County, Florida. It is located at 5110 U.S. Highway 301 South in Baldwin, Florida. The landfill is about 4 1/2 miles southwest of the intersection of US 301 and I-10. Trail Ridge is an active municipal solid waste landfill owned by the City of Jacksonville and operated by Waste Management. Operation of the Landfill is in accordance with Permit Number 0013493-017-SO, issued September 16, 2009 and the applicable provisions of previous permits.

The data submitted in this groundwater quality assessment were obtained during the routine semiannual detection-monitoring event conducted on July 16-18, 2010. During this monitoring period, groundwater wells were monitored for the parameters listed in Attachment 6 of the permit. In conjunction with the groundwater monitoring, surface water samples were collected and analyzed for the parameters listed in Attachment 9 of the permit.

The groundwater and surface water monitoring program at Trail Ridge incorporates monitoring elements to provide environmental protection during site operation and after landfill closure. All field work, sampling methodologies, data evaluation, data QA/QC, and laboratory analyses were conducted in accordance with the site permit, and the sample team and National Environmental Laboratory Accreditation Conference (NELAC) standards.

1.1 Background

As identified in the following tables, 37 wells comprise the facility's routine groundwater monitoring system with an additional nine wells that are maintained but only sampled if required for assessment monitoring. Five of the 37 wells are designated background wells, seven wells are designated detection wells and 25 are designated as compliance wells. An additional nine compliance wells are part of the permitted groundwater monitoring network but in accordance with Specific Condition 45 of the permit not utilized unless required for assessment monitoring. Monitoring well designations are shown in the following tables.

Location	Well ID
Background	MWB-2(S)b, MWB-2(I)b MWB-3(S)b, MWB-3(I)b MWB-31(D)b
Phase I Compliance	MWB-7(S)c, MWB-7(I)c, MWB-7(D)c MWB-11(S)c, MWB-11(IR)c MWB-12(S)c, MWB-12(I)c, MWB-12(D)c MWB-19(S)c, MWB-19(I)c, MWB-19(D)c MWB-20(S)c MWB-21(S)c MWB-22(S)c
Phase II Compliance	MWB-17(S)c, MWB-17(I)c, MWB-17(D)c
Phase III & Phase IV Compliance	MWB-13(S)c, MWB-13(I)c
Phase III Detection	MWB-33(S)d MWB-34(S)d MWB-34(I)d, MWB-34(D)d
Phase V Compliance	MWB-27(S)c, MWB-27(I)c, MWB-27(D)c MWB-29(S)c, MWB-29(I)c, MWB-29(D)c
Phase V Detection	MWB-32(S)d, MWB-32(I)d, MWB-32(D)d

Specific Condition 45: These wells shall be maintained but will not be utilized unless required for assessment monitoring.	
Location	**Well ID**
Phase I Compliance	MWB-14(S)c, MWB-14(I)c, MWB-14(D)c
Phase III & Phase IV Compliance	MWB-23(S)c
Phase IV Compliance	MWB-24(S)c, MWB-25(S)c, MWB-25(I)c, MWB-25(D)c, MWB-26(S)c

The monitoring wells are installed around the perimeter of the landfill and are screened in three zones within the Surficial Aquifer (Shallow, Intermediate, and Deep zones). The monitoring wells are sampled and analyzed semiannually for the parameters listed in Attachment III of the permit. Sampling is required by permit to be conducted prior to March 30, and September 30 of each year, with reports submitted to the FDEP for each sampling period no later than April 15 and October 15 each year.

Surface water flow at the site mimics topography, with runoff in a predominantly eastward direction and drainage features trending west-east. There are three surface water monitoring sites (designated SW-1, SW-2, and SW-3). Monitoring location SW-1 is located in a wetland, approximately 200 feet east of the landfill's stormwater retention pond. Monitoring location SW-2 is located in a west-east trending drainage feature, approximately 500 feet north of the landfill. SW-2 is considered a background sampling location, since it does not receive run-off directly from the landfill area. SW-3 is a new monitoring point established under the permit issued September 16, 2009 and is located in the existing stormwater pond

approximately 700 feet east of the landfill boundary. SW-3 is collected at the discharge point if actively discharging or at the center of the pond if there is no discharge. In accordance with Chapter 62-701, FAC, surface water monitoring is performed on a semiannual basis in conjunction with the groundwater monitoring schedule.

In accordance with Specific Condition 40 of the operating permit, leachate is sampled and analyzed annually prior to September 30. Leachate collection pipes that lie on top of the primary liner terminate at the leachate collection sumps. These sumps also collect any leachate flowing along the secondary leak detection system. The sump is designed so that the leachate from the primary and secondary systems is separated. Therefore, it is necessary to have two pumps in each sump, one for the primary leachate collection system and one for the secondary leachate collection system. Two samples are collected, a composite sample (from tanks 1-5 designated LCS) and a sample of secondary leachate collection system (tank 6 designated LDSS). The leachate is pumped from the sumps through primary and secondary force mains to six 20,000-gallon storage tanks. Tanks 1 through 5 (interconnected) receive the leachate collected from all of the primary leachate collection sumps via one force main. Tank 6 receives leachate that is pumped through a separate force main from the secondary leachate collection sumps. Previous sampling procedures required sampling of all six tanks. However, since tanks 1 through 5 contain the same leachate, sampling procedures were modified during the 1997 permit renewal for the site to the collection of two (2) samples (one for the secondary leachate collection tank and one composite sample of the five primary leachate collection tanks).

In accordance with Specific Condition 38 of the current permit, gas condensate is discharged into the leachate collecting system and testing of condensate is no longer required.

In a letter dated June 15, 2004, FDEP concurred with the site Contamination Evaluation Plan and follow-up letter requesting that the site return to Detection Monitoring and to terminate sampling of the compliance wells. As reported previously, these compliance wells will not be sampled during future events unless otherwise required by the FDEP, and the site has returned to detection monitoring.

2.0 GROUNDWATER MONITORING DATA

The following section contains an evaluation of the groundwater monitoring data. The groundwater data from each of the compliance wells is compared to the background groundwater quality and the applicable water quality standards.

Professional Technical Support Services, Inc. (Pro-Tech) conducted the field activities at the Trail Ridge, in which groundwater elevation data, field measurements, and samples for laboratory analyses were collected. Columbia Analytical Services performed the laboratory analyses. The laboratory reports for the groundwater samples are included in Appendix A.

2.1 Field Data

On July 20 to 21, 2010, Pro-Tech performed the field activities at the Trail Ridge. The field measurements, sample collection, and sample preservation were conducted in accordance with Rule 62-160, F.A.C. and the FDEP Standard Operating Procedures (DEP-SOP-001/01). Prior to purging (on February 16th), depth to water and water level elevations were recorded to the nearest hundredth of a foot from a surveyed reference datum. The water level measurements were utilized for determining water

volumes in the well casing and used to determine groundwater flow direction and gradient at the site (Figures 1-3). Water levels were collected within the same day prior to sampling.

The average horizontal gradient across the site indicates that groundwater flow directions and gradients in the three zones are very similar, with the deep zone on average, having a slightly flatter gradient than the shallow and intermediate zones. There were no obvious seasonal trends in gradient fluctuations. As noted in previous reports, groundwater flow direction in all three zones is predominantly eastward. Current data reflects little change or variation in flow direction in any of the three zones.

Bladder pumps were used to evacuate a volume (3.06 to 11.6 gallons) of water from within each monitoring well. Following completion of purging activities, samples were collected from the wells using the bladder pumps. During sampling, field parameters including dissolved oxygen, pH, temperature, turbidity, specific conductance, and physical characteristics of the water samples, as well as the meteorological conditions at the time of sampling were noted on the field forms with the field data (Appendix A). Following collection of samples into laboratory provided containers and ice chests. The samples were forwarded to the contract laboratory under signed chain of custody documentation. Trip blanks were submitted for laboratory analyses with the samples.

A review of the field data shows that the field pH levels of the groundwater samples collected from four background wells and twenty-seven compliance wells were below the lower limit of SDWS (pH 6.5) except in one background well (MWB-31(D)b) and five compliance wells (MWB-7(D)c, MWB-12(D)c, MWB-19(D)c, MWB-27(S)c, and MWB-34(D)c. Four of these wells are deep surficial groundwater wells and one is shallow surficial groundwater well. Based on historical data, these pH levels are characteristic of the site.

Sample turbidity at one shallow Surficial well (MWB-2S) and one intermediate Surficial well (MWB-29I) was above 20 NTU's.

2.2 Laboratory Parameters

The groundwater samples collected from the site were transferred to Columbia Analytical Services (located in Jacksonville, FL) for analysis. The laboratory analyses including the quality control procedures were conducted in accordance with Rule 62-160, F.A.C. Samples submitted were analyzed within the required holding times, unless otherwise noted in the laboratory reports. Quality controls exceedances are discussed in the narrative portion of the laboratory reports for each lot of samples analyzed (Appendix A). The monitoring parameters were compared to the groundwater quality standards as designated in 62-550.310 and 62-550.320, F.A.C.

A review of the groundwater data notes that:

- total iron exceeded the FDEP's SDWS of 300 μg/L at all five background monitoring wells and twenty-one compliance/detection wells (MWB-7(I)c, MWB-11(S)c, MWB-11(IR)c, MWB-12(I)c, MWB-12(D)c, MWB-13(S)c, MWB-13(I)c, MWB-17(I)c, MWB-17(D)c, MWB-19(I)c, MWB-19(D)c, MWB-27(S)c MWB-27(I)c, MWB-27(D)c, MWB-29(S)c, MWB-29(I)c, MWB-29(D)c, MWB-32(D)d, MWB-33(S)d, MWB-34(I)d, and MWB-34(D)d). Iron concentrations from most shallow surficial wells (MWB-7(S)c, MWB-12(S)c, MWB-17(S)c, MWB-19(S)c, MWB-20(S)c, MWB-21(S)c, MWB-22(S)c, MWB-32(S)c, and MWB-34(S)c) met the SDWS. Iron concentrations

have historically been reported above the SDWS at this site and are considered to be reflective of natural groundwater conditions in the area. High iron levels detected are believed to be soluble and are unlikely related to turbidity at most wells because sample turbidity is less than 20 NTU's except at two wells (MWB-02S and MWB-29I). The relatively high iron concentrations associated with a neutral pH in the deeper surficial groundwater is likely due to groundwater reduction, in which microbes degrade organic matter and pass free electron to ferric iron where dissolved oxygen has been relatively depleted. As a result, iron transformed from insoluble ferric form into a soluble ferrous form by accepting free electron (e) and proton under a reduced groundwater condition:

$$Fe(OH)_3 + H^+ + e = Fe(OH)_2 + H_2O$$

Groundwater reduction resulted in shifting groundwater pH from an acidic state to a neutral state (near pH 7).

- Vanadium was also detected in samples from two wells (MWB-12(S)c and MWB-13(S)c) at levels above the GCTL, which is consistent with historic results.

No other parameters were detected at levels above applicable groundwater standards. No VOCs were detected above the detection limits except 2-butanone, acetone and toluene at MWB-2(S)c, which were detected at trace levels below the reporting limits and well below the Groundwater Cleanup Target Limits (GCTL). Toluene was also detected at MWB-2(I)c and Field Blank below the reporting limit. These compounds are common field and laboratory contaminants.

3.0 SURFACE WATER MONITORING DATA

The following section contains an evaluation of the surface water monitoring data. The surface water data is compared to the applicable water quality standards. The laboratory reports and field forms for the surface water samples are included in Appendix B.

A review of the surface water data notes that none of the volatile organic compounds (VOCs) monitored for were detected above the laboratory reporting limits. The following details compounds detected above Class III Surface Water Standards (Chapter 62-302, FAC).

- Consistent with historical data, field measured dissolved oxygen and pH for SW-1 and SW-2 (the background location) were below the Class III Surface Water Standard of 5.0 mg/L and 6.0 SU, respectively.
- Fecal Coliform counts at SW-2 and SW-3 were 380 cfu/100 ml and 320 cfu/100 ml, respectively, which are above the Class III standard of 200 MPN (Monthly Average), but are below the 800 MPN maximum on any one day criteria, which are consistent with the historical results.
- Turbidity (173 NTU) at SW-3 was above the Class III standard, which was consistent with the past result.
- Consistent with the historic results, the detected iron concentrations at SW-1 and SW-3 were above the Class III standard (1 mg/L). Iron detected at SW-3 is likely associated with a high turbidity.
- Trace levels of mercury was detected at levels below the reporting limit at all three surface water sampling locations. However, these levels were above the Class III standard (0.012 µg/L).

- Beryllium from SW-2 was detected below the reporting limit, but was above the Class III standard (0.13 µg/L annual average), which is consistent with the historic results
- The calculated un-ionized ammonia concentration at SW-3 was above the Class III standard of 0.02 mg/L. The calculated un-ionized ammonia concentration increased with both ammonia-N and pH of the surface water sample.

All other surface water data are below applicable surface water standards and are consistent with the historical data obtained.

4.0 LEACHATE MONITORING DATA

In accordance with Specific Condition 40 of the permit, leachate is sampled annually prior to September 30 for parameter listed Specific Condition 40 of the Permit. Gas condensate is now discharged into the leachate; and condensate testing is no longer required. Leachate samples (LCS and LDSS) were sampled on July 21st, 2010 and transported to Columbia Analytical Services for analysis. The laboratory report is provided in Appendix C. Review of the leachate data indicated that none of the parameters detected were above any limits listed under 40 CFR Part 261.24.

5.0 SUMMARY

The data obtained during this semiannual monitoring event at the Trail Ridge are generally consistent with the historical data. No groundwater parameters were detected above the PDWS during this sampling event. The groundwater parameters detected at levels above applicable SDWS have been previously reported to the FDEP and there are no new exceedances requiring reporting under 62-701.510(7)a. Total iron and pH for most groundwater samples (including background samples) routinely exceeded SDWS for most wells. These detections are consistent with background water quality.

The field measured pH, dissolved oxygen, and turbidity, and laboratory measured iron, unionized ammonia, and fecal coliform for one or more surface water locations were above the respective Class III standards. Beryllium from SW-2 and mercury from all three surface water locations were detected below the reporting limits; but above the Class III standard. The low pH has been historically detected in both up and down stream surface water samples; and is not considered a result of site activities. The remainder of the data is below applicable groundwater or surface water quality standards and is consistent with the historical data. The monitoring well network continues to adequately monitor the landfill.

6.0 CERTIFICATION

This document has been prepared under my direction in general accordance with Chapter 62-701, Florida Solid Waste Management Facility Regulations. The information contained within this report is to the best of my knowledge and belief, true, accurate, and complete.

Handi Wang, PhD, CPSS
HDR Engineering, Inc.
Sr. Environmental Scientist

Bradford M. Stone, P.E.
HDR Engineering, Inc
Vice President
FL License No. 53110
Date

10-11-2016

Figures

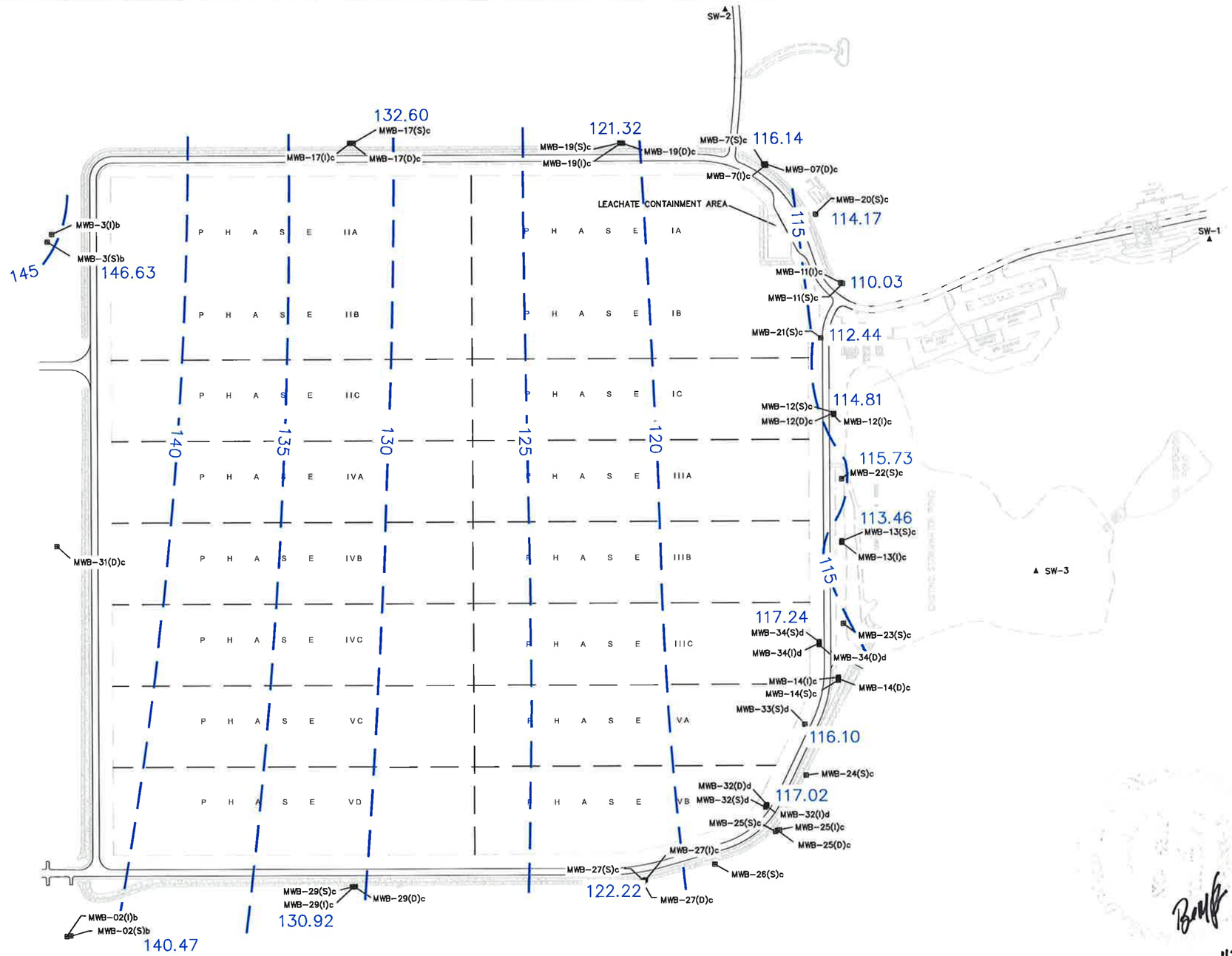
N

GRAPHIC SCALE

250 100 0 100 200 300 400

(IN FEET)
1 INCH = 400 FEET

GROUNDWATER WELL SURVEY DATA					
WELL ID	NORTHING	EASTING	TOP OF CASING ELEVATION (FT NGVD)	DEPTH TO WATER (FT bTOC)	SCREENED INTERVAL (FT bTOC)
MWB-02(S)b	2141385.08	324825.98	146.6	6.2	10.0–20.0
MWB-03(S)b	2143945.04	324771.88	154.4	7.8	10.0–20.0
MWB-07(S)c	2144200.78	327417.58	123.3	7.2	10.0–20.0
MWB-11(S)c	2143755.32	327703.68	120.8	10.8	9.5–19.5
MWB-12(S)c	2143281.06	327682.25	124.6	9.8	14.5–24.5
MWB-13(S)c	2142807.57	327687.97	126.1	12.6	16.6–26.6
MWB-17(S)c	2144295.29	325905.58	138.3	5.7	13.3–18.3
MWB-19(S)c	2144284.38	326888.42	127.4	8.1	10.0–20.0
MWB-20(S)c	2144012.47	327607.93	121.0	6.8	10.0–20.0
MWB-21(S)c	2143556.32	327620.57	122.8	10.4	13.0–18.0
MWB-22(S)c	2143035.78	327689.95	127.0	11.2	16.0–26.0
MWB-27(S)c	2141563.57	326939.44	128.4	6.2	10.5–15.5
MWB-29(S)c	2141554.36	325886.04	138.0	7.1	10.0–20.0
MWB-32(S)d	2141830.50	327392.55	124.6	7.6	14.9–19.9
MWB-33(S)d	2142135.13	327541.18	125.9	9.8	10.3–20.3
MWB-34(S)d	2142438.07	327598.51	125.8	8.5	13.4–18.4



10-11-2010

HDR

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GROUNDWATER CONTOUR MAP
SHALLOW WELLS
TRAIL RIDGE LANDFILL

MEASUREMENT DATE: JULY 20, 2010

DATE
OCT. 2010

FIGURE
FIG 1

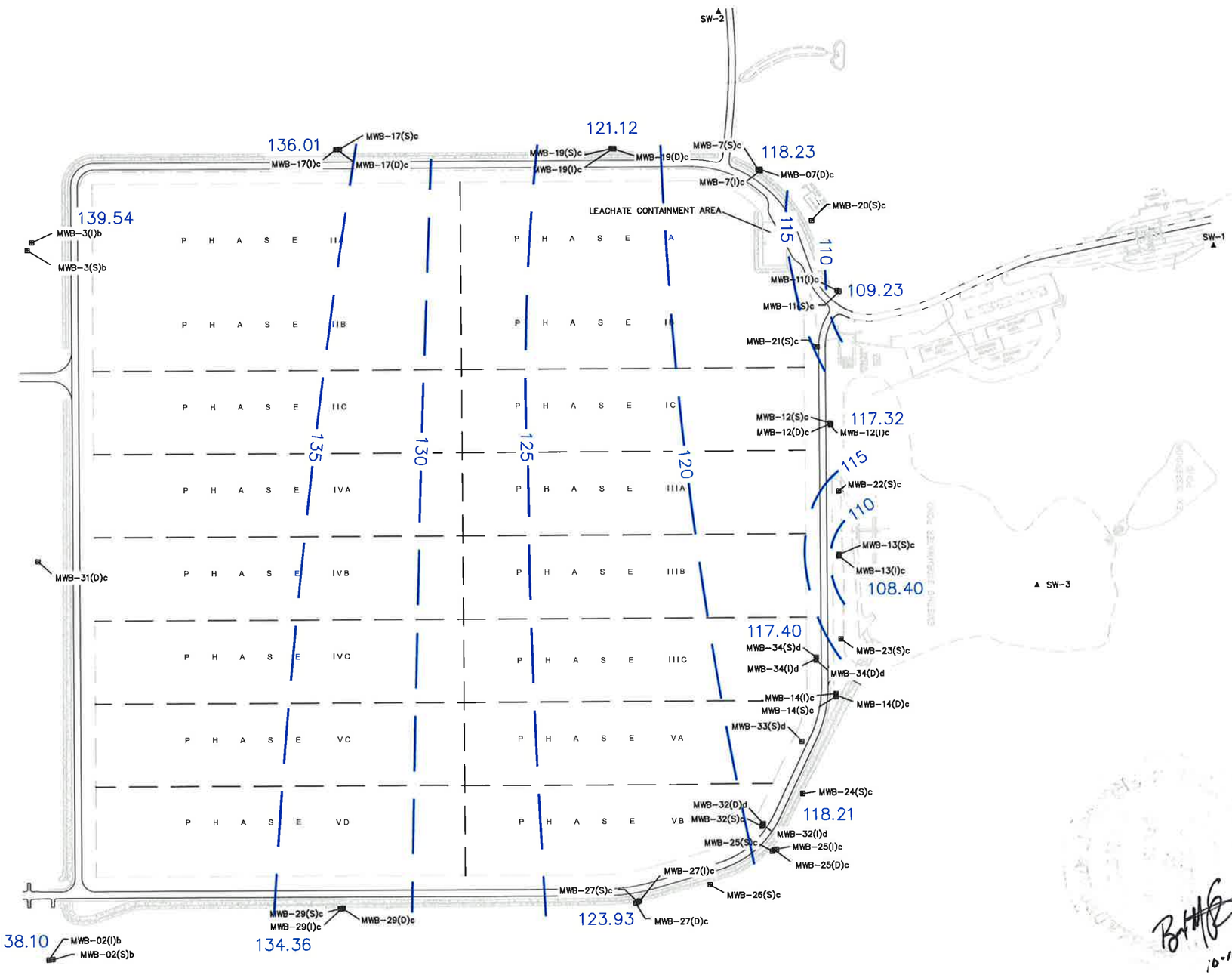
N

GRAPHIC SCALE

250 100 0 100 200 300 400

(IN FEET)
1 INCH = 400 FEET

GROUNDWATER WELL SURVEY DATA					
WELL ID	NORTHING	EASTING	TOP OF CASING ELEVATION (FT NGVD)	DEPTH TO WATER (FT bTOC)	SCREENED INTERVAL (FT bTOC)
MWB-02(I)b	2141383.31	324811.77	145.7	7.6	51.5–81.5
MWB-03(I)b	2143072.50	324788.45	151.9	12.3	52.0–82.0
MWB-07(I)c	2144195.81	327425.14	121.5	3.3	55.0–85.0
MWB-11(I)c	2143758.91	327696.72	120.4	11.2	45.0–55.0
MWB-12(I)c	2143273.26	327663.85	124.6	7.3	61.5–71.5
MWB-13(I)c	2142802.08	327686.70	126.0	17.6	50.4–60.4
MWB-17(I)c	2144294.74	325892.95	138.4	2.4	50.1–60.1
MWB-19(I)c	2144283.60	326893.45	127.9	6.8	49.0–59.0
MWB-27(I)c	2141567.11	326945.24	128.6	4.7	52.5–62.5
MWB-29(I)c	2141553.54	325871.43	136.1	3.7	53.5–63.5
MWB-32(I)d	2141835.46	327394.94	124.8	6.6	54.6–64.6
MWB-34(I)d	2142432.74	327598.45	125.8	8.4	44.0–54.0



10-11-2010

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GROUNDWATER CONTOUR MAP
INTERMEDIATE WELLS
TRAIL RIDGE LANDFILL

MEASUREMENT DATE: JULY 20, 2010

DATE
OCT. 2010

FIGURE
FIG 2

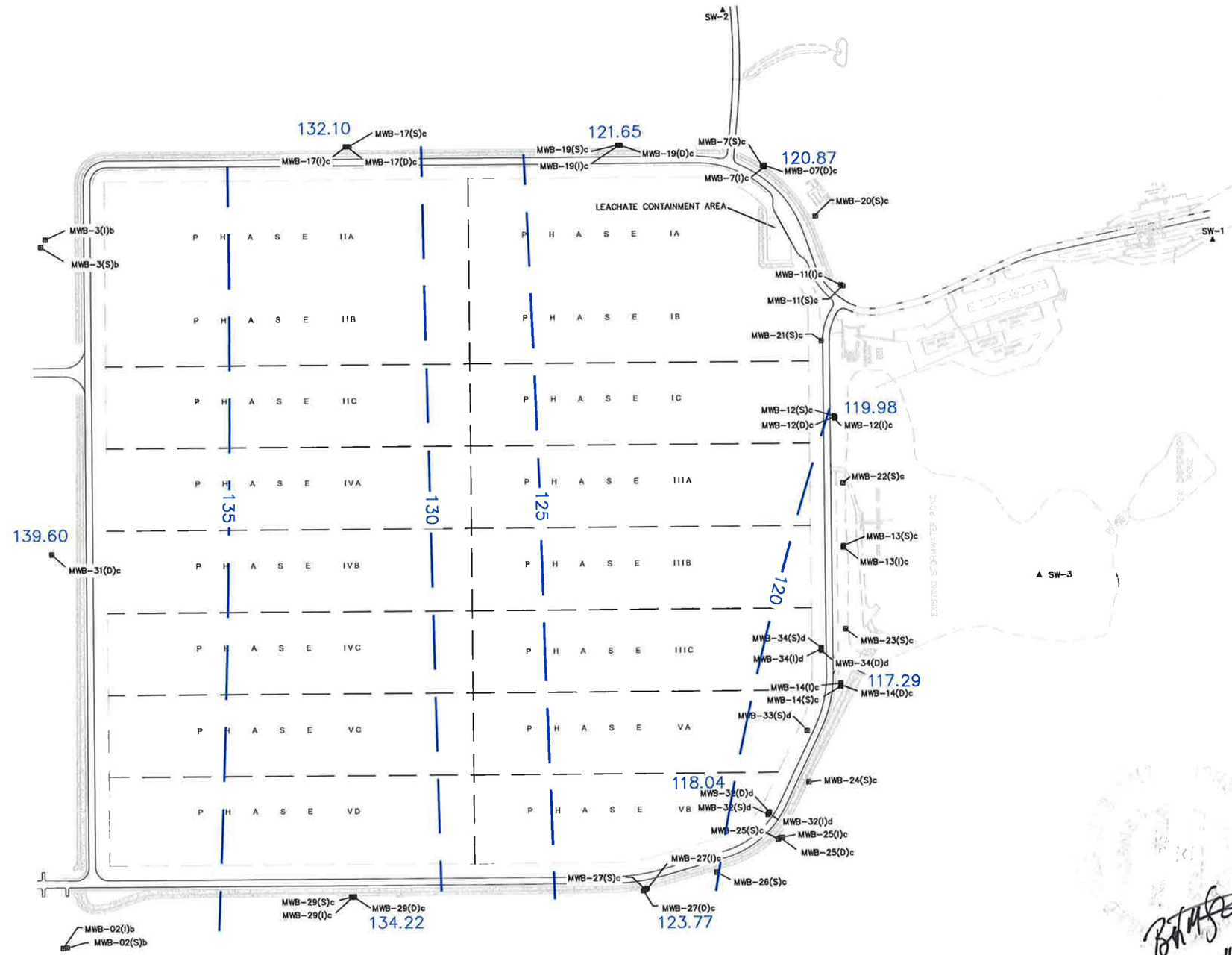
N

GRAPHIC SCALE

250 100 0 100 200 300 400

(IN FEET)
1 INCH = 400 FEET

GROUNDWATER WELL SURVEY DATA					
WELL ID	NORTHING	EASTING	TOP OF CASING ELEVATION (FT NGVD)	DEPTH TO WATER (FT bTOC)	SCREENED INTERVAL (FT bTOC)
MWB-07(D)d	2144200.50	327424.47	121.7	0.8	107.0–117.0
MWB-12(D)d	2143277.78	327665.18	124.6	4.8	102.0–112.0
MWB-17(D)d	2144294.88	325898.87	138.5	8.4	117.3–127.3
MWB-19(D)d	2144283.27	326898.35	128.2	8.8	105.5–115.5
MWB-27(D)d	2141559.56	326932.31	128.9	5.1	100.0–110.0
MWB-29(D)d	2141555.03	325878.40	138.2	4.0	100.5–110.5
MWB-31(D)d	2142821.94	324793.77	156.2	15.6	119.0–129.0
MWB-32(D)d	2141839.49	327397.40	124.9	6.9	98.8–108.8
MWB-34(D)d	2142427.98	327598.03	125.9	8.6	90.8–100.8



10-11-2010

HDR

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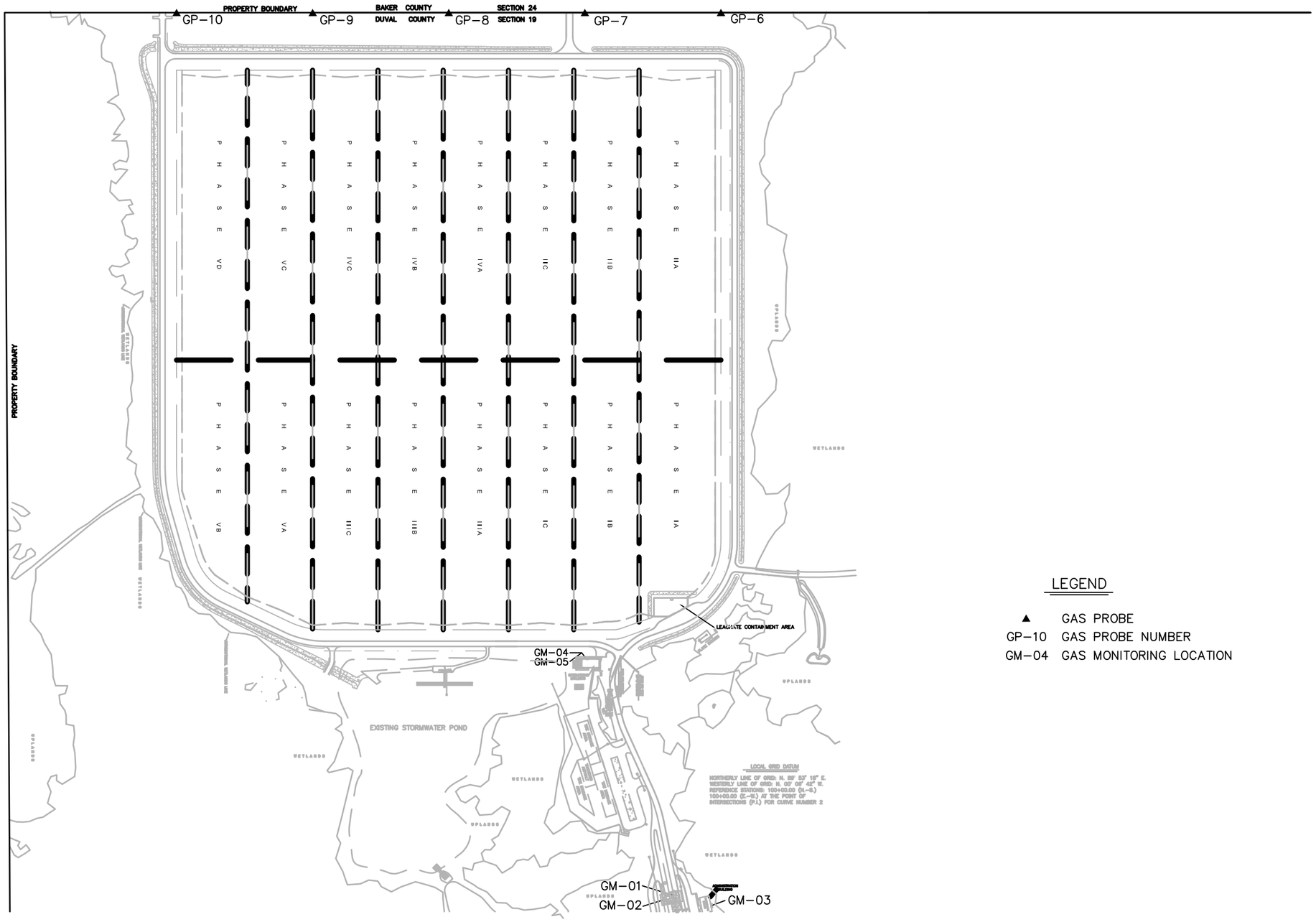
GROUNDWATER CONTOUR MAP
DEEP WELLS
TRAIL RIDGE LANDFILL

MEASUREMENT DATE: JULY 20, 2010

DATE
OCT. 2010

FIGURE
FIG 3



GRAPHIC SCALE

312.5 125 0 125 250 375 500

(IN FEET)
1 INCH = 500 FEET

LEGEND

▲ GAS PROBE
GP-10 GAS PROBE NUMBER
GM-04 GAS MONITORING LOCATION

COORDINATES OF METHANE PROBE/ METHANE MONITORING LOCATIONS

PROBE ID	NORTHING	EASTING
GM-01	2143966.55	328801.11
GM-02	2143933.06	328815.77
GM-03	2144129.76	328849.80
GM-04	2143568.49	327721.64
GM-05	2143568.49	327721.64
GP-06	2144181.42	324749.14
GP-07	2143555.92	324749.14
GP-08	2142930.42	324749.14
GP-09	2142304.92	324749.14
GP-10	2141679.42	324749.14

HDR
HDR ENGINEERING, INC.
200 W. FORSYTH ST.
SUITE 800
JACKSONVILLE, FL 32202
(904) 598-8900

METHANE PROBE/ METHANE MONITORING LOCATIONS
TRAIL RIDGE LANDFILL

MEASUREMENT DATE: JULY 20, 2010

DATE
OCT. 2010

FIGURE
FIG 4

Appendix A

Laboratory Report – Groundwater Sample Points with Field Data Sheets

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

August 23, 2010

Service Request No: J1003438

Handi Wang
HDR Engineering
200 W. Forsyth Street, Suite 800
Jacksonville, FL 32202

Laboratory Results for: Trail Ridge

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on July 21, 2010. For your reference, these analyses have been assigned our service request number **J1003438**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. 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 contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	HDR Engineering	**Service Request No.:**	J1003438
Project:	Trail Ridge	**Date Received:**	7/21/10
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, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Forty-two water samples and one trip blank were received for analysis at Columbia Analytical Services on 7/21/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Continuing Calibration Verification Exceptions

The primary evaluation criterion was exceeded for the following analyte in Continuing Calibration Verification (CCV) JWG1002593-2: trans-1,4-Dichloro-2-butene. The primary evaluation criterion was exceeded for the following analyte in Continuing Calibration Verification (CCV) JWG1002607-2: Acetone. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Matrix Spike Recovery Exceptions

The matrix spike recoveries of several analytes for sample MWB17I were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The recoveries were not significantly outside of control criteria. No further corrective action was required.

Relative Percent Difference Exceptions

The Relative Percent Difference (RPD) for the following analytes in the replicate matrix spike analyses of MWB22S and MWB17D were outside control criteria: trans-1,4-Dichloro-2-butene. The analyte in question was not detected in the field samples. Since the analyte was detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was appropriate.

Approved by _____ **Date** 8/23/10

Lab Control Sample Exceptions

The spike recoveries of Vinyl Acetate and trans-1,4-Dichloro-2-butene for Laboratory Control Sample (LCS) JQ1003037-01 were outside the lower control criterion. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. The following observations were made regarding this delivery group.

Second Source Verification Exceptions

The upper control criterion was exceeded for the following analytes in the Second Source Verification (SSV): 1,2-Dibromoethane (EDB) and 1,2-Dibromo-3-chloropropane (DBCP). The field samples analyzed in this sequence did not contain the analytes in question. Because elevated recovery equates to a potential high bias, the data is not significantly affected. No further corrective action was taken.

Continuing Calibration Verification Exceptions

The upper control criterion was exceeded for the following surrogate in Continuing Calibration Verification (CCV) JWG1002610-4: 1,1,1,2-Tetrachloroethane. The field samples analyzed in this sequence all had passing or biased high surrogate recoveries and no target analytes were detected in these samples. Because elevated recovery equates to a potential high bias, the data is not significantly affected. No further corrective action was taken.

Surrogate Exceptions

The upper control criterion was exceeded for the following surrogate in samples DUP02, MWB34I, MWB34D, and DUP03: 1,1,1,2-Tetrachloroethane. No target analytes were detected in the samples. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions

The matrix spike recovery of 1,2-Dibromoethane (EDB) for sample MWB3S and the duplicate matrix spike recovery of 1,2-Dibromoethane (EDB) for sample MWB29ID were outside control criteria. Recoveries in the Laboratory Control Samples (LCS) were acceptable, which indicates the analytical batches were in control. No further corrective action was appropriate.

Relative Percent Difference Exceptions

The Relative Percent Differences (RPD) for the following analyte in the replicate matrix spike analyses of samples MWB3S and MWG29ID were outside control criteria: 1,2-Dibromoethane (EDB). All spike recoveries in the associated Laboratory Control Samples (LCS) were within acceptance limits, indicating the analytical batches were in control. No further corrective action was appropriate.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Approved by _____ **Date** 8/23/10

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. The following observations were made regarding this delivery group.

Method Blank Exceptions

Method Blank J1003438-MB contained a low level of Ammonia above the Method Detection Limit (MDL), but less than the Method Reporting Limit (MRL). Samples MWB3S, MWB3I, and MWB11(R) exhibited this analyte in approximately the same concentration as the method blank. The data is flagged with a qualifier to indicate the results are estimated values. The method blank results may indicate the potential for a false positive.

Approved by_____ **Date** 8/23/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

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.

Client:
Project: Trail Ridge

Service Request: J1003438

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1003438-001	MWB3S	7/20/10	10:01
J1003438-002	MWB3I	7/20/10	10:30
J1003438-003	MWB19D	7/20/10	11:07
J1003438-004	MWB19I	7/20/10	11:38
J1003438-005	MWB19S	7/20/10	12:07
J1003438-006	MWB20S	7/20/10	12:37
J1003438-007	MWB11S	7/20/10	13:10
J1003438-008	MWB11I(R)	7/20/10	13:42
J1003438-009	MWB12D	7/20/10	14:18
J1003438-010	MWB12I	7/20/10	14:18
J1003438-011	MWB7I	7/20/10	13:09
J1003438-012	MWB7D	7/20/10	13:40
J1003438-013	MWB21S	7/20/10	14:08
J1003438-014	MWB22S	7/20/10	15:15
J1003438-015	DUP02	7/20/10	15:15
J1003438-016	MWB29D	7/20/10	07:28
J1003438-017	MWB29I	7/20/10	07:59
J1003438-018	MWB29S	7/20/10	08:28
J1003438-019	MWB2I	7/20/10	09:00
J1003438-020	MWB2S	7/20/10	09:29
J1003438-021	MWB33S	7/20/10	16:20
J1003438-022	MWB27S	7/20/10	08:15
J1003438-023	MWB27I	7/20/10	08:43
J1003438-024	MWB27D	7/20/10	09:18
J1003438-025	DUP01	7/20/10	09:18
J1003438-026	MWB31D	7/20/10	10:04
J1003438-027	MWB17S	7/20/10	10:42
J1003438-028	MWB17D	7/20/10	11:15
J1003438-029	MWB17I	7/20/10	11:49
J1003438-030	MWB7S	7/20/10	12:32
J1003438-031	MWB12S	7/20/10	15:20
J1003438-032	MWB13I	7/20/10	16:02
J1003438-033	MWB13S	7/21/10	09:09
J1003438-034	MWB32S	7/21/10	11:09
J1003438-035	MWB32I	7/21/10	12:19
J1003438-036	MWB32D	7/21/10	12:43
J1003438-037	MWB34S	7/21/10	09:59
J1003438-038	MWB34I	7/21/10	12:28
J1003438-039	MWB34D	7/21/10	09:24
J1003438-040	DUP03	7/21/10	12:19
J1003438-041	DUP04	7/21/10	12:28
J1003438-042	FB	7/21/10	12:53
J1003438-043	Trip Blank	7/20/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1001
Date Received: 7/21/10

Sample Name: MWB3S
Lab Code: J1003438-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/26/10 20:04		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/26/10 20:04		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/26/10 20:04		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/26/10 20:04		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/26/10 20:04		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/26/10 20:04		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/26/10 20:04		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/26/10 20:04		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/26/10 20:04		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/26/10 20:04		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/26/10 20:04		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/26/10 20:04		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/26/10 20:04		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/26/10 20:04		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/26/10 20:04		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/26/10 20:04		210096
Acetone	ND	U	50.0	5.60	1	NA	7/26/10 20:04		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/26/10 20:04		210096
Benzene	ND	U	1.00	0.210	1	NA	7/26/10 20:04		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/26/10 20:04		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/26/10 20:04		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/26/10 20:04		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/26/10 20:04		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/26/10 20:04		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/26/10 20:04		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/26/10 20:04		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/26/10 20:04		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/26/10 20:04		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/26/10 20:04		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/26/10 20:04		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/26/10 20:04		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/26/10 20:04		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/26/10 20:04		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/26/10 20:04		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/26/10 20:04		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/26/10 20:04		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1001
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB3S	**Units:**	µg/L
Lab Code:	J1003438-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/26/10 20:04		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/26/10 20:04		210096
Styrene	ND	U	1.00	0.291	1	NA	7/26/10 20:04		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/26/10 20:04		210096
Toluene	ND	U	1.00	0.190	1	NA	7/26/10 20:04		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/26/10 20:04		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/26/10 20:04		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/26/10 20:04		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/26/10 20:04		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/26/10 20:04		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/26/10 20:04		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/26/10 20:04		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	94	71-122	7/26/10 20:04	
4-Bromofluorobenzene	109	75-120	7/26/10 20:04	
Dibromofluoromethane	96	82-116	7/26/10 20:04	
Toluene-d8	96	88-117	7/26/10 20:04	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1030
Date Received: 7/21/10

Sample Name: MWB3I
Lab Code: J1003438-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/26/10 20:35		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/26/10 20:35		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/26/10 20:35		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/26/10 20:35		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/26/10 20:35		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/26/10 20:35		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/26/10 20:35		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/26/10 20:35		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/26/10 20:35		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/26/10 20:35		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/26/10 20:35		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/26/10 20:35		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/26/10 20:35		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/26/10 20:35		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/26/10 20:35		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/26/10 20:35		210096
Acetone	ND	U	50.0	5.60	1	NA	7/26/10 20:35		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/26/10 20:35		210096
Benzene	ND	U	1.00	0.210	1	NA	7/26/10 20:35		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/26/10 20:35		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/26/10 20:35		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/26/10 20:35		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/26/10 20:35		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/26/10 20:35		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/26/10 20:35		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/26/10 20:35		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/26/10 20:35		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/26/10 20:35		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/26/10 20:35		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/26/10 20:35		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/26/10 20:35		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/26/10 20:35		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/26/10 20:35		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/26/10 20:35		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/26/10 20:35		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/26/10 20:35		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1030
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB3I	**Units:**	µg/L
Lab Code:	J1003438-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/26/10 20:35		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/26/10 20:35		210096
Styrene	ND	U	1.00	0.291	1	NA	7/26/10 20:35		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/26/10 20:35		210096
Toluene	ND	U	1.00	0.190	1	NA	7/26/10 20:35		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/26/10 20:35		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/26/10 20:35		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/26/10 20:35		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/26/10 20:35		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/26/10 20:35		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/26/10 20:35		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/26/10 20:35		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/26/10 20:35	
4-Bromofluorobenzene	102	75-120	7/26/10 20:35	
Dibromofluoromethane	96	82-116	7/26/10 20:35	
Toluene-d8	99	88-117	7/26/10 20:35	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1107
Date Received: 7/21/10

Sample Name: MWB19D
Lab Code: J1003438-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/26/10 21:06		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/26/10 21:06		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/26/10 21:06		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/26/10 21:06		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/26/10 21:06		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/26/10 21:06		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/26/10 21:06		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/26/10 21:06		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/26/10 21:06		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/26/10 21:06		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/26/10 21:06		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/26/10 21:06		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/26/10 21:06		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/26/10 21:06		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/26/10 21:06		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/26/10 21:06		210096
Acetone	ND	U	50.0	5.60	1	NA	7/26/10 21:06		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/26/10 21:06		210096
Benzene	ND	U	1.00	0.210	1	NA	7/26/10 21:06		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/26/10 21:06		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/26/10 21:06		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/26/10 21:06		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/26/10 21:06		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/26/10 21:06		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/26/10 21:06		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/26/10 21:06		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/26/10 21:06		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/26/10 21:06		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/26/10 21:06		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/26/10 21:06		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/26/10 21:06		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/26/10 21:06		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/26/10 21:06		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/26/10 21:06		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/26/10 21:06		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/26/10 21:06		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1107
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB19D	**Units:**	µg/L
Lab Code:	J1003438-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/26/10 21:06		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/26/10 21:06		210096
Styrene	ND	U	1.00	0.291	1	NA	7/26/10 21:06		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/26/10 21:06		210096
Toluene	ND	U	1.00	0.190	1	NA	7/26/10 21:06		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/26/10 21:06		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/26/10 21:06		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/26/10 21:06		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/26/10 21:06		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/26/10 21:06		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/26/10 21:06		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/26/10 21:06		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	71-122	7/26/10 21:06	
4-Bromofluorobenzene	100	75-120	7/26/10 21:06	
Dibromofluoromethane	98	82-116	7/26/10 21:06	
Toluene-d8	102	88-117	7/26/10 21:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1138
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB19I	**Units:**	µg/L
Lab Code:	J1003438-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/26/10 21:37		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/26/10 21:37		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/26/10 21:37		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/26/10 21:37		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/26/10 21:37		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/26/10 21:37		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/26/10 21:37		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/26/10 21:37		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/26/10 21:37		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/26/10 21:37		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/26/10 21:37		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/26/10 21:37		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/26/10 21:37		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/26/10 21:37		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/26/10 21:37		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/26/10 21:37		210096
Acetone	ND	U	50.0	5.60	1	NA	7/26/10 21:37		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/26/10 21:37		210096
Benzene	ND	U	1.00	0.210	1	NA	7/26/10 21:37		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/26/10 21:37		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/26/10 21:37		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/26/10 21:37		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/26/10 21:37		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/26/10 21:37		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/26/10 21:37		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/26/10 21:37		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/26/10 21:37		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/26/10 21:37		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/26/10 21:37		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/26/10 21:37		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/26/10 21:37		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/26/10 21:37		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/26/10 21:37		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/26/10 21:37		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/26/10 21:37		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/26/10 21:37		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1138
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB19I	**Units:**	µg/L
Lab Code:	J1003438-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/26/10 21:37		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/26/10 21:37		210096
Styrene	ND	U	1.00	0.291	1	NA	7/26/10 21:37		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/26/10 21:37		210096
Toluene	ND	U	1.00	0.190	1	NA	7/26/10 21:37		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/26/10 21:37		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/26/10 21:37		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/26/10 21:37		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/26/10 21:37		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/26/10 21:37		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/26/10 21:37		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/26/10 21:37		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/26/10 21:37	
4-Bromofluorobenzene	102	75-120	7/26/10 21:37	
Dibromofluoromethane	94	82-116	7/26/10 21:37	
Toluene-d8	101	88-117	7/26/10 21:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1207
Date Received: 7/21/10

Sample Name: MWB19S
Lab Code: J1003438-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/26/10 22:09		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/26/10 22:09		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/26/10 22:09		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/26/10 22:09		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/26/10 22:09		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/26/10 22:09		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/26/10 22:09		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/26/10 22:09		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/26/10 22:09		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/26/10 22:09		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/26/10 22:09		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/26/10 22:09		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/26/10 22:09		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/26/10 22:09		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/26/10 22:09		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/26/10 22:09		210096
Acetone	ND	U	50.0	5.60	1	NA	7/26/10 22:09		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/26/10 22:09		210096
Benzene	ND	U	1.00	0.210	1	NA	7/26/10 22:09		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/26/10 22:09		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/26/10 22:09		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/26/10 22:09		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/26/10 22:09		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/26/10 22:09		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/26/10 22:09		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/26/10 22:09		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/26/10 22:09		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/26/10 22:09		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/26/10 22:09		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/26/10 22:09		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/26/10 22:09		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/26/10 22:09		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/26/10 22:09		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/26/10 22:09		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/26/10 22:09		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/26/10 22:09		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1207
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB19S	**Units:**	µg/L
Lab Code:	J1003438-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/26/10 22:09		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/26/10 22:09		210096
Styrene	ND	U	1.00	0.291	1	NA	7/26/10 22:09		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/26/10 22:09		210096
Toluene	ND	U	1.00	0.190	1	NA	7/26/10 22:09		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/26/10 22:09		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/26/10 22:09		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/26/10 22:09		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/26/10 22:09		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/26/10 22:09		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/26/10 22:09		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/26/10 22:09		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/26/10 22:09	
4-Bromofluorobenzene	104	75-120	7/26/10 22:09	
Dibromofluoromethane	100	82-116	7/26/10 22:09	
Toluene-d8	95	88-117	7/26/10 22:09	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1237
Date Received: 7/21/10

Sample Name: MWB20S
Lab Code: J1003438-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/26/10 22:40		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/26/10 22:40		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/26/10 22:40		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/26/10 22:40		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/26/10 22:40		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/26/10 22:40		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/26/10 22:40		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/26/10 22:40		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/26/10 22:40		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/26/10 22:40		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/26/10 22:40		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/26/10 22:40		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/26/10 22:40		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/26/10 22:40		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/26/10 22:40		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/26/10 22:40		210096
Acetone	ND	U	50.0	5.60	1	NA	7/26/10 22:40		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/26/10 22:40		210096
Benzene	ND	U	1.00	0.210	1	NA	7/26/10 22:40		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/26/10 22:40		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/26/10 22:40		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/26/10 22:40		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/26/10 22:40		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/26/10 22:40		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/26/10 22:40		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/26/10 22:40		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/26/10 22:40		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/26/10 22:40		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/26/10 22:40		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/26/10 22:40		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/26/10 22:40		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/26/10 22:40		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/26/10 22:40		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/26/10 22:40		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/26/10 22:40		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/26/10 22:40		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1237
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB20S	**Units:**	µg/L
Lab Code:	J1003438-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/26/10 22:40		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/26/10 22:40		210096
Styrene	ND	U	1.00	0.291	1	NA	7/26/10 22:40		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/26/10 22:40		210096
Toluene	ND	U	1.00	0.190	1	NA	7/26/10 22:40		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/26/10 22:40		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/26/10 22:40		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/26/10 22:40		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/26/10 22:40		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/26/10 22:40		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/26/10 22:40		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/26/10 22:40		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/26/10 22:40	
4-Bromofluorobenzene	106	75-120	7/26/10 22:40	
Dibromofluoromethane	97	82-116	7/26/10 22:40	
Toluene-d8	102	88-117	7/26/10 22:40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1310
Date Received: 7/21/10

Sample Name: MWB11S
Lab Code: J1003438-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/26/10 23:10		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/26/10 23:10		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/26/10 23:10		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/26/10 23:10		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/26/10 23:10		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/26/10 23:10		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/26/10 23:10		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/26/10 23:10		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/26/10 23:10		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/26/10 23:10		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/26/10 23:10		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/26/10 23:10		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/26/10 23:10		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/26/10 23:10		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/26/10 23:10		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/26/10 23:10		210096
Acetone	ND	U	50.0	5.60	1	NA	7/26/10 23:10		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/26/10 23:10		210096
Benzene	ND	U	1.00	0.210	1	NA	7/26/10 23:10		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/26/10 23:10		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/26/10 23:10		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/26/10 23:10		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/26/10 23:10		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/26/10 23:10		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/26/10 23:10		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/26/10 23:10		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/26/10 23:10		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/26/10 23:10		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/26/10 23:10		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/26/10 23:10		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/26/10 23:10		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/26/10 23:10		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/26/10 23:10		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/26/10 23:10		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/26/10 23:10		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/26/10 23:10		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1310
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB11S	**Units:**	µg/L
Lab Code:	J1003438-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/26/10 23:10		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/26/10 23:10		210096
Styrene	ND	U	1.00	0.291	1	NA	7/26/10 23:10		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/26/10 23:10		210096
Toluene	ND	U	1.00	0.190	1	NA	7/26/10 23:10		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/26/10 23:10		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/26/10 23:10		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/26/10 23:10		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/26/10 23:10		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/26/10 23:10		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/26/10 23:10		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/26/10 23:10		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/26/10 23:10	
4-Bromofluorobenzene	106	75-120	7/26/10 23:10	
Dibromofluoromethane	96	82-116	7/26/10 23:10	
Toluene-d8	99	88-117	7/26/10 23:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1342
Date Received: 7/21/10

Sample Name: MWB11I(R)
Lab Code: J1003438-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/26/10 23:41		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/26/10 23:41		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/26/10 23:41		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/26/10 23:41		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/26/10 23:41		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/26/10 23:41		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/26/10 23:41		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/26/10 23:41		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/26/10 23:41		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/26/10 23:41		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/26/10 23:41		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/26/10 23:41		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/26/10 23:41		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/26/10 23:41		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/26/10 23:41		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/26/10 23:41		210096
Acetone	ND	U	50.0	5.60	1	NA	7/26/10 23:41		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/26/10 23:41		210096
Benzene	ND	U	1.00	0.210	1	NA	7/26/10 23:41		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/26/10 23:41		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/26/10 23:41		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/26/10 23:41		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/26/10 23:41		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/26/10 23:41		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/26/10 23:41		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/26/10 23:41		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/26/10 23:41		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/26/10 23:41		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/26/10 23:41		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/26/10 23:41		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/26/10 23:41		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/26/10 23:41		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/26/10 23:41		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/26/10 23:41		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/26/10 23:41		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/26/10 23:41		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1342
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB11I(R)	**Units:**	µg/L
Lab Code:	J1003438-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/26/10 23:41		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/26/10 23:41		210096
Styrene	ND	U	1.00	0.291	1	NA	7/26/10 23:41		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/26/10 23:41		210096
Toluene	ND	U	1.00	0.190	1	NA	7/26/10 23:41		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/26/10 23:41		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/26/10 23:41		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/26/10 23:41		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/26/10 23:41		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/26/10 23:41		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/26/10 23:41		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/26/10 23:41		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/26/10 23:41	
4-Bromofluorobenzene	104	75-120	7/26/10 23:41	
Dibromofluoromethane	99	82-116	7/26/10 23:41	
Toluene-d8	98	88-117	7/26/10 23:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1418
Date Received: 7/21/10

Sample Name: MWB12D
Lab Code: J1003438-009

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 00:13		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 00:13		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 00:13		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 00:13		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 00:13		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 00:13		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 00:13		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 00:13		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 00:13		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 00:13		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 00:13		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 00:13		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 00:13		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 00:13		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 00:13		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 00:13		210096
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 00:13		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 00:13		210096
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 00:13		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 00:13		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 00:13		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 00:13		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 00:13		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 00:13		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 00:13		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 00:13		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 00:13		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 00:13		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 00:13		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 00:13		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 00:13		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 00:13		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 00:13		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 00:13		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 00:13		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 00:13		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1418
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB12D	**Units:**	µg/L
Lab Code:	J1003438-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 00:13		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 00:13		210096
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 00:13		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 00:13		210096
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 00:13		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 00:13		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 00:13		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 00:13		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 00:13		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 00:13		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 00:13		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 00:13		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	94	71-122	7/27/10 00:13	
4-Bromofluorobenzene	104	75-120	7/27/10 00:13	
Dibromofluoromethane	95	82-116	7/27/10 00:13	
Toluene-d8	99	88-117	7/27/10 00:13	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1418
Date Received: 7/21/10

Sample Name: MWB12I
Lab Code: J1003438-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 00:44		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 00:44		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 00:44		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 00:44		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 00:44		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 00:44		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 00:44		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 00:44		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 00:44		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 00:44		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 00:44		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 00:44		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 00:44		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 00:44		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 00:44		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 00:44		210096
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 00:44		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 00:44		210096
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 00:44		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 00:44		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 00:44		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 00:44		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 00:44		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 00:44		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 00:44		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 00:44		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 00:44		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 00:44		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 00:44		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 00:44		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 00:44		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 00:44		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 00:44		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 00:44		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 00:44		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 00:44		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1418
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB12I	**Units:**	µg/L
Lab Code:	J1003438-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 00:44		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 00:44		210096
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 00:44		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 00:44		210096
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 00:44		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 00:44		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 00:44		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 00:44		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 00:44		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 00:44		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 00:44		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 00:44		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/27/10 00:44	
4-Bromofluorobenzene	103	75-120	7/27/10 00:44	
Dibromofluoromethane	98	82-116	7/27/10 00:44	
Toluene-d8	100	88-117	7/27/10 00:44	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1309
Date Received: 7/21/10

Sample Name: MWB7I
Lab Code: J1003438-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 01:15		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 01:15		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 01:15		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 01:15		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 01:15		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 01:15		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 01:15		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 01:15		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 01:15		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 01:15		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 01:15		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 01:15		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 01:15		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 01:15		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 01:15		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 01:15		210096
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 01:15		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 01:15		210096
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 01:15		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 01:15		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 01:15		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 01:15		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 01:15		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 01:15		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 01:15		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 01:15		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 01:15		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 01:15		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 01:15		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 01:15		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 01:15		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 01:15		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 01:15		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 01:15		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 01:15		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 01:15		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1309
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB7I	**Units:**	µg/L
Lab Code:	J1003438-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 01:15		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 01:15		210096
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 01:15		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 01:15		210096
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 01:15		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 01:15		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 01:15		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 01:15		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 01:15		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 01:15		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 01:15		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 01:15		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/27/10 01:15	
4-Bromofluorobenzene	101	75-120	7/27/10 01:15	
Dibromofluoromethane	95	82-116	7/27/10 01:15	
Toluene-d8	101	88-117	7/27/10 01:15	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1340
Date Received: 7/21/10

Sample Name: MWB7D
Lab Code: J1003438-012

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 01:46		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 01:46		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 01:46		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 01:46		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 01:46		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 01:46		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 01:46		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 01:46		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 01:46		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 01:46		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 01:46		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 01:46		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 01:46		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 01:46		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 01:46		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 01:46		210096
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 01:46		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 01:46		210096
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 01:46		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 01:46		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 01:46		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 01:46		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 01:46		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 01:46		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 01:46		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 01:46		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 01:46		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 01:46		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 01:46		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 01:46		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 01:46		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 01:46		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 01:46		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 01:46		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 01:46		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 01:46		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1340
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB7D	**Units:**	µg/L
Lab Code:	J1003438-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 01:46		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 01:46		210096
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 01:46		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 01:46		210096
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 01:46		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 01:46		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 01:46		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 01:46		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 01:46		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 01:46		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 01:46		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 01:46		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	71-122	7/27/10 01:46	
4-Bromofluorobenzene	102	75-120	7/27/10 01:46	
Dibromofluoromethane	101	82-116	7/27/10 01:46	
Toluene-d8	98	88-117	7/27/10 01:46	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1408
Date Received: 7/21/10

Sample Name: MWB21S
Lab Code: J1003438-013

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 02:17		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 02:17		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 02:17		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 02:17		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 02:17		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 02:17		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 02:17		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 02:17		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 02:17		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 02:17		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 02:17		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 02:17		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 02:17		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 02:17		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 02:17		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 02:17		210096
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 02:17		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 02:17		210096
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 02:17		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 02:17		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 02:17		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 02:17		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 02:17		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 02:17		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 02:17		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 02:17		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 02:17		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 02:17		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 02:17		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 02:17		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 02:17		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 02:17		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 02:17		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 02:17		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 02:17		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 02:17		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1408
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB21S	**Units:**	µg/L
Lab Code:	J1003438-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 02:17		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 02:17		210096
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 02:17		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 02:17		210096
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 02:17		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 02:17		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 02:17		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 02:17		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 02:17		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 02:17		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 02:17		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 02:17		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/27/10 02:17	
4-Bromofluorobenzene	104	75-120	7/27/10 02:17	
Dibromofluoromethane	98	82-116	7/27/10 02:17	
Toluene-d8	98	88-117	7/27/10 02:17	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1515
Date Received: 7/21/10

Sample Name: MWB22S
Lab Code: J1003438-014

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 02:48		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 02:48		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 02:48		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 02:48		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 02:48		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 02:48		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 02:48		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 02:48		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 02:48		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 02:48		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 02:48		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 02:48		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 02:48		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 02:48		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 02:48		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 02:48		210096
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 02:48		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 02:48		210096
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 02:48		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 02:48		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 02:48		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 02:48		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 02:48		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 02:48		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 02:48		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 02:48		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 02:48		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 02:48		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 02:48		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 02:48		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 02:48		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 02:48		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 02:48		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 02:48		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 02:48		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 02:48		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1515
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB22S	**Units:**	µg/L
Lab Code:	J1003438-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 02:48		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 02:48		210096
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 02:48		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 02:48		210096
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 02:48		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 02:48		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 02:48		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 02:48		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 02:48		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 02:48		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 02:48		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 02:48		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	97	71-122	7/27/10 02:48	
4-Bromofluorobenzene	103	75-120	7/27/10 02:48	
Dibromofluoromethane	94	82-116	7/27/10 02:48	
Toluene-d8	99	88-117	7/27/10 02:48	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1515
Date Received: 7/21/10

Sample Name: DUP02
Lab Code: J1003438-015

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 08:45		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 08:45		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 08:45		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 08:45		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 08:45		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 08:45		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 08:45		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 08:45		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 08:45		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 08:45		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 08:45		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 08:45		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 08:45		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 08:45		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 08:45		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 08:45		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 08:45		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 08:45		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 08:45		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 08:45		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 08:45		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 08:45		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 08:45		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 08:45		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 08:45		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 08:45		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 08:45		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 08:45		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 08:45		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 08:45		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 08:45		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 08:45		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 08:45		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 08:45		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 08:45		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 08:45		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1515
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	DUP02	**Units:**	µg/L
Lab Code:	J1003438-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 08:45		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 08:45		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 08:45		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 08:45		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 08:45		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 08:45		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 08:45		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 08:45		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 08:45		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 08:45		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 08:45		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 08:45		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/27/10 08:45	
4-Bromofluorobenzene	109	75-120	7/27/10 08:45	
Dibromofluoromethane	97	82-116	7/27/10 08:45	
Toluene-d8	99	88-117	7/27/10 08:45	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0728
Date Received: 7/21/10

Sample Name: MWB29D
Lab Code: J1003438-016

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 09:16		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 09:16		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 09:16		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 09:16		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 09:16		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 09:16		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 09:16		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 09:16		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 09:16		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 09:16		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 09:16		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 09:16		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 09:16		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 09:16		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 09:16		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 09:16		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 09:16		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 09:16		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 09:16		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 09:16		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 09:16		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 09:16		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 09:16		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 09:16		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 09:16		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 09:16		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 09:16		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 09:16		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 09:16		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 09:16		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 09:16		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 09:16		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 09:16		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 09:16		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 09:16		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 09:16		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0728
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB29D	**Units:**	µg/L
Lab Code:	J1003438-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 09:16		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 09:16		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 09:16		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 09:16		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 09:16		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 09:16		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 09:16		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 09:16		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 09:16		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 09:16		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 09:16		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 09:16		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	71-122	7/27/10 09:16	
4-Bromofluorobenzene	108	75-120	7/27/10 09:16	
Dibromofluoromethane	95	82-116	7/27/10 09:16	
Toluene-d8	97	88-117	7/27/10 09:16	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0759
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB29I	**Units:**	µg/L
Lab Code:	J1003438-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 09:47		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 09:47		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 09:47		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 09:47		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 09:47		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 09:47		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 09:47		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 09:47		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 09:47		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 09:47		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 09:47		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 09:47		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 09:47		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 09:47		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 09:47		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 09:47		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 09:47		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 09:47		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 09:47		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 09:47		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 09:47		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 09:47		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 09:47		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 09:47		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 09:47		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 09:47		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 09:47		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 09:47		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 09:47		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 09:47		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 09:47		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 09:47		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 09:47		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 09:47		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 09:47		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 09:47		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0759
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB29I	**Units:**	µg/L
Lab Code:	J1003438-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 09:47		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 09:47		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 09:47		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 09:47		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 09:47		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 09:47		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 09:47		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 09:47		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 09:47		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 09:47		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 09:47		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 09:47		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	93	71-122	7/27/10 09:47	
4-Bromofluorobenzene	99	75-120	7/27/10 09:47	
Dibromofluoromethane	93	82-116	7/27/10 09:47	
Toluene-d8	97	88-117	7/27/10 09:47	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0828
Date Received: 7/21/10

Sample Name: MWB29S
Lab Code: J1003438-018

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 10:18		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 10:18		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 10:18		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 10:18		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 10:18		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 10:18		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 10:18		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 10:18		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 10:18		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 10:18		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 10:18		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 10:18		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 10:18		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 10:18		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 10:18		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 10:18		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 10:18		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 10:18		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 10:18		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 10:18		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 10:18		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 10:18		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 10:18		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 10:18		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 10:18		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 10:18		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 10:18		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 10:18		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 10:18		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 10:18		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 10:18		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 10:18		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 10:18		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 10:18		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 10:18		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 10:18		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0828
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB29S	**Units:**	µg/L
Lab Code:	J1003438-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 10:18		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 10:18		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 10:18		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 10:18		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 10:18		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 10:18		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 10:18		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 10:18		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 10:18		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 10:18		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 10:18		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 10:18		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	71-122	7/27/10 10:18	
4-Bromofluorobenzene	105	75-120	7/27/10 10:18	
Dibromofluoromethane	93	82-116	7/27/10 10:18	
Toluene-d8	97	88-117	7/27/10 10:18	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0900
Date Received: 7/21/10

Sample Name: MWB2I
Lab Code: J1003438-019

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 10:49		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 10:49		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 10:49		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 10:49		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 10:49		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 10:49		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 10:49		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 10:49		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 10:49		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 10:49		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 10:49		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 10:49		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 10:49		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 10:49		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 10:49		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 10:49		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 10:49		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 10:49		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 10:49		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 10:49		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 10:49		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 10:49		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 10:49		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 10:49		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 10:49		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 10:49		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 10:49		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 10:49		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 10:49		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 10:49		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 10:49		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 10:49		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 10:49		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 10:49		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 10:49		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 10:49		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0900
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB2I	**Units:**	µg/L
Lab Code:	J1003438-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 10:49		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 10:49		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 10:49		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 10:49		210383
Toluene	**0.307**	I	1.00	0.190	1	NA	7/27/10 10:49		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 10:49		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 10:49		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 10:49		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 10:49		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 10:49		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 10:49		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 10:49		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	71-122	7/27/10 10:49	
4-Bromofluorobenzene	101	75-120	7/27/10 10:49	
Dibromofluoromethane	98	82-116	7/27/10 10:49	
Toluene-d8	97	88-117	7/27/10 10:49	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0929
Date Received: 7/21/10

Sample Name: MWB2S
Lab Code: J1003438-020

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 11:21		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 11:21		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 11:21		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 11:21		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 11:21		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 11:21		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 11:21		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 11:21		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 11:21		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 11:21		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 11:21		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 11:21		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 11:21		210383
2-Butanone (MEK)	**5.35**	I	10.0	3.80	1	NA	7/27/10 11:21		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 11:21		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 11:21		210383
Acetone	**21.7**	I	50.0	5.60	1	NA	7/27/10 11:21		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 11:21		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 11:21		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 11:21		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 11:21		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 11:21		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 11:21		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 11:21		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 11:21		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 11:21		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 11:21		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 11:21		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 11:21		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 11:21		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 11:21		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 11:21		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 11:21		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 11:21		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 11:21		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 11:21		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0929
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB2S	**Units:**	µg/L
Lab Code:	J1003438-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 11:21		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 11:21		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 11:21		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 11:21		210383
Toluene	**0.262**	I	1.00	0.190	1	NA	7/27/10 11:21		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 11:21		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 11:21		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 11:21		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 11:21		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 11:21		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 11:21		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 11:21		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	71-122	7/27/10 11:21	
4-Bromofluorobenzene	105	75-120	7/27/10 11:21	
Dibromofluoromethane	98	82-116	7/27/10 11:21	
Toluene-d8	99	88-117	7/27/10 11:21	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1620
Date Received: 7/21/10

Sample Name: MWB33S
Lab Code: J1003438-021

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 11:52		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 11:52		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 11:52		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 11:52		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 11:52		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 11:52		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 11:52		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 11:52		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 11:52		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 11:52		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 11:52		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 11:52		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 11:52		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 11:52		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 11:52		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 11:52		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 11:52		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 11:52		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 11:52		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 11:52		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 11:52		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 11:52		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 11:52		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 11:52		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 11:52		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 11:52		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 11:52		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 11:52		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 11:52		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 11:52		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 11:52		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 11:52		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 11:52		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 11:52		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 11:52		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 11:52		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1620
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB33S	**Units:**	µg/L
Lab Code:	J1003438-021	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 11:52		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 11:52		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 11:52		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 11:52		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 11:52		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 11:52		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 11:52		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 11:52		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 11:52		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 11:52		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 11:52		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 11:52		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/27/10 11:52	
4-Bromofluorobenzene	105	75-120	7/27/10 11:52	
Dibromofluoromethane	98	82-116	7/27/10 11:52	
Toluene-d8	104	88-117	7/27/10 11:52	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0815
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB27S	**Units:**	µg/L
Lab Code:	J1003438-022	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 12:22		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 12:22		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 12:22		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 12:22		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 12:22		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 12:22		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 12:22		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 12:22		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 12:22		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 12:22		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 12:22		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 12:22		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 12:22		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 12:22		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 12:22		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 12:22		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 12:22		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 12:22		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 12:22		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 12:22		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 12:22		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 12:22		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 12:22		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 12:22		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 12:22		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 12:22		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 12:22		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 12:22		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 12:22		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 12:22		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 12:22		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 12:22		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 12:22		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 12:22		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 12:22		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 12:22		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0815
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB27S	**Units:**	µg/L
Lab Code:	J1003438-022	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 12:22		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 12:22		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 12:22		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 12:22		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 12:22		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 12:22		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 12:22		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 12:22		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 12:22		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 12:22		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 12:22		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 12:22		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/27/10 12:22	
4-Bromofluorobenzene	107	75-120	7/27/10 12:22	
Dibromofluoromethane	97	82-116	7/27/10 12:22	
Toluene-d8	97	88-117	7/27/10 12:22	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0843
Date Received: 7/21/10

Sample Name: MWB27I
Lab Code: J1003438-023

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 12:53		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 12:53		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 12:53		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 12:53		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 12:53		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 12:53		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 12:53		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 12:53		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 12:53		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 12:53		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 12:53		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 12:53		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 12:53		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 12:53		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 12:53		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 12:53		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 12:53		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 12:53		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 12:53		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 12:53		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 12:53		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 12:53		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 12:53		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 12:53		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 12:53		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 12:53		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 12:53		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 12:53		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 12:53		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 12:53		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 12:53		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 12:53		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 12:53		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 12:53		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 12:53		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 12:53		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0843
Date Received: 7/21/10

Sample Name: MWB27I
Lab Code: J1003438-023

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 12:53		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 12:53		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 12:53		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 12:53		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 12:53		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 12:53		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 12:53		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 12:53		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 12:53		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 12:53		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 12:53		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 12:53		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/27/10 12:53	
4-Bromofluorobenzene	105	75-120	7/27/10 12:53	
Dibromofluoromethane	98	82-116	7/27/10 12:53	
Toluene-d8	97	88-117	7/27/10 12:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0918
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB27D	**Units:**	µg/L
Lab Code:	J1003438-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 13:24		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 13:24		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 13:24		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 13:24		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 13:24		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 13:24		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 13:24		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 13:24		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 13:24		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 13:24		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 13:24		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 13:24		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 13:24		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 13:24		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 13:24		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 13:24		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 13:24		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 13:24		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 13:24		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 13:24		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 13:24		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 13:24		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 13:24		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 13:24		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 13:24		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 13:24		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 13:24		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 13:24		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 13:24		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 13:24		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 13:24		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 13:24		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 13:24		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 13:24		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 13:24		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 13:24		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0918
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB27D	**Units:**	µg/L
Lab Code:	J1003438-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 13:24		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 13:24		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 13:24		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 13:24		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 13:24		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 13:24		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 13:24		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 13:24		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 13:24		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 13:24		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 13:24		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 13:24		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/27/10 13:24	
4-Bromofluorobenzene	105	75-120	7/27/10 13:24	
Dibromofluoromethane	97	82-116	7/27/10 13:24	
Toluene-d8	101	88-117	7/27/10 13:24	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0918
Date Received: 7/21/10

Sample Name: DUP01
Lab Code: J1003438-025

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 13:56		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 13:56		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 13:56		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 13:56		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 13:56		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 13:56		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 13:56		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 13:56		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 13:56		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 13:56		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 13:56		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 13:56		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 13:56		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 13:56		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 13:56		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 13:56		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 13:56		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 13:56		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 13:56		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 13:56		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 13:56		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 13:56		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 13:56		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 13:56		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 13:56		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 13:56		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 13:56		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 13:56		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 13:56		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 13:56		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 13:56		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 13:56		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 13:56		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 13:56		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 13:56		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 13:56		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0918
Date Received: 7/21/10

Sample Name: DUP01
Lab Code: J1003438-025

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 13:56		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 13:56		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 13:56		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 13:56		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 13:56		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 13:56		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 13:56		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 13:56		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 13:56		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 13:56		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 13:56		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 13:56		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	97	71-122	7/27/10 13:56	
4-Bromofluorobenzene	104	75-120	7/27/10 13:56	
Dibromofluoromethane	98	82-116	7/27/10 13:56	
Toluene-d8	95	88-117	7/27/10 13:56	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1004
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB31D	**Units:**	µg/L
Lab Code:	J1003438-026	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 14:27		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 14:27		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 14:27		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 14:27		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 14:27		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 14:27		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 14:27		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 14:27		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 14:27		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 14:27		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 14:27		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 14:27		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 14:27		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 14:27		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 14:27		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 14:27		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 14:27		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 14:27		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 14:27		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 14:27		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 14:27		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 14:27		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 14:27		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 14:27		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 14:27		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 14:27		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 14:27		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 14:27		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 14:27		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 14:27		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 14:27		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 14:27		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 14:27		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 14:27		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 14:27		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 14:27		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1004
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB31D	**Units:**	µg/L
Lab Code:	J1003438-026	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 14:27		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 14:27		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 14:27		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 14:27		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 14:27		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 14:27		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 14:27		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 14:27		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 14:27		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 14:27		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 14:27		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 14:27		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	71-122	7/27/10 14:27	
4-Bromofluorobenzene	105	75-120	7/27/10 14:27	
Dibromofluoromethane	96	82-116	7/27/10 14:27	
Toluene-d8	98	88-117	7/27/10 14:27	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1042
Date Received: 7/21/10

Sample Name: MWB17S
Lab Code: J1003438-027

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/29/10 10:04		210615
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/29/10 10:04		210615
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/29/10 10:04		210615
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/29/10 10:04		210615
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/29/10 10:04		210615
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/29/10 10:04		210615
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/29/10 10:04		210615
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/29/10 10:04		210615
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/29/10 10:04		210615
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/29/10 10:04		210615
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/29/10 10:04		210615
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/29/10 10:04		210615
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/29/10 10:04		210615
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/29/10 10:04		210615
2-Hexanone	ND	U	25.0	2.20	1	NA	7/29/10 10:04		210615
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/29/10 10:04		210615
Acetone	ND	U	50.0	5.60	1	NA	7/29/10 10:04		210615
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/29/10 10:04		210615
Benzene	ND	U	1.00	0.210	1	NA	7/29/10 10:04		210615
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/29/10 10:04		210615
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/29/10 10:04		210615
Bromoform	ND	U	2.00	0.420	1	NA	7/29/10 10:04		210615
Bromomethane	ND	U	1.00	0.220	1	NA	7/29/10 10:04		210615
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/29/10 10:04		210615
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/29/10 10:04		210615
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/29/10 10:04		210615
Chloroethane	ND	U	5.00	0.220	1	NA	7/29/10 10:04		210615
Chloroform	ND	U	1.00	0.350	1	NA	7/29/10 10:04		210615
Chloromethane	ND	U	1.00	0.110	1	NA	7/29/10 10:04		210615
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/29/10 10:04		210615
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/29/10 10:04		210615
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/29/10 10:04		210615
Dibromomethane	ND	U	5.00	0.180	1	NA	7/29/10 10:04		210615
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/29/10 10:04		210615
Iodomethane	ND	U	5.00	2.68	1	NA	7/29/10 10:04		210615
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/29/10 10:04		210615

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1042
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB17S	**Units:**	µg/L
Lab Code:	J1003438-027	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/29/10 10:04		210615
o-Xylene	ND	U	1.00	0.140	1	NA	7/29/10 10:04		210615
Styrene	ND	U	1.00	0.291	1	NA	7/29/10 10:04		210615
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/29/10 10:04		210615
Toluene	ND	U	1.00	0.190	1	NA	7/29/10 10:04		210615
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/29/10 10:04		210615
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/29/10 10:04		210615
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/29/10 10:04		210615
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/29/10 10:04		210615
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/29/10 10:04		210615
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/29/10 10:04		210615
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/29/10 10:04		210615

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	71-122	7/29/10 10:04	
4-Bromofluorobenzene	105	75-120	7/29/10 10:04	
Dibromofluoromethane	103	82-116	7/29/10 10:04	
Toluene-d8	103	88-117	7/29/10 10:04	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1115
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB17D	**Units:**	µg/L
Lab Code:	J1003438-028	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 14:58		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 14:58		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 14:58		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 14:58		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 14:58		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 14:58		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 14:58		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 14:58		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 14:58		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 14:58		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 14:58		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 14:58		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 14:58		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 14:58		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 14:58		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 14:58		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 14:58		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 14:58		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 14:58		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 14:58		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 14:58		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 14:58		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 14:58		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 14:58		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 14:58		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 14:58		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 14:58		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 14:58		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 14:58		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 14:58		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 14:58		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 14:58		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 14:58		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 14:58		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 14:58		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 14:58		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1115
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB17D	**Units:**	µg/L
Lab Code:	J1003438-028	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 14:58		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 14:58		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 14:58		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 14:58		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 14:58		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 14:58		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 14:58		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 14:58		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 14:58		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 14:58		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 14:58		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 14:58		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/27/10 14:58	
4-Bromofluorobenzene	105	75-120	7/27/10 14:58	
Dibromofluoromethane	99	82-116	7/27/10 14:58	
Toluene-d8	98	88-117	7/27/10 14:58	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1149
Date Received: 7/21/10

Sample Name: MWB17I
Lab Code: J1003438-029

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 19:34		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 19:34		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 19:34		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 19:34		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 19:34		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 19:34		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 19:34		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 19:34		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 19:34		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 19:34		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 19:34		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 19:34		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 19:34		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 19:34		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 19:34		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 19:34		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 19:34		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 19:34		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 19:34		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 19:34		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 19:34		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 19:34		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 19:34		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 19:34		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 19:34		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 19:34		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 19:34		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 19:34		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 19:34		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 19:34		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 19:34		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 19:34		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 19:34		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 19:34		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 19:34		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 19:34		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1149
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB17I	**Units:**	µg/L
Lab Code:	J1003438-029	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 19:34		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 19:34		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 19:34		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 19:34		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 19:34		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 19:34		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 19:34		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 19:34		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 19:34		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 19:34		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 19:34		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 19:34		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	92	71-122	7/27/10 19:34	
4-Bromofluorobenzene	102	75-120	7/27/10 19:34	
Dibromofluoromethane	94	82-116	7/27/10 19:34	
Toluene-d8	99	88-117	7/27/10 19:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1232
Date Received: 7/21/10

Sample Name: MWB7S
Lab Code: J1003438-030

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 20:05		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 20:05		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 20:05		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 20:05		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 20:05		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 20:05		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 20:05		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 20:05		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 20:05		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 20:05		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 20:05		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 20:05		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 20:05		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 20:05		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 20:05		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 20:05		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 20:05		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 20:05		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 20:05		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 20:05		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 20:05		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 20:05		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 20:05		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 20:05		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 20:05		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 20:05		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 20:05		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 20:05		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 20:05		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 20:05		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 20:05		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 20:05		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 20:05		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 20:05		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 20:05		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 20:05		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1232
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB7S	**Units:**	µg/L
Lab Code:	J1003438-030	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 20:05		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 20:05		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 20:05		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 20:05		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 20:05		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 20:05		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 20:05		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 20:05		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 20:05		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 20:05		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 20:05		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 20:05		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	71-122	7/27/10 20:05	
4-Bromofluorobenzene	104	75-120	7/27/10 20:05	
Dibromofluoromethane	95	82-116	7/27/10 20:05	
Toluene-d8	96	88-117	7/27/10 20:05	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1520
Date Received: 7/21/10

Sample Name: MWB12S
Lab Code: J1003438-031

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 20:36		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 20:36		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 20:36		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 20:36		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 20:36		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 20:36		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 20:36		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 20:36		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 20:36		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 20:36		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 20:36		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 20:36		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 20:36		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 20:36		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 20:36		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 20:36		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 20:36		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 20:36		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 20:36		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 20:36		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 20:36		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 20:36		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 20:36		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 20:36		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 20:36		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 20:36		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 20:36		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 20:36		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 20:36		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 20:36		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 20:36		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 20:36		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 20:36		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 20:36		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 20:36		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 20:36		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1520
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB12S	**Units:**	µg/L
Lab Code:	J1003438-031	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 20:36		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 20:36		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 20:36		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 20:36		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 20:36		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 20:36		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 20:36		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 20:36		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 20:36		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 20:36		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 20:36		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 20:36		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/27/10 20:36	
4-Bromofluorobenzene	106	75-120	7/27/10 20:36	
Dibromofluoromethane	96	82-116	7/27/10 20:36	
Toluene-d8	100	88-117	7/27/10 20:36	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1602
Date Received: 7/21/10

Sample Name: MWB13I
Lab Code: J1003438-032

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 21:08		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 21:08		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 21:08		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 21:08		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 21:08		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 21:08		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 21:08		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 21:08		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 21:08		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 21:08		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 21:08		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 21:08		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 21:08		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 21:08		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 21:08		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 21:08		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 21:08		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 21:08		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 21:08		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 21:08		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 21:08		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 21:08		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 21:08		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 21:08		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 21:08		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 21:08		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 21:08		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 21:08		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 21:08		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 21:08		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 21:08		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 21:08		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 21:08		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 21:08		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 21:08		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 21:08		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1602
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB13I	**Units:**	µg/L
Lab Code:	J1003438-032	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 21:08		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 21:08		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 21:08		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 21:08		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 21:08		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 21:08		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 21:08		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 21:08		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 21:08		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 21:08		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 21:08		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 21:08		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	71-122	7/27/10 21:08	
4-Bromofluorobenzene	107	75-120	7/27/10 21:08	
Dibromofluoromethane	95	82-116	7/27/10 21:08	
Toluene-d8	103	88-117	7/27/10 21:08	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 0909
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB13S	**Units:**	µg/L
Lab Code:	J1003438-033	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 21:38		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 21:38		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 21:38		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 21:38		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 21:38		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 21:38		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 21:38		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 21:38		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 21:38		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 21:38		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 21:38		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 21:38		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 21:38		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 21:38		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 21:38		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 21:38		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 21:38		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 21:38		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 21:38		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 21:38		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 21:38		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 21:38		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 21:38		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 21:38		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 21:38		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 21:38		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 21:38		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 21:38		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 21:38		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 21:38		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 21:38		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 21:38		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 21:38		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 21:38		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 21:38		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 21:38		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 0909
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB13S	**Units:**	µg/L
Lab Code:	J1003438-033	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 21:38		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 21:38		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 21:38		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 21:38		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 21:38		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 21:38		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 21:38		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 21:38		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 21:38		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 21:38		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 21:38		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 21:38		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	97	71-122	7/27/10 21:38	
4-Bromofluorobenzene	107	75-120	7/27/10 21:38	
Dibromofluoromethane	97	82-116	7/27/10 21:38	
Toluene-d8	96	88-117	7/27/10 21:38	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1109
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB32S	**Units:**	µg/L
Lab Code:	J1003438-034	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 22:09		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 22:09		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 22:09		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 22:09		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 22:09		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 22:09		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 22:09		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 22:09		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 22:09		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 22:09		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 22:09		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 22:09		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 22:09		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 22:09		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 22:09		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 22:09		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 22:09		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 22:09		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 22:09		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 22:09		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 22:09		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 22:09		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 22:09		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 22:09		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 22:09		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 22:09		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 22:09		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 22:09		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 22:09		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 22:09		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 22:09		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 22:09		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 22:09		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 22:09		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 22:09		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 22:09		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1109
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB32S	**Units:**	µg/L
Lab Code:	J1003438-034	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 22:09		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 22:09		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 22:09		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 22:09		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 22:09		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 22:09		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 22:09		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 22:09		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 22:09		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 22:09		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 22:09		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 22:09		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	97	71-122	7/27/10 22:09	
4-Bromofluorobenzene	107	75-120	7/27/10 22:09	
Dibromofluoromethane	97	82-116	7/27/10 22:09	
Toluene-d8	97	88-117	7/27/10 22:09	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1219
Date Received: 7/21/10

Sample Name: MWB32I
Lab Code: J1003438-035

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 22:40		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 22:40		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 22:40		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 22:40		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 22:40		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 22:40		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 22:40		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 22:40		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 22:40		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 22:40		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 22:40		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 22:40		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 22:40		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 22:40		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 22:40		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 22:40		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 22:40		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 22:40		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 22:40		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 22:40		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 22:40		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 22:40		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 22:40		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 22:40		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 22:40		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 22:40		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 22:40		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 22:40		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 22:40		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 22:40		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 22:40		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 22:40		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 22:40		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 22:40		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 22:40		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 22:40		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1219
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB32I	**Units:**	µg/L
Lab Code:	J1003438-035	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 22:40		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 22:40		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 22:40		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 22:40		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 22:40		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 22:40		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 22:40		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 22:40		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 22:40		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 22:40		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 22:40		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 22:40		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	71-122	7/27/10 22:40	
4-Bromofluorobenzene	107	75-120	7/27/10 22:40	
Dibromofluoromethane	99	82-116	7/27/10 22:40	
Toluene-d8	104	88-117	7/27/10 22:40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1243
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB32D	**Units:**	µg/L
Lab Code:	J1003438-036	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 23:12		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 23:12		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 23:12		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 23:12		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 23:12		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 23:12		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 23:12		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 23:12		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 23:12		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 23:12		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 23:12		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 23:12		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 23:12		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 23:12		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 23:12		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 23:12		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 23:12		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 23:12		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 23:12		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 23:12		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 23:12		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 23:12		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 23:12		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 23:12		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 23:12		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 23:12		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 23:12		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 23:12		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 23:12		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 23:12		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 23:12		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 23:12		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 23:12		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 23:12		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 23:12		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 23:12		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1243
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB32D	**Units:**	µg/L
Lab Code:	J1003438-036	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 23:12		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 23:12		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 23:12		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 23:12		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 23:12		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 23:12		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 23:12		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 23:12		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 23:12		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 23:12		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 23:12		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 23:12		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	71-122	7/27/10 23:12	
4-Bromofluorobenzene	103	75-120	7/27/10 23:12	
Dibromofluoromethane	97	82-116	7/27/10 23:12	
Toluene-d8	97	88-117	7/27/10 23:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 0959
Date Received: 7/21/10

Sample Name: MWB34S
Lab Code: J1003438-037

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 23:42		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 23:42		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 23:42		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 23:42		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 23:42		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 23:42		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 23:42		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 23:42		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 23:42		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 23:42		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 23:42		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 23:42		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 23:42		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 23:42		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 23:42		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 23:42		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 23:42		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 23:42		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 23:42		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 23:42		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 23:42		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 23:42		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 23:42		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 23:42		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 23:42		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 23:42		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 23:42		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 23:42		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 23:42		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 23:42		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 23:42		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 23:42		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 23:42		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 23:42		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 23:42		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 23:42		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 0959
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB34S	**Units:**	µg/L
Lab Code:	J1003438-037	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 23:42		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 23:42		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 23:42		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 23:42		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 23:42		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 23:42		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 23:42		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 23:42		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 23:42		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 23:42		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 23:42		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 23:42		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/27/10 23:42	
4-Bromofluorobenzene	108	75-120	7/27/10 23:42	
Dibromofluoromethane	97	82-116	7/27/10 23:42	
Toluene-d8	96	88-117	7/27/10 23:42	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1228
Date Received: 7/21/10

Sample Name: MWB34I
Lab Code: J1003438-038

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/28/10 00:13		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/28/10 00:13		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/28/10 00:13		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/28/10 00:13		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/28/10 00:13		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/28/10 00:13		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/28/10 00:13		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/28/10 00:13		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/28/10 00:13		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/28/10 00:13		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/28/10 00:13		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/28/10 00:13		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/28/10 00:13		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/28/10 00:13		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/28/10 00:13		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/28/10 00:13		210384
Acetone	ND	U	50.0	5.60	1	NA	7/28/10 00:13		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/28/10 00:13		210384
Benzene	ND	U	1.00	0.210	1	NA	7/28/10 00:13		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/28/10 00:13		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/28/10 00:13		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/28/10 00:13		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/28/10 00:13		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/28/10 00:13		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/28/10 00:13		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/28/10 00:13		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/28/10 00:13		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/28/10 00:13		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/28/10 00:13		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/28/10 00:13		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/28/10 00:13		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/28/10 00:13		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/28/10 00:13		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/28/10 00:13		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/28/10 00:13		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/28/10 00:13		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1228
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB34I	**Units:**	µg/L
Lab Code:	J1003438-038	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/28/10 00:13		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/28/10 00:13		210384
Styrene	ND	U	1.00	0.291	1	NA	7/28/10 00:13		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/28/10 00:13		210384
Toluene	ND	U	1.00	0.190	1	NA	7/28/10 00:13		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/28/10 00:13		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/28/10 00:13		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/28/10 00:13		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/28/10 00:13		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/28/10 00:13		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/28/10 00:13		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/28/10 00:13		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/28/10 00:13	
4-Bromofluorobenzene	110	75-120	7/28/10 00:13	
Dibromofluoromethane	96	82-116	7/28/10 00:13	
Toluene-d8	93	88-117	7/28/10 00:13	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 0924
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB34D	**Units:**	µg/L
Lab Code:	J1003438-039	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/28/10 00:45		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/28/10 00:45		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/28/10 00:45		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/28/10 00:45		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/28/10 00:45		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/28/10 00:45		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/28/10 00:45		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/28/10 00:45		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/28/10 00:45		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/28/10 00:45		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/28/10 00:45		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/28/10 00:45		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/28/10 00:45		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/28/10 00:45		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/28/10 00:45		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/28/10 00:45		210384
Acetone	ND	U	50.0	5.60	1	NA	7/28/10 00:45		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/28/10 00:45		210384
Benzene	ND	U	1.00	0.210	1	NA	7/28/10 00:45		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/28/10 00:45		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/28/10 00:45		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/28/10 00:45		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/28/10 00:45		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/28/10 00:45		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/28/10 00:45		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/28/10 00:45		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/28/10 00:45		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/28/10 00:45		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/28/10 00:45		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/28/10 00:45		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/28/10 00:45		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/28/10 00:45		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/28/10 00:45		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/28/10 00:45		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/28/10 00:45		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/28/10 00:45		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 0924
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB34D	**Units:**	µg/L
Lab Code:	J1003438-039	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/28/10 00:45		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/28/10 00:45		210384
Styrene	ND	U	1.00	0.291	1	NA	7/28/10 00:45		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/28/10 00:45		210384
Toluene	ND	U	1.00	0.190	1	NA	7/28/10 00:45		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/28/10 00:45		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/28/10 00:45		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/28/10 00:45		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/28/10 00:45		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/28/10 00:45		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/28/10 00:45		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/28/10 00:45		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	71-122	7/28/10 00:45	
4-Bromofluorobenzene	113	75-120	7/28/10 00:45	
Dibromofluoromethane	100	82-116	7/28/10 00:45	
Toluene-d8	102	88-117	7/28/10 00:45	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1219
Date Received: 7/21/10

Sample Name: DUP03
Lab Code: J1003438-040

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/28/10 01:16		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/28/10 01:16		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/28/10 01:16		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/28/10 01:16		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/28/10 01:16		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/28/10 01:16		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/28/10 01:16		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/28/10 01:16		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/28/10 01:16		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/28/10 01:16		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/28/10 01:16		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/28/10 01:16		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/28/10 01:16		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/28/10 01:16		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/28/10 01:16		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/28/10 01:16		210384
Acetone	ND	U	50.0	5.60	1	NA	7/28/10 01:16		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/28/10 01:16		210384
Benzene	ND	U	1.00	0.210	1	NA	7/28/10 01:16		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/28/10 01:16		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/28/10 01:16		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/28/10 01:16		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/28/10 01:16		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/28/10 01:16		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/28/10 01:16		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/28/10 01:16		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/28/10 01:16		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/28/10 01:16		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/28/10 01:16		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/28/10 01:16		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/28/10 01:16		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/28/10 01:16		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/28/10 01:16		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/28/10 01:16		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/28/10 01:16		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/28/10 01:16		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1219
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	DUP03	**Units:**	µg/L
Lab Code:	J1003438-040	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/28/10 01:16		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/28/10 01:16		210384
Styrene	ND	U	1.00	0.291	1	NA	7/28/10 01:16		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/28/10 01:16		210384
Toluene	ND	U	1.00	0.190	1	NA	7/28/10 01:16		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/28/10 01:16		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/28/10 01:16		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/28/10 01:16		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/28/10 01:16		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/28/10 01:16		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/28/10 01:16		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/28/10 01:16		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	71-122	7/28/10 01:16	
4-Bromofluorobenzene	103	75-120	7/28/10 01:16	
Dibromofluoromethane	95	82-116	7/28/10 01:16	
Toluene-d8	94	88-117	7/28/10 01:16	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1228
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	DUP04	**Units:**	µg/L
Lab Code:	J1003438-041	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/28/10 01:47		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/28/10 01:47		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/28/10 01:47		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/28/10 01:47		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/28/10 01:47		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/28/10 01:47		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/28/10 01:47		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/28/10 01:47		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/28/10 01:47		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/28/10 01:47		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/28/10 01:47		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/28/10 01:47		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/28/10 01:47		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/28/10 01:47		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/28/10 01:47		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/28/10 01:47		210384
Acetone	ND	U	50.0	5.60	1	NA	7/28/10 01:47		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/28/10 01:47		210384
Benzene	ND	U	1.00	0.210	1	NA	7/28/10 01:47		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/28/10 01:47		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/28/10 01:47		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/28/10 01:47		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/28/10 01:47		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/28/10 01:47		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/28/10 01:47		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/28/10 01:47		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/28/10 01:47		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/28/10 01:47		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/28/10 01:47		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/28/10 01:47		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/28/10 01:47		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/28/10 01:47		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/28/10 01:47		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/28/10 01:47		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/28/10 01:47		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/28/10 01:47		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1228
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	DUP04	**Units:**	µg/L
Lab Code:	J1003438-041	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/28/10 01:47		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/28/10 01:47		210384
Styrene	ND	U	1.00	0.291	1	NA	7/28/10 01:47		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/28/10 01:47		210384
Toluene	ND	U	1.00	0.190	1	NA	7/28/10 01:47		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/28/10 01:47		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/28/10 01:47		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/28/10 01:47		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/28/10 01:47		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/28/10 01:47		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/28/10 01:47		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/28/10 01:47		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	71-122	7/28/10 01:47	
4-Bromofluorobenzene	109	75-120	7/28/10 01:47	
Dibromofluoromethane	102	82-116	7/28/10 01:47	
Toluene-d8	105	88-117	7/28/10 01:47	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1253
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	FB	**Units:**	µg/L
Lab Code:	J1003438-042	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/28/10 02:19		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/28/10 02:19		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/28/10 02:19		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/28/10 02:19		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/28/10 02:19		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/28/10 02:19		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/28/10 02:19		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/28/10 02:19		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/28/10 02:19		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/28/10 02:19		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/28/10 02:19		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/28/10 02:19		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/28/10 02:19		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/28/10 02:19		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/28/10 02:19		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/28/10 02:19		210384
Acetone	ND	U	50.0	5.60	1	NA	7/28/10 02:19		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/28/10 02:19		210384
Benzene	ND	U	1.00	0.210	1	NA	7/28/10 02:19		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/28/10 02:19		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/28/10 02:19		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/28/10 02:19		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/28/10 02:19		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/28/10 02:19		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/28/10 02:19		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/28/10 02:19		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/28/10 02:19		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/28/10 02:19		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/28/10 02:19		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/28/10 02:19		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/28/10 02:19		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/28/10 02:19		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/28/10 02:19		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/28/10 02:19		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/28/10 02:19		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/28/10 02:19		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1253
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	FB	**Units:**	µg/L
Lab Code:	J1003438-042	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/28/10 02:19		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/28/10 02:19		210384
Styrene	ND	U	1.00	0.291	1	NA	7/28/10 02:19		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/28/10 02:19		210384
Toluene	**0.207**	I	1.00	0.190	1	NA	7/28/10 02:19		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/28/10 02:19		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/28/10 02:19		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/28/10 02:19		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/28/10 02:19		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/28/10 02:19		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/28/10 02:19		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/28/10 02:19		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	71-122	7/28/10 02:19	
4-Bromofluorobenzene	105	75-120	7/28/10 02:19	
Dibromofluoromethane	93	82-116	7/28/10 02:19	
Toluene-d8	97	88-117	7/28/10 02:19	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0000
Date Received: 7/21/10

Sample Name: Trip Blank
Lab Code: J1003438-043

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/28/10 02:50		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/28/10 02:50		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/28/10 02:50		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/28/10 02:50		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/28/10 02:50		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/28/10 02:50		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/28/10 02:50		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/28/10 02:50		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/28/10 02:50		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/28/10 02:50		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/28/10 02:50		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/28/10 02:50		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/28/10 02:50		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/28/10 02:50		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/28/10 02:50		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/28/10 02:50		210384
Acetone	ND	U	50.0	5.60	1	NA	7/28/10 02:50		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/28/10 02:50		210384
Benzene	ND	U	1.00	0.210	1	NA	7/28/10 02:50		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/28/10 02:50		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/28/10 02:50		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/28/10 02:50		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/28/10 02:50		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/28/10 02:50		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/28/10 02:50		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/28/10 02:50		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/28/10 02:50		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/28/10 02:50		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/28/10 02:50		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/28/10 02:50		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/28/10 02:50		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/28/10 02:50		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/28/10 02:50		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/28/10 02:50		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/28/10 02:50		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/28/10 02:50		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0000
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	J1003438-043	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/28/10 02:50		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/28/10 02:50		210384
Styrene	ND	U	1.00	0.291	1	NA	7/28/10 02:50		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/28/10 02:50		210384
Toluene	ND	U	1.00	0.190	1	NA	7/28/10 02:50		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/28/10 02:50		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/28/10 02:50		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/28/10 02:50		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/28/10 02:50		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/28/10 02:50		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/28/10 02:50		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/28/10 02:50		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/28/10 02:50	
4-Bromofluorobenzene	107	75-120	7/28/10 02:50	
Dibromofluoromethane	97	82-116	7/28/10 02:50	
Toluene-d8	94	88-117	7/28/10 02:50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	JQ1002990-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/26/10 18:31		210096
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/26/10 18:31		210096
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/26/10 18:31		210096
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/26/10 18:31		210096
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/26/10 18:31		210096
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/26/10 18:31		210096
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/26/10 18:31		210096
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/26/10 18:31		210096
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/26/10 18:31		210096
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/26/10 18:31		210096
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/26/10 18:31		210096
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/26/10 18:31		210096
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/26/10 18:31		210096
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/26/10 18:31		210096
2-Hexanone	ND	U	25.0	2.20	1	NA	7/26/10 18:31		210096
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/26/10 18:31		210096
Acetone	ND	U	50.0	5.60	1	NA	7/26/10 18:31		210096
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/26/10 18:31		210096
Benzene	ND	U	1.00	0.210	1	NA	7/26/10 18:31		210096
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/26/10 18:31		210096
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/26/10 18:31		210096
Bromoform	ND	U	2.00	0.420	1	NA	7/26/10 18:31		210096
Bromomethane	ND	U	1.00	0.220	1	NA	7/26/10 18:31		210096
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/26/10 18:31		210096
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/26/10 18:31		210096
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/26/10 18:31		210096
Chloroethane	ND	U	5.00	0.220	1	NA	7/26/10 18:31		210096
Chloroform	ND	U	1.00	0.350	1	NA	7/26/10 18:31		210096
Chloromethane	ND	U	1.00	0.110	1	NA	7/26/10 18:31		210096
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/26/10 18:31		210096
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/26/10 18:31		210096
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/26/10 18:31		210096
Dibromomethane	ND	U	5.00	0.180	1	NA	7/26/10 18:31		210096
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/26/10 18:31		210096
Iodomethane	ND	U	5.00	2.68	1	NA	7/26/10 18:31		210096
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/26/10 18:31		210096

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	JQ1002990-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/26/10 18:31		210096
o-Xylene	ND	U	1.00	0.140	1	NA	7/26/10 18:31		210096
Styrene	ND	U	1.00	0.291	1	NA	7/26/10 18:31		210096
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/26/10 18:31		210096
Toluene	ND	U	1.00	0.190	1	NA	7/26/10 18:31		210096
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/26/10 18:31		210096
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/26/10 18:31		210096
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/26/10 18:31		210096
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/26/10 18:31		210096
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/26/10 18:31		210096
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/26/10 18:31		210096
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/26/10 18:31		210096

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	71-122	7/26/10 18:31	
4-Bromofluorobenzene	102	75-120	7/26/10 18:31	
Dibromofluoromethane	95	82-116	7/26/10 18:31	
Toluene-d8	99	88-117	7/26/10 18:31	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1003037-02

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 08:14		210383
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 08:14		210383
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 08:14		210383
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 08:14		210383
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 08:14		210383
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 08:14		210383
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 08:14		210383
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 08:14		210383
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 08:14		210383
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 08:14		210383
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 08:14		210383
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 08:14		210383
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 08:14		210383
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 08:14		210383
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 08:14		210383
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 08:14		210383
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 08:14		210383
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 08:14		210383
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 08:14		210383
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 08:14		210383
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 08:14		210383
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 08:14		210383
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 08:14		210383
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 08:14		210383
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 08:14		210383
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 08:14		210383
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 08:14		210383
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 08:14		210383
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 08:14		210383
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 08:14		210383
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 08:14		210383
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 08:14		210383
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 08:14		210383
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 08:14		210383
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 08:14		210383
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 08:14		210383

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	JQ1003037-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 08:14		210383
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 08:14		210383
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 08:14		210383
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 08:14		210383
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 08:14		210383
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 08:14		210383
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 08:14		210383
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 08:14		210383
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 08:14		210383
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 08:14		210383
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 08:14		210383
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 08:14		210383

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	93	71-122	7/27/10 08:14	
4-Bromofluorobenzene	104	75-120	7/27/10 08:14	
Dibromofluoromethane	95	82-116	7/27/10 08:14	
Toluene-d8	101	88-117	7/27/10 08:14	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1003038-02

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 19:03		210384
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 19:03		210384
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 19:03		210384
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 19:03		210384
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 19:03		210384
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 19:03		210384
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 19:03		210384
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 19:03		210384
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 19:03		210384
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 19:03		210384
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 19:03		210384
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 19:03		210384
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 19:03		210384
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 19:03		210384
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 19:03		210384
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 19:03		210384
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 19:03		210384
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 19:03		210384
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 19:03		210384
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 19:03		210384
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 19:03		210384
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 19:03		210384
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 19:03		210384
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 19:03		210384
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 19:03		210384
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 19:03		210384
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 19:03		210384
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 19:03		210384
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 19:03		210384
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 19:03		210384
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 19:03		210384
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 19:03		210384
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 19:03		210384
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 19:03		210384
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 19:03		210384
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 19:03		210384

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	JQ1003038-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 19:03		210384
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 19:03		210384
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 19:03		210384
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 19:03		210384
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 19:03		210384
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 19:03		210384
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 19:03		210384
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 19:03		210384
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 19:03		210384
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 19:03		210384
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 19:03		210384
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 19:03		210384

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	96	71-122	7/27/10 19:03	
4-Bromofluorobenzene	107	75-120	7/27/10 19:03	
Dibromofluoromethane	96	82-116	7/27/10 19:03	
Toluene-d8	96	88-117	7/27/10 19:03	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	JQ1003076-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/29/10 09:33		210615
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/29/10 09:33		210615
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/29/10 09:33		210615
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/29/10 09:33		210615
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/29/10 09:33		210615
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/29/10 09:33		210615
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/29/10 09:33		210615
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/29/10 09:33		210615
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/29/10 09:33		210615
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/29/10 09:33		210615
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/29/10 09:33		210615
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/29/10 09:33		210615
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/29/10 09:33		210615
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/29/10 09:33		210615
2-Hexanone	ND	U	25.0	2.20	1	NA	7/29/10 09:33		210615
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/29/10 09:33		210615
Acetone	ND	U	50.0	5.60	1	NA	7/29/10 09:33		210615
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/29/10 09:33		210615
Benzene	ND	U	1.00	0.210	1	NA	7/29/10 09:33		210615
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/29/10 09:33		210615
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/29/10 09:33		210615
Bromoform	ND	U	2.00	0.420	1	NA	7/29/10 09:33		210615
Bromomethane	ND	U	1.00	0.220	1	NA	7/29/10 09:33		210615
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/29/10 09:33		210615
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/29/10 09:33		210615
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/29/10 09:33		210615
Chloroethane	ND	U	5.00	0.220	1	NA	7/29/10 09:33		210615
Chloroform	ND	U	1.00	0.350	1	NA	7/29/10 09:33		210615
Chloromethane	ND	U	1.00	0.110	1	NA	7/29/10 09:33		210615
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/29/10 09:33		210615
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/29/10 09:33		210615
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/29/10 09:33		210615
Dibromomethane	ND	U	5.00	0.180	1	NA	7/29/10 09:33		210615
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/29/10 09:33		210615
Iodomethane	ND	U	5.00	2.68	1	NA	7/29/10 09:33		210615
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/29/10 09:33		210615

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	JQ1003076-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/29/10 09:33		210615
o-Xylene	ND	U	1.00	0.140	1	NA	7/29/10 09:33		210615
Styrene	ND	U	1.00	0.291	1	NA	7/29/10 09:33		210615
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/29/10 09:33		210615
Toluene	ND	U	1.00	0.190	1	NA	7/29/10 09:33		210615
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/29/10 09:33		210615
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/29/10 09:33		210615
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/29/10 09:33		210615
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/29/10 09:33		210615
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/29/10 09:33		210615
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/29/10 09:33		210615
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/29/10 09:33		210615

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	71-122	7/29/10 09:33	
4-Bromofluorobenzene	103	75-120	7/29/10 09:33	
Dibromofluoromethane	103	82-116	7/29/10 09:33	
Toluene-d8	106	88-117	7/29/10 09:33	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB3S	**Units:**	ug/L
Lab Code:	J1003438-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	140	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB3I	**Units:**	ug/L
Lab Code:	J1003438-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	135	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB19D	**Units:**	ug/L
Lab Code:	J1003438-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0058	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	131	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB19I	**Units:**	ug/L
Lab Code:	J1003438-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	119	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB19S
Lab Code: J1003438-005

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0058	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	119	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB20S	**Units:**	ug/L
Lab Code:	J1003438-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	130	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB11S	**Units:**	ug/L
Lab Code:	J1003438-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	141	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB11I(R)	**Units:**	ug/L
Lab Code:	J1003438-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	140	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB12D	**Units:**	ug/L
Lab Code:	J1003438-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0074	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB12I	**Units:**	ug/L
Lab Code:	J1003438-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	140	77-150	07/29/10	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB7I
Lab Code: J1003438-011
Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	139	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB7D	**Units:**	ug/L
Lab Code:	J1003438-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	143	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB21S	**Units:**	ug/L
Lab Code:	J1003438-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	142	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB22S	**Units:**	ug/L
Lab Code:	J1003438-014	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	131	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	DUP02	**Units:**	ug/L
Lab Code:	J1003438-015	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(1,3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002568	J(1,3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	156	77-150	07/29/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB29D	**Units:**	ug/L
Lab Code:	J1003438-016	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	131	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB29I	**Units:**	ug/L
Lab Code:	J1003438-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	136	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB29S	**Units:**	ug/L
Lab Code:	J1003438-018	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	126	77-150	07/29/10	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB2I
Lab Code: J1003438-019

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	144	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB2S
Lab Code: J1003438-020

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB33S
Lab Code: J1003438-021

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	129	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB27S
Lab Code: J1003438-022

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	123	77-150	07/29/10	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB27I
Lab Code: J1003438-023

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	103	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB27D
Lab Code: J1003438-024

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	109	77-150	07/29/10	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: DUP01
Lab Code: J1003438-025

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	120	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB31D
Lab Code: J1003438-026

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	114	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB17S	**Units:**	ug/L
Lab Code:	J1003438-027	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	118	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB17D	**Units:**	ug/L
Lab Code:	J1003438-028	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0074	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	123	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/20/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB17I
Lab Code: J1003438-029

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	93	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB7S	**Units:**	ug/L
Lab Code:	J1003438-030	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.022	0.0074	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.022	0.0061	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	141	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB12S	**Units:**	ug/L
Lab Code:	J1003438-031	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	106	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/20/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB13I	**Units:**	ug/L
Lab Code:	J1003438-032	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0058	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	103	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB13S	**Units:**	ug/L
Lab Code:	J1003438-033	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	99	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/21/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB32S
Lab Code: J1003438-034

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	102	77-150	07/29/10	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/21/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB32I
Lab Code: J1003438-035
Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0060	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	104	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB32D	**Units:**	ug/L
Lab Code:	J1003438-036	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	111	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB34S	**Units:**	ug/L
Lab Code:	J1003438-037	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.022	0.0074	1	07/26/10	07/29/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.022	0.0060	1	07/26/10	07/29/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	126	77-150	07/29/10	Acceptable

Comments:

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/21/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MWB34I
Lab Code: J1003438-038

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/30/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/30/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	197	77-150	07/30/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB34D	**Units:**	ug/L
Lab Code:	J1003438-039	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/30/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0059	1	07/26/10	07/30/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	195	77-150	07/30/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/21/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: DUP03
Lab Code: J1003438-040

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/30/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/30/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	194	77-150	07/30/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 07/21/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: DUP04
Lab Code: J1003438-041

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/30/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/30/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	123	77-150	07/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	FB	**Units:**	ug/L
Lab Code:	J1003438-042	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/30/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/30/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	132	77-150	07/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1002568-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	07/26/10	07/28/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.020	0.0057	1	07/26/10	07/28/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	07/28/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1002569-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	07/26/10	07/29/10	JWG1002569	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.020	0.0057	1	07/26/10	07/29/10	JWG1002569	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	137	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1002570-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	07/26/10	07/29/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.020	0.0057	1	07/26/10	07/29/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	118	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1001
Date Received: 7/21/10

Sample Name: MWB3S
Lab Code: J1003438-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 18:47
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/29/10	8/2/10 18:47
Barium, Total	6020	**10.5**		µg/L	2.0	0.5	1	7/29/10	8/2/10 18:47
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 18:47
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 18:47
Chromium, Total	6020	**1.0**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 18:47
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 18:47
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 18:47
Iron, Total	6010B	**500**		µg/L	100	10	1	7/29/10	8/1/10 22:17
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 18:47
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:24
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 18:47
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 18:47
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 18:47
Sodium, Total	6010B	**2.94**		mg/L	0.50	0.02	1	7/29/10	8/1/10 22:16
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 18:47
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	8/2/10 18:47
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 18:47

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1030
Date Received: 7/21/10

Sample Name: MWB3I
Lab Code: J1003438-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 18:52
Arsenic, Total	6020	**0.22**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 18:52
Barium, Total	6020	**25.4**		µg/L	2.0	0.5	1	7/29/10	8/2/10 18:52
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 18:52
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 18:52
Chromium, Total	6020	**0.7**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 18:52
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 18:52
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 18:52
Iron, Total	6010B	**710**		µg/L	100	10	1	7/29/10	8/1/10 22:22
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 18:52
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:26
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 18:52
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 18:52
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 18:52
Sodium, Total	6010B	**3.59**		mg/L	0.50	0.02	1	7/29/10	8/1/10 22:20
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 18:52
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	8/2/10 18:52
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 18:52

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1107
Date Received: 7/21/10

Sample Name: MWB19D
Lab Code: J1003438-003

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 18:57
Arsenic, Total	6020	**1.08**		µg/L	0.50	0.14	1	7/29/10	8/2/10 18:57
Barium, Total	6020	**102**		µg/L	2.0	0.5	1	7/29/10	8/2/10 18:57
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 18:57
Cadmium, Total	6020	**0.17**	I	µg/L	0.50	0.17	1	7/29/10	8/2/10 18:57
Chromium, Total	6020	**3.3**		µg/L	2.0	0.6	1	7/29/10	8/2/10 18:57
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	7/29/10	8/2/10 18:57
Copper, Total	6020	**0.9**	I	µg/L	2.0	0.5	1	7/29/10	8/2/10 18:57
Iron, Total	6010B	**1690**		µg/L	100	10	1	7/29/10	8/1/10 22:32
Lead, Total	6020	**0.6**	I	µg/L	1.0	0.3	1	7/29/10	8/2/10 18:57
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:27
Nickel, Total	6020	**2.7**		µg/L	2.0	0.3	1	7/29/10	8/2/10 18:57
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 18:57
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 18:57
Sodium, Total	6010B	**4.58**		mg/L	0.50	0.02	1	7/29/10	8/1/10 22:32
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 18:57
Vanadium, Total	6020	**2.7**	I	µg/L	5.0	1.2	1	7/29/10	8/2/10 18:57
Zinc, Total	6020	**3**	I	µg/L	10	3	1	7/29/10	8/2/10 18:57

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1138
Date Received: 7/21/10

Sample Name: MWB19I
Lab Code: J1003438-004

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 19:02
Arsenic, Total	6020	**0.28**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 19:02
Barium, Total	6020	**66.7**		µg/L	2.0	0.5	1	7/29/10	8/2/10 19:02
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 19:02
Cadmium, Total	6020	**0.27**	I	µg/L	0.50	0.17	1	7/29/10	8/2/10 19:02
Chromium, Total	6020	**3.4**		µg/L	2.0	0.6	1	7/29/10	8/2/10 19:02
Cobalt, Total	6020	**1.6**		µg/L	1.0	0.2	1	7/29/10	8/2/10 19:02
Copper, Total	6020	**0.7**	I	µg/L	2.0	0.5	1	7/29/10	8/2/10 19:02
Iron, Total	6010B	**750**		µg/L	100	10	1	7/29/10	8/1/10 22:36
Lead, Total	6020	**0.9**	I	µg/L	1.0	0.3	1	7/29/10	8/2/10 19:02
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:29
Nickel, Total	6020	**2.9**		µg/L	2.0	0.3	1	7/29/10	8/2/10 19:02
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 19:02
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 19:02
Sodium, Total	6010B	**3.59**		mg/L	0.50	0.02	1	7/29/10	8/1/10 22:34
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 19:02
Vanadium, Total	6020	**2.7**	I	µg/L	5.0	1.2	1	7/29/10	8/2/10 19:02
Zinc, Total	6020	**10**		µg/L	10	3	1	7/29/10	8/2/10 19:02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1207
Date Received: 7/21/10

Sample Name: MWB19S
Lab Code: J1003438-005

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 19:07
Arsenic, Total	6020	**0.81**		µg/L	0.50	0.14	1	7/29/10	8/2/10 19:07
Barium, Total	6020	**11.6**		µg/L	2.0	0.5	1	7/29/10	8/2/10 19:07
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 19:07
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 19:07
Chromium, Total	6020	**4.6**		µg/L	2.0	0.6	1	7/29/10	8/2/10 19:07
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 19:07
Copper, Total	6020	**1.5**	I	µg/L	2.0	0.5	1	7/29/10	8/2/10 19:07
Iron, Total	6010B	**180**		µg/L	100	10	1	7/29/10	8/1/10 22:40
Lead, Total	6020	**6.0**		µg/L	1.0	0.3	1	7/29/10	8/2/10 19:07
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:39
Nickel, Total	6020	**1.7**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 19:07
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 19:07
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 19:07
Sodium, Total	6010B	**11.0**		mg/L	0.50	0.02	1	7/29/10	8/1/10 22:39
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 19:07
Vanadium, Total	6020	**9.2**		µg/L	5.0	1.2	1	7/29/10	8/2/10 19:07
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 19:07

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1237
Date Received: 7/21/10

Sample Name: MWB20S
Lab Code: J1003438-006

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 19:12
Arsenic, Total	6020	**0.42**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 19:12
Barium, Total	6020	**12.4**		µg/L	2.0	0.5	1	7/29/10	8/2/10 19:12
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 19:12
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 19:12
Chromium, Total	6020	**1.8**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 19:12
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	7/29/10	8/2/10 19:12
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.5	1	7/29/10	8/2/10 19:12
Iron, Total	6010B	**280**		µg/L	100	10	1	7/29/10	8/1/10 22:57
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.3	1	7/29/10	8/2/10 19:12
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:40
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 19:12
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 19:12
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 19:12
Sodium, Total	6010B	**5.54**		mg/L	0.50	0.02	1	7/29/10	8/1/10 22:55
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 19:12
Vanadium, Total	6020	**2.8**	I	µg/L	5.0	1.2	1	7/29/10	8/2/10 19:12
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 19:12

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1310
Date Received: 7/21/10

Sample Name: MWB11S
Lab Code: J1003438-007

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 19:16
Arsenic, Total	6020	**0.31**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 19:16
Barium, Total	6020	**83.5**		µg/L	2.0	0.5	1	7/29/10	8/2/10 19:16
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 19:16
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 19:16
Chromium, Total	6020	**1.2**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 19:16
Cobalt, Total	6020	**0.6**	I	µg/L	1.0	0.2	1	7/29/10	8/2/10 19:16
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 19:16
Iron, Total	6010B	**540**		µg/L	100	10	1	7/29/10	8/1/10 23:01
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 19:16
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:42
Nickel, Total	6020	**1.0**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 19:16
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 19:16
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 19:16
Sodium, Total	6010B	**13.3**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:00
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 19:16
Vanadium, Total	6020	**3.7**	I	µg/L	5.0	1.2	1	7/29/10	8/2/10 19:16
Zinc, Total	6020	**3**	I	µg/L	10	3	1	7/29/10	8/2/10 19:16

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1342
Date Received: 7/21/10

Sample Name: MWB11I(R)
Lab Code: J1003438-008

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 19:36
Arsenic, Total	6020	**0.17**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 19:36
Barium, Total	6020	**42.8**		µg/L	2.0	0.5	1	7/29/10	8/2/10 19:36
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 19:36
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 19:36
Chromium, Total	6020	**4.5**		µg/L	2.0	0.6	1	7/29/10	8/2/10 19:36
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 19:36
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 19:36
Iron, Total	6010B	**510**		µg/L	100	10	1	7/29/10	8/1/10 23:05
Lead, Total	6020	**0.9**	I	µg/L	1.0	0.3	1	7/29/10	8/2/10 19:36
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:43
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 19:36
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 19:36
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 19:36
Sodium, Total	6010B	**3.25**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:04
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 19:36
Vanadium, Total	6020	**5.4**		µg/L	5.0	1.2	1	7/29/10	8/2/10 19:36
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 19:36

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1418
Date Received: 7/21/10

Sample Name: MWB12D
Lab Code: J1003438-009

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:00
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:00
Barium, Total	6020	**117**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:00
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:00
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:00
Chromium, Total	6020	**0.8**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:00
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:00
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:00
Iron, Total	6010B	**720**		µg/L	100	10	1	7/29/10	8/1/10 23:15
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:00
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:45
Nickel, Total	6020	**1.8**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:00
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:00
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:00
Sodium, Total	6010B	**6.00**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:15
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:00
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	8/2/10 20:00
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1418
Date Received: 7/21/10

Sample Name: MWB12I
Lab Code: J1003438-010

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:05
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:05
Barium, Total	6020	**48.0**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:05
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:05
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:05
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:05
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:05
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:05
Iron, Total	6010B	**350**		µg/L	100	10	1	7/29/10	8/1/10 23:19
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:05
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:46
Nickel, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:05
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:05
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:05
Sodium, Total	6010B	**3.04**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:18
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:05
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	8/2/10 20:05
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:05

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: MWB7I
Lab Code: J1003438-011

Service Request: J1003438
Date Collected: 7/20/10 1309
Date Received: 7/21/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:10
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:10
Barium, Total	6020	**51.1**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:10
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:10
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:10
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:10
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:10
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:10
Iron, Total	6010B	**540**		µg/L	100	10	1	7/29/10	8/1/10 23:24
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:10
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:48
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:10
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:10
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:10
Sodium, Total	6010B	**3.26**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:22
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:10
Vanadium, Total	6020	**1.3**	I	µg/L	5.0	1.2	1	7/29/10	8/2/10 20:10
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1340
Date Received: 7/21/10

Sample Name: MWB7D
Lab Code: J1003438-012

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:15
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:15
Barium, Total	6020	**85.3**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:15
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:15
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:15
Chromium, Total	6020	**0.7**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:15
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:15
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:15
Iron, Total	6010B	**260**		µg/L	100	10	1	7/29/10	8/1/10 23:27
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:15
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:49
Nickel, Total	6020	**1.7**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:15
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:15
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:15
Sodium, Total	6010B	**4.63**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:26
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:15
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	8/2/10 20:15
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:15

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1408
Date Received: 7/21/10

Sample Name: MWB21S
Lab Code: J1003438-013

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:34
Arsenic, Total	6020	**0.47**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:34
Barium, Total	6020	**9.2**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:34
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:34
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:34
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:34
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:34
Copper, Total	6020	**0.8**	I	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:34
Iron, Total	6010B	**270**		µg/L	100	10	1	7/29/10	8/1/10 23:31
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:34
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:54
Nickel, Total	6020	**1.7**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:34
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:34
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:34
Sodium, Total	6010B	**1.56**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:29
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:34
Vanadium, Total	6020	**2.7**	I	µg/L	5.0	1.2	1	7/29/10	8/2/10 20:34
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:34

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1515
Date Received: 7/21/10

Sample Name: MWB22S
Lab Code: J1003438-014

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:39
Arsenic, Total	6020	**0.31**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:39
Barium, Total	6020	**5.9**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:39
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:39
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:39
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:39
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:39
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:39
Iron, Total	6010B	**60**	I	µg/L	100	10	1	7/29/10	8/1/10 23:35
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:39
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:55
Nickel, Total	6020	**1.8**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:39
Selenium, Total	6020	**1**	I	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:39
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:39
Sodium, Total	6010B	**6.59**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:33
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:39
Vanadium, Total	6020	**15.2**		µg/L	5.0	1.2	1	7/29/10	8/2/10 20:39
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:39

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1515
Date Received: 7/21/10

Sample Name: DUP02
Lab Code: J1003438-015

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:44
Arsenic, Total	6020	**0.23**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:44
Barium, Total	6020	**5.9**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:44
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:44
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:44
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:44
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:44
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:44
Iron, Total	6010B	**60**	I	µg/L	100	10	1	7/29/10	8/1/10 23:40
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:44
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:56
Nickel, Total	6020	**1.8**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:44
Selenium, Total	6020	**1.1**	I	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:44
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:44
Sodium, Total	6010B	**6.36**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:38
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:44
Vanadium, Total	6020	**15.2**		µg/L	5.0	1.2	1	7/29/10	8/2/10 20:44
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:44

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0728
Date Received: 7/21/10

Sample Name: MWB29D
Lab Code: J1003438-016

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:49
Arsenic, Total	6020	**0.18**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:49
Barium, Total	6020	**51.5**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:49
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:49
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:49
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:49
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:49
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:49
Iron, Total	6010B	**720**		µg/L	100	10	1	7/29/10	8/1/10 23:44
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:49
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:58
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:49
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:49
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:49
Sodium, Total	6010B	**3.77**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:42
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:49
Vanadium, Total	6020	**1.4**	I	µg/L	5.0	1.2	1	7/29/10	8/2/10 20:49
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:49

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0759
Date Received: 7/21/10

Sample Name: MWB29I
Lab Code: J1003438-017

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:54
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:54
Barium, Total	6020	**44.7**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:54
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:54
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:54
Chromium, Total	6020	**1.9**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:54
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:54
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:54
Iron, Total	6010B	**490**		µg/L	100	10	1	7/29/10	8/1/10 23:48
Lead, Total	6020	**1.1**		µg/L	1.0	0.3	1	7/29/10	8/2/10 20:54
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:59
Nickel, Total	6020	**1.2**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:54
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:54
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:54
Sodium, Total	6010B	**3.80**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:46
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:54
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	8/2/10 20:54
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:54

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0828
Date Received: 7/21/10

Sample Name: MWB29S
Lab Code: J1003438-018

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:59
Arsenic, Total	6020	**0.19**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 20:59
Barium, Total	6020	**9.7**		µg/L	2.0	0.5	1	7/29/10	8/2/10 20:59
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:59
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 20:59
Chromium, Total	6020	**1.5**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 20:59
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 20:59
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 20:59
Iron, Total	6010B	**380**		µg/L	100	10	1	7/29/10	8/1/10 23:52
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 20:59
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 15:01
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 20:59
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 20:59
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 20:59
Sodium, Total	6010B	**6.42**		mg/L	0.50	0.02	1	7/29/10	8/1/10 23:51
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 20:59
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	8/2/10 20:59
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 20:59

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0900
Date Received: 7/21/10

Sample Name: MWB2I
Lab Code: J1003438-019

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 21:04
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/29/10	8/2/10 21:04
Barium, Total	6020	**20.7**		µg/L	2.0	0.5	1	7/29/10	8/2/10 21:04
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 21:04
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 21:04
Chromium, Total	6020	**0.7**	I	µg/L	2.0	0.6	1	7/29/10	8/2/10 21:04
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	7/29/10	8/2/10 21:04
Copper, Total	6020	**0.5**	I	µg/L	2.0	0.5	1	7/29/10	8/2/10 21:04
Iron, Total	6010B	**370**		µg/L	100	10	1	7/29/10	8/2/10 00:03
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 21:04
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 15:02
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 21:04
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 21:04
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 21:04
Sodium, Total	6010B	**4.82**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:02
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 21:04
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	8/2/10 21:04
Zinc, Total	6020	**5**	I	µg/L	10	3	1	7/29/10	8/2/10 21:04

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0929
Date Received: 7/21/10

Sample Name: MWB2S
Lab Code: J1003438-020

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 21:08
Arsenic, Total	6020	**0.36**	I	µg/L	0.50	0.14	1	7/29/10	8/2/10 21:08
Barium, Total	6020	**7.5**		µg/L	2.0	0.5	1	7/29/10	8/2/10 21:08
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 21:08
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 21:08
Chromium, Total	6020	**4.3**		µg/L	2.0	0.6	1	7/29/10	8/2/10 21:08
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	7/29/10	8/2/10 21:08
Copper, Total	6020	**3.7**		µg/L	2.0	0.5	1	7/29/10	8/2/10 21:08
Iron, Total	6010B	**680**		µg/L	100	10	1	7/29/10	8/2/10 00:08
Lead, Total	6020	**2.2**		µg/L	1.0	0.3	1	7/29/10	8/2/10 21:08
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 15:04
Nickel, Total	6020	**1.6**	I	µg/L	2.0	0.3	1	7/29/10	8/2/10 21:08
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 21:08
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 21:08
Sodium, Total	6010B	**2.62**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:06
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 21:08
Vanadium, Total	6020	**4.3**	I	µg/L	5.0	1.2	1	7/29/10	8/2/10 21:08
Zinc, Total	6020	**3**	I	µg/L	10	3	1	7/29/10	8/2/10 21:08

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1620
Date Received: 7/21/10

Sample Name: MWB33S
Lab Code: J1003438-021

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**1.4**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:19
Arsenic, Total	6020	**0.96**		µg/L	0.50	0.14	1	7/30/10	8/5/10 14:19
Barium, Total	6020	**12.0**		µg/L	2.0	0.5	1	7/30/10	8/5/10 14:19
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:19
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 14:19
Chromium, Total	6020	**3.2**		µg/L	2.0	0.6	1	7/30/10	8/5/10 14:19
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	7/30/10	8/5/10 14:19
Copper, Total	6020	**2.1**		µg/L	2.0	0.5	1	7/30/10	8/5/10 14:19
Iron, Total	6010B	**450**		µg/L	100	10	1	7/29/10	8/2/10 00:18
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:19
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 13:44
Nickel, Total	6020	**2.0**		µg/L	2.0	0.3	1	7/30/10	8/5/10 14:19
Selenium, Total	6020	**0.9**	I	µg/L	5.0	0.9	1	7/30/10	8/5/10 14:19
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 14:19
Sodium, Total	6010B	**16.5**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:18
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 14:19
Vanadium, Total	6020	**7.7**		µg/L	5.0	1.2	1	7/30/10	8/5/10 14:19
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 14:19

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0815
Date Received: 7/21/10

Sample Name: MWB27S
Lab Code: J1003438-022

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:24
Arsenic, Total	6020	**0.69**		µg/L	0.50	0.14	1	7/30/10	8/5/10 14:24
Barium, Total	6020	**7.4**		µg/L	2.0	0.5	1	7/30/10	8/5/10 14:24
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:24
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 14:24
Chromium, Total	6020	**3.0**		µg/L	2.0	0.6	1	7/30/10	8/5/10 14:24
Cobalt, Total	6020	**0.2**	I	µg/L	1.0	0.2	1	7/30/10	8/5/10 14:24
Copper, Total	6020	**1.5**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 14:24
Iron, Total	6010B	**340**		µg/L	100	10	1	7/29/10	8/2/10 00:22
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:24
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 13:46
Nickel, Total	6020	**1.5**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:24
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 14:24
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 14:24
Sodium, Total	6010B	**5.87**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:20
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 14:24
Vanadium, Total	6020	**5.2**		µg/L	5.0	1.2	1	7/30/10	8/5/10 14:24
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 14:24

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0843
Date Received: 7/21/10

Sample Name: MWB27I
Lab Code: J1003438-023

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:43
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/30/10	8/5/10 14:43
Barium, Total	6020	**54.0**		µg/L	2.0	0.5	1	7/30/10	8/5/10 14:43
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:43
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 14:43
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 14:43
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 14:43
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 14:43
Iron, Total	6010B	**500**		µg/L	100	10	1	7/29/10	8/2/10 00:26
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:43
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 13:53
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:43
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 14:43
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 14:43
Sodium, Total	6010B	**3.64**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:25
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 14:43
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 14:43
Zinc, Total	6020	**4**	I	µg/L	10	3	1	7/30/10	8/5/10 14:43

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0918
Date Received: 7/21/10

Sample Name: MWB27D
Lab Code: J1003438-024

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:48
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/30/10	8/5/10 14:48
Barium, Total	6020	**56.6**		µg/L	2.0	0.5	1	7/30/10	8/5/10 14:48
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:48
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 14:48
Chromium, Total	6020	**1.0**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 14:48
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 14:48
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 14:48
Iron, Total	6010B	**650**		µg/L	100	10	1	7/29/10	8/2/10 00:30
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:48
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 13:55
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:48
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 14:48
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 14:48
Sodium, Total	6010B	**3.91**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:29
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 14:48
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 14:48
Zinc, Total	6020	**3**	I	µg/L	10	3	1	7/30/10	8/5/10 14:48

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0918
Date Received: 7/21/10

Sample Name: DUP01
Lab Code: J1003438-025

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:53
Arsenic, Total	6020	**0.16**	I	µg/L	0.50	0.14	1	7/30/10	8/5/10 14:53
Barium, Total	6020	**54.9**		µg/L	2.0	0.5	1	7/30/10	8/5/10 14:53
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:53
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 14:53
Chromium, Total	6020	**1.7**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 14:53
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 14:53
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 14:53
Iron, Total	6010B	**610**		µg/L	100	10	1	7/29/10	8/2/10 00:35
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:53
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 13:59
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:53
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 14:53
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 14:53
Sodium, Total	6010B	**3.61**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:33
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 14:53
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 14:53
Zinc, Total	6020	**3**	I	µg/L	10	3	1	7/30/10	8/5/10 14:53

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1004
Date Received: 7/21/10

Sample Name: MWB31D
Lab Code: J1003438-026

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:58
Arsenic, Total	6020	**0.29**	I	µg/L	0.50	0.14	1	7/30/10	8/5/10 14:58
Barium, Total	6020	**116**		µg/L	2.0	0.5	1	7/30/10	8/5/10 14:58
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:58
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 14:58
Chromium, Total	6020	**1.6**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 14:58
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 14:58
Copper, Total	6020	**0.5**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 14:58
Iron, Total	6010B	**1300**		µg/L	100	10	1	7/29/10	8/2/10 00:39
Lead, Total	6020	**0.9**	I	µg/L	1.0	0.3	1	7/30/10	8/5/10 14:58
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:01
Nickel, Total	6020	**1.5**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 14:58
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 14:58
Silver, Total	6020	**0.94**		µg/L	0.50	0.09	1	7/30/10	8/5/10 14:58
Sodium, Total	6010B	**6.83**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:38
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 14:58
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 14:58
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 14:58

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1042
Date Received: 7/21/10

Sample Name: MWB17S
Lab Code: J1003438-027

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:03
Arsenic, Total	6020	**0.19**	I	µg/L	0.50	0.14	1	7/30/10	8/5/10 15:03
Barium, Total	6020	**3.0**		µg/L	2.0	0.5	1	7/30/10	8/5/10 15:03
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:03
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 15:03
Chromium, Total	6020	**1.9**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 15:03
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 15:03
Copper, Total	6020	**0.6**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 15:03
Iron, Total	6010B	**200**		µg/L	100	10	1	7/29/10	8/2/10 00:50
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:03
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:02
Nickel, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:03
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 15:03
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 15:03
Sodium, Total	6010B	**4.49**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:49
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 15:03
Vanadium, Total	6020	**1.4**	I	µg/L	5.0	1.2	1	7/30/10	8/5/10 15:03
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 15:03

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1115
Date Received: 7/21/10

Sample Name: MWB17D
Lab Code: J1003438-028

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:07
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/30/10	8/5/10 15:07
Barium, Total	6020	**33.1**		µg/L	2.0	0.5	1	7/30/10	8/5/10 15:07
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:07
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 15:07
Chromium, Total	6020	**1.8**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 15:07
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 15:07
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 15:07
Iron, Total	6010B	**360**		µg/L	100	10	1	7/29/10	8/2/10 00:55
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:07
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:04
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:07
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 15:07
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 15:07
Sodium, Total	6010B	**3.27**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:53
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 15:07
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 15:07
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 15:07

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1149
Date Received: 7/21/10

Sample Name: MWB17I
Lab Code: J1003438-029

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:12
Arsenic, Total	6020	**0.24**	I	µg/L	0.50	0.14	1	7/30/10	8/5/10 15:12
Barium, Total	6020	**37.2**		µg/L	2.0	0.5	1	7/30/10	8/5/10 15:12
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:12
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 15:12
Chromium, Total	6020	**1.0**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 15:12
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 15:12
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 15:12
Iron, Total	6010B	**370**		µg/L	100	10	1	7/29/10	8/2/10 00:59
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:12
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:05
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:12
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 15:12
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 15:12
Sodium, Total	6010B	**3.35**		mg/L	0.50	0.02	1	7/29/10	8/2/10 00:58
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 15:12
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 15:12
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 15:12

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1232
Date Received: 7/21/10

Sample Name: MWB7S
Lab Code: J1003438-030

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:17
Arsenic, Total	6020	**0.32**	I	µg/L	0.50	0.14	1	7/30/10	8/5/10 15:17
Barium, Total	6020	**7.1**		µg/L	2.0	0.5	1	7/30/10	8/5/10 15:17
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:17
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 15:17
Chromium, Total	6020	**2.5**		µg/L	2.0	0.6	1	7/30/10	8/5/10 15:17
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 15:17
Copper, Total	6020	**0.7**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 15:17
Iron, Total	6010B	**110**		µg/L	100	10	1	7/29/10	8/2/10 01:04
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:17
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:06
Nickel, Total	6020	**1.0**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:17
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 15:17
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 15:17
Sodium, Total	6010B	**13.6**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:02
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 15:17
Vanadium, Total	6020	**4.9**	I	µg/L	5.0	1.2	1	7/30/10	8/5/10 15:17
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 15:17

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1520
Date Received: 7/21/10

Sample Name: MWB12S
Lab Code: J1003438-031

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:22
Arsenic, Total	6020	**0.14**	I	µg/L	0.50	0.14	1	7/30/10	8/5/10 15:22
Barium, Total	6020	**9.2**		µg/L	2.0	0.5	1	7/30/10	8/5/10 15:22
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:22
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 15:22
Chromium, Total	6020	**3.3**		µg/L	2.0	0.6	1	7/30/10	8/5/10 15:22
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 15:22
Copper, Total	6020	**1.0**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 15:22
Iron, Total	6010B	**50**	I	µg/L	100	10	1	7/29/10	8/2/10 01:20
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:22
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:08
Nickel, Total	6020	**1**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:22
Selenium, Total	6020	**8.8**		µg/L	5.0	0.9	1	7/30/10	8/5/10 15:22
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 15:22
Sodium, Total	6010B	**8.31**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:19
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 15:22
Vanadium, Total	6020	**94.4**		µg/L	5.0	1.2	1	7/30/10	8/5/10 15:22
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 15:22

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1602
Date Received: 7/21/10

Sample Name: MWB13I
Lab Code: J1003438-032

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 13:55
Arsenic, Total	6020	**0.25**	I	µg/L	0.50	0.14	1	7/30/10	8/5/10 13:55
Barium, Total	6020	**34.3**		µg/L	2.0	0.5	1	7/30/10	8/5/10 13:55
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 13:55
Cadmium, Total	6020	**0.22**	I	µg/L	0.50	0.17	1	7/30/10	8/5/10 13:55
Chromium, Total	6020	**2.0**		µg/L	2.0	0.6	1	7/30/10	8/5/10 13:55
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 13:55
Copper, Total	6020	**0.7**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 13:55
Iron, Total	6010B	**380**		µg/L	100	10	1	7/29/10	8/2/10 01:24
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 13:55
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:09
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 13:55
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 13:55
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 13:55
Sodium, Total	6010B	**3.65**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:23
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 13:55
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 13:55
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 13:55

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 0909
Date Received: 7/21/10

Sample Name: MWB13S
Lab Code: J1003438-033

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:41
Arsenic, Total	6020	**0.80**		µg/L	0.50	0.14	1	7/30/10	8/5/10 15:41
Barium, Total	6020	**7.2**		µg/L	2.0	0.5	1	7/30/10	8/5/10 15:41
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:41
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 15:41
Chromium, Total	6020	**2.7**		µg/L	2.0	0.6	1	7/30/10	8/5/10 15:41
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 15:41
Copper, Total	6020	**1.5**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 15:41
Iron, Total	6010B	**340**		µg/L	100	10	1	7/29/10	8/2/10 01:36
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:41
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:11
Nickel, Total	6020	**1.2**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:41
Selenium, Total	6020	**5.0**		µg/L	5.0	0.9	1	7/30/10	8/5/10 15:41
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 15:41
Sodium, Total	6010B	**18.5**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:34
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 15:41
Vanadium, Total	6020	**63.6**		µg/L	5.0	1.2	1	7/30/10	8/5/10 15:41
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 15:41

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1109
Date Received: 7/21/10

Sample Name: MWB32S
Lab Code: J1003438-034

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:46
Arsenic, Total	6020	**0.76**		µg/L	0.50	0.14	1	7/30/10	8/5/10 15:46
Barium, Total	6020	**20.7**		µg/L	2.0	0.5	1	7/30/10	8/5/10 15:46
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:46
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 15:46
Chromium, Total	6020	**4.0**		µg/L	2.0	0.6	1	7/30/10	8/5/10 15:46
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	7/30/10	8/5/10 15:46
Copper, Total	6020	**2.0**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 15:46
Iron, Total	6010B	**230**		µg/L	100	10	1	7/29/10	8/2/10 01:39
Lead, Total	6020	**1.1**		µg/L	1.0	0.3	1	7/30/10	8/5/10 15:46
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:12
Nickel, Total	6020	**3.3**		µg/L	2.0	0.3	1	7/30/10	8/5/10 15:46
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 15:46
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 15:46
Sodium, Total	6010B	**32.9**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:39
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 15:46
Vanadium, Total	6020	**6.7**		µg/L	5.0	1.2	1	7/30/10	8/5/10 15:46
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 15:46

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1219
Date Received: 7/21/10

Sample Name: MWB32I
Lab Code: J1003438-035

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:51
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/30/10	8/5/10 15:51
Barium, Total	6020	**36.0**		µg/L	2.0	0.5	1	7/30/10	8/5/10 15:51
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:51
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 15:51
Chromium, Total	6020	**1.6**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 15:51
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 15:51
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 15:51
Iron, Total	6010B	**280**		µg/L	100	10	1	7/29/10	8/2/10 01:43
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:51
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:17
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:51
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 15:51
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 15:51
Sodium, Total	6010B	**2.93**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:41
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 15:51
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 15:51
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 15:51

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: MWB32D
Lab Code: J1003438-036

Service Request: J1003438
Date Collected: 7/21/10 1243
Date Received: 7/21/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:56
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/30/10	8/5/10 15:56
Barium, Total	6020	**32.4**		µg/L	2.0	0.5	1	7/30/10	8/5/10 15:56
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:56
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 15:56
Chromium, Total	6020	**1.9**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 15:56
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 15:56
Copper, Total	6020	**0.7**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 15:56
Iron, Total	6010B	**470**		µg/L	100	10	1	7/29/10	8/2/10 01:47
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	7/30/10	8/5/10 15:56
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:18
Nickel, Total	6020	**1.2**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 15:56
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 15:56
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 15:56
Sodium, Total	6010B	**4.35**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:46
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 15:56
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 15:56
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 15:56

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 0959
Date Received: 7/21/10

Sample Name: MWB34S
Lab Code: J1003438-037

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 16:01
Arsenic, Total	6020	**0.94**		µg/L	0.50	0.14	1	7/30/10	8/5/10 16:01
Barium, Total	6020	**4.8**		µg/L	2.0	0.5	1	7/30/10	8/5/10 16:01
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 16:01
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 16:01
Chromium, Total	6020	**2.8**		µg/L	2.0	0.6	1	7/30/10	8/5/10 16:01
Cobalt, Total	6020	**0.9**	I	µg/L	1.0	0.2	1	7/30/10	8/5/10 16:01
Copper, Total	6020	**1.1**	I	µg/L	2.0	0.5	1	7/30/10	8/5/10 16:01
Iron, Total	6010B	**190**		µg/L	100	10	1	7/29/10	8/2/10 01:50
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 16:01
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:20
Nickel, Total	6020	**5.4**		µg/L	2.0	0.3	1	7/30/10	8/5/10 16:01
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 16:01
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 16:01
Sodium, Total	6010B	**80.4**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:50
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 16:01
Vanadium, Total	6020	**6.6**		µg/L	5.0	1.2	1	7/30/10	8/5/10 16:01
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 16:01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1228
Date Received: 7/21/10

Sample Name: MWB34I
Lab Code: J1003438-038

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 16:06
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/30/10	8/5/10 16:06
Barium, Total	6020	**50.7**		µg/L	2.0	0.5	1	7/30/10	8/5/10 16:06
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 16:06
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 16:06
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 16:06
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 16:06
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 16:06
Iron, Total	6010B	**500**		µg/L	100	10	1	7/29/10	8/2/10 01:54
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 16:06
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:21
Nickel, Total	6020	**0.9**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 16:06
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 16:06
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 16:06
Sodium, Total	6010B	**3.24**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:53
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 16:06
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 16:06
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 16:06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 0924
Date Received: 7/21/10

Sample Name: MWB34D
Lab Code: J1003438-039

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 16:10
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/30/10	8/5/10 16:10
Barium, Total	6020	**114**		µg/L	2.0	0.5	1	7/30/10	8/5/10 16:10
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 16:10
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 16:10
Chromium, Total	6020	**1.0**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 16:10
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 16:10
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 16:10
Iron, Total	6010B	**460**		µg/L	100	10	1	7/29/10	8/2/10 01:57
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 16:10
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:23
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 16:10
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 16:10
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 16:10
Sodium, Total	6010B	**6.39**		mg/L	0.50	0.02	1	7/29/10	8/2/10 01:57
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 16:10
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 16:10
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 16:10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1219
Date Received: 7/21/10

Sample Name: DUP03
Lab Code: J1003438-040

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 16:15
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/30/10	8/5/10 16:15
Barium, Total	6020	**36.4**		µg/L	2.0	0.5	1	7/30/10	8/5/10 16:15
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 16:15
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 16:15
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.6	1	7/30/10	8/5/10 16:15
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 16:15
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 16:15
Iron, Total	6010B	**280**		µg/L	100	10	1	7/29/10	8/2/10 02:01
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.3	1	7/30/10	8/5/10 16:15
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 14:24
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	7/30/10	8/5/10 16:15
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 16:15
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 16:15
Sodium, Total	6010B	**2.99**		mg/L	0.50	0.02	1	7/29/10	8/2/10 02:00
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 16:15
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 16:15
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 16:15

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1228
Date Received: 7/21/10

Sample Name: DUP04
Lab Code: J1003438-041

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/28/10	8/2/10 15:30
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/28/10	8/2/10 15:30
Barium, Total	6020	**48.5**		µg/L	2.0	0.5	1	7/28/10	8/2/10 15:30
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 15:30
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/28/10	8/2/10 15:30
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.6	1	7/28/10	8/2/10 15:30
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/28/10	8/2/10 15:30
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/28/10	8/2/10 15:30
Iron, Total	6010B	**480**		µg/L	100	10	1	7/29/10	8/1/10 22:02
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 15:30
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/27/10	7/28/10 11:42
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	7/28/10	8/2/10 15:30
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/28/10	8/2/10 15:30
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/28/10	8/2/10 15:30
Sodium, Total	6010B	**3.36**		mg/L	0.50	0.02	1	7/29/10	8/1/10 22:00
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/28/10	8/2/10 15:30
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/28/10	8/2/10 15:30
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/28/10	8/2/10 15:30

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: FB
Lab Code: J1003438-042

Service Request: J1003438
Date Collected: 7/21/10 1253
Date Received: 7/21/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/28/10	8/2/10 15:34
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/28/10	8/2/10 15:34
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	7/28/10	8/2/10 15:34
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 15:34
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/28/10	8/2/10 15:34
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	7/28/10	8/2/10 15:34
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/28/10	8/2/10 15:34
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/28/10	8/2/10 15:34
Iron, Total	6010B	ND	U	µg/L	100	10	1	7/29/10	8/1/10 22:06
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 15:34
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/27/10	7/28/10 11:43
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	7/28/10	8/2/10 15:34
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/28/10	8/2/10 15:34
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/28/10	8/2/10 15:34
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	7/29/10	8/1/10 22:05
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/28/10	8/2/10 15:34
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/28/10	8/2/10 15:34
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/28/10	8/2/10 15:34

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1003438-MB1

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/28/10	8/2/10 13:09
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/28/10	8/2/10 13:09
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	7/28/10	8/2/10 13:09
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 13:09
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/28/10	8/2/10 13:09
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	7/28/10	8/2/10 13:09
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/28/10	8/2/10 13:09
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/28/10	8/2/10 13:09
Iron, Total	6010B	**30**	I	µg/L	100	10	1	7/29/10	8/1/10 20:21
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 13:09
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/27/10	7/28/10 11:08
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	7/28/10	8/2/10 13:09
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/28/10	8/2/10 13:09
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/28/10	8/2/10 13:09
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	7/29/10	8/1/10 20:20
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/28/10	8/2/10 13:09
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/28/10	8/2/10 13:09
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/28/10	8/2/10 13:09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1003438-MB2

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 18:38
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/29/10	8/2/10 18:38
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 18:38
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 18:38
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	8/2/10 18:38
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	7/29/10	8/2/10 18:38
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	8/2/10 18:38
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	8/2/10 18:38
Iron, Total	6010B	ND	U	µg/L	100	10	1	7/29/10	8/1/10 22:11
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	8/2/10 18:38
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/29/10	7/30/10 14:21
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	8/2/10 18:38
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	8/2/10 18:38
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	8/2/10 18:38
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	7/29/10	8/1/10 22:09
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	8/2/10 18:38
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	8/2/10 18:38
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	8/2/10 18:38

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1003438-MB3

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 13:45
Arsenic, Total	6020	**0.17**	I	µg/L	0.50	0.14	1	7/30/10	8/5/10 13:45
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 13:45
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 13:45
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/30/10	8/5/10 13:45
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	7/30/10	8/5/10 13:45
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/30/10	8/5/10 13:45
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/30/10	8/5/10 13:45
Iron, Total	6010B	ND	U	µg/L	100	10	1	7/29/10	8/2/10 00:12
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/30/10	8/5/10 13:45
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	8/ 2/10	8/3/10 13:42
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	7/30/10	8/5/10 13:45
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/30/10	8/5/10 13:45
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/30/10	8/5/10 13:45
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	7/29/10	8/2/10 00:11
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/30/10	8/5/10 13:45
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/30/10	8/5/10 13:45
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/30/10	8/5/10 13:45

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1001
Date Received: 7/21/10

Sample Name: MWB3S
Lab Code: J1003438-001

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.004**	IV	mg/L	0.010	0.004	1	NA	7/26/10 17:33
Chloride	300.0	**5.14**		mg/L	0.50	0.09	1	NA	7/22/10 02:52
Conductivity, Field	120.1	**48**		µMHOS/cm			1	NA	7/20/10 10:00
Dissolved Oxygen, Field	360.1	**0.8**		ppm			1	NA	7/20/10 10:00
Groundwater Elevation	Depth Field	**147**		Feet			1	NA	7/20/10 10:00
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 02:52
pH, Field	150.1	**4.67**		pH Units			1	NA	7/20/10 10:00
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**23.4**		deg C			1	NA	7/20/10 10:00
Turbidity, Field	180.1	**3.17**		NTU			1	NA	7/20/10 10:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1030
Date Received: 7/21/10

Sample Name: MWB3I
Lab Code: J1003438-002

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.007**	IV	mg/L	0.010	0.004	1	NA	7/26/10 14:07
Chloride	300.0	**5.14**		mg/L	0.50	0.09	1	NA	7/22/10 03:07
Conductivity, Field	120.1	**41**		µMHOS/cm			1	NA	7/20/10 10:29
Dissolved Oxygen, Field	360.1	**0.6**		ppm			1	NA	7/20/10 10:29
Groundwater Elevation	Depth Field	**140**		Feet			1	NA	7/20/10 10:29
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 03:07
pH, Field	150.1	**5.00**		pH Units			1	NA	7/20/10 10:29
Solids, Total Dissolved	SM 2540 C	**13**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**22.6**		deg C			1	NA	7/20/10 10:29
Turbidity, Field	180.1	**0.98**		NTU			1	NA	7/20/10 10:29

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1107
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB19D		
Lab Code:	J1003438-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.111**		mg/L	0.010	0.004	1	NA	7/26/10 14:08
Chloride	300.0	**4.01**		mg/L	0.50	0.09	1	NA	7/22/10 03:22
Conductivity, Field	120.1	**393**		µMHOS/cm			1	NA	7/20/10 11:06
Dissolved Oxygen, Field	360.1	**0.3**		ppm			1	NA	7/20/10 11:06
Groundwater Elevation	Depth Field	**122**		Feet			1	NA	7/20/10 11:06
Nitrate as Nitrogen	300.0	**0.18**	I	mg/L	0.20	0.07	1	NA	7/22/10 03:22
pH, Field	150.1	**7.45**		pH Units			1	NA	7/20/10 11:06
Solids, Total Dissolved	SM 2540 C	**202**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**24.3**		deg C			1	NA	7/20/10 11:06
Turbidity, Field	180.1	**7.11**		NTU			1	NA	7/20/10 11:06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1138
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB19I		
Lab Code:	J1003438-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.065**		mg/L	0.010	0.004	1	NA	7/26/10 14:12
Chloride	300.0	**4.86**		mg/L	0.50	0.09	1	NA	7/22/10 03:37
Conductivity, Field	120.1	**38**		µMHOS/cm			1	NA	7/20/10 11:37
Dissolved Oxygen, Field	360.1	**0.5**		ppm			1	NA	7/20/10 11:37
Groundwater Elevation	Depth Field	ND	U	Feet			1	NA	7/20/10 11:37
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 03:37
pH, Field	150.1	**5.34**		pH Units			1	NA	7/20/10 11:37
Solids, Total Dissolved	SM 2540 C	**23**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**25.6**		deg C			1	NA	7/20/10 11:37
Turbidity, Field	180.1	**14.72**		NTU			1	NA	7/20/10 11:37

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1207
Date Received: 7/21/10

Sample Name: MWB19S
Lab Code: J1003438-005

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.426**		mg/L	0.010	0.004	1	NA	7/26/10 14:13
Chloride	300.0	**12.0**		mg/L	0.50	0.09	1	NA	7/22/10 03:52
Conductivity, Field	120.1	**188**		µMHOS/cm			1	NA	7/20/10 12:06
Dissolved Oxygen, Field	360.1	**0.4**		ppm			1	NA	7/20/10 12:06
Groundwater Elevation	Depth Field	**121**		Feet			1	NA	7/20/10 12:06
Nitrate as Nitrogen	300.0	**0.19**	I	mg/L	0.20	0.07	1	NA	7/22/10 03:52
pH, Field	150.1	**5.79**		pH Units			1	NA	7/20/10 12:06
Solids, Total Dissolved	SM 2540 C	**120**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**27.2**		deg C			1	NA	7/20/10 12:06
Turbidity, Field	180.1	**13.00**		NTU			1	NA	7/20/10 12:06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1237
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB20S		
Lab Code:	J1003438-006	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.347**		mg/L	0.010	0.004	1	NA	7/26/10 14:14
Chloride	300.0	**8.72**		mg/L	0.50	0.09	1	NA	7/22/10 04:07
Conductivity, Field	120.1	**100**		µMHOS/cm			1	NA	7/20/10 12:36
Dissolved Oxygen, Field	360.1	**0.5**		ppm			1	NA	7/20/10 12:36
Groundwater Elevation	Depth Field	**114**		Feet			1	NA	7/20/10 12:36
Nitrate as Nitrogen	300.0	**0.18**	I	mg/L	0.20	0.07	1	NA	7/22/10 04:07
pH, Field	150.1	**4.64**		pH Units			1	NA	7/20/10 12:36
Solids, Total Dissolved	SM 2540 C	**66**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**28.3**		deg C			1	NA	7/20/10 12:36
Turbidity, Field	180.1	**16.08**		NTU			1	NA	7/20/10 12:36

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1310
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB11S		
Lab Code:	J1003438-007	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.103**		mg/L	0.010	0.004	1	NA	7/26/10 14:15
Chloride	300.0	**22.1**		mg/L	0.50	0.09	1	NA	7/22/10 05:06
Conductivity, Field	120.1	**216**		µMHOS/cm			1	NA	7/20/10 13:09
Dissolved Oxygen, Field	360.1	**0.5**		ppm			1	NA	7/20/10 13:09
Groundwater Elevation	Depth Field	**110**		Feet			1	NA	7/20/10 13:09
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 05:06
pH, Field	150.1	**4.08**		pH Units			1	NA	7/20/10 13:09
Solids, Total Dissolved	SM 2540 C	**116**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**25.4**		deg C			1	NA	7/20/10 13:09
Turbidity, Field	180.1	**1.62**		NTU			1	NA	7/20/10 13:09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1342
Date Received: 7/21/10

Sample Name: MWB11I(R)
Lab Code: J1003438-008

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.043**	V	mg/L	0.010	0.004	1	NA	7/26/10 14:16
Chloride	300.0	**5.35**		mg/L	0.50	0.09	1	NA	7/22/10 06:21
Conductivity, Field	120.1	**41**		µMHOS/cm			1	NA	7/20/10 13:41
Dissolved Oxygen, Field	360.1	**0.6**		ppm			1	NA	7/20/10 13:41
Groundwater Elevation	Depth Field	**109**		Feet			1	NA	7/20/10 13:41
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 06:21
pH, Field	150.1	**5.18**		pH Units			1	NA	7/20/10 13:41
Solids, Total Dissolved	SM 2540 C	**22**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**26.3**		deg C			1	NA	7/20/10 13:41
Turbidity, Field	180.1	**11.49**		NTU			1	NA	7/20/10 13:41

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1418
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB12D		
Lab Code:	J1003438-009	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.169**		mg/L	0.010	0.004	1	NA	7/26/10 14:18
Chloride	300.0	**3.78**		mg/L	0.50	0.09	1	NA	7/22/10 06:36
Conductivity, Field	120.1	**420**		µMHOS/cm			1	NA	7/20/10 14:17
Dissolved Oxygen, Field	360.1	**0.1**		ppm			1	NA	7/20/10 14:17
Groundwater Elevation	Depth Field	**120**		Feet			1	NA	7/20/10 14:17
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 06:36
pH, Field	150.1	**7.20**		pH Units			1	NA	7/20/10 14:17
Solids, Total Dissolved	SM 2540 C	**218**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**25.7**		deg C			1	NA	7/20/10 14:17
Turbidity, Field	180.1	**2.55**		NTU			1	NA	7/20/10 14:17

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1418
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB12I		
Lab Code:	J1003438-010	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.044**		mg/L	0.010	0.004	1	NA	7/26/10 14:25
Chloride	300.0	**4.75**		mg/L	0.50	0.09	1	NA	7/22/10 08:06
Conductivity, Field	120.1	**42**		µMHOS/cm			1	NA	7/20/10 14:47
Dissolved Oxygen, Field	360.1	**0.2**		ppm			1	NA	7/20/10 14:47
Groundwater Elevation	Depth Field	**117**		Feet			1	NA	7/20/10 14:47
Nitrate as Nitrogen	300.0	**0.18**	I	mg/L	0.20	0.07	1	NA	7/22/10 08:06
pH, Field	150.1	**5.34**		pH Units			1	NA	7/20/10 14:47
Solids, Total Dissolved	SM 2540 C	**29**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**25.3**		deg C			1	NA	7/20/10 14:47
Turbidity, Field	180.1	**2.03**		NTU			1	NA	7/20/10 14:47

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1309
Date Received: 7/21/10

Sample Name: MWB7I
Lab Code: J1003438-011

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.049**		mg/L	0.010	0.004	1	NA	7/26/10 14:25
Chloride	300.0	**5.09**		mg/L	0.50	0.09	1	NA	7/22/10 08:50
Conductivity, Field	120.1	**38**		µMHOS/cm			1	NA	7/20/10 13:08
Dissolved Oxygen, Field	360.1	**0.0**		ppm			1	NA	7/20/10 13:08
Groundwater Elevation	Depth Field	**118**		Feet			1	NA	7/20/10 13:08
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 08:50
pH, Field	150.1	**5.36**		pH Units			1	NA	7/20/10 13:08
Solids, Total Dissolved	SM 2540 C	**34**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**26.0**		deg C			1	NA	7/20/10 13:08
Turbidity, Field	180.1	**0.39**		NTU			1	NA	7/20/10 13:08

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1340
Date Received: 7/21/10

Sample Name: MWB7D
Lab Code: J1003438-012

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.136**		mg/L	0.010	0.004	1	NA	7/26/10 14:26
Chloride	300.0	**3.88**		mg/L	0.50	0.09	1	NA	7/22/10 09:05
Conductivity, Field	120.1	**340**		µMHOS/cm			1	NA	7/20/10 13:39
Dissolved Oxygen, Field	360.1	**0.0**		ppm			1	NA	7/20/10 13:39
Groundwater Elevation	Depth Field	**121**		Feet			1	NA	7/20/10 13:39
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 09:05
pH, Field	150.1	**7.28**		pH Units			1	NA	7/20/10 13:39
Solids, Total Dissolved	SM 2540 C	**194**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**25.4**		deg C			1	NA	7/20/10 13:39
Turbidity, Field	180.1	**0.17**		NTU			1	NA	7/20/10 13:39

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1408
Date Received: 7/21/10

Sample Name: MWB21S
Lab Code: J1003438-013

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.205**		mg/L	0.010	0.004	1	NA	7/26/10 14:27
Chloride	300.0	**1.34**		mg/L	0.50	0.09	1	NA	7/22/10 09:20
Conductivity, Field	120.1	**164**		µMHOS/cm			1	NA	7/20/10 14:07
Dissolved Oxygen, Field	360.1	**0.0**		ppm			1	NA	7/20/10 14:07
Groundwater Elevation	Depth Field	**112**		Feet			1	NA	7/20/10 14:07
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 09:20
pH, Field	150.1	**5.83**		pH Units			1	NA	7/20/10 14:07
Solids, Total Dissolved	SM 2540 C	**123**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**26.4**		deg C			1	NA	7/20/10 14:07
Turbidity, Field	180.1	**0.24**		NTU			1	NA	7/20/10 14:07

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1515
Date Received: 7/21/10

Sample Name: MWB22S
Lab Code: J1003438-014

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.043**		mg/L	0.010	0.004	1	NA	7/26/10 14:28
Chloride	300.0	**10.7**		mg/L	0.50	0.09	1	NA	7/22/10 09:35
Conductivity, Field	120.1	**236**		µMHOS/cm			1	NA	7/20/10 15:14
Dissolved Oxygen, Field	360.1	**0.9**		ppm			1	NA	7/20/10 15:14
Groundwater Elevation	Depth Field	**116**		Feet			1	NA	7/20/10 15:14
Nitrate as Nitrogen	300.0	**0.20**	I	mg/L	0.20	0.07	1	NA	7/22/10 09:35
pH, Field	150.1	**6.01**		pH Units			1	NA	7/20/10 15:14
Solids, Total Dissolved	SM 2540 C	**164**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**27.8**		deg C			1	NA	7/20/10 15:14
Turbidity, Field	180.1	**0.40**		NTU			1	NA	7/20/10 15:14

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1515
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	DUP02		
Lab Code:	J1003438-015	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.037**		mg/L	0.010	0.004	1	NA	7/26/10 14:29
Chloride	300.0	**10.6**		mg/L	0.50	0.09	1	NA	7/22/10 09:50
Conductivity, Field	120.1	**236**		µMHOS/cm			1	NA	7/20/10 15:14
Dissolved Oxygen, Field	360.1	**0.9**		ppm			1	NA	7/20/10 15:14
Groundwater Elevation	Depth Field	**116**		Feet			1	NA	7/20/10 15:14
Nitrate as Nitrogen	300.0	**0.20**	I	mg/L	0.20	0.07	1	NA	7/22/10 09:50
pH, Field	150.1	**6.01**		pH Units			1	NA	7/20/10 15:14
Solids, Total Dissolved	SM 2540 C	**159**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**27.8**		deg C			1	NA	7/20/10 15:14
Turbidity, Field	180.1	**0.40**		NTU			1	NA	7/20/10 15:14

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0728
Date Received: 7/21/10

Sample Name: MWB29D
Lab Code: J1003438-016

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.086**		mg/L	0.010	0.004	1	NA	7/26/10 14:30
Chloride	300.0	**5.89**		mg/L	0.50	0.09	1	NA	7/21/10 22:23
Conductivity, Field	120.1	**69**		µMHOS/cm			1	NA	7/20/10 07:27
Dissolved Oxygen, Field	360.1	**0.6**		ppm			1	NA	7/20/10 07:27
Groundwater Elevation	Depth Field	**134**		Feet			1	NA	7/20/10 07:27
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/21/10 22:23
pH, Field	150.1	**5.63**		pH Units			1	NA	7/20/10 07:27
Solids, Total Dissolved	SM 2540 C	**51**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**23.3**		deg C			1	NA	7/20/10 07:27
Turbidity, Field	180.1	**1.90**		NTU			1	NA	7/20/10 07:27

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0759
Date Received: 7/21/10

Sample Name: MWB29I
Lab Code: J1003438-017

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.073**		mg/L	0.010	0.004	1	NA	7/26/10 14:31
Chloride	300.0	**5.22**		mg/L	0.50	0.09	1	NA	7/21/10 22:38
Conductivity, Field	120.1	**41**		µMHOS/cm			1	NA	7/20/10 07:58
Dissolved Oxygen, Field	360.1	**0.8**		ppm			1	NA	7/20/10 07:58
Groundwater Elevation	Depth Field	**134**		Feet			1	NA	7/20/10 07:58
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/21/10 22:38
pH, Field	150.1	**5.15**		pH Units			1	NA	7/20/10 07:58
Solids, Total Dissolved	SM 2540 C	**23**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**23.4**		deg C			1	NA	7/20/10 07:58
Turbidity, Field	180.1	**29.31**		NTU			1	NA	7/20/10 07:58

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0828
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB29S		
Lab Code:	J1003438-018	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.147**		mg/L	0.010	0.004	1	NA	7/26/10 14:32
Chloride	300.0	**9.31**		mg/L	0.50	0.09	1	NA	7/21/10 22:53
Conductivity, Field	120.1	**63**		µMHOS/cm			1	NA	7/20/10 08:27
Dissolved Oxygen, Field	360.1	**0.8**		ppm			1	NA	7/20/10 08:27
Groundwater Elevation	Depth Field	**131**		Feet			1	NA	7/20/10 08:27
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/21/10 22:53
pH, Field	150.1	**4.82**		pH Units			1	NA	7/20/10 08:27
Solids, Total Dissolved	SM 2540 C	**39**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**25.3**		deg C			1	NA	7/20/10 08:27
Turbidity, Field	180.1	**1.83**		NTU			1	NA	7/20/10 08:27

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0900
Date Received: 7/21/10

Sample Name: MWB2I
Lab Code: J1003438-019

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.035**		mg/L	0.010	0.004	1	NA	7/26/10 14:38
Chloride	300.0	**6.86**		mg/L	0.50	0.09	1	NA	7/21/10 23:53
Conductivity, Field	120.1	**42**		µMHOS/cm			1	NA	7/20/10 08:59
Dissolved Oxygen, Field	360.1	**0.5**		ppm			1	NA	7/20/10 08:59
Groundwater Elevation	Depth Field	**138**		Feet			1	NA	7/20/10 08:59
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/21/10 23:53
pH, Field	150.1	**4.95**		pH Units			1	NA	7/20/10 08:59
Solids, Total Dissolved	SM 2540 C	**21**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**23.7**		deg C			1	NA	7/20/10 08:59
Turbidity, Field	180.1	**1.75**		NTU			1	NA	7/20/10 08:59

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0929
Date Received: 7/21/10

Sample Name: MWB2S
Lab Code: J1003438-020

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.019**		mg/L	0.010	0.004	1	NA	7/26/10 14:39
Chloride	300.0	**1.75**		mg/L	0.50	0.09	1	NA	7/22/10 00:37
Conductivity, Field	120.1	**28**		µMHOS/cm			1	NA	7/20/10 09:28
Dissolved Oxygen, Field	360.1	**0.9**		ppm			1	NA	7/20/10 09:28
Groundwater Elevation	Depth Field	**140**		Feet			1	NA	7/20/10 09:28
Nitrate as Nitrogen	300.0	**0.18**	I	mg/L	0.20	0.07	1	NA	7/22/10 00:37
pH, Field	150.1	**4.73**		pH Units			1	NA	7/20/10 09:28
Solids, Total Dissolved	SM 2540 C	**48**		mg/L	10	10	1	NA	7/26/10 21:34
Temperature, Field	170.1	**27.5**		deg C			1	NA	7/20/10 09:28
Turbidity, Field	180.1	**95.31**		NTU			1	NA	7/20/10 09:28

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1620
Date Received: 7/21/10

Sample Name: MWB33S
Lab Code: J1003438-021

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**1.73**		mg/L	0.010	0.004	1	NA	7/26/10 14:39
Chloride	300.0	**18.0**		mg/L	0.50	0.09	1	NA	7/22/10 10:20
Conductivity, Field	120.1	**292**		µMHOS/cm			1	NA	7/20/10 16:19
Dissolved Oxygen, Field	360.1	**0.4**		ppm			1	NA	7/20/10 16:19
Groundwater Elevation	Depth Field	**116**		Feet			1	NA	7/20/10 16:19
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 10:20
pH, Field	150.1	**5.79**		pH Units			1	NA	7/20/10 16:19
Solids, Total Dissolved	SM 2540 C	**200**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**27.9**		deg C			1	NA	7/20/10 16:19
Turbidity, Field	180.1	**3.22**		NTU			1	NA	7/20/10 16:19

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0815
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB27S		
Lab Code:	J1003438-022	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.150**		mg/L	0.010	0.004	1	NA	7/26/10 14:40
Chloride	300.0	**8.51**		mg/L	0.50	0.09	1	NA	7/22/10 00:52
Conductivity, Field	120.1	**76**		µMHOS/cm			1	NA	7/20/10 08:14
Dissolved Oxygen, Field	360.1	**0.10**		ppm			1	NA	7/20/10 08:14
Groundwater Elevation	Depth Field	**122**		Feet			1	NA	7/20/10 08:14
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 00:52
pH, Field	150.1	**6.50**		pH Units			1	NA	7/20/10 08:14
Solids, Total Dissolved	SM 2540 C	**95**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**23.3**		deg C			1	NA	7/20/10 08:14
Turbidity, Field	180.1	**12.8**		NTU			1	NA	7/20/10 08:14

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0843
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB27I		
Lab Code:	J1003438-023	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.062**		mg/L	0.010	0.004	1	NA	7/26/10 14:41
Chloride	300.0	**4.86**		mg/L	0.50	0.09	1	NA	7/22/10 01:07
Conductivity, Field	120.1	**48**		µMHOS/cm			1	NA	7/20/10 08:42
Dissolved Oxygen, Field	360.1	**0.2**		ppm			1	NA	7/20/10 08:42
Groundwater Elevation	Depth Field	**124**		Feet			1	NA	7/20/10 08:42
Nitrate as Nitrogen	300.0	**0.18**	I	mg/L	0.20	0.07	1	NA	7/22/10 01:07
pH, Field	150.1	**5.61**		pH Units			1	NA	7/20/10 08:42
Solids, Total Dissolved	SM 2540 C	**42**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**24.1**		deg C			1	NA	7/20/10 08:42
Turbidity, Field	180.1	**0.65**		NTU			1	NA	7/20/10 08:42

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 0918
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB27D		
Lab Code:	J1003438-024	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.077**		mg/L	0.010	0.004	1	NA	7/26/10 14:42
Chloride	300.0	**5.29**		mg/L	0.50	0.09	1	NA	7/22/10 01:22
Conductivity, Field	120.1	**72**		µMHOS/cm			1	NA	7/20/10 09:17
Dissolved Oxygen, Field	360.1	**0.2**		ppm			1	NA	7/20/10 09:17
Groundwater Elevation	Depth Field	**124**		Feet			1	NA	7/20/10 09:17
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 01:22
pH, Field	150.1	**5.85**		pH Units			1	NA	7/20/10 09:17
Solids, Total Dissolved	SM 2540 C	**57**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**24.3**		deg C			1	NA	7/20/10 09:17
Turbidity, Field	180.1	**0.37**		NTU			1	NA	7/20/10 09:17

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 0918
Date Received: 7/21/10

Sample Name: DUP01
Lab Code: J1003438-025

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.078**		mg/L	0.010	0.004	1	NA	7/26/10 14:43
Chloride	300.0	**5.26**		mg/L	0.50	0.09	1	NA	7/22/10 01:37
Conductivity, Field	120.1	**72**		µMHOS/cm			1	NA	7/20/10 09:17
Dissolved Oxygen, Field	360.1	**0.2**		ppm			1	NA	7/20/10 09:17
Groundwater Elevation	Depth Field	**124**		Feet			1	NA	7/20/10 09:17
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 01:37
pH, Field	150.1	**5.85**		pH Units			1	NA	7/20/10 09:17
Solids, Total Dissolved	SM 2540 C	**55**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**24.3**		deg C			1	NA	7/20/10 09:17
Turbidity, Field	180.1	**0.37**		NTU			1	NA	7/20/10 09:17

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1004
Date Received: 7/21/10

Sample Name: MWB31D
Lab Code: J1003438-026

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.137**		mg/L	0.010	0.004	1	NA	7/26/10 14:44
Chloride	300.0	**4.80**		mg/L	0.50	0.09	1	NA	7/22/10 01:52
Conductivity, Field	120.1	**355**		µMHOS/cm			1	NA	7/20/10 10:03
Dissolved Oxygen, Field	360.1	**0.1**		ppm			1	NA	7/20/10 10:03
Groundwater Elevation	Depth Field	**140**		Feet			1	NA	7/20/10 10:03
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 01:52
pH, Field	150.1	**6.71**		pH Units			1	NA	7/20/10 10:03
Solids, Total Dissolved	SM 2540 C	**213**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**24.0**		deg C			1	NA	7/20/10 10:03
Turbidity, Field	180.1	**1.11**		NTU			1	NA	7/20/10 10:03

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1042
Date Received: 7/21/10

Sample Name: MWB17S
Lab Code: J1003438-027

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.193**		mg/L	0.010	0.004	1	NA	7/26/10 14:45
Chloride	300.0	**5.98**		mg/L	0.50	0.09	1	NA	7/22/10 02:07
Conductivity, Field	120.1	**80**		µMHOS/cm			1	NA	7/20/10 10:41
Dissolved Oxygen, Field	360.1	**1.7**		ppm			1	NA	7/20/10 10:41
Groundwater Elevation	Depth Field	**133**		Feet			1	NA	7/20/10 10:41
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 02:07
pH, Field	150.1	**5.60**		pH Units			1	NA	7/20/10 10:41
Solids, Total Dissolved	SM 2540 C	**50**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**26.8**		deg C			1	NA	7/20/10 10:41
Turbidity, Field	180.1	**9.56**		NTU			1	NA	7/20/10 10:41

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1115
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB17D		
Lab Code:	J1003438-028	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.042**		mg/L	0.010	0.004	1	NA	7/26/10 14:49
Chloride	300.0	**5.78**		mg/L	0.50	0.09	1	NA	7/22/10 04:22
Conductivity, Field	120.1	**50**		µMHOS/cm			1	NA	7/20/10 11:14
Dissolved Oxygen, Field	360.1	**0.1**		ppm			1	NA	7/20/10 11:14
Groundwater Elevation	Depth Field	**132**		Feet			1	NA	7/20/10 11:14
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 04:22
pH, Field	150.1	**5.55**		pH Units			1	NA	7/20/10 11:14
Solids, Total Dissolved	SM 2540 C	**41**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**26.9**		deg C			1	NA	7/20/10 11:14
Turbidity, Field	180.1	**0.31**		NTU			1	NA	7/20/10 11:14

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1149
Date Received: 7/21/10

Sample Name: MWB17I
Lab Code: J1003438-029

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.025**		mg/L	0.010	0.004	1	NA	7/26/10 14:52
Chloride	300.0	**4.35**		mg/L	0.50	0.09	1	NA	7/22/10 04:36
Conductivity, Field	120.1	**27**		µMHOS/cm			1	NA	7/20/10 11:48
Dissolved Oxygen, Field	360.1	**0.1**		ppm			1	NA	7/20/10 11:48
Groundwater Elevation	Depth Field	**136**		Feet			1	NA	7/20/10 11:48
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 04:36
pH, Field	150.1	**5.11**		pH Units			1	NA	7/20/10 11:48
Solids, Total Dissolved	SM 2540 C	**21**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**26.9**		deg C			1	NA	7/20/10 11:48
Turbidity, Field	180.1	**0.81**		NTU			1	NA	7/20/10 11:48

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1232
Date Received: 7/21/10

Sample Name: MWB7S
Lab Code: J1003438-030

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.392**		mg/L	0.010	0.004	1	NA	7/26/10 14:54
Chloride	300.0	**18.0**		mg/L	0.50	0.09	1	NA	7/22/10 04:51
Conductivity, Field	120.1	**158**		µMHOS/cm			1	NA	7/20/10 12:31
Dissolved Oxygen, Field	360.1	**0.0**		ppm			1	NA	7/20/10 12:31
Groundwater Elevation	Depth Field	**116**		Feet			1	NA	7/20/10 12:31
Nitrate as Nitrogen	300.0	**0.27**		mg/L	0.20	0.07	1	NA	7/22/10 04:51
pH, Field	150.1	**5.29**		pH Units			1	NA	7/20/10 12:31
Solids, Total Dissolved	SM 2540 C	**121**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**27.7**		deg C			1	NA	7/20/10 12:31
Turbidity, Field	180.1	**14.0**		NTU			1	NA	7/20/10 12:31

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10 1520
Date Received: 7/21/10

Sample Name: MWB12S
Lab Code: J1003438-031

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.030**		mg/L	0.010	0.004	1	NA	7/26/10 14:55
Chloride	300.0	**7.34**		mg/L	0.50	0.09	1	NA	7/22/10 07:21
Conductivity, Field	120.1	**208**		µMHOS/cm			1	NA	7/20/10 15:19
Dissolved Oxygen, Field	360.1	**0.6**		ppm			1	NA	7/20/10 15:19
Groundwater Elevation	Depth Field	**115**		Feet			1	NA	7/20/10 15:19
Nitrate as Nitrogen	300.0	**4.49**		mg/L	0.20	0.07	1	NA	7/22/10 07:21
pH, Field	150.1	**5.74**		pH Units			1	NA	7/20/10 15:19
Solids, Total Dissolved	SM 2540 C	**146**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**27.2**		deg C			1	NA	7/20/10 15:19
Turbidity, Field	180.1	**14.71**		NTU			1	NA	7/20/10 15:19

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10 1602
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB13I		
Lab Code:	J1003438-032	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.048**		mg/L	0.010	0.004	1	NA	7/26/10 14:56
Chloride	300.0	**4.83**		mg/L	0.50	0.09	1	NA	7/22/10 10:05
Conductivity, Field	120.1	**38**		µMHOS/cm			1	NA	7/20/10 16:01
Dissolved Oxygen, Field	360.1	**0.3**		ppm			1	NA	7/20/10 16:01
Groundwater Elevation	Depth Field	**108**		Feet			1	NA	7/20/10 16:01
Nitrate as Nitrogen	300.0	**0.18**	I	mg/L	0.20	0.07	1	NA	7/22/10 10:05
pH, Field	150.1	**5.32**		pH Units			1	NA	7/20/10 16:01
Solids, Total Dissolved	SM 2540 C	**35**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**25.9**		deg C			1	NA	7/20/10 16:01
Turbidity, Field	180.1	**4.46**		NTU			1	NA	7/20/10 16:01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 0909
Date Received: 7/21/10

Sample Name: MWB13S
Lab Code: J1003438-033

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.004	1	NA	7/26/10 14:57
Chloride	300.0	**31.3**		mg/L	0.50	0.09	1	NA	7/22/10 10:35
Conductivity, Field	120.1	**312**		µMHOS/cm			1	NA	7/21/10 09:08
Dissolved Oxygen, Field	360.1	**1.0**		ppm			1	NA	7/21/10 09:08
Groundwater Elevation	Depth Field	**113**		Feet			1	NA	7/21/10 09:08
Nitrate as Nitrogen	300.0	**0.78**		mg/L	0.20	0.07	1	NA	7/22/10 10:35
pH, Field	150.1	**5.62**		pH Units			1	NA	7/21/10 09:08
Solids, Total Dissolved	SM 2540 C	**188**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**25.9**		deg C			1	NA	7/21/10 09:08
Turbidity, Field	180.1	**19.32**		NTU			1	NA	7/21/10 09:08

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1109
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB32S		
Lab Code:	J1003438-034	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.232**		mg/L	0.010	0.004	1	NA	7/26/10 15:01
Chloride	300.0	**28.7**		mg/L	0.50	0.09	1	NA	7/22/10 10:50
Conductivity, Field	120.1	**455**		µMHOS/cm			1	NA	7/21/10 11:08
Dissolved Oxygen, Field	360.1	**0.1**		ppm			1	NA	7/21/10 11:08
Groundwater Elevation	Depth Field	**117**		Feet			1	NA	7/21/10 11:08
Nitrate as Nitrogen	300.0	**0.65**		mg/L	0.20	0.07	1	NA	7/22/10 10:50
pH, Field	150.1	**6.13**		pH Units			1	NA	7/21/10 11:08
Solids, Total Dissolved	SM 2540 C	**345**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**25.7**		deg C			1	NA	7/21/10 11:08
Turbidity, Field	180.1	**13.3**		NTU			1	NA	7/21/10 11:08

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1219
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB32I		
Lab Code:	J1003438-035	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.042**		mg/L	0.010	0.004	1	NA	7/26/10 15:02
Chloride	300.0	**4.79**		mg/L	0.50	0.09	1	NA	7/22/10 12:05
Conductivity, Field	120.1	**38**		µMHOS/cm			1	NA	7/21/10 12:18
Dissolved Oxygen, Field	360.1	**0.3**		ppm			1	NA	7/21/10 12:18
Groundwater Elevation	Depth Field	**118**		Feet			1	NA	7/21/10 12:18
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 12:05
pH, Field	150.1	**5.45**		pH Units			1	NA	7/21/10 12:18
Solids, Total Dissolved	SM 2540 C	**30**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**25.2**		deg C			1	NA	7/21/10 12:18
Turbidity, Field	180.1	**12.1**		NTU			1	NA	7/21/10 12:18

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1243
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB32D		
Lab Code:	J1003438-036	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.079**		mg/L	0.010	0.004	1	NA	7/26/10 15:03
Chloride	300.0	**5.14**		mg/L	0.50	0.09	1	NA	7/22/10 12:20
Conductivity, Field	120.1	**70**		µMHOS/cm			1	NA	7/21/10 10:42
Dissolved Oxygen, Field	360.1	**1.5**		ppm			1	NA	7/21/10 10:42
Groundwater Elevation	Depth Field	**118**		Feet			1	NA	7/21/10 10:42
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 12:20
pH, Field	150.1	**5.75**		pH Units			1	NA	7/21/10 10:42
Solids, Total Dissolved	SM 2540 C	**51**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**26.5**		deg C			1	NA	7/21/10 10:42
Turbidity, Field	180.1	**1.41**		NTU			1	NA	7/21/10 10:42

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 0959
Date Received: 7/21/10

Sample Name: MWB34S
Lab Code: J1003438-037

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**2.02**		mg/L	0.010	0.004	1	NA	7/26/10 15:04
Chloride	300.0	**40.0**		mg/L	0.50	0.09	1	NA	7/22/10 12:35
Conductivity, Field	120.1	**950**		µMHOS/cm			1	NA	7/21/10 09:58
Dissolved Oxygen, Field	360.1	**0.1**		ppm			1	NA	7/21/10 09:58
Groundwater Elevation	Depth Field	**117**		Feet			1	NA	7/21/10 09:58
Nitrate as Nitrogen	300.0	**0.19**	I	mg/L	0.20	0.07	1	NA	7/22/10 12:35
pH, Field	150.1	**6.14**		pH Units			1	NA	7/21/10 09:58
Solids, Total Dissolved	SM 2540 C	**659**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**26.9**		deg C			1	NA	7/21/10 09:58
Turbidity, Field	180.1	**0.33**		NTU			1	NA	7/21/10 09:58

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1228
Date Received: 7/21/10

Sample Name: MWB34I
Lab Code: J1003438-038

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.053**		mg/L	0.010	0.004	1	NA	7/26/10 15:05
Chloride	300.0	**4.98**		mg/L	0.50	0.09	1	NA	7/22/10 12:50
Conductivity, Field	120.1	**46**		µMHOS/cm			1	NA	7/21/10 12:27
Dissolved Oxygen, Field	360.1	**0.4**		ppm			1	NA	7/21/10 12:27
Groundwater Elevation	Depth Field	**117**		Feet			1	NA	7/21/10 12:27
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 12:50
pH, Field	150.1	**5.44**		pH Units			1	NA	7/21/10 12:27
Solids, Total Dissolved	SM 2540 C	**36**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**27.2**		deg C			1	NA	7/21/10 12:27
Turbidity, Field	180.1	**4.89**		NTU			1	NA	7/21/10 12:27

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 0924
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	MWB34D		
Lab Code:	J1003438-039	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.179**		mg/L	0.010	0.004	1	NA	7/26/10 15:06
Chloride	300.0	**4.42**		mg/L	0.50	0.09	1	NA	7/22/10 13:05
Conductivity, Field	120.1	**421**		µMHOS/cm			1	NA	7/21/10 09:23
Dissolved Oxygen, Field	360.1	**0.1**		ppm			1	NA	7/21/10 09:23
Groundwater Elevation	Depth Field	**117**		Feet			1	NA	7/21/10 09:23
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 13:05
pH, Field	150.1	**7.06**		pH Units			1	NA	7/21/10 09:23
Solids, Total Dissolved	SM 2540 C	**247**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**25.5**		deg C			1	NA	7/21/10 09:23
Turbidity, Field	180.1	**0.32**		NTU			1	NA	7/21/10 09:23

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1219
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	DUP03		
Lab Code:	J1003438-040	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.049**		mg/L	0.010	0.004	1	NA	7/26/10 15:07
Chloride	300.0	**4.80**		mg/L	0.50	0.09	1	NA	7/22/10 13:19
Conductivity, Field	120.1	**38**		µMHOS/cm			1	NA	7/21/10 12:18
Dissolved Oxygen, Field	360.1	**0.3**		ppm			1	NA	7/21/10 12:18
Groundwater Elevation	Depth Field	**118**		Feet			1	NA	7/21/10 12:18
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 13:19
pH, Field	150.1	**5.45**		pH Units			1	NA	7/21/10 12:18
Solids, Total Dissolved	SM 2540 C	**32**		mg/L	10	10	1	NA	7/26/10 21:35
Temperature, Field	170.1	**25.2**		deg C			1	NA	7/21/10 12:18
Turbidity, Field	180.1	**12.1**		NTU			1	NA	7/21/10 12:18

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10 1228
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	DUP04		
Lab Code:	J1003438-041	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.057**		mg/L	0.010	0.004	1	NA	7/26/10 15:09
Chloride	300.0	**4.98**		mg/L	0.50	0.09	1	NA	7/22/10 13:34
Conductivity, Field	120.1	**46**		µMHOS/cm			1	NA	7/21/10 12:27
Dissolved Oxygen, Field	360.1	**0.4**		ppm			1	NA	7/21/10 12:27
Groundwater Elevation	Depth Field	**117**		Feet			1	NA	7/21/10 12:27
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 13:34
pH, Field	150.1	**5.44**		pH Units			1	NA	7/21/10 12:27
Solids, Total Dissolved	SM 2540 C	**35**		mg/L	10	10	1	NA	7/27/10 15:47
Temperature, Field	170.1	**27.2**		deg C			1	NA	7/21/10 12:27
Turbidity, Field	180.1	**4.89**		NTU			1	NA	7/21/10 12:27

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10 1253
Date Received: 7/21/10

Sample Name: FB
Lab Code: J1003438-042

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.01**	I	mg/L	0.010	0.004	1	NA	7/26/10 15:14
Chloride	300.0	ND	U	mg/L	0.50	0.09	1	NA	7/22/10 14:47
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 14:47
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	7/27/10 15:47

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1003438-MB1

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	**0.005**	I	mg/L	0.010	0.004	1	NA	7/26/10 13:38
Chloride	300.0	ND	U	mg/L	0.50	0.09	1	NA	7/21/10 15:36
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/21/10 15:36
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	7/26/10 21:34

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1003438-MB2

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.004	1	NA	7/26/10 16:39
Chloride	300.0	ND	U	mg/L	0.50	0.09	1	NA	7/22/10 06:51
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 06:51
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	7/26/10 21:35

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J1003438-MB3	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.004	1	NA	7/26/10 16:40
Chloride	300.0	ND	U	mg/L	0.50	0.09	1	NA	7/22/10 13:49
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 13:49
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	7/27/10 15:47

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: Percent

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MWB3S	J1003438-001	94	109	96	96
MWB3I	J1003438-002	98	102	96	99
MWB19D	J1003438-003	96	100	98	102
MWB19I	J1003438-004	98	102	94	101
MWB19S	J1003438-005	99	104	100	95
MWB20S	J1003438-006	99	106	97	102
MWB11S	J1003438-007	98	106	96	99
MWB11I(R)	J1003438-008	98	104	99	98
MWB12D	J1003438-009	94	104	95	99
MWB12I	J1003438-010	98	103	98	100
MWB7I	J1003438-011	98	101	95	101
MWB7D	J1003438-012	100	102	101	98
MWB21S	J1003438-013	98	104	98	98
MWB22S	J1003438-014	97	103	94	99
DUP02	J1003438-015	98	109	97	99
MWB29D	J1003438-016	95	108	95	97
MWB29I	J1003438-017	93	99	93	97
MWB29S	J1003438-018	95	105	93	97
MWB2I	J1003438-019	96	101	98	97
MWB2S	J1003438-020	96	105	98	99
MWB33S	J1003438-021	99	105	98	104
MWB27S	J1003438-022	99	107	97	97
MWB27I	J1003438-023	99	105	98	97
MWB27D	J1003438-024	99	105	97	101
DUP01	J1003438-025	97	104	98	95
MWB31D	J1003438-026	96	105	96	98
MWB17S	J1003438-027	104	105	103	103
MWB17D	J1003438-028	99	105	99	98
MWB17I	J1003438-029	92	102	94	99
MWB7S	J1003438-030	95	104	95	96
MWB12S	J1003438-031	99	106	96	100
MWB13I	J1003438-032	96	107	95	103
MWB13S	J1003438-033	97	107	97	96
MWB32S	J1003438-034	97	107	97	97
MWB32I	J1003438-035	100	107	99	104

Surrogate Recovery Control Limits (%)

Sur1	=	1,2-Dichloroethane-d4	71 - 122
Sur2	=	4-Bromofluorobenzene	75 - 120
Sur3	=	Dibromofluoromethane	82 - 116
Sur4	=	Toluene-d8	88 - 117

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

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

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: Percent

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MWB32D	J1003438-036	100	103	97	97
MWB34S	J1003438-037	98	108	97	96
MWB34I	J1003438-038	98	110	96	93
MWB34D	J1003438-039	100	113	100	102
DUP03	J1003438-040	95	103	95	94
DUP04	J1003438-041	102	109	102	105
FB	J1003438-042	96	105	93	97
Trip Blank	J1003438-043	99	107	97	94
Method Blank	JQ1002990-02	100	102	95	99
Method Blank	JQ1003037-02	93	104	95	101
Method Blank	JQ1003038-02	96	107	96	96
Method Blank	JQ1003076-02	106	103	103	106
Lab Control Sample	JQ1002990-01	102	104	95	101
Lab Control Sample	JQ1003037-01	99	96	97	95
Lab Control Sample	JQ1003038-01	95	99	96	97
Lab Control Sample	JQ1003076-01	111	95	107	104
MWB22SMS	JQ1002990-03	97	99	97	98
MWB22SDMS	JQ1002990-04	96	101	97	96
MWB17DMS	JQ1003037-03	97	101	94	93
MWB17DDMS	JQ1003037-04	102	101	95	100
MWB17IMS	JQ1003038-03	94	100	97	94
MWB17IDMS	JQ1003038-04	95	103	95	98

Surrogate Recovery Control Limits (%)

Sur1	=	1,2-Dichloroethane-d4	71 - 122
Sur2	=	4-Bromofluorobenzene	75 - 120
Sur3	=	Dibromofluoromethane	82 - 116
Sur4	=	Toluene-d8	88 - 117

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/27/10

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MWB22S
Lab Code: J1003438-014

Units: µg/L
Basis: NA

Analytical Method: 8260B

		MWB22SMS Matrix Spike JQ1002990-03			MWB22SDMS Duplicate Matrix Spike JQ1002990-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	20.0	20.0	100	20.6	20.0	103	82 - 118	3	30
1,1,1-Trichloroethane (TCA)	ND	19.3	20.0	96	20.3	20.0	102	76 - 130	5	30
1,1,2,2-Tetrachloroethane	ND	19.1	20.0	96	19.8	20.0	99	72 - 127	4	30
1,1,2-Trichloroethane	ND	20.7	20.0	103	20.4	20.0	102	77 - 124	1	30
1,1-Dichloroethane (1,1-DCA)	ND	19.7	20.0	99	19.5	20.0	97	78 - 125	1	30
1,1-Dichloroethene (1,1-DCE)	ND	20.0	20.0	100	19.9	20.0	100	79 - 133	0	30
1,2,3-Trichloropropane	ND	19.3	20.0	97	19.6	20.0	98	76 - 123	2	30
1,2-Dibromo-3-chloropropane (DBC	ND	16.8	20.0	84	17.4	20.0	87	54 - 120	4	30.
1,2-Dibromoethane (EDB)	ND	18.8	20.0	94	19.4	20.0	97	81 - 119	3	30
1,2-Dichlorobenzene	ND	18.7	20.0	94	19.3	20.0	96	77 - 116	3	30
1,2-Dichloroethane	ND	20.9	20.0	105	19.6	20.0	98	74 - 126	7	30
1,2-Dichloropropane	ND	20.6	20.0	103	20.1	20.0	101	77 - 122	3	30
1,4-Dichlorobenzene	ND	18.3	20.0	92	19.7	20.0	99	75 - 115	7	30
2-Butanone (MEK)	ND	94.3	100	94	96.9	100	97	63 - 134	3	30
2-Hexanone	ND	97.7	100	98	96.9	100	97	63 - 142	1	30
4-Methyl-2-pentanone (MIBK)	ND	100	100	100	97.5	100	97	65 - 138	3	30
Acetone	ND	77.4	100	77	77.5	100	77	56 - 139	0	30
Acrylonitrile	ND	101	100	101	98.8	100	99	68 - 131	2	30
Benzene	ND	19.8	20.0	99	19.2	20.0	96	78 - 123	3	30
Bromochloromethane	ND	18.8	20.0	94	20.0	20.0	100	80 - 124	6	30
Bromodichloromethane	ND	19.4	20.0	97	19.4	20.0	97	79 - 125	0	30
Bromoform	ND	18.0	20.0	90	17.3	20.0	86	70 - 129	4	30
Bromomethane	ND	19.0	20.0	95	19.3	20.0	97	78 - 129	2	30
Carbon Disulfide	ND	98.6	100	99	100	100	100	71 - 146	2	30
Carbon Tetrachloride	ND	18.2	20.0	91	17.8	20.0	89	76 - 131	2	30
Chlorobenzene	ND	19.8	20.0	99	20.3	20.0	102	81 - 120	2	30
Chloroethane	ND	18.2	20.0	91	19.2	20.0	96	76 - 129	5	30

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/27/10

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MWB22S
Lab Code: J1003438-014

Units: µg/L
Basis: NA

Analytical Method: 8260B

		MWB22SMS Matrix Spike JQ1002990-03			MWB22SDMS Duplicate Matrix Spike JQ1002990-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chloroform	ND	19.4	20.0	97	20.1	20.0	100	81 - 124	4	30
Chloromethane	ND	20.4	20.0	102	20.6	20.0	103	73 - 139	1	30
cis-1,2-Dichloroethene	ND	19.8	20.0	99	19.5	20.0	97	75 - 127	1	30
cis-1,3-Dichloropropene	ND	19.2	20.0	96	18.6	20.0	93	77 - 117	3	30
Dibromochloromethane	ND	20.0	20.0	100	19.6	20.0	98	78 - 124	2	30
Dibromomethane	ND	19.9	20.0	99	20.1	20.0	101	78 - 124	1	30
Ethylbenzene	ND	20.0	20.0	100	19.4	20.0	97	87 - 122	3	30
Iodomethane	ND	96.5	100	96	97.0	100	97	74 - 134	1	30
m,p-Xylenes	ND	41.0	40.0	103	40.8	40.0	102	82 - 120	1	30
Methylene Chloride	ND	17.9	20.0	90	19.2	20.0	96	75 - 123	7	30
o-Xylene	ND	20.1	20.0	100	20.1	20.0	101	85 - 119	0	30
Styrene	ND	19.8	20.0	99	19.7	20.0	98	84 - 126	1	30
Tetrachloroethene (PCE)	ND	19.4	20.0	97	19.5	20.0	97	79 - 123	0	30
Toluene	ND	20.5	20.0	103	20.3	20.0	101	86 - 119	1	30
trans-1,2-Dichloroethene	ND	19.1	20.0	96	19.5	20.0	98	76 - 125	2	30
trans-1,3-Dichloropropene	ND	18.3	20.0	92	17.9	20.0	89	75 - 120	2	30
trans-1,4-Dichloro-2-butene	ND	8.64	20.0	43	15.5	20.0	78	22 - 135	57 *	30
Trichloroethene (TCE)	ND	20.7	20.0	103	20.4	20.0	102	77 - 128	1	30
Trichlorofluoromethane	ND	18.8	20.0	94	19.5	20.0	98	81 - 133	4	30
Vinyl Acetate	ND	72.0	100	72	72.3	100	72	43 - 163	0	30
Vinyl Chloride	ND	20.3	20.0	101	20.3	20.0	101	78 - 141	0	30

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/27/10

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MWB17D
Lab Code: J1003438-028

Units: µg/L
Basis: NA

Analytical Method: 8260B

		MWB17DMS Matrix Spike JQ1003037-03			MWB17DDMS Duplicate Matrix Spike JQ1003037-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	19.0	20.0	95	18.6	20.0	93	82 - 118	2	30
1,1,1-Trichloroethane (TCA)	ND	19.4	20.0	97	18.1	20.0	90	76 - 130	7	30
1,1,2,2-Tetrachloroethane	ND	18.4	20.0	92	19.3	20.0	96	72 - 127	5	30
1,1,2-Trichloroethane	ND	18.8	20.0	94	19.5	20.0	98	77 - 124	4	30
1,1-Dichloroethane (1,1-DCA)	ND	19.2	20.0	96	17.6	20.0	88	78 - 125	9	30
1,1-Dichloroethene (1,1-DCE)	ND	19.7	20.0	99	18.0	20.0	90	79 - 133	9	30
1,2,3-Trichloropropane	ND	18.3	20.0	92	18.8	20.0	94	76 - 123	3	30
1,2-Dibromo-3-chloropropane (DBC	ND	16.7	20.0	84	17.4	20.0	87	54 - 120	4	30
1,2-Dibromoethane (EDB)	ND	19.6	20.0	98	19.2	20.0	96	81 - 119	2	30
1,2-Dichlorobenzene	ND	18.7	20.0	94	17.4	20.0	87	77 - 116	7	30
1,2-Dichloroethane	ND	19.1	20.0	95	19.0	20.0	95	74 - 126	0	30
1,2-Dichloropropane	ND	19.8	20.0	99	18.4	20.0	92	77 - 122	8	30
1,4-Dichlorobenzene	ND	18.1	20.0	90	18.1	20.0	91	75 - 115	0	30
2-Butanone (MEK)	ND	105	100	105	101	100	101	63 - 134	3	30
2-Hexanone	ND	96.7	100	97	98.8	100	99	63 - 142	2	30
4-Methyl-2-pentanone (MIBK)	ND	98.3	100	98	101	100	101	65 - 138	3	30
Acetone	ND	125	100	125	116	100	116	56 - 139	8	30
Acrylonitrile	ND	101	100	101	97.7	100	98	68 - 131	3	30
Benzene	ND	19.5	20.0	97	18.0	20.0	90	78 - 123	8	30
Bromochloromethane	ND	19.2	20.0	96	17.9	20.0	90	80 - 124	7	30
Bromodichloromethane	ND	19.5	20.0	98	18.4	20.0	92	79 - 125	6	30
Bromoform	ND	18.1	20.0	90	18.1	20.0	91	70 - 129	0	30
Bromomethane	ND	18.4	20.0	92	17.1	20.0	86	78 - 129	7	30
Carbon Disulfide	ND	96.8	100	97	91.0	100	91	71 - 146	6	30
Carbon Tetrachloride	ND	18.1	20.0	90	16.9	20.0	84	76 - 131	7	30
Chlorobenzene	ND	19.5	20.0	97	18.6	20.0	93	81 - 120	4	30
Chloroethane	ND	16.5	20.0	83	17.3	20.0	86	76 - 129	5	30

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/27/10

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MWB17D
Lab Code: J1003438-028

Units: µg/L
Basis: NA

Analytical Method: 8260B

		MWB17DMS Matrix Spike JQ1003037-03			MWB17DDMS Duplicate Matrix Spike JQ1003037-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chloroform	ND	19.2	20.0	96	18.1	20.0	90	81 - 124	6	30
Chloromethane	ND	18.1	20.0	91	17.0	20.0	85	73 - 139	6	30
cis-1,2-Dichloroethene	ND	18.6	20.0	93	18.1	20.0	90	75 - 127	3	30
cis-1,3-Dichloropropene	ND	18.6	20.0	93	18.5	20.0	93	77 - 117	0	30
Dibromochloromethane	ND	19.2	20.0	96	18.9	20.0	95	78 - 124	2	30
Dibromomethane	ND	20.0	20.0	100	19.2	20.0	96	78 - 124	4	30
Ethylbenzene	ND	19.3	20.0	97	18.8	20.0	94	87 - 122	3	30
Iodomethane	ND	94.6	100	95	88.2	100	88	74 - 134	7	30
m,p-Xylenes	ND	40.3	40.0	101	38.5	40.0	96	82 - 120	4	30
Methylene Chloride	ND	18.4	20.0	92	17.7	20.0	88	75 - 123	4	30
o-Xylene	ND	19.5	20.0	97	19.4	20.0	97	85 - 119	0	30
Styrene	ND	18.7	20.0	93	19.1	20.0	95	84 - 126	2	30
Tetrachloroethene (PCE)	ND	19.1	20.0	96	18.6	20.0	93	79 - 123	3	30
Toluene	ND	19.5	20.0	97	19.2	20.0	96	86 - 119	1	30
trans-1,2-Dichloroethene	ND	18.9	20.0	94	17.8	20.0	89	76 - 125	6	30
trans-1,3-Dichloropropene	ND	18.3	20.0	92	18.9	20.0	94	75 - 120	3	30
trans-1,4-Dichloro-2-butene	ND	13.5	20.0	68	19.5	20.0	97	22 - 135	36 *	30
Trichloroethene (TCE)	ND	19.4	20.0	97	18.3	20.0	91	77 - 128	6	30
Trichlorofluoromethane	ND	18.7	20.0	94	17.3	20.0	87	81 - 133	8	30
Vinyl Acetate	ND	96.8	100	97	94.0	100	94	43 - 163	3	30
Vinyl Chloride	ND	19.3	20.0	96	17.5	20.0	88	78 - 141	9	30

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/28/10

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MWB17I
Lab Code: J1003438-029

Units: µg/L
Basis: NA

Analytical Method: 8260B

		MWB17IMS Matrix Spike JQ1003038-03			MWB17IDMS Duplicate Matrix Spike JQ1003038-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	18.1	20.0	91	16.7	20.0	83	82 - 118	8	30
1,1,1-Trichloroethane (TCA)	ND	18.5	20.0	93	15.9	20.0	80	76 - 130	15	30
1,1,2,2-Tetrachloroethane	ND	18.6	20.0	93	17.9	20.0	90	72 - 127	4	30
1,1,2-Trichloroethane	ND	18.3	20.0	92	17.7	20.0	89	77 - 124	3	30
1,1-Dichloroethane (1,1-DCA)	ND	18.6	20.0	93	16.7	20.0	83	78 - 125	11	30
1,1-Dichloroethene (1,1-DCE)	ND	18.9	20.0	95	16.4	20.0	82	79 - 133	14	30
1,2,3-Trichloropropane	ND	17.5	20.0	87	17.7	20.0	88	76 - 123	1	30
1,2-Dibromo-3-chloropropane (DBC	ND	15.9	20.0	80	16.5	20.0	82	54 - 120	4	30.
1,2-Dibromoethane (EDB)	ND	18.2	20.0	91	17.5	20.0	87	81 - 119	4	30
1,2-Dichlorobenzene	ND	18.1	20.0	90	16.1	20.0	81	77 - 116	12	30
1,2-Dichloroethane	ND	17.5	20.0	87	16.6	20.0	83	74 - 126	5	30
1,2-Dichloropropane	ND	19.2	20.0	96	17.2	20.0	86	77 - 122	11	30
1,4-Dichlorobenzene	ND	17.2	20.0	86	15.4	20.0	77	75 - 115	11	30
2-Butanone (MEK)	ND	88.1	100	88	95.0	100	95	63 - 134	8	30
2-Hexanone	ND	91.9	100	92	91.9	100	92	63 - 142	0	30
4-Methyl-2-pentanone (MIBK)	ND	95.3	100	95	94.1	100	94	65 - 138	1	30
Acetone	ND	75.0	100	75	77.3	100	77	56 - 139	3	30
Acrylonitrile	ND	98.5	100	99	89.9	100	90	68 - 131	9	30
Benzene	ND	18.4	20.0	92	17.1	20.0	86	78 - 123	7	30
Bromochloromethane	ND	17.8	20.0	89	16.7	20.0	83	80 - 124	6	30
Bromodichloromethane	ND	18.2	20.0	91	16.3	20.0	82	79 - 125	11	30
Bromoform	ND	16.3	20.0	81	15.3	20.0	77	70 - 129	6	30
Bromomethane	ND	17.8	20.0	89	15.2	20.0	76	* 78 - 129	16	30
Carbon Disulfide	ND	96.1	100	96	83.5	100	83	71 - 146	14	30
Carbon Tetrachloride	ND	16.9	20.0	85	15.2	20.0	76	76 - 131	11	30
Chlorobenzene	ND	18.5	20.0	93	16.8	20.0	84	81 - 120	10	30
Chloroethane	ND	17.6	20.0	88	15.9	20.0	79	76 - 129	11	30

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/28/10

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MWB17I
Lab Code: J1003438-029

Units: µg/L
Basis: NA

Analytical Method: 8260B

		MWB17IMS Matrix Spike JQ1003038-03			MWB17IDMS Duplicate Matrix Spike JQ1003038-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chloroform	ND	18.5	20.0	93	16.5	20.0	83	81 - 124	11	30
Chloromethane	ND	18.0	20.0	90	15.6	20.0	78	73 - 139	14	30
cis-1,2-Dichloroethene	ND	18.2	20.0	91	16.3	20.0	81	75 - 127	11	30
cis-1,3-Dichloropropene	ND	16.9	20.0	85	16.0	20.0	80	77 - 117	6	30
Dibromochloromethane	ND	18.0	20.0	90	17.1	20.0	86	78 - 124	5	30
Dibromomethane	ND	18.9	20.0	95	17.7	20.0	88	78 - 124	7	30
Ethylbenzene	ND	18.0	20.0	90	16.9	20.0	84	* 87 - 122	6	30
Iodomethane	ND	92.5	100	93	81.5	100	82	74 - 134	13	30
m,p-Xylenes	ND	37.9	40.0	95	34.3	40.0	86	82 - 120	10	30
Methylene Chloride	ND	18.7	20.0	93	16.8	20.0	84	75 - 123	11	30
o-Xylene	ND	19.3	20.0	97	16.8	20.0	84	* 85 - 119	14	30
Styrene	ND	17.7	20.0	88	15.7	20.0	78	* 84 - 126	12	30
Tetrachloroethene (PCE)	ND	17.5	20.0	88	16.3	20.0	81	79 - 123	7	30
Toluene	ND	18.5	20.0	92	17.3	20.0	86	86 - 119	7	30
trans-1,2-Dichloroethene	ND	18.2	20.0	91	16.0	20.0	80	76 - 125	13	30
trans-1,3-Dichloropropene	ND	15.9	20.0	79	14.8	20.0	74	* 75 - 120	7	30
trans-1,4-Dichloro-2-butene	ND	16.4	20.0	82	16.0	20.0	80	22 - 135	2	30
Trichloroethene (TCE)	ND	18.6	20.0	93	16.8	20.0	84	77 - 128	10	30
Trichlorofluoromethane	ND	17.9	20.0	90	15.4	20.0	77	* 81 - 133	15	30
Vinyl Acetate	ND	71.2	100	71	66.4	100	66	43 - 163	7	30
Vinyl Chloride	ND	18.6	20.0	93	16.7	20.0	83	78 - 141	11	30

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/26/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210096

Lab Control Sample
JQ1002990-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	**19.0**	20.0	95	85 - 117
1,1,1-Trichloroethane (TCA)	**17.7**	20.0	88	79 - 124
1,1,2,2-Tetrachloroethane	**18.8**	20.0	94	83 - 120
1,1,2-Trichloroethane	**19.1**	20.0	96	86 - 114
1,1-Dichloroethane (1,1-DCA)	**17.4**	20.0	87	80 - 128
1,1-Dichloroethene (1,1-DCE)	**18.0**	20.0	90	78 - 130
1,2,3-Trichloropropane	**19.4**	20.0	97	83 - 123
1,2-Dibromo-3-chloropropane (DBCP)	**16.9**	20.0	84	62 - 123
1,2-Dibromoethane (EDB)	**19.1**	20.0	96	88 - 117
1,2-Dichlorobenzene	**18.5**	20.0	92	84 - 115
1,2-Dichloroethane	**19.9**	20.0	99	80 - 124
1,2-Dichloropropane	**18.6**	20.0	93	79 - 123
1,4-Dichlorobenzene	**18.5**	20.0	93	83 - 113
2-Butanone (MEK)	**92.9**	100	93	73 - 127
2-Hexanone	**94.2**	100	94	71 - 138
4-Methyl-2-pentanone (MIBK)	**97.6**	100	98	72 - 136
Acetone	**114**	100	114	67 - 133
Acrylonitrile	**94.4**	100	94	77 - 127
Benzene	**18.3**	20.0	92	79 - 119
Bromochloromethane	**18.5**	20.0	92	79 - 129
Bromodichloromethane	**17.7**	20.0	88	81 - 123
Bromoform	**16.9**	20.0	85	68 - 129
Bromomethane	**17.7**	20.0	88	79 - 130
Carbon Disulfide	**89.0**	100	89	76 - 138
Carbon Tetrachloride	**16.7**	20.0	84	81 - 125
Chlorobenzene	**18.7**	20.0	94	86 - 113
Chloroethane	**16.9**	20.0	85	74 - 126
Chloroform	**18.4**	20.0	92	83 - 124
Chloromethane	**17.9**	20.0	89	67 - 135
cis-1,2-Dichloroethene	**17.7**	20.0	89	80 - 126
cis-1,3-Dichloropropene	**19.4**	20.0	97	86 - 123
Dibromochloromethane	**19.2**	20.0	96	82 - 121
Dibromomethane	**18.8**	20.0	94	83 - 123

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/26/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210096

Analyte Name	Lab Control Sample JQ1002990-01 Result	Spike Amount	% Rec	% Rec Limits
Ethylbenzene	**19.3**	20.0	96	90 - 118
Iodomethane	**89.4**	100	89	68 - 134
m,p-Xylenes	**38.3**	40.0	96	86 - 121
Methylene Chloride	**17.4**	20.0	87	72 - 124
o-Xylene	**19.2**	20.0	96	89 - 119
Styrene	**19.2**	20.0	96	89 - 122
Tetrachloroethene (PCE)	**18.1**	20.0	91	80 - 121
Toluene	**19.0**	20.0	95	86 - 117
trans-1,2-Dichloroethene	**17.3**	20.0	86	77 - 124
trans-1,3-Dichloropropene	**18.7**	20.0	94	83 - 124
trans-1,4-Dichloro-2-butene	**17.0**	20.0	85	53 - 143
Trichloroethene (TCE)	**17.9**	20.0	90	76 - 124
Trichlorofluoromethane	**17.0**	20.0	85	74 - 134
Vinyl Acetate	**90.3**	100	90	61 - 148
Vinyl Chloride	**17.9**	20.0	90	78 - 132

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/27/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210383

Analyte Name	Lab Control Sample JQ1003037-01 Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	**19.2**	20.0	96	85 - 117
1,1,1-Trichloroethane (TCA)	**18.5**	20.0	93	79 - 124
1,1,2,2-Tetrachloroethane	**16.7**	20.0	83	83 - 120
1,1,2-Trichloroethane	**18.3**	20.0	92	86 - 114
1,1-Dichloroethane (1,1-DCA)	**18.5**	20.0	93	80 - 128
1,1-Dichloroethene (1,1-DCE)	**18.9**	20.0	95	78 - 130
1,2,3-Trichloropropane	**18.6**	20.0	93	83 - 123
1,2-Dibromo-3-chloropropane (DBCP)	**16.4**	20.0	82	62 - 123
1,2-Dibromoethane (EDB)	**19.0**	20.0	95	88 - 117
1,2-Dichlorobenzene	**17.3**	20.0	86	84 - 115
1,2-Dichloroethane	**17.3**	20.0	87	80 - 124
1,2-Dichloropropane	**18.8**	20.0	94	79 - 123
1,4-Dichlorobenzene	**17.6**	20.0	88	83 - 113
2-Butanone (MEK)	**93.5**	100	93	73 - 127
2-Hexanone	**91.8**	100	92	71 - 138
4-Methyl-2-pentanone (MIBK)	**95.6**	100	96	72 - 136
Acetone	**112**	100	112	67 - 133
Acrylonitrile	**92.8**	100	93	77 - 127
Benzene	**18.5**	20.0	93	79 - 119
Bromochloromethane	**18.2**	20.0	91	79 - 129
Bromodichloromethane	**18.3**	20.0	92	81 - 123
Bromoform	**16.7**	20.0	84	68 - 129
Bromomethane	**18.2**	20.0	91	79 - 130
Carbon Disulfide	**94.4**	100	94	76 - 138
Carbon Tetrachloride	**18.2**	20.0	91	81 - 125
Chlorobenzene	**19.0**	20.0	95	86 - 113
Chloroethane	**18.4**	20.0	92	74 - 126
Chloroform	**18.8**	20.0	94	83 - 124
Chloromethane	**19.2**	20.0	96	67 - 135
cis-1,2-Dichloroethene	**18.4**	20.0	92	80 - 126
cis-1,3-Dichloropropene	**18.0**	20.0	90	86 - 123
Dibromochloromethane	**18.9**	20.0	95	82 - 121
Dibromomethane	**18.9**	20.0	94	83 - 123

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/27/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210383

Lab Control Sample
JQ1003037-01

Analyte Name	Result	Spike Amount	% Rec		% Rec Limits
Ethylbenzene	**19.0**	20.0	95		90 - 118
Iodomethane	**92.1**	100	92		68 - 134
m,p-Xylenes	**38.9**	40.0	97		86 - 121
Methylene Chloride	**18.0**	20.0	90		72 - 124
o-Xylene	**18.4**	20.0	92		89 - 119
Styrene	**18.8**	20.0	94		89 - 122
Tetrachloroethene (PCE)	**18.5**	20.0	93		80 - 121
Toluene	**18.8**	20.0	94		86 - 117
trans-1,2-Dichloroethene	**18.1**	20.0	90		77 - 124
trans-1,3-Dichloropropene	**17.6**	20.0	88		83 - 124
trans-1,4-Dichloro-2-butene	**5.71**	20.0	29	*	53 - 143
Trichloroethene (TCE)	**19.6**	20.0	98		76 - 124
Trichlorofluoromethane	**18.3**	20.0	91		74 - 134
Vinyl Acetate	**59.9**	100	60	*	61 - 148
Vinyl Chloride	**19.2**	20.0	96		78 - 132

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/27/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210384

Lab Control Sample
JQ1003038-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	**18.7**	20.0	93	85 - 117
1,1,1-Trichloroethane (TCA)	**17.4**	20.0	87	79 - 124
1,1,2,2-Tetrachloroethane	**18.7**	20.0	94	83 - 120
1,1,2-Trichloroethane	**18.6**	20.0	93	86 - 114
1,1-Dichloroethane (1,1-DCA)	**17.8**	20.0	89	80 - 128
1,1-Dichloroethene (1,1-DCE)	**16.7**	20.0	83	78 - 130
1,2,3-Trichloropropane	**18.4**	20.0	92	83 - 123
1,2-Dibromo-3-chloropropane (DBCP)	**17.6**	20.0	88	62 - 123
1,2-Dibromoethane (EDB)	**19.1**	20.0	95	88 - 117
1,2-Dichlorobenzene	**17.3**	20.0	87	84 - 115
1,2-Dichloroethane	**17.7**	20.0	89	80 - 124
1,2-Dichloropropane	**18.3**	20.0	91	79 - 123
1,4-Dichlorobenzene	**17.9**	20.0	89	83 - 113
2-Butanone (MEK)	**98.7**	100	99	73 - 127
2-Hexanone	**92.2**	100	92	71 - 138
4-Methyl-2-pentanone (MIBK)	**95.8**	100	96	72 - 136
Acetone	**111**	100	111	67 - 133
Acrylonitrile	**93.8**	100	94	77 - 127
Benzene	**17.7**	20.0	89	79 - 119
Bromochloromethane	**18.3**	20.0	91	79 - 129
Bromodichloromethane	**17.3**	20.0	86	81 - 123
Bromoform	**17.4**	20.0	87	68 - 129
Bromomethane	**16.5**	20.0	83	79 - 130
Carbon Disulfide	**85.5**	100	85	76 - 138
Carbon Tetrachloride	**16.3**	20.0	82	81 - 125
Chlorobenzene	**18.6**	20.0	93	86 - 113
Chloroethane	**16.6**	20.0	83	74 - 126
Chloroform	**18.0**	20.0	90	83 - 124
Chloromethane	**16.7**	20.0	83	67 - 135
cis-1,2-Dichloroethene	**17.7**	20.0	88	80 - 126
cis-1,3-Dichloropropene	**18.4**	20.0	92	86 - 123
Dibromochloromethane	**18.8**	20.0	94	82 - 121
Dibromomethane	**18.7**	20.0	94	83 - 123

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/27/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210384

Lab Control Sample
JQ1003038-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Ethylbenzene	**18.4**	20.0	92	90 - 118
Iodomethane	**87.3**	100	87	68 - 134
m,p-Xylenes	**37.9**	40.0	95	86 - 121
Methylene Chloride	**18.0**	20.0	90	72 - 124
o-Xylene	**18.6**	20.0	93	89 - 119
Styrene	**18.4**	20.0	92	89 - 122
Tetrachloroethene (PCE)	**17.2**	20.0	86	80 - 121
Toluene	**18.5**	20.0	92	86 - 117
trans-1,2-Dichloroethene	**17.3**	20.0	87	77 - 124
trans-1,3-Dichloropropene	**18.2**	20.0	91	83 - 124
trans-1,4-Dichloro-2-butene	**15.6**	20.0	78	53 - 143
Trichloroethene (TCE)	**18.0**	20.0	90	76 - 124
Trichlorofluoromethane	**15.7**	20.0	79	74 - 134
Vinyl Acetate	**90.9**	100	91	61 - 148
Vinyl Chloride	**16.6**	20.0	83	78 - 132

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/29/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210615

Analyte Name	Lab Control Sample JQ1003076-01 Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	**20.7**	20.0	103	85 - 117
1,1,1-Trichloroethane (TCA)	**21.0**	20.0	105	79 - 124
1,1,2,2-Tetrachloroethane	**19.9**	20.0	100	83 - 120
1,1,2-Trichloroethane	**20.1**	20.0	100	86 - 114
1,1-Dichloroethane (1,1-DCA)	**21.1**	20.0	106	80 - 128
1,1-Dichloroethene (1,1-DCE)	**21.3**	20.0	106	78 - 130
1,2,3-Trichloropropane	**21.8**	20.0	109	83 - 123
1,2-Dibromo-3-chloropropane (DBCP)	**17.4**	20.0	87	62 - 123
1,2-Dibromoethane (EDB)	**19.6**	20.0	98	88 - 117
1,2-Dichlorobenzene	**19.1**	20.0	96	84 - 115
1,2-Dichloroethane	**21.7**	20.0	109	80 - 124
1,2-Dichloropropane	**20.9**	20.0	104	79 - 123
1,4-Dichlorobenzene	**20.0**	20.0	100	83 - 113
2-Butanone (MEK)	**101**	100	101	73 - 127
2-Hexanone	**100**	100	100	71 - 138
4-Methyl-2-pentanone (MIBK)	**103**	100	103	72 - 136
Acetone	**75.8**	100	76	67 - 133
Acrylonitrile	**102**	100	102	77 - 127
Benzene	**21.2**	20.0	106	79 - 119
Bromochloromethane	**20.7**	20.0	103	79 - 129
Bromodichloromethane	**20.4**	20.0	102	81 - 123
Bromoform	**18.7**	20.0	94	68 - 129
Bromomethane	**21.2**	20.0	106	79 - 130
Carbon Disulfide	**104**	100	104	76 - 138
Carbon Tetrachloride	**19.9**	20.0	99	81 - 125
Chlorobenzene	**20.9**	20.0	105	86 - 113
Chloroethane	**20.9**	20.0	104	74 - 126
Chloroform	**20.8**	20.0	104	83 - 124
Chloromethane	**22.7**	20.0	113	67 - 135
cis-1,2-Dichloroethene	**20.6**	20.0	103	80 - 126
cis-1,3-Dichloropropene	**20.2**	20.0	101	86 - 123
Dibromochloromethane	**19.8**	20.0	99	82 - 121
Dibromomethane	**21.0**	20.0	105	83 - 123

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/29/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210615

Analyte Name	Lab Control Sample JQ1003076-01 Result	Spike Amount	% Rec	% Rec Limits
Ethylbenzene	**19.9**	20.0	100	90 - 118
Iodomethane	**104**	100	104	68 - 134
m,p-Xylenes	**43.1**	40.0	108	86 - 121
Methylene Chloride	**20.6**	20.0	103	72 - 124
o-Xylene	**20.9**	20.0	105	89 - 119
Styrene	**20.6**	20.0	103	89 - 122
Tetrachloroethene (PCE)	**20.8**	20.0	104	80 - 121
Toluene	**21.0**	20.0	105	86 - 117
trans-1,2-Dichloroethene	**20.6**	20.0	103	77 - 124
trans-1,3-Dichloropropene	**19.6**	20.0	98	83 - 124
trans-1,4-Dichloro-2-butene	**18.8**	20.0	94	53 - 143
Trichloroethene (TCE)	**20.5**	20.0	103	76 - 124
Trichlorofluoromethane	**20.2**	20.0	101	74 - 134
Vinyl Acetate	**97.6**	100	98	61 - 148
Vinyl Chloride	**22.0**	20.0	110	78 - 132

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	
MWB3S	J1003438-001	140	
MWB3I	J1003438-002	135	
MWB19D	J1003438-003	131	
MWB19I	J1003438-004	119	
MWB19S	J1003438-005	119	
MWB20S	J1003438-006	130	
MWB11S	J1003438-007	141	
MWB11I(R)	J1003438-008	140	
MWB12D	J1003438-009	117	
MWB12I	J1003438-010	140	
MWB7I	J1003438-011	139	
MWB7D	J1003438-012	143	
MWB21S	J1003438-013	142	
MWB22S	J1003438-014	131	
DUP02	J1003438-015	156	*
MWB29D	J1003438-016	131	
MWB29I	J1003438-017	136	
MWB29S	J1003438-018	126	
MWB2I	J1003438-019	144	
MWB2S	J1003438-020	110	
MWB33S	J1003438-021	129	
MWB27S	J1003438-022	123	
MWB27I	J1003438-023	103	
MWB27D	J1003438-024	109	
DUP01	J1003438-025	120	
MWB31D	J1003438-026	114	
MWB17S	J1003438-027	118	
MWB17D	J1003438-028	123	
MWB17I	J1003438-029	93	
MWB7S	J1003438-030	141	
MWB12S	J1003438-031	106	
MWB13I	J1003438-032	103	
MWB13S	J1003438-033	99	
MWB32S	J1003438-034	102	
MWB32I	J1003438-035	104	

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

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

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	
MWB32D	J1003438-036	111	
MWB34S	J1003438-037	126	
MWB34I	J1003438-038	197	*
MWB34D	J1003438-039	195	*
DUP03	J1003438-040	194	*
DUP04	J1003438-041	123	
FB	J1003438-042	132	
Method Blank	JWG1002568-4	110	
Method Blank	JWG1002569-4	137	
Method Blank	JWG1002570-4	118	
MWB3SMS	JWG1002568-1	97	
MWB3SDMS	JWG1002568-2	100	
MWB29IMS	JWG1002569-1	110	
MWB29IDMS	JWG1002569-2	89	
MWB34SMS	JWG1002570-1	110	
MWB34SDMS	JWG1002570-2	100	
Lab Control Sample	JWG1002568-3	127	
Lab Control Sample	JWG1002569-3	127	
Lab Control Sample	JWG1002570-3	115	

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

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:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Extracted:**	07/26/2010
Sample Matrix:	Water	**Date Analyzed:**	07/29/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB3S	**Units:**	ug/L
Lab Code:	J1003438-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011	**Extraction Lot:**	JWG1002568

		MWB3SMS JWG1002568-1 Matrix Spike			MWB3SDMS JWG1002568-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	ND	0.363	0.257	141 *	0.275	0.256	107	65-135	28 *	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.266	0.257	103	0.257	0.256	101	65-135	3	20

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Extracted:**	07/26/2010
Sample Matrix:	Water	**Date Analyzed:**	07/29/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB29I	**Units:**	ug/L
Lab Code:	J1003438-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011	**Extraction Lot:**	JWG1002569

		MWB29IMS JWG1002569-1 Matrix Spike			MWB29IDMS JWG1002569-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	ND	0.213	0.258	83	0.163	0.258	63 *	65-135	26 *	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.240	0.258	93	0.212	0.258	82	65-135	12	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Extracted:**	07/26/2010
Sample Matrix:	Water	**Date Analyzed:**	07/30/2010

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MWB34S	**Units:**	ug/L
Lab Code:	J1003438-037	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011	**Extraction Lot:**	JWG1002570

		MWB34SMS JWG1002570-1 Matrix Spike			MWB34SDMS JWG1002570-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromoethane (EDB)	ND	0.182	0.254	72	0.177	0.263	67	65-135	3	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.265	0.254	104	0.255	0.263	97	65-135	4	20

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Extracted: 07/26/2010
Date Analyzed: 07/29/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1002568

	Lab Control Sample JWG1002568-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.326	0.250	130	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.318	0.250	127	70-130

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Extracted: 07/26/2010
Date Analyzed: 07/29/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1002569

	Lab Control Sample JWG1002569-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.296	0.250	118	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.319	0.250	128	70-130

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Extracted: 07/26/2010
Date Analyzed: 07/29/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1002570

	Lab Control Sample JWG1002570-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.229	0.250	92	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.325	0.250	130	70-130

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/30/10

Matrix Spike Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Sample Name: MWB19I
Lab Code: J1003438-004

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

		MWB19IMS Matrix Spike J1003438-MS1			MWB19IDMS Duplicate Matrix Spike J1003438-DMS1					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Mercury, Total	ND	5.18	5.00	104	5.41	5.00	108	75 - 125	4	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 8/ 1/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB19S
Lab Code: J1003438-005

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		MWB19SMS Matrix Spike J1003438-MS2			MWB19SDMS Duplicate Matrix Spike J1003438-DMS2					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sodium, Total	11.0	20.4	10.0	93	19.9	10.0	88	75 - 125	2	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 8/ 1/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB19S
Lab Code: J1003438-005

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		MWB19SMS Matrix Spike J1003438-MS2				MWB19SDMS Duplicate Matrix Spike J1003438-DMS2					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Iron, Total	180	2200	2000	101	2150	2000	98	75 - 125	2	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 8/ 2/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB11I(R)
Lab Code: J1003438-008

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

		MWB11I(R)MS Matrix Spike J1003438-MS3			MWB11I(R)DMS Duplicate Matrix Spike J1003438-DMS3					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Antimony, Total	ND	49.5	50.0	99	49.5	50.0	99	75 - 125	0	20
Arsenic, Total	0.17	47.7	50.0	95	47.6	50.0	95	75 - 125	0	20
Barium, Total	42.8	94.7	50.0	104	92.9	50.0	100	75 - 125	2	20
Beryllium, Total	ND	49.6	50.0	99	51.2	50.0	102	75 - 125	3	20
Cadmium, Total	ND	48.6	50.0	97	48.0	50.0	96	75 - 125	1	20
Chromium, Total	4.5	55.1	50.0	101	54.7	50.0	101	75 - 125	1	20
Cobalt, Total	ND	50.8	50.0	102	50.7	50.0	101	75 - 125	0	20
Copper, Total	ND	50.2	50.0	100	49.4	50.0	99	75 - 125	2	20
Lead, Total	0.9	55.0	50.0	108	53.9	50.0	106	75 - 125	2	20
Nickel, Total	0.6	51.0	50.0	101	51.7	50.0	102	75 - 125	1	20
Selenium, Total	ND	42.1	50.0	84	41.5	50.0	83	75 - 125	2	20
Silver, Total	ND	49.5	50.0	99	49.9	50.0	100	75 - 125	1	20
Thallium, Total	ND	53.9	50.0	108	53.1	50.0	106	75 - 125	2	20
Vanadium, Total	5.4	57.0	50.0	103	54.9	50.0	99	75 - 125	4	20
Zinc, Total	ND	93.0	100	93	92.7	100	93	75 - 125	0	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: NA
Date Received: NA
Date Analyzed: 8/ 3/10

Matrix Spike Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Sample Name:
Lab Code: J1003438-022

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

		Matrix SpikeMS **Matrix Spike** J1003438-MS4			Duplicate Matrix SpikeDMS **Duplicate Matrix Spike** J1003438-DMS4					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Mercury, Total		5.06	5.00	101	5.06	5.00	101	75 - 125	0	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 8/ 2/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB7S
Lab Code: J1003438-030

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		MWB7SMS Matrix Spike J1003438-MS5				MWB7SDMS Duplicate Matrix Spike J1003438-DMS5					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**		**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sodium, Total	13.6	24.0	10.0	104		21.2	10.0	77	75 - 125	12	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 8/ 2/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB7S
Lab Code: J1003438-030

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		MWB7SMS Matrix Spike J1003438-MS5				MWB7SDMS Duplicate Matrix Spike J1003438-DMS5					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Iron, Total	110	2380	2000	113	2080	2000	98	75 - 125	14	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 8/ 5/10

Matrix Spike Summary
Inorganic Parameters

Sample Name: MWB13I
Lab Code: J1003438-032

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

		MWB13IMS Matrix Spike J1003438-MS6			MWB13IDMS Duplicate Matrix Spike J1003438-DMS6					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Antimony, Total	ND	53.5	50.0	107	54.4	50.0	109	75 - 125	2	20
Arsenic, Total	0.25	49.4	50.0	98	50.9	50.0	101	75 - 125	3	20
Barium, Total	34.3	90.0	50.0	111	91.3	50.0	114	75 - 125	1	20
Beryllium, Total	ND	49.0	50.0	98	51.6	50.0	103	75 - 125	5	20
Cadmium, Total	0.22	48.5	50.0	97	48.5	50.0	96	75 - 125	0	20
Chromium, Total	2.0	55.7	50.0	107	56.4	50.0	109	75 - 125	1	20
Cobalt, Total	ND	51.9	50.0	104	53.5	50.0	107	75 - 125	3	20
Copper, Total	0.7	51.3	50.0	101	51.4	50.0	101	75 - 125	0	20
Lead, Total	ND	55.3	50.0	111	56.4	50.0	113	75 - 125	2	20
Nickel, Total	0.5	51.5	50.0	102	53.1	50.0	105	75 - 125	3	20
Selenium, Total	ND	42.3	50.0	85	43.4	50.0	87	75 - 125	3	20
Silver, Total	ND	51.2	50.0	102	51.4	50.0	103	75 - 125	0	20
Thallium, Total	ND	54.4	50.0	109	54.8	50.0	110	75 - 125	1	20
Vanadium, Total	ND	54.6	50.0	109	55.7	50.0	111	75 - 125	2	20
Zinc, Total	ND	95.8	100	96	98.4	100	98	75 - 125	3	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/28/10 - 8/ 2/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003438-LCS1 Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	**50.8**	50.0	102	80 - 120
Arsenic, Total	6020	**48.7**	50.0	97	80 - 120
Barium, Total	6020	**50.8**	50.0	102	80 - 120
Beryllium, Total	6020	**46.8**	50.0	94	80 - 120
Cadmium, Total	6020	**48.0**	50.0	96	80 - 120
Chromium, Total	6020	**52.4**	50.0	105	80 - 120
Cobalt, Total	6020	**52.8**	50.0	106	80 - 120
Copper, Total	6020	**50.3**	50.0	101	80 - 120
Iron, Total	6010B	**2030**	2000	102	80 - 120
Lead, Total	6020	**51.4**	50.0	103	80 - 120
Mercury, Total	7470A	**5.36**	5.00	107	80 - 120
Nickel, Total	6020	**50.7**	50.0	101	80 - 120
Selenium, Total	6020	**45.0**	50.0	90	80 - 120
Silver, Total	6020	**49.6**	50.0	99	80 - 120
Thallium, Total	6020	**52.1**	50.0	104	80 - 120
Vanadium, Total	6020	**51.9**	50.0	104	80 - 120
Zinc, Total	6020	**94.6**	100	95	80 - 120

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/30/10 - 8/ 2/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Lab Control Sample
J1003438-LCS2

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	**53.3**	50.0	107	80 - 120
Arsenic, Total	6020	**49.7**	50.0	99	80 - 120
Barium, Total	6020	**52.6**	50.0	105	80 - 120
Beryllium, Total	6020	**50.1**	50.0	100	80 - 120
Cadmium, Total	6020	**49.3**	50.0	99	80 - 120
Chromium, Total	6020	**52.9**	50.0	106	80 - 120
Cobalt, Total	6020	**52.4**	50.0	105	80 - 120
Copper, Total	6020	**50.8**	50.0	102	80 - 120
Iron, Total	6010B	**2030**	2000	101	80 - 120
Lead, Total	6020	**54.2**	50.0	108	80 - 120
Mercury, Total	7470A	**4.89**	5.00	98	80 - 120
Nickel, Total	6020	**53.1**	50.0	106	80 - 120
Selenium, Total	6020	**44.9**	50.0	90	80 - 120
Silver, Total	6020	**50.6**	50.0	101	80 - 120
Thallium, Total	6020	**54.2**	50.0	108	80 - 120
Vanadium, Total	6020	**52.5**	50.0	105	80 - 120
Zinc, Total	6020	**96.5**	100	97	80 - 120

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 8/ 2/10 - 8/ 5/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003438-LCS3 Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	**52.2**	50.0	104	80 - 120
Arsenic, Total	6020	**49.6**	50.0	99	80 - 120
Barium, Total	6020	**53.8**	50.0	108	80 - 120
Beryllium, Total	6020	**48.1**	50.0	96	80 - 120
Cadmium, Total	6020	**48.3**	50.0	97	80 - 120
Chromium, Total	6020	**52.0**	50.0	104	80 - 120
Cobalt, Total	6020	**51.7**	50.0	103	80 - 120
Copper, Total	6020	**50.6**	50.0	101	80 - 120
Iron, Total	6010B	**2160**	2000	108	80 - 120
Lead, Total	6020	**53.6**	50.0	107	80 - 120
Mercury, Total	7470A	**5.03**	5.00	101	80 - 120
Nickel, Total	6020	**50.9**	50.0	102	80 - 120
Selenium, Total	6020	**44.3**	50.0	89	80 - 120
Silver, Total	6020	**49.8**	50.0	100	80 - 120
Thallium, Total	6020	**51.9**	50.0	104	80 - 120
Vanadium, Total	6020	**51.4**	50.0	103	80 - 120
Zinc, Total	6020	**92.4**	100	92	80 - 120

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/28/10 - 8/ 2/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003438-LCS1 Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	**9.57**	10.0	96	80 - 120

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/30/10 - 8/ 2/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003438-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	**9.61**	10.0	96	80 - 120

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 8/ 2/10 - 8/ 5/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003438-LCS3 Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	**10.1**	10.0	101	80 - 120

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/26/10

Matrix Spike Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Sample Name: MWB3S
Lab Code: J1003438-001

Units: mg/L
Basis: NA

Analytical Method: 350.1

Analyte Name	Sample Result	MWB3SMS Matrix Spike J1003438-MS1 Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	0.004	0.948	1.00	94	90 - 110

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/22/10

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MWB11S
Lab Code: J1003438-007

Units: mg/L
Basis: NA

Analytical Method: 300.0

Analyte Name	Sample Result	MWB11SMS Matrix Spike J1003438-MS2 Result	Spike Amount	% Rec	% Rec Limits
Chloride	22.1	72.2	50.0	100	90 - 110
Nitrate as Nitrogen	ND	4.81	5.00	96	90 - 110

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

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/26/10

Matrix Spike Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Sample Name:	MWB12D	**Units:**	mg/L
Lab Code:	J1003438-009	**Basis:**	NA

Analytical Method: 350.1

		MWB12DMS **Matrix Spike** J1003438-MS3			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Ammonia as Nitrogen	0.169	1.11	1.00	94	90 - 110

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/26/10

Matrix Spike Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Sample Name:	MWB29S	**Units:**	mg/L
Lab Code:	J1003438-018	**Basis:**	NA

Analytical Method: 350.1

		MWB29SMS **Matrix Spike** J1003438-MS4			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Ammonia as Nitrogen	0.147	1.11	1.00	96	90 - 110

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/22/10

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MWB2I
Lab Code: J1003438-019

Units: mg/L
Basis: NA

Analytical Method: 300.0

Analyte Name	Sample Result	MWB2IMS Matrix Spike J1003438-MS5 Result	Spike Amount	% Rec	% Rec Limits
Chloride	6.86	57.6	50.0	101	90 - 110
Nitrate as Nitrogen	ND	4.80	5.00	96	90 - 110

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/26/10

Matrix Spike Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Sample Name:	MWB17I	**Units:**	mg/L
Lab Code:	J1003438-029	**Basis:**	NA

Analytical Method: 350.1

		MWB17IMS **Matrix Spike** J1003438-MS6			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Ammonia as Nitrogen	0.025	0.973	1.00	95	90 - 110

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/22/10

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MWB12S
Lab Code: J1003438-031

Units: mg/L
Basis: NA

Analytical Method: 300.0

Analyte Name	Sample Result	MWB12SMS Matrix Spike J1003438-MS7 Result	Spike Amount	% Rec	% Rec Limits
Chloride	7.34	59.0	50.0	103	90 - 110
Nitrate as Nitrogen	4.49	9.56	5.00	102	90 - 110

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10
Date Received: 7/21/10
Date Analyzed: 7/22/10

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MWB32S
Lab Code: J1003438-034

Units: mg/L
Basis: NA

Analytical Method: 300.0

Analyte Name	Sample Result	MWB32SMS Matrix Spike J1003438-MS8 Result	Spike Amount	% Rec	% Rec Limits
Chloride	28.7	78.6	50.0	100	90 - 110
Nitrate as Nitrogen	0.65	5.59	5.00	99	90 - 110

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/26/10

Matrix Spike Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Sample Name:	DUP03	**Units:**	mg/L
Lab Code:	J1003438-040	**Basis:**	NA

Analytical Method: 350.1

		DUP03MS **Matrix Spike** J1003438-MS9			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Ammonia as Nitrogen	0.049	0.992	1.00	94	90 - 110

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/26/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name: MWB3S
Lab Code: J1003438-001

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB3SDUP Duplicate Sample J1003438-DUP1 Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.004	0.004 IV	ND U	NC	NC	20
Solids, Total Dissolved	SM 2540 C	10	10	ND U	ND U	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/22/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name:	MWB11S	**Units:**	mg/L
Lab Code:	J1003438-007	**Basis:**	NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB11SDUP Duplicate Sample J1003438-DUP2 Result	Average	RPD	RPD Limit
Chloride	300.0	0.50	0.09	22.1	22.1	22.1	<1	20
Nitrate as Nitrogen	300.0	0.20	0.07	ND U	ND U	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/26/10

Duplicate Sample Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Sample Name:	MWB12D	**Units:**	mg/L
Lab Code:	J1003438-009	**Basis:**	NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB12DDUP Duplicate Sample J1003438-DUP3 Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.004	0.169	0.169	0.169	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/26/10

Duplicate Sample Summary
Total Dissolved Solids Dried at 180 Deg C (TDS) 20th Ed.

Sample Name:	MWB7I	**Units:**	mg/L
Lab Code:	J1003438-011	**Basis:**	NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB7IDUP Duplicate Sample J1003438-DUP4 Result	Average	RPD	RPD Limit
Solids, Total Dissolved	SM 2540 C	10	10	34	30	32.0	13	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/26/10

Duplicate Sample Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Sample Name: MWB29S
Lab Code: J1003438-018

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB29SDUP Duplicate Sample J1003438-DUP5 Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.004	0.147	0.153	0.150	4	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/22/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name:	MWB2I	**Units:**	mg/L
Lab Code:	J1003438-019	**Basis:**	NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB2IDUP Duplicate Sample J1003438-DUP6 Result	Average	RPD	RPD Limit
Chloride	300.0	0.50	0.09	6.86	6.83	6.85	<1	20
Nitrate as Nitrogen	300.0	0.20	0.07	ND U	ND U	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/26/10

Duplicate Sample Summary
Total Dissolved Solids Dried at 180 Deg C (TDS) 20th Ed.

Sample Name:	MWB33S	**Units:**	mg/L
Lab Code:	J1003438-021	**Basis:**	NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB33SDUP Duplicate Sample J1003438-DUP7 Result	Average	RPD	RPD Limit
Solids, Total Dissolved	SM 2540 C	10	10	200	207	204	3	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/20/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/26/10

Duplicate Sample Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Sample Name:	MWB17I	**Units:**	mg/L
Lab Code:	J1003438-029	**Basis:**	NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB17IDUP Duplicate Sample J1003438-DUP8 Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.004	0.025	0.023	0.0242	10	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/20/10
Date Received: 7/21/10
Date Analyzed: 7/22/10 - 7/26/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name: MWB12S
Lab Code: J1003438-031

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB12SDUP Duplicate Sample J1003438-DUP9 Result	Average	RPD	RPD Limit
Chloride	300.0	0.50	0.09	7.34	7.30	7.32	<1	20
Nitrate as Nitrogen	300.0	0.20	0.07	4.49	4.51	4.50	<1	20
Solids, Total Dissolved	SM 2540 C	10	10	146	156	151	7	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Collected: 7/21/10
Date Received: 7/21/10
Date Analyzed: 7/22/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name: MWB32S
Lab Code: J1003438-034

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MWB32SDUP Duplicate Sample J1003438-DUP10 Result	Average	RPD	RPD Limit
Chloride	300.0	0.50	0.09	28.7	28.7	28.7	<1	20
Nitrate as Nitrogen	300.0	0.20	0.07	0.65	0.65	0.650	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003438
Project:	Trail Ridge	**Date Collected:**	7/21/10
Sample Matrix:	Water	**Date Received:**	7/21/10
		Date Analyzed:	7/26/10

Duplicate Sample Summary
Nitrogen, Ammonia, (Colorimetric, Automated Phenate)

Sample Name:	DUP03	**Units:**	mg/L
Lab Code:	J1003438-040	**Basis:**	NA

Analyte Name	Method	MRL	MDL	Sample Result	DUP03DUP Duplicate Sample J1003438-DUP11 Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.004	0.049	0.041	0.0450	18	20

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/27/10

Lab Control Sample Summary
Total Dissolved Solids Dried at 180 Deg C (TDS) 20th Ed.

Units: mg/L
Basis: NA

		Lab Control Sample J1003438-LCS1			Duplicate Lab Control Sample J1003438-DLCS1					
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Solids, Total Dissolved	SM 2540 C	**297**	300	99	**303**	300	101	85 - 115	2	20

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/21/10 - 7/26/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003438-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	**0.946**	1.00	95	90 - 110
Chloride	300.0	**51.9**	50.0	104	90 - 110
Nitrate as Nitrogen	300.0	**4.94**	5.00	99	90 - 110
Solids, Total Dissolved	SM 2540 C	**289**	300	96	85 - 115

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

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/22/10 - 7/26/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003438-LCS3 Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	**0.966**	1.00	97	90 - 110
Chloride	300.0	**51.9**	50.0	104	90 - 110
Nitrate as Nitrogen	300.0	**4.90**	5.00	98	90 - 110
Solids, Total Dissolved	SM 2540 C	**295**	300	98	85 - 115

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003438
Date Analyzed: 7/22/10 - 7/27/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003438-LCS4 Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	**0.957**	1.00	96	90 - 110
Chloride	300.0	**52.7**	50.0	105	90 - 110
Nitrate as Nitrogen	300.0	**4.98**	5.00	100	90 - 110
Solids, Total Dissolved	SM 2540 C	**27.0**	30	90	70 - 130

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

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Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: HDR
Service Request #: J1003438
Project: Trail Ridge
Cooler received on 7.21.10 and opened on 7.21.10 by GB
COURIER: CAS UPS FEDEX Client Other _____ Airbill # _____

1	Were custody seals on outside of cooler?	Yes	No		
	If yes, how many and where?	#: 1 on lid		other	
2	Were seals intact and signature and date correct?	Yes	No	N/A	
3	Were custody papers properly filled out?	Yes	No	N/A	
4	Temperature of cooler(s) upon receipt (Should be > 0°C and < 6°C)	4.9	4.0	3.6	5.1 5.5
5	Thermometer ID	T16			
6	Temperature Blank Present?	Yes	No		
7	Were Ice or Ice Packs present	Ice	Ice Packs	No	
8	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A	
9	Type of packing material present	bubblewrap			
10	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A	
11	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A	
12	Were the correct bottles used for the tests indicated?	Yes	No	N/A	
13	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	N/A	
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2				
	Preservative additions noted below				
14	Were all samples received within analysis holding times?	Yes	No	N/A	
15	Were VOA vials checked for absence of air bubbles? If present, note below	Yes	No	N/A	
16	Where did the bottles originate?	CAS	Client		

Sample ID	Reagent	Lot #	ml added	Initials Date/Time
mwB345	HNO3	meT183H	1	GB 7.21.10 1530

Additional comments and/or explanation of all discrepancies noted above: Combined all Trip Blank vials into one set. Logged in at the end of the project

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

SR # : J 1003498

Date: 7.21.10 Initials: GB

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001	3	3				1				1					1																
-002																															
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-035																															
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-037																															
-038																															
-039																															
-040																															

3000

-041

-042

-043 8

NOTE: VOA pH checks are performed by the analytical area, not sample control

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PAGE 1 OF 4

SR # J1003438
CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR / 200 W FORSYTH ST, STE 800 JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Number an[redacted]

PRESERVATIVE: 0 1 3 2 0

NUMBER OF CONTAINERS / 8011 / 8260 / NH3 / METALS / Cl-, NO3, TDS

0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8011	8260	NH3	METALS	Cl-, NO3, TDS	REMARKS/ ALTERNATE DESCRIPTION
MWB3S		7-20	1001	GW	9	3	3	1	1	1	
MWB3I		7-20	1030	GW	9	3	3	1	1	1	
MWB19D		7-20	1107	GW	9	3	3	1	1	1	
MWB19I		7-20	1138	GW	9	3	3	1	1	1	
MWB19S		7-20	1207	GW	9	3	3	1	1	1	
MWB20S		7-20	1237	GW	9	3	3	1	1	1	
MWB11S		7-20	1310	GW	9	3	3	1	1	1	
MWB11I (R)		7-20	1342	GW	9	3	3	1	1	1	
MWB12D		7-20	1418	GW	9	3	3	1	1	1	
MWB12I		7-20	1448	GW	9	3	3	1	1	1	

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE _____
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: Jim Beaver	Printed Name	Printed Name
Firm: PRO-TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 7-21-10 / 1115	Date/Time: 7/21/10 12:15	Date/Time: 7/21/10 1:10	Date/Time: 7-21-10 1310	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

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SR # J1003438
CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR / 200 W FORSYTH ST. STE 800 JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 0 1 3 2 0 2

NUMBER OF CONTAINERS / 8011 / 8260 / NH3 / METALS / Cl-, NO3, TOS / *DISSOLVED METALS

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8011	8260	NH3	METALS	Cl-, NO3, TOS	*DISSOLVED METALS	REMARKS/ ALTERNATE DESCRIPTION
MWB7I		7-20	1309	GW	9	3	3	1	1	1	* ANALYZE
MWB7D		7-20	1340	GW	9	3	3	1	1	1	DISSOLVED METALS
MWB21S		7-20	1408	GW	9	3	3	1	1	1	ONLY FOR DETECTED
MWB22S		7-20	1515	GW	9	3	3	1	1	1	TOTAL METALS.
DUP02		7-20	1515	GW	9	3	3	1	1	1	
MWB29D		7-20	0728	GW	9	3	3	1	1	1	
MWB29I		7-20	0759	GW	9	3	3	1	1	1	
MWB29S		7-20	0828	GW	9	3	3	1	1	1	
MWB2I		7-20	0900	GW	9	3	3	1	1	1	
MWB2S		7-20	0929	GW	10	3	3	1	1	1	

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_X_ STANDARD
REQUESTED FAX DATE _____
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: G Bauer	Printed Name	Printed Name
Firm: PRO-TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 7-21-10 / 1115	Date/Time: 7/21/10 12:15	Date/Time: 7/21/10 1:10	Date/Time: 7-21-10 13:00	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

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SR # J1003438

CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRADSTONE	Email Address:
Company/Address: 200 W FORSYTH ST. STE 800, JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Nu[redacted]

PRESERVATIVE: 0 1 3 2 0

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	BDII	8260	NH3	METALS	CL, NO3, TDS											REMARKS/ ALTERNATE DESCRIPTION
MWB33S		7-20	1620	GW	9	3	3	1	1	1											
MWB27S		7-20	0815	GW	9	3	3	1	1	1											
MWB27I		7-20	0843	GW	9	3	3	1	1	1											
MWB27D		7-20	0918	GW	9	3	3	1	1	1											
DUP01		7-20	0918	GW	9	3	3	1	1	1											
MWB31D		7-20	1004	GW	9	3	3	1	1	1											
MWB17S		7-20	1042	GW	9	3	3	1	1	1											
MWB17D		7-20	1115	GW	9	3	3	1	1	1											
MWB17I		7-20	1149	GW	9	3	3	1	1	1											
MWB7S		7-20	1232	GW	9	3	3	1	1	1											

Key
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE _____
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: C Baver	Printed Name	Printed Name
Firm: PRO-TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 7-21-10 / 1115	Date/Time: 7/21/10 1215	Date/Time: 7/21/10 1:10	Date/Time: 7-21-10 1310	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

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PAGE 4 OF 4

SR # J1003938

CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR / 200 W FORSYTH ST., STE 800 JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Num[redacted]

PRESERVATIVE	0	1	3	2	0
NUMBER OF CONTAINERS / Analysis	8011	8260	NH3	METALS	Cl-, NO3, TDS

Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8011	8260	NH3	METALS	Cl-, NO3, TDS	REMARKS/ ALTERNATE DESCRIPTION
					~~3~~	~~3~~	~~1~~	~~1~~	~~1~~	
MWB12S		7.20	1520	GW	9	3	3	1	1	1	
MWB13I		7.20	1602	GW	9	3	3	1	1	1	
TRIP		7.20	—	W	✓		✓				

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE _____
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: G Bauer	Printed Name:	Printed Name:
Firm: PROTECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm:	Firm:
Date/Time: 7-21-10 / 1115	Date/Time: 7/21/10 12:15	Date/Time: 7/21/10 1:10	Date/Time: 7-21-10 13	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Retained by Client

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SR # J1003438
CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR / 200 W. FORSYTH ST., STE 800 JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8011 (PRESERVATIVE 0)	8260 (PRESERVATIVE 1)	NH3 (PRESERVATIVE 3)	METALS (PRESERVATIVE 2)	Cl-, NO3, TO3 (PRESERVATIVE 0)	REMARKS/ ALTERNATE DESCRIPTION
MWB13S		7-21	0909	GW	9	3	3	1	1	1	
MWB32S		7-21	1109	GW	9	3	3	1	1	1	
MWB32I		7-21	1219	GW	9	3	3	1	1	1	
MWB32D		7-21	1043	GW	9	3	3	1	1	1	
MWB34S		7-21	0959	GW	9	3	3	1	1	1	
MWB34I		7-21	1228	GW	9	3	3	1	1	1	
MWB34D		7-21	0924	GW	9	3	3	1	1	1	
DUP03		7-21	1219	GW	9	3	3	1	1	1	
DUP04		7-21	1228	GW	9	3	3	1	1	1	
FB		7-21	1253	GW	9	3	3	1	1	1	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

TRIP BLANKS PROVIDED IN COOLERS

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE _____
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature Shawn Lightsey	Signature	Signature	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: Shawn Lightsey	Printed Name	Printed Name	Printed Name	Printed Name
Firm: PRO-TECH	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 7-21-10 / 1445	Date/Time: 7/21/10 1445	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB3S	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.75	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 154.38		GROUNDWATER ELEVATION (ft NGVD): 146.63		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 0941	PURGING ENDED AT: 1001	TOTAL VOLUME PURGED (gallons): 3.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0951	1.90	1.90	0.19	7.90	4.64	23.3	51	0.8	8.87	109		
0954	0.57	2.47	0.19	7.92	4.65	23.4	49	0.8	4.35	105		
0957	0.57	3.04	0.19	7.90	4.66	23.4	48	0.8	3.29	101		
1000	0.57	3.61	0.19	7.93	4.67	23.4	48	0.8	3.17	97	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1001	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB3I	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 52 feet to 62 feet	STATIC DEPTH TO WATER (feet): 12.32	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 151.86		GROUNDWATER ELEVATION (ft NGVD): 139.54		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 62.00 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.00	PURGING INITIATED AT: 1009	PURGING ENDED AT: 1030	TOTAL VOLUME PURGED (gallons): 5.67

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1020	2.97	2.97	0.27	12.56	5.02	22.5	42	0.6	1.24	-143		
1023	0.81	3.78	0.27	12.55	5.00	22.6	42	0.6	1.04	-147		
1026	0.81	4.59	0.27	12.58	5.02	22.6	42	0.6	1.05	-149		
1029	0.81	5.40	0.27	12.59	5.00	22.6	41	0.6	0.98	-148	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 57.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB19D	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 105.5 feet to 115.5 feet	STATIC DEPTH TO WATER (feet): 6.58		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.23			GROUNDWATER ELEVATION (ft NGVD): 121.65		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 115.50 feet) + 0.05 gallons = 1.04 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 110.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 110.50	PURGING INITIATED AT: 1043	PURGING ENDED AT: 1107		TOTAL VOLUME PURGED (gallons): 6.48

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1054	2.97	2.97	0.27	7.22	7.39	24.2	392	0.4	6.14	-127		
1058	1.08	4.05	0.27	7.19	7.43	24.3	392	0.4	5.00	-132		
1102	1.08	5.13	0.27	7.23	7.45	24.3	393	0.3	6.02	-135		
1106	1.08	6.21	0.27	7.20	7.45	24.3	393	0.3	7.11	-137	None	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1107	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 110.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB19I	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 49 feet to 59 feet	STATIC DEPTH TO WATER (feet): 6.82	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD):			GROUNDWATER ELEVATION (ft NGVD):	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 59.00 feet) + 0.05 gallons = 0.7 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 54.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 54.00	PURGING INITIATED AT: 1115	PURGING ENDED AT: 1138	TOTAL VOLUME PURGED (gallons): 5.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1125	2.40	2.40	0.24	6.90	5.32	25.6	39	0.5	10.50	-172		
1128	0.72	3.12	0.24	6.91	5.33	25.6	39	0.5	7.68	-173		
1131	0.72	3.84	0.24	6.88	5.33	25.6	38	0.5	10.68	-175		
1134	0.72	4.56	0.24	6.85	5.34	25.6	38	0.5	14.13	-175	NONE	
1137	0.72	5.28	0.24	6.85	5.34	25.6	38	0.5	14.72	-176	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1138	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 54.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB19S	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 6.06	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 127.38			GROUNDWATER ELEVATION (ft NGVD): 121.32	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1146	PURGING ENDED AT: 1207		TOTAL VOLUME PURGED (gallons): 3.78

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1157	1.98	1.98	0.18	6.18	5.84	27.1	190	0.4	14.82	-169		
1200	0.54	2.52	0.18	6.15	5.82	27.1	187	0.4	13.66	-171		
1203	0.54	3.06	0.18	6.20	5.83	27.2	188	0.4	13.05	-174		
1206	0.54	3.60	0.18	6.15	5.79	27.2	188	0.4	13.00	-175	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1207	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW320S	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 6.84	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 121.01			GROUNDWATER ELEVATION (ft NGVD): 114.17	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1216	PURGING ENDED AT: 1237	TOTAL VOLUME PURGED (gallons): 3.99

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1227	2.09	2.09	0.19	7.03	4.61	28.2	99	0.5	15.11	-92		
1230	0.57	2.66	0.19	7.05	4.63	28.2	100	0.5	16.70	-96		
1233	0.57	3.23	0.19	7.00	4.61	28.2	100	0.5	16.34	-95		
1236	0.57	3.80	0.19	7.01	4.64	28.3	100	0.5	16.08	-94	NONE	
											TO LT	
											BROWN	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1237	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB11S	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 9.5 feet to 19.5 feet	STATIC DEPTH TO WATER (feet): 10.78	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 120.81		GROUNDWATER ELEVATION (ft NGVD): 110.03		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 19.50 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.50	PURGING INITIATED AT: 1248	PURGING ENDED AT: 1310	TOTAL VOLUME PURGED (gallons): 3.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1300	1.92	1.92	0.16	10.82	4.05	25.4	220	0.5	2.99	204		
1303	0.48	2.40	0.16	10.80	4.03	25.3	217	0.4	1.63	191		
1306	0.48	2.88	0.16	10.81	4.07	25.4	216	0.5	1.79	188		
1309	0.48	3.36	0.16	10.82	4.08	25.4	216	0.5	1.62	186	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1310	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 14.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB11I(R)	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 45 feet to 55 feet	STATIC DEPTH TO WATER (feet): 11.20	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 120.43		GROUNDWATER ELEVATION (ft NGVD): 109.23		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 55.00 feet) + 0.05 gallons = 0.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 50.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 50.00	PURGING INITIATED AT: 1320	PURGING ENDED AT: 1342	TOTAL VOLUME PURGED (gallons): 5.28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1329	2.16	2.16	0.24	11.38	5.16	26.2	41	0.6	6.13	-161		
1332	0.72	2.88	0.24	11.40	5.17	26.3	41	0.6	9.44	-166		
1335	0.72	3.60	0.24	11.41	5.17	26.2	41	0.6	10.08	-172		
1338	0.72	4.32	0.24	11.36	5.20	26.2	40	0.6	9.65	-172		
1341	0.72	5.04	0.24	11.32	5.18	26.3	41	0.6	11.49	-169	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1342	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 50.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB12D	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 102 feet to 112 feet	STATIC DEPTH TO WATER (feet): 4.58	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.56		GROUNDWATER ELEVATION (ft NGVD): 119.98		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 112.00 feet) + 0.05 gallons = 1.02 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 107.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 107.00	PURGING INITIATED AT: 1354	PURGING ENDED AT: 1418	TOTAL VOLUME PURGED (gallons): 6.72

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1405	3.08	3.08	0.28	4.74	7.21	25.6	420	0.1	1.92	-201		
1409	1.12	4.20	0.28	4.78	7.20	25.7	419	0.1	1.94	-204		
1413	1.12	5.32	0.28	4.77	7.20	25.7	419	0.1	1.90	-202		
1417	1.12	6.44	0.28	4.75	7.20	25.7	420	0.1	2.55	-206	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1418	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 107.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB12I	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 61.5 feet to 71.5 feet	STATIC DEPTH TO WATER (feet): 7.30		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.62			GROUNDWATER ELEVATION (ft NGVD): 117.32		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 71.50 feet) + 0.05 gallons = 0.78 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50	PURGING INITIATED AT: 1426	PURGING ENDED AT: 1448		TOTAL VOLUME PURGED (gallons): 5.94

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1438	3.24	3.24	0.27	7.32	5.36	25.2	40	0.2	2.12	-145		
1441	0.81	4.05	0.27	7.32	5.36	25.3	41	0.2	2.12	-149		
1444	0.81	4.86	0.27	7.32	5.36	25.2	42	0.2	2.10	-152		
1447	0.81	5.67	0.27	7.32	5.34	25.3	42	0.2	2.03	-154	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.08; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1448	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 66.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB7I	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 55. feet to 65. feet	STATIC DEPTH TO WATER (feet): 3.30	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 121.53		GROUNDWATER ELEVATION (ft NGVD): 118.23		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 65.00 feet) + 0.05 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 60.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 60.00	PURGING INITIATED AT: 1240	PURGING ENDED AT: 1308	TOTAL VOLUME PURGED (gallons): 4.48

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1248	1.28	1.28	0.16	3.40	5.35	26.9	38	0.0	0.99	-97.4		
1253	0.80	2.08	0.16	3.40	5.34	26.8	38	0.0	0.50	-102.		
1258	0.80	2.88	0.16	3.40	5.35	26.5	38	0.0	0.47	-101.		
1303	0.80	3.68	0.16	3.40	5.35	26.1	38	0.0	0.43	-104.		
1308	0.80	4.48	0.16	3.40	5.36	26.0	38	0.0	0.39	-106	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMNEARAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1309	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 60.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 7D	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 107 feet to 117 feet	STATIC DEPTH TO WATER (feet): 0.78	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 121.65			GROUNDWATER ELEVATION (ft NGVD): 120.87	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 117.00 feet) + 0.05 gallons = 1.08 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 112.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 112.00	PURGING INITIATED AT: 1313	PURGING ENDED AT: 1339	TOTAL VOLUME PURGED (gallons): 5.72

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1324	2.42	2.42	0.22	1.08	7.27	25.0	338	0.0	0.32	-121.		
1329	1.10	3.52	0.22	1.08	7.28	25.0	339	0.0	0.22	-123.		
1334	1.10	4.62	0.22	1.08	7.28	25.1	339	0.0	0.18	-121.		
1339	1.10	5.72	0.22	1.08	7.28	25.4	340	0.0	0.17	-117.	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 112.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW B 21 S	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 13 feet to 18 feet	STATIC DEPTH TO WATER (feet): 10.40	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 122.84			GROUNDWATER ELEVATION (ft NGVD): 112.44	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 18.00 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.50	PURGING INITIATED AT: 1346	PURGING ENDED AT: 1407	TOTAL VOLUME PURGED (gallons): 3.57

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1355	1.53	1.53	0.17	11.11	5.84	26.5	166	0.1	0.31	-109		
1358	0.51	2.04	0.17	11.16	5.84	26.3	165	0.1	0.28	-109		
1401	0.51	2.55	0.17	11.19	5.83	26.4	165	0.1	0.28	-108		
1404	0.51	3.06	0.17	11.23	5.83	26.4	165	0.0	0.25	-108		
1407	0.51	3.57	0.17	11.27	5.83	26.4	164	0.0	0.24	-107	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMLEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramleawan	SAMPLING INITIATED AT: 1408	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB22S DUPO2	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 16' feet to 26' feet	STATIC DEPTH TO WATER (feet): 11.24	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 126.97			GROUNDWATER ELEVATION (ft NGVD): 115.73	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 26.00 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00	PURGING INITIATED AT: 1450	PURGING ENDED AT: 1514	TOTAL VOLUME PURGED (gallons): 4.22

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1502	2.16	2.16	0.18	11.68	6.01	27.6	236	0.9	2.35	1.7		
1505	0.54	2.60	0.18	11.70	6.01	27.6	236	0.9	1.23	1.5		
1508	0.54	3.14	0.18	11.72	6.02	27.6	236	0.9	0.53	0.7		
1511	0.54	3.68	0.18	11.74	6.01	27.7	236	0.9	0.43	0.5		
1514	0.54	4.22	0.18	11.75	6.01	27.8	236	0.9	0.40	0.1	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1514	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 21.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
COMPLETED DUPO2 @ MWB22S

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB29D	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 100.5 feet to 110.5 feet	STATIC DEPTH TO WATER (feet): 3.96		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.18			GROUNDWATER ELEVATION (ft NGVD): ~~133.22~~ 134.22		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 110.50 feet) + 0.05 gallons = 1.01 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105.50	PURGING INITIATED AT: 0703	PURGING ENDED AT: 0728	TOTAL VOLUME PURGED (gallons): 7.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0715	3.36	3.36	0.28	4.98	5.64	23.3	68	0.6	2.39	-181		
0719	1.12	4.48	0.28	4.98	5.62	23.3	68	0.6	2.07	-182		
0723	1.12	5.60	0.28	4.98	5.61	23.3	68	0.6	1.79	-184		
0727	1.12	6.72	0.28	4.93	5.63	23.3	69	0.6	1.90	-185	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0728	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 105.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB29I	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 53.5 feet to 63.5 feet	STATIC DEPTH TO WATER (feet): 3.72	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 138.08 GROUNDWATER ELEVATION (ft NGVD): 134.36

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 63.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50	PURGING INITIATED AT: 0738	PURGING ENDED AT: 0759	TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0749	2.75	2.75	0.25	3.75	5.17	23.4	41	0.8	30.34	-173		
0752	0.75	3.50	0.25	3.75	5.16	23.4	41	0.8	30.48	-173		
0755	0.75	4.25	0.25	3.74	5.16	23.4	41	0.8	28.50	-175		
0758	0.75	5.00	0.25	3.73	5.15	23.4	41	0.8	29.31	-175	LT. TAN	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0759		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 58.50	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type: IN-LINE 0.8µ	FILTER SIZE: 100 micron
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
NO FILTERED SAMPLE COLLECTED

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB29S	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.10	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.02		GROUNDWATER ELEVATION (ft NGVD): 130.92		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 0808	PURGING ENDED AT: 0828	TOTAL VOLUME PURGED (gallons): 3.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0818	1.90	1.90	0.19	7.10	4.83	25.3	57	0.8	2.70	-169		
0821	0.57	2.47	0.19	7.10	4.81	25.3	61	0.9	2.19	-169		
0824	0.57	3.04	0.19	7.10	4.82	25.3	63	0.8	2.10	-169		
0827	0.57	3.61	0.19	7.10	4.82	25.3	63	0.8	1.83	-170	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.08; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0828	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW82I	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 51.5 feet to 61.5 feet	STATIC DEPTH TO WATER (feet): 7.63	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 145.73		GROUNDWATER ELEVATION (ft NGVD): 138.10		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 61.50 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 56.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.50	PURGING INITIATED AT: 0839	PURGING ENDED AT: 0900		TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0850	2.75	2.75	0.25	7.61	4.94	23.7	41	0.5	1.17	-144		
0853	0.75	3.50	0.25	7.64	4.95	23.6	42	0.5	1.60	-148		
0856	0.75	4.25	0.25	7.63	4.95	23.7	42	0.5	1.47	-148		
0859	0.75	5.00	0.25	7.61	4.95	23.7	42	0.5	1.75	-149	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0900	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 56.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB2S	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 6.17	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 146.64		GROUNDWATER ELEVATION (ft NGVD): 140.47		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 0909	PURGING ENDED AT: 0929	TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0919	2.0	2.0	0.20	6.53	4.82	27.5	30	0.9	93.46	20		
0922	0.6	2.6	0.20	6.50	4.76	27.5	28	0.9	96.51	22		
0925	0.6	3.2	0.20	6.46	4.73	27.5	28	0.9	98.70	22		
0928	0.6	3.8	0.20	6.43	4.73	27.5	28	0.9	95.31	23	BROWN	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0929	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: (Y) (N) µm Filtration Equipment Type: IN LINE	FILTER SIZE: 1.00 micron
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 33S	SAMPLE ID:		DATE:

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10.3 feet to 20.3 feet	STATIC DEPTH TO WATER (feet): 9.50	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.90		GROUNDWATER ELEVATION (ft NGVD): 116.40		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.30 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30	PURGING INITIATED AT: 1554	PURGING ENDED AT: 1619	TOTAL VOLUME PURGED (gallons): 4.14

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1610	2.52	2.52	0.18	9.78	5.81	28.0	301	0.4	4.78	-134		
1613	0.54	3.06	0.18	9.80	5.80	27.9	299	0.3	3.73	-136		
1616	0.54	3.60	0.18	9.81	5.80	27.9	296	0.3	3.60	-134		
1619	0.54	4.14	0.18	9.82	5.79	27.9	292	0.4	3.22	-131	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMSEYAW / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramseyaw	SAMPLING INITIATED AT: 1620	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.30	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 27S	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10.5 feet to 15.5 feet	STATIC DEPTH TO WATER (feet): 6.20		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.42			GROUNDWATER ELEVATION (ft NGVD): 122.22		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 15.50 feet) + 0.05 gallons = 0.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50	PURGING INITIATED AT: 0750	PURGING ENDED AT: 0814		TOTAL VOLUME PURGED (gallons): 4.08

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0802	2.04	2.04	0.17	6.50	6.50	23.3	74	0.10	20.9	-33.5		
0805	0.51	2.55	0.17	6.50	6.50	23.3	76	0.10	17.6	-32.5		
0808	0.51	3.06	0.17	6.50	6.50	23.3	76	0.10	15.4	-32.2		
0811	0.51	3.57	0.17	6.50	6.50	23.3	76	0.10	13.3	-35.3		
0814	0.51	4.08	0.17	6.50	6.50	23.3	76	0.10	12.8	-33.1	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 0815	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 13.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW B27I	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 52.5 feet to 62.5 feet	STATIC DEPTH TO WATER (feet): 4.70	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 128.63 | GROUNDWATER ELEVATION (ft NGVD): 123.93

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 62.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50	PURGING INITIATED AT: 0822	PURGING ENDED AT: 0842	TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0830	1.60	1.60	0.20	4.81	5.54	23.9	47	0.2	4.92	-118		
0834	0.80	2.40	0.20	4.80	5.55	24.1	48	0.2	0.99	-119		
0838	0.80	3.20	0.20	4.81	5.59	24.1	48	0.2	0.71	-121		
0842	0.80	4.00	0.20	4.81	5.61	24.1	48	0.2	0.65	-122	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 0843	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 57.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C.O.C. AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 27D	SAMPLE ID: DUP01		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 100 feet to 110 feet	STATIC DEPTH TO WATER (feet): 5.11	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.88			GROUNDWATER ELEVATION (ft NGVD): 123.77	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 110.00 feet) + 0.05 gallons = 1.01 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105.00	PURGING INITIATED AT: 0851	PURGING ENDED AT: 0917	TOTAL VOLUME PURGED (gallons): 5.72

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0902	2.42	2.42	0.22	5.86	5.88	24.3	75	0.9	0.47	-12.5		
0907	1.10	3.52	0.22	5.92	5.82	24.4	71	0.4	0.43	-65.9		
0912	1.10	4.62	0.22	5.97	5.81	24.5	70	0.3	0.39	-69.0		
0917	1.10	5.72	0.22	6.00	5.85	24.3	72	0.2	0.37	-71.1	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 0918	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 105.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
COMPLETED DUP01 @ MWB27D

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWD 31D	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 119 feet to 129 feet	STATIC DEPTH TO WATER (feet): 16.55	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 156.15			GROUNDWATER ELEVATION (ft NGVD): 139.60	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 129.00 feet) + 0.05 gallons = 1.12 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 124.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 124.00	PURGING INITIATED AT: 0935	PURGING ENDED AT: 1003		TOTAL VOLUME PURGED (gallons): 5.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0945	2.00	2.00	0.20	18.94	6.72	23.7	366	0.1	1.31	-91.6		
0951	1.20	3.20	0.20	18.97	6.70	23.8	359	0.1	1.21	-94.0		
0957	1.20	4.40	0.20	19.00	6.69	23.7	357	0.1	1.18	-87.1		
1003	1.20	5.60	0.20	19.05	6.71	24.0	355	0.1	1.11	-83.8	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1004	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 124.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 17S	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 13.3 feet to 18.3 feet	STATIC DEPTH TO WATER (feet): 5.71	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.31		GROUNDWATER ELEVATION (ft NGVD): 132.61		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 18.30 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.80	PURGING INITIATED AT: 1017	PURGING ENDED AT: 1041	TOTAL VOLUME PURGED (gallons): 4.08

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1029	2.04	2.04	0.17	6.81	5.52	26.8	76	1.9	14.9	-68.0		
1032	0.51	2.55	0.17	6.83	5.55	26.7	78	1.8	12.7	-68.7		
1035	0.51	3.06	0.17	6.84	5.56	26.8	79	1.8	10.0	-71.3		
1038	0.51	3.57	0.17	6.86	5.58	26.7	80	1.8	9.89	-71.6		
1041	0.51	4.08	0.17	6.89	5.60	26.8	80	1.7	9.56	-73.6	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1042	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.80	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB17D	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 117.32 feet to 127.32 feet	STATIC DEPTH TO WATER (feet): 6.42		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.52			GROUNDWATER ELEVATION (ft NGVD): 132.10		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 127.32 feet) + 0.05 gallons = 1.1 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 122.32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 122.32	PURGING INITIATED AT: 1048	PURGING ENDED AT: 1114	TOTAL VOLUME PURGED (gallons): 4.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1056	1.60	1.60	0.20	7.35	5.56	27.1	51	0.1	0.44	-65.1		
1102	1.20	2.80	0.20	7.43	5.56	26.8	50	0.1	0.40	-70.4		
1108	1.20	4.00	0.20	7.47	5.56	26.8	50	0.1	0.38	-71.5		
1114	1.20	4.20	0.20	7.50	5.55	26.9	50	0.1	0.31	-72.4	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1115	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 17I	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 50.13 feet to 60.13 feet	STATIC DEPTH TO WATER (feet): 2.42	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 138.43		GROUNDWATER ELEVATION (ft NGVD): 136.01		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 60.13 feet) + 0.05 gallons = 0.71 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.13	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1148	TOTAL VOLUME PURGED (gallons): 5.32

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1132	2.28	2.28	0.19	2.42	5.11	27.2	28	0.2	1.86	-75.6		
1136	0.76	3.04	0.19	2.42	5.11	27.2	27	0.1	1.10	-78.1		
1140	0.76	3.80	0.19	2.42	5.11	26.9	27	0.1	1.00	-80.5		
1144	0.76	4.56	0.19	2.42	5.12	26.6	27	0.1	0.89	-81.9		
1148	0.76	5.32	0.19	2.42	5.11	26.9	27	0.1	0.81	-81.4	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1149	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 55.13	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE	SAMPLE	C.O.C.	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB7S	SAMPLE ID:		DATE: 07/20/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 10.0 feet to 20.0 feet	STATIC DEPTH TO WATER (feet): 7.15	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 123.29		GROUNDWATER ELEVATION (ft NGVD): 116.14		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1213	PURGING ENDED AT: 1231	TOTAL VOLUME PURGED (gallons): 3.06

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1222	1.53	1.53	0.17	7.28	5.31	27.7	160	0.1	15.3	-62.7		
1225	0.51	2.04	0.17	7.28	5.28	27.8	156	0.0	14.3	-70.6		
1228	0.51	2.55	0.17	7.28	5.29	27.7	158	0.0	14.4	-76.6		
1231	0.51	3.06	0.17	7.28	5.29	27.7	158	0.0	14.0	-78.2	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1232	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB12S	SAMPLE ID:		DATE: 7.20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 14.5 feet to 24.5 feet	STATIC DEPTH TO WATER (feet): 9.82	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.63		GROUNDWATER ELEVATION (ft NGVD): 114.81		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 24.50 feet) + 0.05 gallons = 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50	PURGING INITIATED AT: 1458	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (gallons): 3.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1507	1.62	1.62	0.18	10.24	5.79	27.3	206	0.6	14.49	-75		
1510	0.54	2.16	0.18	10.20	5.74	27.2	207	0.6	13.77	-71		
1513	0.54	2.70	0.18	10.21	5.75	27.2	207	0.6	14.23	-68		
1516	0.54	3.24	0.18	10.24	5.74	27.2	207	0.6	15.44	-64		
1519	0.54	3.78	0.18	10.23	5.74	27.2	208	0.6	14.71	-62	NONE	
											To Slt	
											Yellow	
											brown	
											tint	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1520	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 19.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB13I	SAMPLE ID:		DATE: 7-20-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 50.4 feet to 60.4 feet	STATIC DEPTH TO WATER (feet): 17.58	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 125.98 GROUNDWATER ELEVATION (ft NGVD): 108.40

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 60.40 feet) + 0.05 gallons = 0.71 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.40	PURGING INITIATED AT: 1540	PURGING ENDED AT: 1602	TOTAL VOLUME PURGED (gallons): 5.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1552	2.75	2.75	0.25	17.81	5.36	26.1	39	0.3	3.66	-175		
1555	0.75	3.50	0.25	17.80	5.35	25.9	39	0.4	4.71	-176		
1558	0.75	4.25	0.25	17.83	5.33	25.9	38	0.3	4.37	-177		
1601	0.75	5.00	0.25	17.77	5.32	25.9	38	0.3	4.46	-175	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1602	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 55.40	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW13S	SAMPLE ID:		DATE: 7-21-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 16.56 feet to 26.56 feet	STATIC DEPTH TO WATER (feet): 12.60	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 126.06		GROUNDWATER ELEVATION (ft NGVD): 113.46		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 26.56 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.56	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.56	PURGING INITIATED AT: 0850	PURGING ENDED AT: 0909	TOTAL VOLUME PURGED (gallons): 3.23

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0859	1.53	1.53	0.17	13.31	5.66	25.9	312	1.0	16.41	48		
0902	0.51	2.04	0.17	13.28	5.63	25.9	311	1.1	13.76	45		
0905	0.51	2.55	0.17	13.33	5.63	25.9	313	1.0	18.21	43		
0908	0.51	3.06	0.17	13.35	5.62	25.9	312	1.0	19.32	43	SLT BROWN	
											TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.66; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0909	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 21.56	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 32S	SAMPLE ID:		DATE: 07/21/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 14.9 feet to 19.9 feet	STATIC DEPTH TO WATER (feet): 7.62	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.64			GROUNDWATER ELEVATION (ft NGVD): 116.98	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 19.90 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.40	PURGING INITIATED AT: 1047	PURGING ENDED AT: 1108	TOTAL VOLUME PURGED (gallons): 4.08

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1059	2.04	2.04	0.17	9.78	6.04	25.3	450	0.1	20.2	36.9		
1102	0.68	2.72	0.17	9.79	6.08	25.5	451	0.1	16.7	20.9		
1105	0.68	3.40	0.17	9.82	6.11	25.6	458	0.1	15.1	20.0		
1108	0.68	4.08	0.17	9.84	6.13	25.7	455	0.1	13.3	20.9	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMKANAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramkanan	SAMPLING INITIATED AT: 1109	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 17.40	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 32I DUP03	SAMPLE ID:		DATE: 7-21-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 54.56 feet to 64.56 feet	STATIC DEPTH TO WATER (feet): 6.58	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.79		GROUNDWATER ELEVATION (ft NGVD): 118.21		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 64.56 feet) + 0.05 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1218		TOTAL VOLUME PURGED (gallons): 11.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1150	6.00	6.00	0.20	6.68	5.44	25.7	39	0.4	24.3	-4.4		
1154	0.80	6.80	0.20	6.68	5.43	26.0	39	0.4	22.5	-7.4		
1158	0.80	7.60	0.20	6.68	5.44	26.0	38	0.4	21.3	-11.7		
1202	0.80	8.40	0.20	6.68	5.43	25.5	38	0.3	18.1	-12.1		
1206	0.80	9.20	0.20	6.68	5.44	25.6	38	0.3	17.1	-14.4		
1210	0.80	10.00	0.20	6.68	5.44	25.6	38	0.3	16.4	-13.9		
1214	0.80	10.80	0.20	6.68	5.43	26.0	38	0.3	15.8	-14.2		
1218	0.80	11.60	0.20	6.68	5.45	25.2	38	0.3	12.1	-22.8	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1219	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 59.56	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
COMPLETED DUP03 & MWB32I

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MW B 32 D	SAMPLE ID:		DATE: 07/21/2010

PURGING DATA

WELL DIAMETER (Inches): 2	TUBING DIAMETER (Inches): 3/8	WELL SCREEN INTERVAL DEPTH: 98.81 feet to 108.81 feet	STATIC DEPTH TO WATER (feet): 6.89	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.93			GROUNDWATER ELEVATION (ft NGVD): 118.04	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 108.81 feet) + 0.05 gallons = 1.00 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 103.81	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 103.81	PURGING INITIATED AT: 1014	PURGING ENDED AT: 1042	TOTAL VOLUME PURGED (gallons): 4.18

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1024	1.90	1.90	0.19	7.12	5.72	26.1	65	1.6	2.87	20.1		
1030	0.76	2.66	0.19	7.14	5.71	26.2	66	1.5	1.46	18.1		
1036	0.76	3.42	0.19	7.15	5.73	26.3	69	1.5	1.42	18.5		
1042	0.76	4.18	0.19	7.17	5.75	26.5	70	1.5	1.41	18.2	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMJEAWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramjeawan	SAMPLING INITIATED AT: 1043	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 103.81	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 34S	SAMPLE ID:		DATE: 07/21/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 13.36 feet to 18.36 feet	STATIC DEPTH TO WATER (feet): 8.54	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.78			GROUNDWATER ELEVATION (ft NGVD): 117.24	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 18.36 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.86	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.86	PURGING INITIATED AT: 0933	PURGING ENDED AT: 0958	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0946	2.34	2.34	0.18	10.90	6.16	26.3	968	0.0	1.36	-71.6		
0949	0.54	2.88	0.18	10.93	6.14	26.7	960	0.0	0.20	-56.7		
0952	0.54	3.42	0.18	10.95	6.14	26.8	955	0.0	0.62	-54.9		
0955	0.54	3.96	0.18	10.98	6.14	26.9	953	0.1	0.39	-49.5		
0958	0.54	4.50	0.18	11.01	6.14	26.9	950	0.1	0.33	-45.7	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMSEWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramsewan	SAMPLING INITIATED AT: 0959	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.86	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB34I	SAMPLE ID:		DATE: 7-21-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 43.95 feet to 53.95 feet	STATIC DEPTH TO WATER (feet): 8.40		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.80			GROUNDWATER ELEVATION (ft NGVD): 117.40		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 53.95 feet) + 0.05 gallons = 0.67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 48.95	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 48.95	PURGING INITIATED AT: 1202	PURGING ENDED AT: 1228		TOTAL VOLUME PURGED (gallons): 6.24

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1215	3.12	3.12	0.24	8.38	5.49	27.3	46	0.4	6.06	-132		
1218	0.72	3.84	0.24	8.41	5.42	27.3	46	0.4	6.20	-132		
1221	0.72	4.56	0.24	8.40	5.47	27.3	46	0.4	5.69	-134		
1224	0.72	5.28	0.24	8.42	5.48	27.4	46	0.4	5.91	-134		
1227	0.72	6.00	0.24	8.40	5.44	27.2	46	0.4	4.89	-134	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1228	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 48.95	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET									

REMARKS:
COMPLETED DUP@ @ MWB34I

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB 34 D	SAMPLE ID:		DATE: 07/21/2010

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 90.78 feet to 100.78 feet	STATIC DEPTH TO WATER (feet): 8.63		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 125.92			GROUNDWATER ELEVATION (ft NGVD): 117.29		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 100.78 feet) + 0.05 gallons = 0.95 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 95.78	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 95.78	PURGING INITIATED AT: 0856	PURGING ENDED AT: 0923		TOTAL VOLUME PURGED (gallons): 5.67

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0908	2.52	2.52	0.21	8.92	7.02	25.5	421	0.1	1.05	-22.7		
0913	1.05	3.57	0.21	8.93	7.02	25.6	420	0.1	0.41	-21.9		
0918	1.05	4.62	0.21	8.95	7.03	25.4	421	0.1	0.37	-20.5		
0923	1.05	5.67	0.21	8.97	7.06	25.5	421	0.1	0.32	-21.0	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMSEWAN / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramseawan	SAMPLING INITIATED AT: 0924	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 95.78	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FIELD BLANK	SAMPLE ID:		DATE: 7-21-10

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD):		GROUNDWATER ELEVATION (ft NGVD):		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X NA feet) + 0.05 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1253	NA	NA	NA	NA	6.58	27.4	3	4.9	0.00		NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1253	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SAMPLE IS A FIELD BLANK COMPLETED WITH DISTILLED WATER PURCHASED LOCALLY

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9229
Baton Rouge (504) 293-0136
Jacksonville (904) 693-3177
Houston (208) 441-7606
Pittsburgh (412) 746-8823

FACILITY NAME: TRAIL RIDGE

?TH TO WATER
EASUREMENTS

DATE: 7-20-10

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB2S	6.17
MWB2I	7.63
MWB30S	7.39
MWB29S	7.10
MWB29I	3.72
MWB29D	3.96
MWB28S	6.65
MWB27S	6.20
MWB27I	4.70
MWB27D	5.11
MWB26S	6.59
MWB25S	7.44
MWB25I	5.14
MWB25D	5.23
MWB24S	6.69
MWB14S	12.88
MWB14I	9.79

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB14D	9.70
MWB23S	14.23
MWB13S	12.54
MWB13I	17.58
MWB22S	11.24
MWB12S	9.82
MWB12I	7.30
MWB12D	4.58
MWB11S	10.78
MWB11I (R)	11.20
MWB20S	6.84
MWB7S	7.15
MWB7I	3.30
MWB7D	~~7.15~~ 0.78
MWB31D	~~0.78~~ 16.55
MWB3S	7.75
MWB3I	12.32

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
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Baton Rouge (504) 293-0136
Jacksonville (904) 693-8177
Houston (208) 441-7696
Pittsburgh (412) 746-8823

FACILITY NAME: TRAIL RIDGE

?TH TO WATER
EASUREMENTS

DATE: 7-20-10

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB16S	5.70
MWB17S	5.71
MWB17I	2.42
MWB17D	6.42
MWB18S	5.64
MWB19S	6.06
MWB19I	6.82
MWB19D	6.58
MWB34S	8.52
MWB34I	8.38
MWB34D	8.63
MWB33S	9.50
MWB32S	7.61
MWB32I	6.54
MWB32D	6.85
MWB21S	10.40

MONITORING LOCATION	DEPTH TO WATER (ft TOC)

WELL CONDITION SUMMARY

Site: TRAIL RIDGE

Personnel: DAN ARMOUR / BEN RAMJEANAN

Date: 7-20-10

Page 1 of 4

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MWB 2S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB2I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB30S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB29S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB29I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB29D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB27S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB27I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☐ Yes ☒ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	NEEDS A NEW LOCK
MWB27D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☐ Yes ☒ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	NEEDS A NEW LOCK
MWB13S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.
Return this form to site manager and/or Complaince Manager/Engineer

WELL CONDITION SUMMARY

Site: TRAIL RIDGE

Personnel: DAN ARMOUR / BEN RAMJEAKAN

Date: 7-20-10

Page 2 of 4

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MWB 13 I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 17S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 17 I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 17 D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 3S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 3 I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 3 D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 34S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 34 I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 34 D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.

Return this form to site manager and/or Complaince Manager/Engineer

WELL CONDITION SUMMARY

Site: TRAIL RIDGE

Personnel: DAN ARMOUR / BEN RAMJEAHAN

Date: 7-20-10

Page 3 of 4

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations*
MWB 2.OS	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 7 S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 7 I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 7 D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 19 S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 19 I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 19 D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 32 S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB 32 I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☒ Turbid	☒ OK ☐ Inadequate	SLIGHTLY CLOUDY
MWB 32 D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.
Return this form to site manager and/or Complaince Manager/Engineer

WASTE MANAGEMENT

WELL CONDITION SUMMARY

Site: TRAIL RIDGE

Personnel: DAN ARMOUR / BEN RAMJEAWAN

Date: 7-20-10

Page 4 of 4

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MWB33S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB21S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB12S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB12I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB12D	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.
Return this form to site manager and/or Complaince Manager/Engineer

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 INSTRUMENT # 725490

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☐ TURBIDITY ☐ RESIDUAL Cl ☒ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A SATURATED AIR

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/07/20	0600	A	8.158	8.09	0.07	YES	INIT	DA
10/07/21	0700	A	8.128	8.08	0.05	YES	CONT	DA

Table FS 2200-2
Dissolved Oxygen Saturation

TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L
deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%
15.0	10.084	2.017	19.0	9.276	1.855	23.0	8.578	1.716	27.0	7.968	1.594
15.1	10.062	2.012	19.1	9.258	1.852	23.1	8.562	1.712	27.1	7.954	1.591
15.2	10.040	2.008	19.2	9.239	1.848	23.2	8.546	1.709	27.2	7.940	1.588
15.3	10.019	2.004	19.3	9.220	1.844	23.3	8.530	1.706	27.3	7.926	1.585
15.4	9.997	1.999	19.4	9.202	1.840	23.4	8.514	1.703	27.4	7.912	1.582
15.5	9.976	1.995	19.5	9.184	1.837	23.5	8.498	1.700	27.5	7.898	1.580
15.6	9.955	1.991	19.6	9.165	1.833	23.6	8.482	1.696	27.6	7.884	1.577
15.7	9.934	1.987	19.7	9.147	1.829	23.7	8.466	1.693	27.7	7.870	1.574
15.8	9.912	1.982	19.8	9.129	1.826	23.8	8.450	1.690	27.8	7.856	1.571
15.9	9.891	1.978	19.9	9.111	1.822	23.9	8.434	1.687	27.9	7.842	1.568
16.0	9.870	1.974	20.0	9.092	1.818	24.0	8.418	1.684	28.0	7.828	1.566
16.1	9.849	1.970	20.1	9.074	1.815	24.1	8.403	1.681	28.1	7.814	1.563
16.2	9.829	1.966	20.2	9.056	1.811	24.2	8.387	1.677	28.2	7.800	1.560
16.3	9.808	1.962	20.3	9.039	1.808	24.3	8.371	1.674	28.3	7.786	1.557
16.4	9.787	1.957	20.4	9.021	1.804	24.4	8.356	1.671	28.4	7.773	1.555
16.5	9.767	1.953	20.5	9.003	1.801	24.5	8.340	1.668	28.5	7.759	1.552
16.6	9.746	1.949	20.6	8.985	1.797	24.6	8.325	1.665	28.6	7.745	1.549
16.7	9.726	1.945	20.7	8.968	1.794	24.7	8.309	1.662	28.7	7.732	1.546
16.8	9.705	1.941	20.8	8.950	1.790	24.8	8.294	1.659	28.8	7.718	1.544
16.9	9.685	1.937	20.9	8.932	1.786	24.9	8.279	1.656	28.9	7.705	1.541
17.0	9.665	1.933	21.0	8.915	1.783	25.0	8.263	1.653	29.0	7.691	1.538
17.1	9.645	1.929	21.1	8.898	1.780	25.1	8.248	1.650	29.1	7.678	1.536
17.2	9.625	1.925	21.2	8.880	1.776	25.2	8.233	1.647	29.2	7.664	1.533
17.3	9.605	1.921	21.3	8.863	1.773	25.3	8.218	1.644	29.3	7.651	1.530
17.4	9.585	1.917	21.4	8.846	1.769	25.4	8.203	1.641	29.4	7.638	1.528
17.5	9.565	1.913	21.5	8.829	1.766	25.5	8.188	1.638	29.5	7.625	1.525
17.6	9.545	1.909	21.6	8.812	1.762	25.6	8.173	1.635	29.6	7.611	1.522
17.7	9.526	1.905	21.7	8.794	1.759	25.7	8.158	1.632	29.7	7.598	1.520
17.8	9.506	1.901	21.8	8.777	1.755	25.8	8.143	1.629	29.8	7.585	1.517
17.9	9.486	1.897	21.9	8.761	1.752	25.9	8.128	1.626	29.9	7.572	1.514
18.0	9.467	1.893	22.0	8.744	1.749	26.0	8.114	1.623	30.0	7.559	1.512
18.1	9.448	1.890	22.1	8.727	1.745	26.1	8.099	1.620	30.1	7.546	1.509
18.2	9.428	1.886	22.2	8.710	1.742	26.2	8.084	1.617	30.2	7.533	1.507
18.3	9.409	1.882	22.3	8.693	1.739	26.3	8.070	1.614	30.3	7.520	1.504
18.4	9.390	1.878	22.4	8.677	1.735	26.4	8.055	1.611	30.4	7.507	1.501
18.5	9.371	1.874	22.5	8.660	1.732	26.5	8.040	1.608	30.5	7.494	1.499
18.6	9.352	1.870	22.6	8.644	1.729	26.6	8.026	1.605	30.6	7.481	1.496
18.7	9.333	1.867	22.7	8.627	1.725	26.7	8.012	1.602	30.7	7.468	1.494
18.8	9.314	1.863	22.8	8.611	1.722	26.8	7.997	1.599	30.8	7.456	1.491
18.9	9.295	1.859	22.9	8.595	1.719	26.9	7.983	1.597	30.9	7.443	1.489

Derived using the formula in Standard Methods for the Examination of Water and Wastewater, Page 4-101, 18th Edition, 1992

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HFSCIENTIFIC MICRO TPI INSTRUMENT # 200710329

PARAMETER: *[check only one]*

- ☐ TEMPERATURE
- ☐ CONDUCTIVITY
- ☐ SALINITY
- ☐ pH
- ☐ ORP
- ☒ TURBIDITY
- ☐ RESIDUAL Cl
- ☐ DO
- ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000NTU HFSCIENTIFIC LOT# 90504 EXP: NOV 2010

Standard B 10.0NTU HFSCIENTIFIC LOT# 90534 EXP: NOV 2010

Standard C 0.02 NTU HFSCIENTIFIC LOT# 90501 EXP: NOV 2010

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/09/20	0600	A	1000	AUTO CALIB	–	YES	INIT	DSA
		B	10	"	–	YES	INIT	DSA
		C	0.02	"	–	YES	INIT	DSA
10/09/21	0700	A	1000	AUTO CALIB	–	YES	CONT	DSA
		B	10	"	–	YES	CONT	DSA
		C	0.02	"	–	YES	CONT	DSA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 **INSTRUMENT #** 725490

PARAMETER: *[check only one]*

- ☐ TEMPERATURE
- ☒ CONDUCTIVITY
- ☐ SALINITY
- ☐ pH
- ☐ ORP
- ☐ TURBIDITY
- ☐ RESIDUAL Cl
- ☐ DO
- ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 84 µS/cm PINE ENVIRONMENTAL

Standard B 1413 µS/cm PINE ENVIRONMENTAL

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/07/20	0600	A	84	AUTOCAL	–	YES	INIT	DA
10/07/20	0600	B	1413	"	–	YES	INIT	DA
10/08/21	0700	A	84	AUTOCAL	–	YES	CONT	DA
10/08/21	0700	B	1413	"	–	YES	CONT	DA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 INSTRUMENT # 725490

PARAMETER: *[check only one]*

- ☐ TEMPERATURE
- ☐ CONDUCTIVITY
- ☐ SALINITY
- ☒ pH
- ☐ ORP
- ☐ TURBIDITY
- ☐ RESIDUAL Cl
- ☐ DO
- ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A HANNA CAL. SOLUTION 7.01 (std) EXP: 04/2013

Standard B HANNA CAL SOLUTION 4.01 (std) EXP: 04/2013

Standard C HANNA CAL SOLUTION 10.01 (std) EXP: 04/2013

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/09/20	0600	A	7.01	AUTO CAL	–	YES	INIT	DCA
|	|	B	4.01	|	–	YES	INIT	DCA
|	|	C	10.01	|	–	YES	INIT	DCA
10/27/21	0700	A	7.01	AUTO CAL	–	YES	CONT	DCA
|	|	B	4.01	|	–	YES	CONT	DCA
|	|	C	10.01	|	–	YES	CONT	DCA

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HI9828 INSTRUMENT # 08103272

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☒ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A SATURATED AIR

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/09/20	0600	A	8.188	8.09	0.10	YES	INIT	BR
10/09/21	0700	A	8.173	8.12	0.05	YES	CONT	BR

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI9828 INSTRUMENT # 08103272

PARAMETER: *[check only one]*

- ☐ TEMPERATURE
- ☐ CONDUCTIVITY
- ☐ SALINITY
- ☒ pH
- ☐ ORP
- ☐ TURBIDITY
- ☐ RESIDUAL Cl
- ☐ DO
- ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A HANNA 7.01 (std) Exp: 04/2013

Standard B HANNA 4.01 (std) Exp: 04/2013

Standard C HANNA 10.01 (std) Exp: 04/2013

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/09/20	0600	A	7.01	AUTOCAL	—	YES	INIT	BR
|	|	B	4.01	|	—	YES	INIT	BR
|	|	C	10.01	|	—	YES	INIT	BR
10/09/21	0700	A	7.01	AUTO CAL	—	YES	CONT	BR
|	|	B	4.01	|	—	YES	CONT	BR
|	|	C	10.01	|	—	YES	CONT	BR

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPW INSTRUMENT # _____

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000 NTU HF SCIENTIFIC LOT# 90504 EXP: NOV 2010

Standard B 10.0 NTU HF SCIENTIFIC LOT# 90534 EXP: NOV 2010

Standard C 0.02 NTU HF SCIENTIFIC LOT# 90501 EXP: NOV 2010

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV.	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/04/20	0600	A	1000	AUTOCALIB	–	YES	INIT	BR
|	|	B	10	|	–	YES	INIT	BR
|	|	C	0.02	|	–	YES	INIT	BR
10/07/21	0700	A	1000	AUTO CALIB	–	YES	CONT	BR
|	|	B	10	|	–	YES	CONT	BR
|	|	C	0.02	|	–	YES	CONT	BR

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HANNA HI 9828 **INSTRUMENT #** 08103272

PARAMETER: *[check only one]*

- ☐ TEMPERATURE
- ☒ CONDUCTIVITY
- ☐ SALINITY
- ☐ pH
- ☐ ORP
- ☐ TURBIDITY
- ☐ RESIDUAL Cl
- ☐ DO
- ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 84 mS/cm PINE ENVIRONMENTAL

Standard B 1413 mS/cm PINE ENVIRONMENTAL

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/09/20	0600	A	84	AUTO CAL	–	YES	INIT	BR
10/09/20	0600	B	1413	"	–	YES	INIT	BR
10/09/21	0700	A	84	AUTO CAL	–	YES	CONT	BR
10/09/21	0700	B	1413	"	–	YES	CONT	BR

Appendix B

Laboratory Report – Surface Water Sample Points

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

August 23, 2010

Service Request No: J1003437

Handi Wang
HDR Engineering
200 W. Forsyth Street, Suite 800
Jacksonville, FL 32202

Laboratory Results for: Trail Ridge

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on July 21, 2010. For your reference, these analyses have been assigned our service request number **J1003437**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. 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 contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	HDR Engineering	**Service Request No.:**	J1003437
Project:	Trail Ridge	**Date Received:**	7/21/10
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, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Three water samples and one trip blank were received for analysis at Columbia Analytical Services on 7/21/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. The following observations were made regarding this delivery group.

Second Source Exceptions

The upper control criterion was exceeded for the following analytes in the Second Source Verification (SSV): 1,2-Dibromoethane (EDB) and 1,2-Dibromo-3-chloropropane (DBCP). The field samples analyzed in this sequence did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Approved by _____ **Date** 8/23/10

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. The following observations were made regarding this delivery group.

Method Blank Exceptions

Method Blank J1003437-MB contained a low level of Total Phosphorus above the Method Detection Limit (MDL), but less than the Method Reporting Limit (MRL). Some of the samples for project J1003437 exhibited this analyte in approximately the same concentration as the method blank. The data is flagged with a qualifier to indicate the results are estimated values. The method blank results may indicate the potential for a false positive.

Approved by_____ **Date** 8/23/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

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.

Client:
Project: Trail Ridge

Service Request: J1003437

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1003437-001	SW-1	7/21/10	10:50
J1003437-002	SW-2	7/21/10	10:30
J1003437-003	SW-3	7/21/10	10:10
J1003437-004	Trip Blank	7/21/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: SW-1
Lab Code: J1003437-001

Service Request: J1003437
Date Collected: 7/21/10 1050
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 17:58		210050
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 17:58		210050
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 17:58		210050
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 17:58		210050
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 17:58		210050
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 17:58		210050
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 17:58		210050
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 17:58		210050
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 17:58		210050
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 17:58		210050
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 17:58		210050
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 17:58		210050
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 17:58		210050
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 17:58		210050
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 17:58		210050
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 17:58		210050
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 17:58		210050
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 17:58		210050
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 17:58		210050
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 17:58		210050
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 17:58		210050
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 17:58		210050
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 17:58		210050
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 17:58		210050
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 17:58		210050
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 17:58		210050
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 17:58		210050
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 17:58		210050
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 17:58		210050
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 17:58		210050
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 17:58		210050
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 17:58		210050
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 17:58		210050
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 17:58		210050
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 17:58		210050
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 17:58		210050

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: SW-1
Lab Code: J1003437-001

Service Request: J1003437
Date Collected: 7/21/10 1050
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 17:58		210050
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 17:58		210050
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 17:58		210050
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 17:58		210050
Toluene	**0.450**	I	1.00	0.190	1	NA	7/27/10 17:58		210050
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 17:58		210050
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 17:58		210050
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 17:58		210050
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 17:58		210050
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 17:58		210050
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 17:58		210050
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 17:58		210050

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	99	71-122	7/27/10 17:58	
4-Bromofluorobenzene	99	75-120	7/27/10 17:58	
Dibromofluoromethane	99	82-116	7/27/10 17:58	
Toluene-d8	104	88-117	7/27/10 17:58	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: SW-2
Lab Code: J1003437-002

Service Request: J1003437
Date Collected: 7/21/10 1030
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 18:26		210050
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 18:26		210050
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 18:26		210050
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 18:26		210050
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 18:26		210050
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 18:26		210050
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 18:26		210050
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 18:26		210050
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 18:26		210050
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 18:26		210050
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 18:26		210050
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 18:26		210050
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 18:26		210050
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 18:26		210050
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 18:26		210050
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 18:26		210050
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 18:26		210050
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 18:26		210050
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 18:26		210050
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 18:26		210050
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 18:26		210050
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 18:26		210050
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 18:26		210050
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 18:26		210050
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 18:26		210050
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 18:26		210050
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 18:26		210050
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 18:26		210050
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 18:26		210050
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 18:26		210050
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 18:26		210050
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 18:26		210050
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 18:26		210050
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 18:26		210050
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 18:26		210050
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 18:26		210050

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: SW-2
Lab Code: J1003437-002

Service Request: J1003437
Date Collected: 7/21/10 1030
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 18:26		210050
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 18:26		210050
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 18:26		210050
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 18:26		210050
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 18:26		210050
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 18:26		210050
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 18:26		210050
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 18:26		210050
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 18:26		210050
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 18:26		210050
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 18:26		210050
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 18:26		210050

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	71-122	7/27/10 18:26	
4-Bromofluorobenzene	103	75-120	7/27/10 18:26	
Dibromofluoromethane	100	82-116	7/27/10 18:26	
Toluene-d8	105	88-117	7/27/10 18:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: SW-3
Lab Code: J1003437-003

Service Request: J1003437
Date Collected: 7/21/10 1010
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 18:53		210050
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 18:53		210050
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 18:53		210050
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 18:53		210050
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 18:53		210050
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 18:53		210050
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 18:53		210050
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 18:53		210050
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 18:53		210050
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 18:53		210050
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 18:53		210050
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 18:53		210050
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 18:53		210050
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 18:53		210050
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 18:53		210050
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 18:53		210050
Acetone	**5.74**	I	50.0	5.60	1	NA	7/27/10 18:53		210050
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 18:53		210050
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 18:53		210050
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 18:53		210050
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 18:53		210050
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 18:53		210050
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 18:53		210050
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 18:53		210050
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 18:53		210050
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 18:53		210050
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 18:53		210050
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 18:53		210050
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 18:53		210050
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 18:53		210050
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 18:53		210050
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 18:53		210050
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 18:53		210050
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 18:53		210050
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 18:53		210050
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 18:53		210050

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: SW-3
Lab Code: J1003437-003

Service Request: J1003437
Date Collected: 7/21/10 1010
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 18:53		210050
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 18:53		210050
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 18:53		210050
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 18:53		210050
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 18:53		210050
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 18:53		210050
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 18:53		210050
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 18:53		210050
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 18:53		210050
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 18:53		210050
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 18:53		210050
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 18:53		210050

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	71-122	7/27/10 18:53	
4-Bromofluorobenzene	103	75-120	7/27/10 18:53	
Dibromofluoromethane	99	82-116	7/27/10 18:53	
Toluene-d8	105	88-117	7/27/10 18:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: Trip Blank
Lab Code: J1003437-004

Service Request: J1003437
Date Collected: 7/21/10 0000
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 19:20		210050
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 19:20		210050
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 19:20		210050
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 19:20		210050
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 19:20		210050
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 19:20		210050
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 19:20		210050
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 19:20		210050
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 19:20		210050
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 19:20		210050
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 19:20		210050
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 19:20		210050
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 19:20		210050
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 19:20		210050
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 19:20		210050
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 19:20		210050
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 19:20		210050
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 19:20		210050
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 19:20		210050
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 19:20		210050
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 19:20		210050
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 19:20		210050
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 19:20		210050
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 19:20		210050
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 19:20		210050
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 19:20		210050
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 19:20		210050
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 19:20		210050
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 19:20		210050
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 19:20		210050
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 19:20		210050
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 19:20		210050
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 19:20		210050
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 19:20		210050
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 19:20		210050
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 19:20		210050

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 7/21/10 0000
Date Received: 7/21/10

Sample Name: Trip Blank
Lab Code: J1003437-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 19:20		210050
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 19:20		210050
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 19:20		210050
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 19:20		210050
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 19:20		210050
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 19:20		210050
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 19:20		210050
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 19:20		210050
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 19:20		210050
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 19:20		210050
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 19:20		210050
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 19:20		210050

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	71-122	7/27/10 19:20	
4-Bromofluorobenzene	101	75-120	7/27/10 19:20	
Dibromofluoromethane	100	82-116	7/27/10 19:20	
Toluene-d8	105	88-117	7/27/10 19:20	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: JQ1002993-04

Service Request: J1003437
Date Collected: NA
Date Received: NA

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/27/10 11:50		210050
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/27/10 11:50		210050
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/27/10 11:50		210050
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/27/10 11:50		210050
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/27/10 11:50		210050
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/27/10 11:50		210050
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/27/10 11:50		210050
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/27/10 11:50		210050
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/27/10 11:50		210050
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/27/10 11:50		210050
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/27/10 11:50		210050
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/27/10 11:50		210050
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/27/10 11:50		210050
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/27/10 11:50		210050
2-Hexanone	ND	U	25.0	2.20	1	NA	7/27/10 11:50		210050
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/27/10 11:50		210050
Acetone	ND	U	50.0	5.60	1	NA	7/27/10 11:50		210050
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/27/10 11:50		210050
Benzene	ND	U	1.00	0.210	1	NA	7/27/10 11:50		210050
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/27/10 11:50		210050
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/27/10 11:50		210050
Bromoform	ND	U	2.00	0.420	1	NA	7/27/10 11:50		210050
Bromomethane	ND	U	1.00	0.220	1	NA	7/27/10 11:50		210050
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/27/10 11:50		210050
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/27/10 11:50		210050
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/27/10 11:50		210050
Chloroethane	ND	U	5.00	0.220	1	NA	7/27/10 11:50		210050
Chloroform	ND	U	1.00	0.350	1	NA	7/27/10 11:50		210050
Chloromethane	ND	U	1.00	0.110	1	NA	7/27/10 11:50		210050
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/27/10 11:50		210050
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/27/10 11:50		210050
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/27/10 11:50		210050
Dibromomethane	ND	U	5.00	0.180	1	NA	7/27/10 11:50		210050
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/27/10 11:50		210050
Iodomethane	ND	U	5.00	2.68	1	NA	7/27/10 11:50		210050
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/27/10 11:50		210050

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: JQ1002993-04

Service Request: J1003437
Date Collected: NA
Date Received: NA

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/27/10 11:50		210050
o-Xylene	ND	U	1.00	0.140	1	NA	7/27/10 11:50		210050
Styrene	ND	U	1.00	0.291	1	NA	7/27/10 11:50		210050
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/27/10 11:50		210050
Toluene	ND	U	1.00	0.190	1	NA	7/27/10 11:50		210050
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/27/10 11:50		210050
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/27/10 11:50		210050
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/27/10 11:50		210050
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/27/10 11:50		210050
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/27/10 11:50		210050
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/27/10 11:50		210050
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/27/10 11:50		210050

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	71-122	7/27/10 11:50	
4-Bromofluorobenzene	99	75-120	7/27/10 11:50	
Dibromofluoromethane	98	82-116	7/27/10 11:50	
Toluene-d8	101	88-117	7/27/10 11:50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 07/21/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: SW-1
Lab Code: J1003437-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	134	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 07/21/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: SW-2
Lab Code: J1003437-002

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	130	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003437
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	SW-3	**Units:**	ug/L
Lab Code:	J1003437-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/29/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.021	0.0059	1	07/26/10	07/29/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	146	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: NA
Date Received: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: Method Blank
Lab Code: JWG1002568-4

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	07/26/10	07/28/10	JWG1002568	J(3)
1,2-Dibromo-3-chloropropane (DE	ND	UJ	0.020	0.0057	1	07/26/10	07/28/10	JWG1002568	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	07/28/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 7/21/10 1050
Date Received: 7/21/10

Sample Name: SW-1
Lab Code: J1003437-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/28/10	8/2/10 15:15
Arsenic, Total	6020	**0.42**	I	µg/L	0.50	0.14	1	7/28/10	8/2/10 15:15
Barium, Total	6020	**32.3**		µg/L	2.0	0.5	1	7/28/10	8/2/10 15:15
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 15:15
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/28/10	8/2/10 15:15
Chromium, Total	6020	**3.0**		µg/L	2.0	0.6	1	7/28/10	8/2/10 15:15
Cobalt, Total	6020	**0.5**	I	µg/L	1.0	0.2	1	7/28/10	8/2/10 15:15
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/28/10	8/2/10 15:15
Hardness, Total as CaCO3	SM 2340 B	**12.8**		mg/L	1.7		1	NA	
Iron, Total	6010B	**3450**		µg/L	100	10	1	7/29/10	8/1/10 21:50
Lead, Total	6020	**1.4**		µg/L	1.0	0.3	1	7/28/10	8/2/10 15:15
Mercury, Total	7470A	**0.09**	I	µg/L	0.50	0.08	1	7/27/10	7/27/10 17:20
Nickel, Total	6020	**2.0**	I	µg/L	2.0	0.3	1	7/28/10	8/2/10 15:15
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/28/10	8/2/10 15:15
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/28/10	8/2/10 15:15
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/28/10	8/2/10 15:15
Vanadium, Total	6020	**1.2**	I	µg/L	5.0	1.2	1	7/28/10	8/2/10 15:15
Zinc, Total	6020	**8**	I	µg/L	10	3	1	7/28/10	8/2/10 15:15

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 7/21/10 1030
Date Received: 7/21/10

Sample Name: SW-2
Lab Code: J1003437-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/28/10	8/2/10 15:20
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/28/10	8/2/10 15:20
Barium, Total	6020	**94.6**		µg/L	2.0	0.5	1	7/28/10	8/2/10 15:20
Beryllium, Total	6020	**0.5**	I	µg/L	1.0	0.3	1	7/28/10	8/2/10 15:20
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/28/10	8/2/10 15:20
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.6	1	7/28/10	8/2/10 15:20
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/28/10	8/2/10 15:20
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/28/10	8/2/10 15:20
Hardness, Total as CaCO3	SM 2340 B	**8.9**		mg/L	1.7		1	NA	
Iron, Total	6010B	**870**		µg/L	100	10	1	7/29/10	8/1/10 21:55
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 15:20
Mercury, Total	7470A	**0.09**	I	µg/L	0.50	0.08	1	7/27/10	7/27/10 17:22
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	7/28/10	8/2/10 15:20
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/28/10	8/2/10 15:20
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/28/10	8/2/10 15:20
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/28/10	8/2/10 15:20
Vanadium, Total	6020	**2.0**	I	µg/L	5.0	1.2	1	7/28/10	8/2/10 15:20
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/28/10	8/2/10 15:20

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: SW-3
Lab Code: J1003437-003

Service Request: J1003437
Date Collected: 7/21/10 1010
Date Received: 7/21/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**1.6**	I	µg/L	2.0	0.3	1	7/28/10	8/2/10 15:25
Arsenic, Total	6020	**2.47**		µg/L	0.50	0.14	1	7/28/10	8/2/10 15:25
Barium, Total	6020	**32.7**		µg/L	2.0	0.5	1	7/28/10	8/2/10 15:25
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 15:25
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/28/10	8/2/10 15:25
Chromium, Total	6020	**10**		µg/L	2.0	0.6	1	7/28/10	8/2/10 15:25
Cobalt, Total	6020	**0.9**	I	µg/L	1.0	0.2	1	7/28/10	8/2/10 15:25
Copper, Total	6020	**8.0**		µg/L	2.0	0.5	1	7/28/10	8/2/10 15:25
Hardness, Total as CaCO3	SM 2340 B	**144**		mg/L	1.7		1	NA	
Iron, Total	6010B	**2400**		µg/L	100	10	1	7/29/10	8/1/10 21:58
Lead, Total	6020	**32.1**		µg/L	1.0	0.3	1	7/28/10	8/2/10 15:25
Mercury, Total	7470A	**0.15**	I	µg/L	0.50	0.08	1	7/27/10	7/27/10 17:23
Nickel, Total	6020	**6.8**		µg/L	2.0	0.3	1	7/28/10	8/2/10 15:25
Selenium, Total	6020	**1.7**	I	µg/L	5.0	0.9	1	7/28/10	8/2/10 15:25
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/28/10	8/2/10 15:25
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/28/10	8/2/10 15:25
Vanadium, Total	6020	**14.5**		µg/L	5.0	1.2	1	7/28/10	8/2/10 15:25
Zinc, Total	6020	**40**		µg/L	10	3	1	7/28/10	8/2/10 15:25

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1003437-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/28/10	8/2/10 13:09
Arsenic, Total	6020	ND	U	µg/L	0.50	0.14	1	7/28/10	8/2/10 13:09
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	7/28/10	8/2/10 13:09
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 13:09
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/28/10	8/2/10 13:09
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	7/28/10	8/2/10 13:09
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/28/10	8/2/10 13:09
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/28/10	8/2/10 13:09
Iron, Total	6010B	**30**	I	µg/L	100	10	1	7/29/10	8/1/10 20:21
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/28/10	8/2/10 13:09
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/27/10	7/27/10 16:40
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	7/28/10	8/2/10 13:09
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/28/10	8/2/10 13:09
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/28/10	8/2/10 13:09
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/28/10	8/2/10 13:09
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/28/10	8/2/10 13:09
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/28/10	8/2/10 13:09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 7/21/10 1050
Date Received: 7/21/10

Sample Name: SW-1
Lab Code: J1003437-001

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen, Unionized	FL NH3UnCalc DEP12Feb01V2	ND	U	mg/L	0.01		1	NA	7/27/10
Biochemical Oxygen Demand (BOD)	SM 5210 B	ND	U	mg/L	2.0	2.0	1	NA	7/21/10 14:50
Carbon, Total Organic (TOC)	SM 5310 B	**51.3**		mg/L	1.0	0.3	1	NA	7/29/10 16:21
Chemical Oxygen Demand (COD)	SM 5220 C	**143**		mg/L	5.0	2.0	1	7/27/10	7/27/10 20:15
Chlorophyll a (Monochromatic)	SM 10200 H	ND	U	mg/m^3	5.0	5.0	4.93	7/27/10	7/26/10 19:52
Coliform, Fecal	SM 9222 D	**18**		CFU/100mL			9	NA	7/21/10 15:50
Conductivity, Field	120.1	**93**		µMHOS/cm			1	NA	7/21/10 10:50
Dissolved Oxygen, Field	360.1	**3.7**		ppm			1	NA	7/21/10 10:50
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 15:32
Nitrogen, Total as Nitrogen	Calculation	**1.23**		mg/L	0.1		1	NA	7/28/10
Orthophosphate as Phosphorus	365.1	**0.0078**		mg/L	0.0050	0.0020	1	NA	7/22/10 14:57
pH, Field	150.1	**4.41**		pH Units			1	NA	7/21/10 10:50
Phosphorus, Total	365.1	**0.0329**	V	mg/L	0.0050	0.0030	1	7/21/10	7/22/10 12:04
Solids, Total Dissolved	SM 2540 C	**161**		mg/L	10	10	1	NA	7/27/10 15:47
Solids, Total Suspended (TSS)	SM 2540 D	**5.0**		mg/L	5.0	5.0	1	NA	7/27/10 12:30
Temperature, Field	170.1	**27.1**		deg C			1	NA	7/21/10 10:50
Turbidity, Field	180.1	**1.7**		NTU			1	NA	7/21/10 10:50

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 7/21/10 1030
Date Received: 7/21/10

Sample Name: SW-2
Lab Code: J1003437-002

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen, Unionized	FL NH3UnCalc DEP12Feb01V2	ND	U	mg/L	0.01		1	NA	7/27/10
Biochemical Oxygen Demand (BOD)	SM 5210 B	ND	U	mg/L	2.0	2.0	1	NA	7/21/10 14:50
Carbon, Total Organic (TOC)	SM 5310 B	**8.7**		mg/L	1.0	0.3	1	NA	7/29/10 16:45
Chemical Oxygen Demand (COD)	SM 5220 C	**48.0**	V	mg/L	5.0	2.0	1	7/27/10	7/27/10 20:15
Chlorophyll a (Monochromatic)	SM 10200 H	ND	U	mg/m³	1.1	1.1	1.03	7/27/10	7/26/10 19:59
Coliform, Fecal	SM 9222 D	**380**		CFU/100mL			9	NA	7/21/10 15:50
Conductivity, Field	120.1	**61**		µMHOS/cm			1	NA	7/21/10 10:30
Dissolved Oxygen, Field	360.1	**4.6**		ppm			1	NA	7/21/10 10:30
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 16:17
Nitrogen, Total as Nitrogen	Calculation	**0.21**		mg/L	0.1		1	NA	7/28/10
Orthophosphate as Phosphorus	365.1	**0.0067**		mg/L	0.0050	0.0020	1	NA	7/22/10 14:57
pH, Field	150.1	**5.24**		pH Units			1	NA	7/21/10 10:30
Phosphorus, Total	365.1	**0.0208**	V	mg/L	0.0050	0.0030	1	7/21/10	7/22/10 12:08
Solids, Total Dissolved	SM 2540 C	**55**		mg/L	10	10	1	NA	7/27/10 15:47
Solids, Total Suspended (TSS)	SM 2540 D	**20.0**		mg/L	5.0	5.0	1	NA	7/27/10 12:30
Temperature, Field	170.1	**28.3**		deg C			1	NA	7/21/10 10:30
Turbidity, Field	180.1	**3.9**		NTU			1	NA	7/21/10 10:30

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 7/21/10 1010
Date Received: 7/21/10

Sample Name: SW-3
Lab Code: J1003437-003

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Ammonia as Nitrogen, Unionized	FL NH3UnCalc DEP12Feb01V2	**0.103**		mg/L	0.01		1	NA	7/27/10
Biochemical Oxygen Demand (BOD)	SM 5210 B	**8.2**		mg/L	2.0	2.0	1	NA	7/21/10 14:50
Carbon, Total Organic (TOC)	SM 5310 B	**24.0**		mg/L	1.0	0.3	1	NA	7/29/10 17:04
Chemical Oxygen Demand (COD)	SM 5220 C	**129**		mg/L	5.0	2.0	1	7/27/10	7/27/10 20:15
Chlorophyll a (Monochromatic)	SM 10200 H	**335**		mg/m³	12	12	11.24	7/27/10	7/26/10 18:41
Coliform, Fecal	SM 9222 D	**320**		CFU/100mL			9	NA	7/21/10 15:50
Conductivity, Field	120.1	**425**		µMHOS/cm			1	NA	7/21/10 10:10
Dissolved Oxygen, Field	360.1	**6.7**		ppm			1	NA	7/21/10 10:10
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 16:32
Nitrogen, Total as Nitrogen	Calculation	**4.06**		mg/L	0.1		1	NA	7/28/10
Orthophosphate as Phosphorus	365.1	**0.0096**		mg/L	0.0050	0.0020	1	NA	7/22/10 14:58
pH, Field	150.1	**7.83**		pH Units			1	NA	7/21/10 10:10
Phosphorus, Total	365.1	**0.390**		mg/L	0.0050	0.0030	1	7/21/10	7/22/10 12:09
Solids, Total Dissolved	SM 2540 C	**303**		mg/L	10	10	1	NA	7/27/10 15:47
Solids, Total Suspended (TSS)	SM 2540 D	**112**		mg/L	9.1	9.1	1.818	NA	7/27/10 12:30
Temperature, Field	170.1	**32.6**		deg C			1	NA	7/21/10 10:10
Turbidity, Field	180.1	**172.0**		NTU			1	NA	7/21/10 10:10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1003437-MB

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Biochemical Oxygen Demand (BOD)	SM 5210 B	ND	U	mg/L	2.0	2.0	1	NA	7/21/10 06:40
Carbon, Total Organic (TOC)	SM 5310 B	**0.5**	I	mg/L	1.0	0.3	1	NA	7/29/10 12:46
Chemical Oxygen Demand (COD)	SM 5220 C	**8.0**		mg/L	5.0	2.0	1	NA	7/27/10 20:15
Chlorophyll a (Monochromatic)	SM 10200 H	ND	U	mg/m^3	1.0	1.0	1	NA	7/26/10 18:27
Coliform, Fecal	SM 9222 D	**< 1**		CFU/100mL			1	NA	7/21/10 13:01
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 15:02
Orthophosphate as Phosphorus	365.1	ND	U	mg/L	0.0050	0.0020	1	NA	7/22/10 14:55
Phosphorus, Total	365.1	**0.0049**	I	mg/L	0.0050	0.0030	1	7/21/10	7/22/10 11:53
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	7/27/10 15:47
Solids, Total Suspended (TSS)	SM 2540 D	ND	U	mg/L	5.0	5.0	1	NA	7/27/10 12:30

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: Percent

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
SW-1	J1003437-001	99	99	99	104
SW-2	J1003437-002	102	103	100	105
SW-3	J1003437-003	102	103	99	105
Trip Blank	J1003437-004	100	101	100	105
Method Blank	JQ1002993-04	98	99	98	101
Lab Control Sample	JQ1002993-03	99	98	101	103

Surrogate Recovery Control Limits (%)

Sur1	=	1,2-Dichloroethane-d4	71 - 122
Sur2	=	4-Bromofluorobenzene	75 - 120
Sur3	=	Dibromofluoromethane	82 - 116
Sur4	=	Toluene-d8	88 - 117

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Analyzed: 7/27/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210050

Lab Control Sample
JQ1002993-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	**18.8**	20.0	94	85 - 117
1,1,1-Trichloroethane (TCA)	**19.2**	20.0	96	79 - 124
1,1,2,2-Tetrachloroethane	**20.8**	20.0	104	83 - 120
1,1,2-Trichloroethane	**20.1**	20.0	101	86 - 114
1,1-Dichloroethane (1,1-DCA)	**19.3**	20.0	97	80 - 128
1,1-Dichloroethene (1,1-DCE)	**18.8**	20.0	94	78 - 130
1,2,3-Trichloropropane	**20.6**	20.0	103	83 - 123
1,2-Dibromo-3-chloropropane (DBCP)	**20.8**	20.0	104	62 - 123
1,2-Dibromoethane (EDB)	**20.5**	20.0	102	88 - 117
1,2-Dichlorobenzene	**19.3**	20.0	96	84 - 115
1,2-Dichloroethane	**19.4**	20.0	97	80 - 124
1,2-Dichloropropane	**19.5**	20.0	98	79 - 123
1,4-Dichlorobenzene	**19.3**	20.0	96	83 - 113
2-Butanone (MEK)	**92.7**	100	93	73 - 127
2-Hexanone	**101**	100	101	71 - 138
4-Methyl-2-pentanone (MIBK)	**101**	100	101	72 - 136
Acetone	**90.6**	100	91	67 - 133
Acrylonitrile	**97.7**	100	98	77 - 127
Benzene	**18.7**	20.0	94	79 - 119
Bromochloromethane	**19.4**	20.0	97	79 - 129
Bromodichloromethane	**19.0**	20.0	95	81 - 123
Bromoform	**18.7**	20.0	94	68 - 129
Bromomethane	**18.8**	20.0	94	79 - 130
Carbon Disulfide	**96.9**	100	97	76 - 138
Carbon Tetrachloride	**18.1**	20.0	90	81 - 125
Chlorobenzene	**19.5**	20.0	98	86 - 113
Chloroethane	**18.5**	20.0	92	74 - 126
Chloroform	**19.0**	20.0	95	83 - 124
Chloromethane	**18.1**	20.0	90	67 - 135
cis-1,2-Dichloroethene	**19.1**	20.0	95	80 - 126
cis-1,3-Dichloropropene	**19.0**	20.0	95	86 - 123
Dibromochloromethane	**18.6**	20.0	93	82 - 121

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Analyzed: 7/27/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 210050

Lab Control Sample
JQ1002993-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dibromomethane	**20.1**	20.0	100	83 - 123
Ethylbenzene	**19.4**	20.0	97	90 - 118
Iodomethane	**94.8**	100	95	68 - 134
m,p-Xylenes	**39.2**	40.0	98	86 - 121
Methylene Chloride	**18.4**	20.0	92	72 - 124
o-Xylene	**19.6**	20.0	98	89 - 119
Styrene	**19.9**	20.0	99	89 - 122
Tetrachloroethene (PCE)	**19.6**	20.0	98	80 - 121
Toluene	**19.0**	20.0	95	86 - 117
trans-1,2-Dichloroethene	**19.2**	20.0	96	77 - 124
trans-1,3-Dichloropropene	**18.9**	20.0	95	83 - 124
trans-1,4-Dichloro-2-butene	**22.5**	20.0	113	53 - 143
Trichloroethene (TCE)	**18.7**	20.0	93	76 - 124
Trichlorofluoromethane	**18.4**	20.0	92	74 - 134
Vinyl Acetate	**107**	100	107	61 - 148
Vinyl Chloride	**18.7**	20.0	93	78 - 132

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
SW-1	J1003437-001	134
SW-2	J1003437-002	130
SW-3	J1003437-003	146
Method Blank	JWG1002568-4	110
Lab Control Sample	JWG1002568-3	127

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Extracted: 07/26/2010
Date Analyzed: 07/29/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1002568

	Lab Control Sample JWG1002568-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.326	0.250	130	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.318	0.250	127	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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Analyzed: 7/27/10 - 8/ 2/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Lab Control Sample
J1003437-LCS

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	**50.8**	50.0	102	80 - 120
Arsenic, Total	6020	**48.7**	50.0	97	80 - 120
Barium, Total	6020	**50.8**	50.0	102	80 - 120
Beryllium, Total	6020	**46.8**	50.0	94	80 - 120
Cadmium, Total	6020	**48.0**	50.0	96	80 - 120
Chromium, Total	6020	**52.4**	50.0	105	80 - 120
Cobalt, Total	6020	**52.8**	50.0	106	80 - 120
Copper, Total	6020	**50.3**	50.0	101	80 - 120
Iron, Total	6010B	**2030**	2000	102	80 - 120
Lead, Total	6020	**51.4**	50.0	103	80 - 120
Mercury, Total	7470A	**4.86**	5.00	97	80 - 120
Nickel, Total	6020	**50.7**	50.0	101	80 - 120
Selenium, Total	6020	**45.0**	50.0	90	80 - 120
Silver, Total	6020	**49.6**	50.0	99	80 - 120
Thallium, Total	6020	**52.1**	50.0	104	80 - 120
Vanadium, Total	6020	**51.9**	50.0	104	80 - 120
Zinc, Total	6020	**94.6**	100	95	80 - 120

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 7/21/10
Date Received: 7/21/10
Date Analyzed: 7/22/10 - 7/27/10

Matrix Spike Summary
General Chemistry Parameters

Sample Name: SW-1
Lab Code: J1003437-001

Units: mg/L
Basis: NA

Analyte Name	Method	Sample Result	SW-1MS Matrix Spike J1003437-MS1 Result	Spike Amount	% Rec	% Rec Limits
Chemical Oxygen Demand (COD)	SM 5220 C	143	669	500	105	85 - 115
Nitrate as Nitrogen	300.0	ND	4.85	5.00	97	90 - 110
Phosphorus, Total	365.1	0.0329	0.537	0.500	101	90 - 110

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 7/21/10
Date Received: 7/21/10
Date Analyzed: 7/22/10 - 7/27/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name: SW-1
Lab Code: J1003437-001

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	SW-1DUP Duplicate Sample J1003437-DUP1 Result	Average	RPD	RPD Limit
Chemical Oxygen Demand (COD)	SM 5220 C	5.0	2.0	143	143	143	<1	20
Nitrate as Nitrogen	300.0	0.20	0.07	ND U	ND U	NC	NC	20
Phosphorus, Total	365.1	0.0050	0.0030	0.0329 V	0.0298	0.0314	10	20
Solids, Total Suspended (TSS)	SM 2540 D	5.0	5.0	5.0	5.5	5.25	10	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Collected: 7/21/10
Date Received: 7/21/10
Date Analyzed: 7/22/10 - 7/27/10

Duplicate Sample Summary
General Chemistry Parameters

Sample Name: SW-1
Lab Code: J1003437-001

Units: mg/m³
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	SW-1DUP Duplicate Sample J1003437-DUP1 Result	Average	RPD	RPD Limit
Chlorophyll a (Monochromatic)	SM 10200 H	5.0	5.0	ND U	ND U	NC	NC	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Analyzed: 7/27/10

Lab Control Sample Summary
Total Dissolved Solids Dried at 180 Deg C (TDS) 20th Ed.

Units: mg/L
Basis: NA

		Lab Control Sample J1003437-LCS1			Duplicate Lab Control Sample J1003437-DLCS1					
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Solids, Total Dissolved	SM 2540 C	**297**	300	99	**303**	300	101	85 - 115	2	20

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003437
Date Analyzed: 7/21/10 - 7/29/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003437-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Biochemical Oxygen Demand (BOD)	SM 5210 B	**183**	198	93	84.5 - 115.
Carbon, Total Organic (TOC)	SM 5310 B	**48.6**	50.0	97	90 - 110
Chemical Oxygen Demand (COD)	SM 5220 C	**526**	500	105	85 - 115
Nitrate as Nitrogen	300.0	**4.97**	5.00	99	90 - 110
Orthophosphate as Phosphorus	365.1	**0.516**	0.500	103	90 - 110
Phosphorus, Total	365.1	**0.519**	0.500	104	90 - 110
Solids, Total Dissolved	SM 2540 C	**27.0**	30	90	70 - 130
Solids, Total Suspended (TSS)	SM 2540 D	**85.0**	80.0	106	85 - 115

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.
Cooler Receipt Form

Client: HDR Service Request #: J1003432

Project: Trail Ridge

Cooler received on 7.21.10 and opened on 7.21.10 by GB

COURIER: CAS UPS FEDEX Client Other _____ Airbill # _____

1	Were custody seals on outside of cooler?	Yes	No		
	If yes, how many and where?	#: 1 on lid	other		
2	Were seals intact and signature and date correct?	Yes	No	N/A	
3	Were custody papers properly filled out?	Yes	No	N/A	
4	Temperature of cooler(s) upon receipt (Should be > 0°C and < 6°C)	3.4			
5	Thermometer ID	T16			
6	Temperature Blank Present?	Yes	No		
7	Were Ice or Ice Packs present	Ice	Ice Packs	No	
8	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A	
9	Type of packing material present	bubblewrap/ netting			
10	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A	
11	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A	
12	Were the correct bottles used for the tests indicated?	Yes	No	N/A	
13	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	N/A	
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2				
	Preservative additions noted below				
14	Were all samples received within analysis holding times?	Yes	No	N/A	
15	Were VOA vials checked for absence of air bubbles? If present, note below	Yes	No	N/A	
16	Where did the bottles originate?	CAS	Client		

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1003437

Date: 7.21.10 Initials: GB

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Container	40mL G	40mL G	40mL G	125mL P	125mL P	125mL P	125mL P	250mL P	250mL P	250mL P	250mL P	250mL P	250mL G	250mL G	500mL P	500mL P	500mL P	500mL P	500mL G	1L P	1L P	1L G	1L G	1L G	2oz G	4oz G	8oz G	16oz G	100ml P	Ziplock P	Misc. Misc.
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate		
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-
-001	3	3			1					1							1			1		1							1			-001
-002					1					1							1			1		1							1			-002
-003					1					1							1			1		1							1			-003
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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR # J1003437
CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR / 200 W FORSYTH ST. STE 800 JACKSONVILLE, FL ~~30~~ 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 0 1 3 2 3 0 7

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8011	8260	TOC	METALS	NH3, TKN, T-N, TRS, SO4	CHLOROPHYLL-a	FECAL COLIFORM									REMARKS/ ALTERNATE DESCRIPTION
SW-1		7-21	1050	SW	11	3	3	1	1	1	1	1								
SW-2		7-21	1030	SW	11	3	3	1	1	1	1	1								
SW-3		7-21	1010	SW	11	3	3	1	1	1	1	1								
TRIP		7-21	—	W	✓		✓													

NUMBER OF CONTAINERS

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE _____
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: Robert Nicholas	Signature: Robert Nicholas	Signature: J Bauer	Signature:	Signature:
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: J Bauer	Printed Name:	Printed Name:
Firm: PRO-TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm:	Firm:
Date/Time: 7-21-10 / 1115	Date/Time: 7/21/10 12:15	Date/Time: 7/21/10 1:10	Date/Time: 7-21-10 1310	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: SW-1 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
07/21/10	10:50	+	+	+	+

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: –
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:50	NA	1st 4.41	1st 93	27.1	17	3.7	1552	
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
07/21/10	4.41	93	27.1	17	3.7	1552	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: Amber Other: No Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. 90°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
7/21/10	DAN ARMOUR	[signature]	PRO-TECH
/ /			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: SW-2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
072110	1030	—	—	—	—

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: ~

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	(ft/msl)	Depth to Water (DTW) (from TOC)	(ft)	Groundwater Elevation (site datum, from TOC)	(ft/msl)
Total Well Depth (from TOC)	(ft)	Stick Up (from ground elevation)	(ft)	Casing ID	(in)
Casing Material					

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1030	NA	1st 5.24	1st 61	28.3	3.9	4.6	106.4	
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
072110	524	61	283	3.9	4.6	106.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: NO Sheen

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. 90°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
7/21/10	DAN ARMOUR		PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: SW-3 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
072110	10:10				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: ~

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:10	NA	1st 7.83	1st 425	326	172.0	6.7	721	
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
072110	7.83	425	326	1720	6.7	721	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLOUDY Odor: ____ Color: BROWN Other: NO SHEEN

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: P.C. 90°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
7/21/10	DAN ARMOUR	[signature]	PRO-TECH
/ /			

45

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

Appendix C

Laboratory Report – Leachate

Columbia Analytical Services™ 9143 Philips Highway, Suite 200 | Jacksonville, FL 32256 | 904-739-2277 | 904-739-2011 fax | www.caslab.com

August 23, 2010

Service Request No: J1003442

Handi Wang
HDR Engineering
200 W. Forsyth Street, Suite 800
Jacksonville, FL 32202

Laboratory Results for: Trail Ridge

Dear Handi:

Enclosed are the results of the sample(s) submitted to our laboratory on July 21, 2010. For your reference, these analyses have been assigned our service request number **J1003442**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. 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 contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	HDR Engineering	**Service Request No.:**	J1003442
Project:	Trail Ridge	**Date Received:**	7/21/10
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, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Two water samples and one trip blank were received for analysis at Columbia Analytical Services on 7/21/10. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Elevated Method Reporting Limits

The reporting limits are elevated for all analytes in samples LDSS and LCS. The samples were diluted prior to instrumental analysis due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. The following observations were made regarding this delivery group.

Second Source Exceptions

The upper control criterion was exceeded for the following analytes in the Second Source Verification (SSV): 1,2-Dibromoethane (EDB) and 1,2-Dibromo-3-chloropropane (DBCP). The field samples analyzed in this sequence did not contain the analytes in question. Because elevated recovery equates to a potential high bias, the data is not significantly affected. No further corrective action was taken.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by_____ **Date** 8/23/10

Organochlorine Pesticides by GC-ECD

The samples were analyzed for Organochlorine Pesticides using EPA Method 8081. The following observations were made regarding this delivery group.

Continuing Calibration Verification Exceptions

The spike recovery of Decachlorobiphenyl for Continuing Calibration Verification (CCV) JWG1002705-2 was outside the upper control criterion (117.5% versus a criterion of 115%). The surrogate in question was passing in all associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions

The matrix spike and duplicate matrix spike recoveries of alpha-BHC and Aldrin and the duplicate matrix spike recoveries of delta-BHC and 4,4'-DDD for sample LDSS were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

Relative Percent Difference Exceptions

The Relative Percent Difference (RPD) for the following analyte in the replicate matrix spike analyses of sample LDSS was outside control criteria: delta-BHC. All spike recoveries in the associated Laboratory Control Sample (LCS) were within acceptance limits, indicating the analytical batch was in control. No further corrective action was appropriate.

Elevated Method Reporting Limits

The Method Reporting Limit (MRL) is elevated for all target analytes in samples LDSS and LCS. The samples required dilution due to the presence of non-target background components including sulfur that interfered with internal standard quantitation. Copper cleanup was performed but was insufficient alone. The elevated reporting limits are reflected in the final report. No further corrective action was taken.

PCB Aroclors by GC-ECD

The samples were analyzed for PCB Aroclors using EPA Method 8082. The following observations were made regarding this delivery group.

Elevated Method Reporting Limits

The Method Reporting Limit (MRL) is elevated for all target analytes in samples LDSS and LCS. The samples required dilution due to the presence of non-target background components including sulfur that interfered with internal standard quantitation. Copper cleanup was performed but was insufficient alone. The elevated reporting limits are reflected in the final report. No further corrective action was taken.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by_____ **Date** 8/23/10

Semivolatile Organic Compounds by GC-MS

The samples were analyzed for Semivolatile Organics using EPA Method 8270. The following observations were made regarding this delivery group.

Second Source Verification Exceptions:

The upper control criterion was exceeded for the following analyte in the Second Source Verification (SSV): N-Nitrosodiphenylamine. The field samples analyzed in this sequence did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Surrogate Exceptions

The lower control criterion was exceeded for the following surrogates in Method Blank (MB) JWG1002584: 2-Fluorophenol, Phenol-d6, and 2,4,6-Tribromophenol. No target analyte results were detected in the Method Blank, but the results should be considered biased low. All surrogate recoveries are within control criteria for the associated field samples. The samples could no be re-extracted due to departmental sample load and expired holding times.

Internal Standard Exceptions

The internal standard recoveries of Phenanthrene-d10 and Perylene-d12 in sample LCS were outside control criteria because of suspected matrix interference (49% and 40% versus a lower criterion of 50%). The surrogates associated with these internal standards had passing recoveries. The sample had no results above the method reporting limit (MRL) for any target analytes associated with these internal standards. The results quantified using this internal standard are flagged to indicate the problem.

Matrix Spike Recovery Exceptions

The matrix spike and duplicate matrix spike recoveries of several analytes for sample LCS were outside control criteria. The sample contained elevated levels of target and non-target background components that interfered with spike recovery. No further corrective action was appropriate.

Relative Percent Difference Exceptions

The Relative Percent Differences (RPD) for several analytes for sample LCS was outside control criteria. The sample contained elevated levels of target and non-target background components that interfered with spike recovery. No further corrective action was appropriate.

Lab Control Sample Exceptions

The spike recoveries of N-Nitrosodi-n-propylamine, Isophorone, and 2-Nitroaniline for Laboratory Control Samples (LCS) JWG1002584-3 were outside the upper control criterion (106% versus a criterion of 103%, 118% versus a criterion of 106%, and 110% versus a criterion of 94%). The analytes in question were not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Elevated Method Reporting Limits

The reporting limits are elevated for all analytes in samples LDSS. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The reporting limits are adjusted to reflect the dilution.

Approved by_____ **Date** 8/23/10

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. The following observations were made regarding this delivery group.

Elevated Method Reporting Limits

The Method Reporting Limit (MRL) is elevated for several analytes in samples LDSS and LCS. The samples required dilution due to the presence of non-target background components that interfered with the analysis, indicated by internal standard failure. The elevated reporting limits are reflected in the final report. No further corrective action was taken.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Subcontracted Analytical Parameters

The samples were delivered to ENCO Labs in Jacksonville, FL on 7/23/10 for Organophosphorus Pesticides and Herbicides determination. The certified analytical report has been included in its entirety in Appendix A: Subcontracted Analytical Results.

Approved by_____ **Date** 8/23/10

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

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.

Client:
Project: Trail Ridge

Service Request: J1003442

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1003442-001	LDSS	7/21/10	08:00
J1003442-002	LCS	7/21/10	08:30
J1003442-003	TRIP	7/21/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: LDSS
Lab Code: J1003442-001

Service Request: J1003442
Date Collected: 7/21/10 0800
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	4.00	0.720	4	NA	7/25/10 13:30		209799
1,1,1-Trichloroethane (TCA)	ND	U	4.00	0.680	4	NA	7/25/10 13:30		209799
1,1,2,2-Tetrachloroethane	ND	U	4.00	0.440	4	NA	7/25/10 13:30		209799
1,1,2-Trichloroethane	ND	U	4.00	0.680	4	NA	7/25/10 13:30		209799
1,1-Dichloroethane (1,1-DCA)	ND	U	4.00	0.520	4	NA	7/25/10 13:30		209799
1,1-Dichloroethene (1,1-DCE)	ND	U	4.00	0.640	4	NA	7/25/10 13:30		209799
1,1-Dichloropropene	ND	U	20.0	0.480	4	NA	7/25/10 13:30		209799
1,2,3-Trichloropropane	ND	U	8.00	1.68	4	NA	7/25/10 13:30		209799
1,2,4-Trichlorobenzene	ND	U	40.0	0.840	4	NA	7/25/10 13:30		209799
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	20.0	9.20	4	NA	7/25/10 13:30		209799
1,2-Dibromoethane (EDB)	ND	U	4.00	0.680	4	NA	7/25/10 13:30		209799
1,2-Dichlorobenzene	ND	U	4.00	1.92	4	NA	7/25/10 13:30		209799
1,2-Dichloroethane	ND	U	4.00	0.720	4	NA	7/25/10 13:30		209799
1,2-Dichloropropane	ND	U	4.00	0.480	4	NA	7/25/10 13:30		209799
1,3-Dichlorobenzene	ND	U	4.00	0.520	4	NA	7/25/10 13:30		209799
1,3-Dichloropropane	ND	U	4.00	0.600	4	NA	7/25/10 13:30		209799
1,4-Dichlorobenzene	**7.35**		4.00	0.400	4	NA	7/25/10 13:30		209799
2,2-Dichloropropane	ND	U	4.00	0.720	4	NA	7/25/10 13:30		209799
2-Butanone (MEK)	**1070**		40.0	15.2	4	NA	7/25/10 13:30		209799
2-Hexanone	ND	U	100	8.80	4	NA	7/25/10 13:30		209799
4-Methyl-2-pentanone (MIBK)	**26.8**	I	100	2.60	4	NA	7/25/10 13:30		209799
Acetone	**860**		200	22.4	4	NA	7/25/10 13:30		209799
Acetonitrile	ND	U	100	72.0	4	NA	7/25/10 13:30		209799
Acrolein	ND	U	200	16.8	4	NA	7/25/10 13:30		209799
Acrylonitrile	ND	U	40.0	4.80	4	NA	7/25/10 13:30		209799
Allyl Chloride	ND	U	20.0	1.56	4	NA	7/25/10 13:30		209799
Benzene	**1.22**	I	4.00	0.840	4	NA	7/25/10 13:30		209799
Bromochloromethane	ND	U	20.0	1.08	4	NA	7/25/10 13:30		209799
Bromodichloromethane	ND	U	4.00	0.680	4	NA	7/25/10 13:30		209799
Bromoform	ND	U	8.00	1.68	4	NA	7/25/10 13:30		209799
Bromomethane	ND	U	4.00	0.880	4	NA	7/25/10 13:30		209799
Carbon Disulfide	ND	U	40.0	9.44	4	NA	7/25/10 13:30		209799
Carbon Tetrachloride	ND	U	4.00	1.36	4	NA	7/25/10 13:30		209799
Chlorobenzene	ND	U	4.00	0.640	4	NA	7/25/10 13:30		209799
Chloroethane	ND	U	20.0	0.880	4	NA	7/25/10 13:30		209799
Chloroform	ND	U	4.00	1.40	4	NA	7/25/10 13:30		209799

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 7/21/10 0800
Date Received: 7/21/10

Sample Name: LDSS
Lab Code: J1003442-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Chloromethane	ND	U	4.00	0.440	4	NA	7/25/10 13:30		209799
Chloroprene	ND	U	4.00	0.00	4	NA	7/25/10 13:30		209799
cis-1,2-Dichloroethene	ND	U	4.00	1.44	4	NA	7/25/10 13:30		209799
cis-1,3-Dichloropropene	ND	U	4.00	0.800	4	NA	7/25/10 13:30		209799
Dibromochloromethane	ND	U	4.00	0.760	4	NA	7/25/10 13:30		209799
Dibromomethane	ND	U	20.0	0.720	4	NA	7/25/10 13:30		209799
Dichlorodifluoromethane	ND	U	80.0	0.920	4	NA	7/25/10 13:30		209799
Ethyl Methacrylate	ND	U	4.00	0.760	4	NA	7/25/10 13:30		209799
Ethylbenzene	**6.65**		4.00	2.08	4	NA	7/25/10 13:30		209799
Hexachlorobutadiene	ND	U	40.0	2.40	4	NA	7/25/10 13:30		209799
Iodomethane	ND	U	20.0	10.8	4	NA	7/25/10 13:30		209799
Isobutyl Alcohol	ND	U	400	172	4	NA	7/25/10 13:30		209799
m,p-Xylenes	**11.2**		8.00	4.13	4	NA	7/25/10 13:30		209799
Methacrylonitrile	ND	U	20.0	6.40	4	NA	7/25/10 13:30		209799
Methyl Methacrylate	ND	U	8.00	1.08	4	NA	7/25/10 13:30		209799
Methylene Chloride	ND	U	20.0	0.840	4	NA	7/25/10 13:30		209799
Naphthalene	**3.84**	I	40.0	0.960	4	NA	7/25/10 13:30		209799
o-Xylene	**6.62**		4.00	0.560	4	NA	7/25/10 13:30		209799
Propionitrile	ND	U	100	15.6	4	NA	7/25/10 13:30		209799
Styrene	ND	U	4.00	1.17	4	NA	7/25/10 13:30		209799
Tetrachloroethene (PCE)	ND	U	4.00	0.440	4	NA	7/25/10 13:30		209799
Toluene	**7.44**		4.00	0.760	4	NA	7/25/10 13:30		209799
trans-1,2-Dichloroethene	ND	U	4.00	0.480	4	NA	7/25/10 13:30		209799
trans-1,3-Dichloropropene	ND	U	4.00	0.920	4	NA	7/25/10 13:30		209799
trans-1,4-Dichloro-2-butene	ND	U	80.0	8.80	4	NA	7/25/10 13:30		209799
Trichloroethene (TCE)	ND	U	4.00	0.640	4	NA	7/25/10 13:30		209799
Trichlorofluoromethane	ND	U	80.0	0.880	4	NA	7/25/10 13:30		209799
Vinyl Acetate	ND	U	40.0	7.60	4	NA	7/25/10 13:30		209799
Vinyl Chloride	ND	U	4.00	0.880	4	NA	7/25/10 13:30		209799

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: LDSS
Lab Code: J1003442-001

Service Request: J1003442
Date Collected: 7/21/10 0800
Date Received: 7/21/10

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	89	71-122	7/25/10 13:30	
4-Bromofluorobenzene	102	75-120	7/25/10 13:30	
Dibromofluoromethane	96	82-116	7/25/10 13:30	
Toluene-d8	103	88-117	7/25/10 13:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: LCS
Lab Code: J1003442-002

Service Request: J1003442
Date Collected: 7/21/10 0830
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	4.00	0.720	4	NA	7/25/10 13:57		209799
1,1,1-Trichloroethane (TCA)	ND	U	4.00	0.680	4	NA	7/25/10 13:57		209799
1,1,2,2-Tetrachloroethane	ND	U	4.00	0.440	4	NA	7/25/10 13:57		209799
1,1,2-Trichloroethane	ND	U	4.00	0.680	4	NA	7/25/10 13:57		209799
1,1-Dichloroethane (1,1-DCA)	ND	U	4.00	0.520	4	NA	7/25/10 13:57		209799
1,1-Dichloroethene (1,1-DCE)	ND	U	4.00	0.640	4	NA	7/25/10 13:57		209799
1,1-Dichloropropene	ND	U	20.0	0.480	4	NA	7/25/10 13:57		209799
1,2,3-Trichloropropane	ND	U	8.00	1.68	4	NA	7/25/10 13:57		209799
1,2,4-Trichlorobenzene	ND	U	40.0	0.840	4	NA	7/25/10 13:57		209799
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	20.0	9.20	4	NA	7/25/10 13:57		209799
1,2-Dibromoethane (EDB)	ND	U	4.00	0.680	4	NA	7/25/10 13:57		209799
1,2-Dichlorobenzene	ND	U	4.00	1.92	4	NA	7/25/10 13:57		209799
1,2-Dichloroethane	ND	U	4.00	0.720	4	NA	7/25/10 13:57		209799
1,2-Dichloropropane	ND	U	4.00	0.480	4	NA	7/25/10 13:57		209799
1,3-Dichlorobenzene	ND	U	4.00	0.520	4	NA	7/25/10 13:57		209799
1,3-Dichloropropane	ND	U	4.00	0.600	4	NA	7/25/10 13:57		209799
1,4-Dichlorobenzene	**14.7**		4.00	0.400	4	NA	7/25/10 13:57		209799
2,2-Dichloropropane	ND	U	4.00	0.720	4	NA	7/25/10 13:57		209799
2-Butanone (MEK)	**3630**		40.0	15.2	4	NA	7/25/10 13:57		209799
2-Hexanone	**8.86**	I	100	8.80	4	NA	7/25/10 13:57		209799
4-Methyl-2-pentanone (MIBK)	**43.5**	I	100	2.60	4	NA	7/25/10 13:57		209799
Acetone	**3580**		200	22.4	4	NA	7/25/10 13:57		209799
Acetonitrile	ND	U	100	72.0	4	NA	7/25/10 13:57		209799
Acrolein	ND	U	200	16.8	4	NA	7/25/10 13:57		209799
Acrylonitrile	ND	U	40.0	4.80	4	NA	7/25/10 13:57		209799
Allyl Chloride	ND	U	20.0	1.56	4	NA	7/25/10 13:57		209799
Benzene	**2.24**	I	4.00	0.840	4	NA	7/25/10 13:57		209799
Bromochloromethane	ND	U	20.0	1.08	4	NA	7/25/10 13:57		209799
Bromodichloromethane	ND	U	4.00	0.680	4	NA	7/25/10 13:57		209799
Bromoform	ND	U	8.00	1.68	4	NA	7/25/10 13:57		209799
Bromomethane	ND	U	4.00	0.880	4	NA	7/25/10 13:57		209799
Carbon Disulfide	ND	U	40.0	9.44	4	NA	7/25/10 13:57		209799
Carbon Tetrachloride	ND	U	4.00	1.36	4	NA	7/25/10 13:57		209799
Chlorobenzene	ND	U	4.00	0.640	4	NA	7/25/10 13:57		209799
Chloroethane	ND	U	20.0	0.880	4	NA	7/25/10 13:57		209799
Chloroform	ND	U	4.00	1.40	4	NA	7/25/10 13:57		209799

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: LCS
Lab Code: J1003442-002

Service Request: J1003442
Date Collected: 7/21/10 0830
Date Received: 7/21/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Chloromethane	ND	U	4.00	0.440	4	NA	7/25/10 13:57		209799
Chloroprene	ND	U	4.00	0.00	4	NA	7/25/10 13:57		209799
cis-1,2-Dichloroethene	**2.19**	I	4.00	1.44	4	NA	7/25/10 13:57		209799
cis-1,3-Dichloropropene	ND	U	4.00	0.800	4	NA	7/25/10 13:57		209799
Dibromochloromethane	ND	U	4.00	0.760	4	NA	7/25/10 13:57		209799
Dibromomethane	ND	U	20.0	0.720	4	NA	7/25/10 13:57		209799
Dichlorodifluoromethane	ND	U	80.0	0.920	4	NA	7/25/10 13:57		209799
Ethyl Methacrylate	ND	U	4.00	0.760	4	NA	7/25/10 13:57		209799
Ethylbenzene	**16.4**		4.00	2.08	4	NA	7/25/10 13:57		209799
Hexachlorobutadiene	ND	U	40.0	2.40	4	NA	7/25/10 13:57		209799
Iodomethane	ND	U	20.0	10.8	4	NA	7/25/10 13:57		209799
Isobutyl Alcohol	ND	U	400	172	4	NA	7/25/10 13:57		209799
m,p-Xylenes	**31.2**		8.00	4.13	4	NA	7/25/10 13:57		209799
Methacrylonitrile	ND	U	20.0	6.40	4	NA	7/25/10 13:57		209799
Methyl Methacrylate	ND	U	8.00	1.08	4	NA	7/25/10 13:57		209799
Methylene Chloride	ND	U	20.0	0.840	4	NA	7/25/10 13:57		209799
Naphthalene	**9.82**	I	40.0	0.960	4	NA	7/25/10 13:57		209799
o-Xylene	**16.4**		4.00	0.560	4	NA	7/25/10 13:57		209799
Propionitrile	ND	U	100	15.6	4	NA	7/25/10 13:57		209799
Styrene	**1.71**	I	4.00	1.17	4	NA	7/25/10 13:57		209799
Tetrachloroethene (PCE)	ND	U	4.00	0.440	4	NA	7/25/10 13:57		209799
Toluene	**17.0**		4.00	0.760	4	NA	7/25/10 13:57		209799
trans-1,2-Dichloroethene	ND	U	4.00	0.480	4	NA	7/25/10 13:57		209799
trans-1,3-Dichloropropene	ND	U	4.00	0.920	4	NA	7/25/10 13:57		209799
trans-1,4-Dichloro-2-butene	ND	U	80.0	8.80	4	NA	7/25/10 13:57		209799
Trichloroethene (TCE)	ND	U	4.00	0.640	4	NA	7/25/10 13:57		209799
Trichlorofluoromethane	ND	U	80.0	0.880	4	NA	7/25/10 13:57		209799
Vinyl Acetate	ND	U	40.0	7.60	4	NA	7/25/10 13:57		209799
Vinyl Chloride	ND	U	4.00	0.880	4	NA	7/25/10 13:57		209799

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Collected:**	7/21/10 0830
Sample Matrix:	Water	**Date Received:**	7/21/10
Sample Name:	LCS	**Units:**	Percent
Lab Code:	J1003442-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	71-122	7/25/10 13:57	
4-Bromofluorobenzene	105	75-120	7/25/10 13:57	
Dibromofluoromethane	99	82-116	7/25/10 13:57	
Toluene-d8	106	88-117	7/25/10 13:57	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 7/21/10 0000
Date Received: 7/21/10

Sample Name: TRIP
Lab Code: J1003442-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/25/10 14:25		209799
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/25/10 14:25		209799
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/25/10 14:25		209799
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/25/10 14:25		209799
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/25/10 14:25		209799
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/25/10 14:25		209799
1,1-Dichloropropene	ND	U	5.00	0.120	1	NA	7/25/10 14:25		209799
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/25/10 14:25		209799
1,2,4-Trichlorobenzene	ND	U	10.0	0.210	1	NA	7/25/10 14:25		209799
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/25/10 14:25		209799
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/25/10 14:25		209799
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/25/10 14:25		209799
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/25/10 14:25		209799
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/25/10 14:25		209799
1,3-Dichlorobenzene	ND	U	1.00	0.130	1	NA	7/25/10 14:25		209799
1,3-Dichloropropane	ND	U	1.00	0.150	1	NA	7/25/10 14:25		209799
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/25/10 14:25		209799
2,2-Dichloropropane	ND	U	1.00	0.180	1	NA	7/25/10 14:25		209799
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/25/10 14:25		209799
2-Hexanone	ND	U	25.0	2.20	1	NA	7/25/10 14:25		209799
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/25/10 14:25		209799
Acetone	ND	U	50.0	5.60	1	NA	7/25/10 14:25		209799
Acetonitrile	ND	U	25.0	18.0	1	NA	7/25/10 14:25		209799
Acrolein	ND	U	50.0	4.20	1	NA	7/25/10 14:25		209799
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/25/10 14:25		209799
Allyl Chloride	ND	U	5.00	0.390	1	NA	7/25/10 14:25		209799
Benzene	ND	U	1.00	0.210	1	NA	7/25/10 14:25		209799
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/25/10 14:25		209799
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/25/10 14:25		209799
Bromoform	ND	U	2.00	0.420	1	NA	7/25/10 14:25		209799
Bromomethane	ND	U	1.00	0.220	1	NA	7/25/10 14:25		209799
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/25/10 14:25		209799
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/25/10 14:25		209799
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/25/10 14:25		209799
Chloroethane	ND	U	5.00	0.220	1	NA	7/25/10 14:25		209799
Chloroform	ND	U	1.00	0.350	1	NA	7/25/10 14:25		209799

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 7/21/10 0000
Date Received: 7/21/10

Sample Name: TRIP
Lab Code: J1003442-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Chloromethane	ND	U	1.00	0.110	1	NA	7/25/10 14:25		209799
Chloroprene	ND	U	1.00	0.00	1	NA	7/25/10 14:25		209799
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/25/10 14:25		209799
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/25/10 14:25		209799
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/25/10 14:25		209799
Dibromomethane	ND	U	5.00	0.180	1	NA	7/25/10 14:25		209799
Dichlorodifluoromethane	ND	U	20.0	0.230	1	NA	7/25/10 14:25		209799
Ethyl Methacrylate	ND	U	1.00	0.190	1	NA	7/25/10 14:25		209799
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/25/10 14:25		209799
Hexachlorobutadiene	ND	U	10.0	0.600	1	NA	7/25/10 14:25		209799
Iodomethane	ND	U	5.00	2.68	1	NA	7/25/10 14:25		209799
Isobutyl Alcohol	ND	U	100	43.0	1	NA	7/25/10 14:25		209799
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/25/10 14:25		209799
Methacrylonitrile	ND	U	5.00	1.60	1	NA	7/25/10 14:25		209799
Methyl Methacrylate	ND	U	2.00	0.270	1	NA	7/25/10 14:25		209799
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/25/10 14:25		209799
Naphthalene	ND	U	10.0	0.240	1	NA	7/25/10 14:25		209799
o-Xylene	ND	U	1.00	0.140	1	NA	7/25/10 14:25		209799
Propionitrile	ND	U	25.0	3.90	1	NA	7/25/10 14:25		209799
Styrene	ND	U	1.00	0.291	1	NA	7/25/10 14:25		209799
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/25/10 14:25		209799
Toluene	ND	U	1.00	0.190	1	NA	7/25/10 14:25		209799
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/25/10 14:25		209799
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/25/10 14:25		209799
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/25/10 14:25		209799
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/25/10 14:25		209799
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/25/10 14:25		209799
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/25/10 14:25		209799
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/25/10 14:25		209799

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: TRIP
Lab Code: J1003442-003

Service Request: J1003442
Date Collected: 7/21/10 0000
Date Received: 7/21/10

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	89	71-122	7/25/10 14:25	
4-Bromofluorobenzene	107	75-120	7/25/10 14:25	
Dibromofluoromethane	97	82-116	7/25/10 14:25	
Toluene-d8	104	88-117	7/25/10 14:25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1002938-02

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.180	1	NA	7/25/10 11:40		209799
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	NA	7/25/10 11:40		209799
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.110	1	NA	7/25/10 11:40		209799
1,1,2-Trichloroethane	ND	U	1.00	0.170	1	NA	7/25/10 11:40		209799
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.130	1	NA	7/25/10 11:40		209799
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	NA	7/25/10 11:40		209799
1,1-Dichloropropene	ND	U	5.00	0.120	1	NA	7/25/10 11:40		209799
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	NA	7/25/10 11:40		209799
1,2,4-Trichlorobenzene	ND	U	10.0	0.210	1	NA	7/25/10 11:40		209799
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	NA	7/25/10 11:40		209799
1,2-Dibromoethane (EDB)	ND	U	1.00	0.170	1	NA	7/25/10 11:40		209799
1,2-Dichlorobenzene	ND	U	1.00	0.478	1	NA	7/25/10 11:40		209799
1,2-Dichloroethane	ND	U	1.00	0.180	1	NA	7/25/10 11:40		209799
1,2-Dichloropropane	ND	U	1.00	0.120	1	NA	7/25/10 11:40		209799
1,3-Dichlorobenzene	ND	U	1.00	0.130	1	NA	7/25/10 11:40		209799
1,3-Dichloropropane	ND	U	1.00	0.150	1	NA	7/25/10 11:40		209799
1,4-Dichlorobenzene	ND	U	1.00	0.100	1	NA	7/25/10 11:40		209799
2,2-Dichloropropane	ND	U	1.00	0.180	1	NA	7/25/10 11:40		209799
2-Butanone (MEK)	ND	U	10.0	3.80	1	NA	7/25/10 11:40		209799
2-Hexanone	ND	U	25.0	2.20	1	NA	7/25/10 11:40		209799
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	0.650	1	NA	7/25/10 11:40		209799
Acetone	ND	U	50.0	5.60	1	NA	7/25/10 11:40		209799
Acetonitrile	ND	U	25.0	18.0	1	NA	7/25/10 11:40		209799
Acrolein	ND	U	50.0	4.20	1	NA	7/25/10 11:40		209799
Acrylonitrile	ND	U	10.0	1.20	1	NA	7/25/10 11:40		209799
Allyl Chloride	ND	U	5.00	0.390	1	NA	7/25/10 11:40		209799
Benzene	ND	U	1.00	0.210	1	NA	7/25/10 11:40		209799
Bromochloromethane	ND	U	5.00	0.270	1	NA	7/25/10 11:40		209799
Bromodichloromethane	ND	U	1.00	0.170	1	NA	7/25/10 11:40		209799
Bromoform	ND	U	2.00	0.420	1	NA	7/25/10 11:40		209799
Bromomethane	ND	U	1.00	0.220	1	NA	7/25/10 11:40		209799
Carbon Disulfide	ND	U	10.0	2.36	1	NA	7/25/10 11:40		209799
Carbon Tetrachloride	ND	U	1.00	0.340	1	NA	7/25/10 11:40		209799
Chlorobenzene	ND	U	1.00	0.160	1	NA	7/25/10 11:40		209799
Chloroethane	ND	U	5.00	0.220	1	NA	7/25/10 11:40		209799
Chloroform	ND	U	1.00	0.350	1	NA	7/25/10 11:40		209799

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: JQ1002938-02

Service Request: J1003442
Date Collected: NA
Date Received: NA

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot
Chloromethane	ND	U	1.00	0.110	1	NA	7/25/10 11:40		209799
Chloroprene	ND	U	1.00	0.00	1	NA	7/25/10 11:40		209799
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	NA	7/25/10 11:40		209799
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	NA	7/25/10 11:40		209799
Dibromochloromethane	ND	U	1.00	0.190	1	NA	7/25/10 11:40		209799
Dibromomethane	ND	U	5.00	0.180	1	NA	7/25/10 11:40		209799
Dichlorodifluoromethane	ND	U	20.0	0.230	1	NA	7/25/10 11:40		209799
Ethyl Methacrylate	ND	U	1.00	0.190	1	NA	7/25/10 11:40		209799
Ethylbenzene	ND	U	1.00	0.519	1	NA	7/25/10 11:40		209799
Hexachlorobutadiene	ND	U	10.0	0.600	1	NA	7/25/10 11:40		209799
Iodomethane	ND	U	5.00	2.68	1	NA	7/25/10 11:40		209799
Isobutyl Alcohol	ND	U	100	43.0	1	NA	7/25/10 11:40		209799
m,p-Xylenes	ND	U	2.00	1.04	1	NA	7/25/10 11:40		209799
Methacrylonitrile	ND	U	5.00	1.60	1	NA	7/25/10 11:40		209799
Methyl Methacrylate	ND	U	2.00	0.270	1	NA	7/25/10 11:40		209799
Methylene Chloride	ND	U	5.00	0.210	1	NA	7/25/10 11:40		209799
Naphthalene	ND	U	10.0	0.240	1	NA	7/25/10 11:40		209799
o-Xylene	ND	U	1.00	0.140	1	NA	7/25/10 11:40		209799
Propionitrile	ND	U	25.0	3.90	1	NA	7/25/10 11:40		209799
Styrene	ND	U	1.00	0.291	1	NA	7/25/10 11:40		209799
Tetrachloroethene (PCE)	ND	U	1.00	0.110	1	NA	7/25/10 11:40		209799
Toluene	ND	U	1.00	0.190	1	NA	7/25/10 11:40		209799
trans-1,2-Dichloroethene	ND	U	1.00	0.120	1	NA	7/25/10 11:40		209799
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	NA	7/25/10 11:40		209799
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	NA	7/25/10 11:40		209799
Trichloroethene (TCE)	ND	U	1.00	0.160	1	NA	7/25/10 11:40		209799
Trichlorofluoromethane	ND	U	20.0	0.220	1	NA	7/25/10 11:40		209799
Vinyl Acetate	ND	U	10.0	1.90	1	NA	7/25/10 11:40		209799
Vinyl Chloride	ND	U	1.00	0.220	1	NA	7/25/10 11:40		209799

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	JQ1002938-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	71-122	7/25/10 11:40	
4-Bromofluorobenzene	102	75-120	7/25/10 11:40	
Dibromofluoromethane	100	82-116	7/25/10 11:40	
Toluene-d8	105	88-117	7/25/10 11:40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: LDSS
Lab Code: J1003442-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0073	1	07/26/10	07/30/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0060	1	07/26/10	07/30/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	107	77-150	07/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	LCS	**Units:**	ug/L
Lab Code:	J1003442-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.021	0.0072	1	07/26/10	07/30/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.021	0.0058	1	07/26/10	07/30/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	91	77-150	07/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: NA
Date Received: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: Method Blank
Lab Code: JWG1002570-4

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	UJ	0.020	0.0070	1	07/26/10	07/29/10	JWG1002570	J(3)
1,2-Dibromo-3-chloropropane (DI	ND	UJ	0.020	0.0057	1	07/26/10	07/29/10	JWG1002570	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	118	77-150	07/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LDSS
Lab Code: J1003442-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	53	7.7	10	07/27/10	08/02/10	JWG1002584	
N-Nitrosomethylethylamine	ND	U	53	8.6	10	07/27/10	08/02/10	JWG1002584	
Methyl Methanesulfonate	ND	UJ	53	5.9	10	07/27/10	08/02/10	JWG1002584	J(3)
N-Nitrosodiethylamine	ND	U	53	6.6	10	07/27/10	08/02/10	JWG1002584	
Ethyl Methanesulfonate	ND	U	53	6.8	10	07/27/10	08/02/10	JWG1002584	
Phenol	**100**		53	4.4	10	07/27/10	08/02/10	JWG1002584	
Bis(2-chloroethyl) Ether	ND	U	53	11	10	07/27/10	08/02/10	JWG1002584	
2-Chlorophenol	ND	U	53	7.9	10	07/27/10	08/02/10	JWG1002584	
1,3-Dichlorobenzene	ND	U	53	7.3	10	07/27/10	08/02/10	JWG1002584	
1,4-Dichlorobenzene	ND	U	53	13	10	07/27/10	08/02/10	JWG1002584	
1,2-Dichlorobenzene	ND	U	53	7.8	10	07/27/10	08/02/10	JWG1002584	
Bis(2-chloroisopropyl) Ether	ND	U	53	6.0	10	07/27/10	08/02/10	JWG1002584	
Benzyl alcohol	ND	U	53	7.2	10	07/27/10	08/02/10	JWG1002584	
2-Methylphenol	**12**	I	53	6.7	10	07/27/10	08/02/10	JWG1002584	
Acetophenone	ND	UJ	110	14	10	07/27/10	08/02/10	JWG1002584	J(3)
N-Nitrosopyrrolidine	ND	U	53	7.3	10	07/27/10	08/02/10	JWG1002584	
Hexachloroethane	ND	U	53	9.6	10	07/27/10	08/02/10	JWG1002584	
N-Nitrosodi-n-propylamine	ND	UJ	53	7.1	10	07/27/10	08/02/10	JWG1002584	J(3)
o-Toluidine	ND	U	53	9.3	10	07/27/10	08/02/10	JWG1002584	
4-Methylphenol†	**120**		53	8.1	10	07/27/10	08/02/10	JWG1002584	
Nitrobenzene	ND	U	53	7.7	10	07/27/10	08/02/10	JWG1002584	
N-Nitrosopiperidine	ND	U	53	17	10	07/27/10	08/02/10	JWG1002584	
Isophorone	ND	UJ	53	8.4	10	07/27/10	08/02/10	JWG1002584	J(3)
2-Nitrophenol	ND	U	210	6.3	10	07/27/10	08/02/10	JWG1002584	
2,4-Dimethylphenol	ND	U	53	8.3	10	07/27/10	08/02/10	JWG1002584	
O,O,O-Triethyl Phosphorothioate	ND	U	210	5.5	10	07/27/10	08/02/10	JWG1002584	
bis(2-Chloroethoxy)methane	ND	U	53	9.3	10	07/27/10	08/02/10	JWG1002584	
2,4-Dichlorophenol	ND	U	53	5.3	10	07/27/10	08/02/10	JWG1002584	
1,2,4-Trichlorobenzene	ND	U	53	8.2	10	07/27/10	08/02/10	JWG1002584	
Naphthalene	ND	U	53	8.3	10	07/27/10	08/02/10	JWG1002584	
2,6-Dichlorophenol	ND	U	110	7.6	10	07/27/10	08/02/10	JWG1002584	
Hexachloropropene	ND	U	53	20	10	07/27/10	08/02/10	JWG1002584	
4-Chloroaniline	ND	U	53	5.6	10	07/27/10	08/02/10	JWG1002584	

Comments:

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LDSS
Lab Code: J1003442-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorobutadiene	ND	U	53	6.4	10	07/27/10	08/02/10	JWG1002584	
N-Nitrosodi-n-butylamine	ND	U	53	7.0	10	07/27/10	08/02/10	JWG1002584	
p-Phenylenediamine	ND	U	210	12	10	07/27/10	08/02/10	JWG1002584	
4-Chloro-3-methylphenol	ND	U	53	7.9	10	07/27/10	08/02/10	JWG1002584	
2-Methylnaphthalene	ND	U	53	7.8	10	07/27/10	08/02/10	JWG1002584	
Hexachlorocyclopentadiene	ND	U	53	4.3	10	07/27/10	08/02/10	JWG1002584	
1,2,4,5-Tetrachlorobenzene	ND	U	53	5.8	10	07/27/10	08/02/10	JWG1002584	
Safrole	ND	U	53	7.4	10	07/27/10	08/02/10	JWG1002584	
2,4,6-Trichlorophenol	ND	U	53	7.7	10	07/27/10	08/02/10	JWG1002584	
2,4,5-Trichlorophenol	ND	U	53	6.8	10	07/27/10	08/02/10	JWG1002584	
Isosafrole	ND	U	53	7.9	10	07/27/10	08/02/10	JWG1002584	
2-Chloronaphthalene	ND	U	53	7.4	10	07/27/10	08/02/10	JWG1002584	
2-Nitroaniline	ND	UJ	53	5.8	10	07/27/10	08/02/10	JWG1002584	J(3)
1,4-Naphthoquinone†	ND	U	100	100	10	07/27/10	08/02/10	JWG1002584	
1,3-Dinitrobenzene	ND	U	110	16	10	07/27/10	08/02/10	JWG1002584	
Acenaphthylene	ND	U	53	6.1	10	07/27/10	08/02/10	JWG1002584	
Dimethyl Phthalate	ND	U	53	8.0	10	07/27/10	08/02/10	JWG1002584	
2,6-Dinitrotoluene	ND	U	53	8.7	10	07/27/10	08/02/10	JWG1002584	
Acenaphthene	ND	U	53	11	10	07/27/10	08/02/10	JWG1002584	
3-Nitroaniline	ND	U	53	7.9	10	07/27/10	08/02/10	JWG1002584	
2,4-Dinitrophenol	ND	U	210	5.7	10	07/27/10	08/02/10	JWG1002584	
Pentachlorobenzene	ND	U	53	26	10	07/27/10	08/02/10	JWG1002584	
Dibenzofuran	ND	U	53	8.3	10	07/27/10	08/02/10	JWG1002584	
4-Nitrophenol	ND	U	210	9.7	10	07/27/10	08/02/10	JWG1002584	
2,4-Dinitrotoluene	ND	U	53	43	10	07/27/10	08/02/10	JWG1002584	
2-Naphthylamine	ND	U	53	12	10	07/27/10	08/02/10	JWG1002584	
2,3,4,6-Tetrachlorophenol	ND	U	53	13	10	07/27/10	08/02/10	JWG1002584	
1-Naphthylamine	ND	U	53	12	10	07/27/10	08/02/10	JWG1002584	
Fluorene	ND	U	53	9.2	10	07/27/10	08/02/10	JWG1002584	
4-Chlorophenyl Phenyl Ether	ND	U	53	6.4	10	07/27/10	08/02/10	JWG1002584	
Thionazin	ND	U	110	8.5	10	07/27/10	08/02/10	JWG1002584	
Diethyl Phthalate	ND	U	53	43	10	07/27/10	08/02/10	JWG1002584	
5-Nitro-o-toluidine	ND	U	53	11	10	07/27/10	08/02/10	JWG1002584	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LDSS
Lab Code: J1003442-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitroaniline	ND	U	53	9.6	10	07/27/10	08/02/10	JWG1002584	
2-Methyl-4,6-dinitrophenol	ND	U	210	6.7	10	07/27/10	08/02/10	JWG1002584	
N-Nitrosodiphenylamine†	ND	UJ	53	11	10	07/27/10	08/02/10	JWG1002584	J(3)
Diallate	ND	U	53	11	10	07/27/10	08/02/10	JWG1002584	
Phorate	ND	UJ	53	9.2	10	07/27/10	08/02/10	JWG1002584	J(3)
1,3,5-Trinitrobenzene	ND	U	53	12	10	07/27/10	08/02/10	JWG1002584	
4-Bromophenyl Phenyl Ether	ND	U	53	7.0	10	07/27/10	08/02/10	JWG1002584	
Phenacetin	ND	U	53	9.3	10	07/27/10	08/02/10	JWG1002584	
Hexachlorobenzene	ND	U	53	6.6	10	07/27/10	08/02/10	JWG1002584	
Dimethoate	ND	U	53	9.4	10	07/27/10	08/02/10	JWG1002584	
4-Aminobiphenyl	ND	U	53	11	10	07/27/10	08/02/10	JWG1002584	
Pentachlorophenol	ND	U	210	7.0	10	07/27/10	08/02/10	JWG1002584	
Pentachloronitrobenzene	ND	U	53	16	10	07/27/10	08/02/10	JWG1002584	
Pronamide	ND	U	210	8.9	10	07/27/10	08/02/10	JWG1002584	
Phenanthrene	ND	U	53	7.3	10	07/27/10	08/02/10	JWG1002584	
Disulfoton	ND	U	53	5.5	10	07/27/10	08/02/10	JWG1002584	
Dinoseb	ND	U	110	6.4	10	07/27/10	08/02/10	JWG1002584	
Anthracene	ND	U	53	7.4	10	07/27/10	08/02/10	JWG1002584	
Methyl Parathion	ND	U	110	12	10	07/27/10	08/02/10	JWG1002584	
Di-n-butyl Phthalate	ND	U	53	11	10	07/27/10	08/02/10	JWG1002584	
Parathion	ND	U	210	9.7	10	07/27/10	08/02/10	JWG1002584	
Methapyrilene	ND	U	53	16	10	07/27/10	08/02/10	JWG1002584	
Isodrin	ND	U	110	7.4	10	07/27/10	08/02/10	JWG1002584	
Fluoranthene	ND	U	53	6.9	10	07/27/10	08/02/10	JWG1002584	
Pyrene	ND	U	53	8.8	10	07/27/10	08/02/10	JWG1002584	
Chlorobenzilate	ND	U	110	8.8	10	07/27/10	08/02/10	JWG1002584	
3,3'-Dimethylbenzidine	ND	U	210	24	10	07/27/10	08/02/10	JWG1002584	
Famphur	ND	UJ	110	7.2	10	07/27/10	08/02/10	JWG1002584	J(3)
p-Dimethylaminoazobenzene	ND	U	53	9.3	10	07/27/10	08/02/10	JWG1002584	
Butyl Benzyl Phthalate	ND	U	110	12	10	07/27/10	08/02/10	JWG1002584	
2-Acetylaminofluorene	ND	U	53	9.4	10	07/27/10	08/02/10	JWG1002584	
Kepone	ND	UJ	530	44	10	07/27/10	08/02/10	JWG1002584	J(3)
3,3'-Dichlorobenzidine	ND	U	210	9.3	10	07/27/10	08/02/10	JWG1002584	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	LDSS	**Units:**	ug/L
Lab Code:	J1003442-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benz(a)anthracene	ND	U	53	9.0	10	07/27/10	08/02/10	JWG1002584	
Chrysene	ND	U	53	9.1	10	07/27/10	08/02/10	JWG1002584	
Bis(2-ethylhexyl) Phthalate	ND	U	53	11	10	07/27/10	08/02/10	JWG1002584	
Di-n-octyl Phthalate	ND	U	53	9.9	10	07/27/10	08/02/10	JWG1002584	
Benzo(b)fluoranthene	ND	U	53	9.1	10	07/27/10	08/02/10	JWG1002584	
Benzo(k)fluoranthene	ND	U	53	5.7	10	07/27/10	08/02/10	JWG1002584	
7,12-Dimethylbenz(a)anthracene	ND	U	53	9.1	10	07/27/10	08/02/10	JWG1002584	
Benzo(a)pyrene	ND	U	53	6.6	10	07/27/10	08/02/10	JWG1002584	
3-Methylcholanthrene	ND	U	53	11	10	07/27/10	08/02/10	JWG1002584	
Indeno(1,2,3-cd)pyrene	ND	U	53	5.8	10	07/27/10	08/02/10	JWG1002584	
Dibenz(a,h)anthracene	ND	U	53	6.5	10	07/27/10	08/02/10	JWG1002584	
Benzo(g,h,i)perylene	ND	U	53	9.5	10	07/27/10	08/02/10	JWG1002584	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	30	10-77	08/02/10	Acceptable
Phenol-d6	12	10-51	08/02/10	Acceptable
Nitrobenzene-d5	102	32-106	08/02/10	Acceptable
2-Fluorobiphenyl	57	30-102	08/02/10	Acceptable
2,4,6-Tribromophenol	84	30-143	08/02/10	Acceptable
Terphenyl-d14	73	23-165	08/02/10	Acceptable

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
1,4-Naphthoquinone	Analyte searched for as a tentatively identified compound.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LCS
Lab Code: J1003442-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	5.2	0.76	1	07/27/10	08/02/10	JWG1002584	
N-Nitrosomethylethylamine	ND	U	5.2	0.85	1	07/27/10	08/02/10	JWG1002584	
Methyl Methanesulfonate	ND	UJ	5.2	0.58	1	07/27/10	08/02/10	JWG1002584	J(3)
N-Nitrosodiethylamine	ND	U	5.2	0.65	1	07/27/10	08/02/10	JWG1002584	
Ethyl Methanesulfonate	ND	U	5.2	0.68	1	07/27/10	08/02/10	JWG1002584	
Phenol	**610**		52	4.4	10	07/27/10	08/03/10	JWG1002584	
Bis(2-chloroethyl) Ether	ND	U	5.2	0.99	1	07/27/10	08/02/10	JWG1002584	
2-Chlorophenol	ND	U	5.2	0.78	1	07/27/10	08/02/10	JWG1002584	
1,3-Dichlorobenzene	ND	U	5.2	0.73	1	07/27/10	08/02/10	JWG1002584	
1,4-Dichlorobenzene	**8.5**		5.2	1.3	1	07/27/10	08/02/10	JWG1002584	
1,2-Dichlorobenzene	ND	U	5.2	0.77	1	07/27/10	08/02/10	JWG1002584	
Bis(2-chloroisopropyl) Ether	ND	U	5.2	0.59	1	07/27/10	08/02/10	JWG1002584	
Benzyl alcohol	ND	U	5.2	0.72	1	07/27/10	08/02/10	JWG1002584	
2-Methylphenol	**13**		5.2	0.66	1	07/27/10	08/02/10	JWG1002584	
Acetophenone	ND	UJ	11	1.4	1	07/27/10	08/02/10	JWG1002584	J(3)
N-Nitrosopyrrolidine	ND	U	5.2	0.73	1	07/27/10	08/02/10	JWG1002584	
Hexachloroethane	ND	U	5.2	0.95	1	07/27/10	08/02/10	JWG1002584	
N-Nitrosodi-n-propylamine	ND	UJ	5.2	0.71	1	07/27/10	08/02/10	JWG1002584	J(3)
o-Toluidine	ND	U	5.2	0.92	1	07/27/10	08/02/10	JWG1002584	
4-Methylphenol†	**480**		52	8.0	10	07/27/10	08/03/10	JWG1002584	
Nitrobenzene	ND	U	5.2	0.76	1	07/27/10	08/02/10	JWG1002584	
N-Nitrosopiperidine	ND	U	5.2	1.7	1	07/27/10	08/02/10	JWG1002584	
Isophorone	ND	UJ	5.2	0.83	1	07/27/10	08/02/10	JWG1002584	J(3)
2-Nitrophenol	ND	U	21	0.62	1	07/27/10	08/02/10	JWG1002584	
2,4-Dimethylphenol	ND	U	5.2	0.82	1	07/27/10	08/02/10	JWG1002584	
O,O,O-Triethyl Phosphorothioate	ND	U	21	0.54	1	07/27/10	08/02/10	JWG1002584	
bis(2-Chloroethoxy)methane	ND	U	5.2	0.92	1	07/27/10	08/02/10	JWG1002584	
2,4-Dichlorophenol	ND	U	5.2	0.52	1	07/27/10	08/02/10	JWG1002584	
1,2,4-Trichlorobenzene	ND	U	5.2	0.81	1	07/27/10	08/02/10	JWG1002584	
Naphthalene	**8.2**		5.2	0.82	1	07/27/10	08/02/10	JWG1002584	
2,6-Dichlorophenol	ND	U	11	0.75	1	07/27/10	08/02/10	JWG1002584	
Hexachloropropene	ND	U	5.2	2.0	1	07/27/10	08/02/10	JWG1002584	
4-Chloroaniline	ND	U	5.2	0.55	1	07/27/10	08/02/10	JWG1002584	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LCS
Lab Code: J1003442-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorobutadiene	ND	U	5.2	0.63	1	07/27/10	08/02/10	JWG1002584	
N-Nitrosodi-n-butylamine	ND	U	5.2	0.70	1	07/27/10	08/02/10	JWG1002584	
p-Phenylenediamine	ND	U	21	1.2	1	07/27/10	08/02/10	JWG1002584	
4-Chloro-3-methylphenol	ND	U	5.2	0.78	1	07/27/10	08/02/10	JWG1002584	
2-Methylnaphthalene	ND	U	5.2	0.77	1	07/27/10	08/02/10	JWG1002584	
Hexachlorocyclopentadiene	ND	U	5.2	0.43	1	07/27/10	08/02/10	JWG1002584	
1,2,4,5-Tetrachlorobenzene	ND	U	5.2	0.57	1	07/27/10	08/02/10	JWG1002584	
Safrole	ND	U	5.2	0.74	1	07/27/10	08/02/10	JWG1002584	
2,4,6-Trichlorophenol	ND	U	5.2	0.76	1	07/27/10	08/02/10	JWG1002584	
2,4,5-Trichlorophenol	ND	U	5.2	0.68	1	07/27/10	08/02/10	JWG1002584	
Isosafrole	ND	U	5.2	0.78	1	07/27/10	08/02/10	JWG1002584	
2-Chloronaphthalene	ND	U	5.2	0.74	1	07/27/10	08/02/10	JWG1002584	
2-Nitroaniline	ND	UJ	5.2	0.57	1	07/27/10	08/02/10	JWG1002584	J(3)
1,4-Naphthoquinone†	ND	U	10	10	1	07/27/10	08/02/10	JWG1002584	
1,3-Dinitrobenzene	ND	U	11	1.6	1	07/27/10	08/02/10	JWG1002584	
Acenaphthylene	ND	U	5.2	0.60	1	07/27/10	08/02/10	JWG1002584	
Dimethyl Phthalate	ND	U	5.2	0.79	1	07/27/10	08/02/10	JWG1002584	
2,6-Dinitrotoluene	ND	U	5.2	0.86	1	07/27/10	08/02/10	JWG1002584	
Acenaphthene	ND	U	5.2	1.1	1	07/27/10	08/02/10	JWG1002584	
3-Nitroaniline	ND	U	5.2	0.78	1	07/27/10	08/02/10	JWG1002584	
2,4-Dinitrophenol	ND	U	21	0.56	1	07/27/10	08/02/10	JWG1002584	
Pentachlorobenzene	ND	U	5.2	2.5	1	07/27/10	08/02/10	JWG1002584	
Dibenzofuran	ND	U	5.2	0.82	1	07/27/10	08/02/10	JWG1002584	
4-Nitrophenol	ND	U	21	0.96	1	07/27/10	08/02/10	JWG1002584	
2,4-Dinitrotoluene	ND	U	5.2	4.3	1	07/27/10	08/02/10	JWG1002584	
2-Naphthylamine	ND	U	5.2	1.2	1	07/27/10	08/02/10	JWG1002584	
2,3,4,6-Tetrachlorophenol	ND	U	5.2	1.3	1	07/27/10	08/02/10	JWG1002584	
1-Naphthylamine	ND	U	5.2	1.2	1	07/27/10	08/02/10	JWG1002584	
Fluorene	ND	U	5.2	0.91	1	07/27/10	08/02/10	JWG1002584	
4-Chlorophenyl Phenyl Ether	ND	U	5.2	0.63	1	07/27/10	08/02/10	JWG1002584	
Thionazin	ND	U	11	0.84	1	07/27/10	08/02/10	JWG1002584	
Diethyl Phthalate	ND	U	5.2	4.3	1	07/27/10	08/02/10	JWG1002584	
5-Nitro-o-toluidine	ND	U	5.2	1.1	1	07/27/10	08/02/10	JWG1002584	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: LCS
Lab Code: J1003442-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitroaniline	ND	U	5.2	0.95	1	07/27/10	08/02/10	JWG1002584	
2-Methyl-4,6-dinitrophenol	ND	UJ	21	0.66	1	07/27/10	08/02/10	JWG1002584	J(3)
N-Nitrosodiphenylamine†	ND	UJ	5.2	0.99	1	07/27/10	08/02/10	JWG1002584	J(3)
Diallate	ND	UJ	5.2	1.1	1	07/27/10	08/02/10	JWG1002584	J(3)
Phorate	ND	UJ	5.2	0.91	1	07/27/10	08/02/10	JWG1002584	J(3)
1,3,5-Trinitrobenzene	ND	UJ	5.2	1.2	1	07/27/10	08/02/10	JWG1002584	J(3)
4-Bromophenyl Phenyl Ether	ND	UJ	5.2	0.70	1	07/27/10	08/02/10	JWG1002584	J(3)
Phenacetin	ND	UJ	5.2	0.92	1	07/27/10	08/02/10	JWG1002584	J(3)
Hexachlorobenzene	ND	UJ	5.2	0.65	1	07/27/10	08/02/10	JWG1002584	J(3)
Dimethoate	ND	UJ	5.2	0.93	1	07/27/10	08/02/10	JWG1002584	J(3)
4-Aminobiphenyl	ND	UJ	5.2	1.1	1	07/27/10	08/02/10	JWG1002584	J(3)
Pentachlorophenol	ND	UJ	21	0.70	1	07/27/10	08/02/10	JWG1002584	J(3)
Pentachloronitrobenzene	ND	UJ	5.2	1.6	1	07/27/10	08/02/10	JWG1002584	J(3)
Pronamide	ND	UJ	21	0.88	1	07/27/10	08/02/10	JWG1002584	J(3)
Phenanthrene	ND	UJ	5.2	0.73	1	07/27/10	08/02/10	JWG1002584	J(3)
Disulfoton	ND	UJ	5.2	0.54	1	07/27/10	08/02/10	JWG1002584	J(3)
Dinoseb	ND	UJ	11	0.63	1	07/27/10	08/02/10	JWG1002584	J(3)
Anthracene	ND	UJ	5.2	0.74	1	07/27/10	08/02/10	JWG1002584	J(3)
Methyl Parathion	ND	UJ	11	1.2	1	07/27/10	08/02/10	JWG1002584	J(3)
Di-n-butyl Phthalate	**2.4**	I	5.2	1.0	1	07/27/10	08/02/10	JWG1002584	
Parathion	ND	UJ	21	0.96	1	07/27/10	08/02/10	JWG1002584	J(3)
Methapyrilene	ND	UJ	5.2	1.6	1	07/27/10	08/02/10	JWG1002584	J(3)
Isodrin	ND	UJ	11	0.74	1	07/27/10	08/02/10	JWG1002584	J(3)
Fluoranthene	ND	UJ	5.2	0.69	1	07/27/10	08/02/10	JWG1002584	J(3)
Pyrene	ND	U	5.2	0.87	1	07/27/10	08/02/10	JWG1002584	
Chlorobenzilate	ND	U	11	0.87	1	07/27/10	08/02/10	JWG1002584	
3,3'-Dimethylbenzidine	ND	U	21	2.4	1	07/27/10	08/02/10	JWG1002584	
Famphur	ND	UJ	11	0.72	1	07/27/10	08/02/10	JWG1002584	J(3)
p-Dimethylaminoazobenzene	ND	U	5.2	0.92	1	07/27/10	08/02/10	JWG1002584	
Butyl Benzyl Phthalate	ND	U	11	1.2	1	07/27/10	08/02/10	JWG1002584	
2-Acetylaminofluorene	ND	U	5.2	0.93	1	07/27/10	08/02/10	JWG1002584	
Kepone	ND	UJ	52	4.4	1	07/27/10	08/02/10	JWG1002584	J(3)
3,3'-Dichlorobenzidine	ND	U	21	0.92	1	07/27/10	08/02/10	JWG1002584	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	LCS	**Units:**	ug/L
Lab Code:	J1003442-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benz(a)anthracene	ND	U	5.2	0.89	1	07/27/10	08/02/10	JWG1002584	
Chrysene	ND	U	5.2	0.90	1	07/27/10	08/02/10	JWG1002584	
Bis(2-ethylhexyl) Phthalate	**3.5**	I	5.2	1.1	1	07/27/10	08/02/10	JWG1002584	
Di-n-octyl Phthalate	ND	U	5.2	0.98	1	07/27/10	08/02/10	JWG1002584	
Benzo(b)fluoranthene	ND	UJ	5.2	0.90	1	07/27/10	08/02/10	JWG1002584	J(3)
Benzo(k)fluoranthene	ND	UJ	5.2	0.56	1	07/27/10	08/02/10	JWG1002584	J(3)
7,12-Dimethylbenz(a)anthracene	ND	U	5.2	0.90	1	07/27/10	08/02/10	JWG1002584	
Benzo(a)pyrene	ND	UJ	5.2	0.65	1	07/27/10	08/02/10	JWG1002584	J(3)
3-Methylcholanthrene	ND	U	5.2	1.0	1	07/27/10	08/02/10	JWG1002584	
Indeno(1,2,3-cd)pyrene	ND	UJ	5.2	0.57	1	07/27/10	08/02/10	JWG1002584	J(3)
Dibenz(a,h)anthracene	ND	UJ	5.2	0.64	1	07/27/10	08/02/10	JWG1002584	J(3)
Benzo(g,h,i)perylene	ND	UJ	5.2	0.94	1	07/27/10	08/02/10	JWG1002584	J(3)

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	39	10-77	08/02/10	Acceptable
Phenol-d6	49	10-51	08/02/10	Acceptable
Nitrobenzene-d5	108	32-106	08/02/10	Outside Control Limits
2-Fluorobiphenyl	54	30-102	08/02/10	Acceptable
2,4,6-Tribromophenol	102	30-143	08/02/10	Acceptable
Terphenyl-d14	58	23-165	08/02/10	Acceptable

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
1,4-Naphthoquinone	Analyte searched for as a tentatively identified compound.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG1002584-4

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	5.0	0.73	1	07/27/10	08/02/10	JWG1002584	
N-Nitrosomethylethylamine	ND	U	5.0	0.82	1	07/27/10	08/02/10	JWG1002584	
Methyl Methanesulfonate	ND	UJ	5.0	0.56	1	07/27/10	08/02/10	JWG1002584	J(3)
N-Nitrosodiethylamine	ND	U	5.0	0.63	1	07/27/10	08/02/10	JWG1002584	
Ethyl Methanesulfonate	ND	U	5.0	0.65	1	07/27/10	08/02/10	JWG1002584	
Phenol	ND	U	5.0	0.42	1	07/27/10	08/02/10	JWG1002584	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.96	1	07/27/10	08/02/10	JWG1002584	
2-Chlorophenol	ND	U	5.0	0.75	1	07/27/10	08/02/10	JWG1002584	
1,3-Dichlorobenzene	ND	U	5.0	0.70	1	07/27/10	08/02/10	JWG1002584	
1,4-Dichlorobenzene	ND	U	5.0	1.2	1	07/27/10	08/02/10	JWG1002584	
1,2-Dichlorobenzene	ND	U	5.0	0.74	1	07/27/10	08/02/10	JWG1002584	
Bis(2-chloroisopropyl) Ether	ND	U	5.0	0.57	1	07/27/10	08/02/10	JWG1002584	
Benzyl alcohol	ND	U	5.0	0.69	1	07/27/10	08/02/10	JWG1002584	
2-Methylphenol	ND	U	5.0	0.64	1	07/27/10	08/02/10	JWG1002584	
Acetophenone	ND	UJ	10	1.3	1	07/27/10	08/02/10	JWG1002584	J(3)
N-Nitrosopyrrolidine	ND	U	5.0	0.70	1	07/27/10	08/02/10	JWG1002584	
Hexachloroethane	ND	U	5.0	0.92	1	07/27/10	08/02/10	JWG1002584	
N-Nitrosodi-n-propylamine	ND	UJ	5.0	0.68	1	07/27/10	08/02/10	JWG1002584	J(3)
o-Toluidine	ND	U	5.0	0.89	1	07/27/10	08/02/10	JWG1002584	
4-Methylphenol†	ND	U	5.0	0.77	1	07/27/10	08/02/10	JWG1002584	
Nitrobenzene	ND	U	5.0	0.73	1	07/27/10	08/02/10	JWG1002584	
N-Nitrosopiperidine	ND	U	5.0	1.6	1	07/27/10	08/02/10	JWG1002584	
Isophorone	ND	UJ	5.0	0.80	1	07/27/10	08/02/10	JWG1002584	J(3)
2-Nitrophenol	ND	U	20	0.60	1	07/27/10	08/02/10	JWG1002584	
2,4-Dimethylphenol	ND	U	5.0	0.79	1	07/27/10	08/02/10	JWG1002584	
O,O,O-Triethyl Phosphorothioate	ND	U	20	0.52	1	07/27/10	08/02/10	JWG1002584	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.89	1	07/27/10	08/02/10	JWG1002584	
2,4-Dichlorophenol	ND	U	5.0	0.50	1	07/27/10	08/02/10	JWG1002584	
1,2,4-Trichlorobenzene	ND	U	5.0	0.78	1	07/27/10	08/02/10	JWG1002584	
Naphthalene	ND	U	5.0	0.79	1	07/27/10	08/02/10	JWG1002584	
2,6-Dichlorophenol	ND	U	10	0.72	1	07/27/10	08/02/10	JWG1002584	
Hexachloropropene	ND	U	5.0	1.9	1	07/27/10	08/02/10	JWG1002584	
4-Chloroaniline	ND	U	5.0	0.53	1	07/27/10	08/02/10	JWG1002584	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG1002584-4

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorobutadiene	ND	U	5.0	0.61	1	07/27/10	08/02/10	JWG1002584	
N-Nitrosodi-n-butylamine	ND	U	5.0	0.67	1	07/27/10	08/02/10	JWG1002584	
p-Phenylenediamine	ND	U	20	1.1	1	07/27/10	08/02/10	JWG1002584	
4-Chloro-3-methylphenol	ND	U	5.0	0.75	1	07/27/10	08/02/10	JWG1002584	
2-Methylnaphthalene	ND	U	5.0	0.74	1	07/27/10	08/02/10	JWG1002584	
Hexachlorocyclopentadiene	ND	U	5.0	0.41	1	07/27/10	08/02/10	JWG1002584	
1,2,4,5-Tetrachlorobenzene	ND	U	5.0	0.55	1	07/27/10	08/02/10	JWG1002584	
Safrole	ND	U	5.0	0.71	1	07/27/10	08/02/10	JWG1002584	
2,4,6-Trichlorophenol	ND	U	5.0	0.73	1	07/27/10	08/02/10	JWG1002584	
2,4,5-Trichlorophenol	ND	U	5.0	0.65	1	07/27/10	08/02/10	JWG1002584	
Isosafrole	ND	U	5.0	0.75	1	07/27/10	08/02/10	JWG1002584	
2-Chloronaphthalene	ND	U	5.0	0.71	1	07/27/10	08/02/10	JWG1002584	
2-Nitroaniline	ND	UJ	5.0	0.55	1	07/27/10	08/02/10	JWG1002584	J(3)
1,4-Naphthoquinone†	ND	U	10	10	1	07/27/10	08/02/10	JWG1002584	
1,3-Dinitrobenzene	ND	U	10	1.5	1	07/27/10	08/02/10	JWG1002584	
Acenaphthylene	ND	U	5.0	0.58	1	07/27/10	08/02/10	JWG1002584	
Dimethyl Phthalate	ND	U	5.0	0.76	1	07/27/10	08/02/10	JWG1002584	
2,6-Dinitrotoluene	ND	U	5.0	0.83	1	07/27/10	08/02/10	JWG1002584	
Acenaphthene	ND	U	5.0	0.99	1	07/27/10	08/02/10	JWG1002584	
3-Nitroaniline	ND	U	5.0	0.75	1	07/27/10	08/02/10	JWG1002584	
2,4-Dinitrophenol	ND	U	20	0.54	1	07/27/10	08/02/10	JWG1002584	
Pentachlorobenzene	ND	U	5.0	2.4	1	07/27/10	08/02/10	JWG1002584	
Dibenzofuran	ND	U	5.0	0.79	1	07/27/10	08/02/10	JWG1002584	
4-Nitrophenol	ND	U	20	0.93	1	07/27/10	08/02/10	JWG1002584	
2,4-Dinitrotoluene	ND	U	5.0	4.1	1	07/27/10	08/02/10	JWG1002584	
2-Naphthylamine	ND	U	5.0	1.1	1	07/27/10	08/02/10	JWG1002584	
2,3,4,6-Tetrachlorophenol	ND	U	5.0	1.2	1	07/27/10	08/02/10	JWG1002584	
1-Naphthylamine	ND	U	5.0	1.1	1	07/27/10	08/02/10	JWG1002584	
Fluorene	ND	U	5.0	0.88	1	07/27/10	08/02/10	JWG1002584	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.61	1	07/27/10	08/02/10	JWG1002584	
Thionazin	ND	U	10	0.81	1	07/27/10	08/02/10	JWG1002584	
Diethyl Phthalate	ND	U	5.0	4.1	1	07/27/10	08/02/10	JWG1002584	
5-Nitro-o-toluidine	ND	U	5.0	1.0	1	07/27/10	08/02/10	JWG1002584	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG1002584-4

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitroaniline	ND	U	5.0	0.92	1	07/27/10	08/02/10	JWG1002584	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.64	1	07/27/10	08/02/10	JWG1002584	
N-Nitrosodiphenylamine†	ND	UJ	5.0	0.96	1	07/27/10	08/02/10	JWG1002584	J(3)
Diallate	ND	U	5.0	1.0	1	07/27/10	08/02/10	JWG1002584	
Phorate	ND	UJ	5.0	0.88	1	07/27/10	08/02/10	JWG1002584	J(3)
1,3,5-Trinitrobenzene	ND	U	5.0	1.1	1	07/27/10	08/02/10	JWG1002584	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.67	1	07/27/10	08/02/10	JWG1002584	
Phenacetin	ND	U	5.0	0.89	1	07/27/10	08/02/10	JWG1002584	
Hexachlorobenzene	ND	U	5.0	0.63	1	07/27/10	08/02/10	JWG1002584	
Dimethoate	ND	U	5.0	0.90	1	07/27/10	08/02/10	JWG1002584	
4-Aminobiphenyl	ND	U	5.0	0.99	1	07/27/10	08/02/10	JWG1002584	
Pentachlorophenol	ND	U	20	0.67	1	07/27/10	08/02/10	JWG1002584	
Pentachloronitrobenzene	ND	U	5.0	1.5	1	07/27/10	08/02/10	JWG1002584	
Pronamide	ND	U	20	0.85	1	07/27/10	08/02/10	JWG1002584	
Phenanthrene	ND	U	5.0	0.70	1	07/27/10	08/02/10	JWG1002584	
Disulfoton	ND	U	5.0	0.52	1	07/27/10	08/02/10	JWG1002584	
Dinoseb	ND	U	10	0.61	1	07/27/10	08/02/10	JWG1002584	
Anthracene	ND	U	5.0	0.71	1	07/27/10	08/02/10	JWG1002584	
Methyl Parathion	ND	U	10	1.1	1	07/27/10	08/02/10	JWG1002584	
Di-n-butyl Phthalate	ND	U	5.0	0.97	1	07/27/10	08/02/10	JWG1002584	
Parathion	ND	U	20	0.93	1	07/27/10	08/02/10	JWG1002584	
Methapyrilene	ND	U	5.0	1.5	1	07/27/10	08/02/10	JWG1002584	
Isodrin	ND	U	10	0.71	1	07/27/10	08/02/10	JWG1002584	
Fluoranthene	ND	U	5.0	0.66	1	07/27/10	08/02/10	JWG1002584	
Pyrene	ND	U	5.0	0.84	1	07/27/10	08/02/10	JWG1002584	
Chlorobenzilate	ND	U	10	0.84	1	07/27/10	08/02/10	JWG1002584	
3,3'-Dimethylbenzidine	ND	U	20	2.3	1	07/27/10	08/02/10	JWG1002584	
Famphur	ND	UJ	10	0.69	1	07/27/10	08/02/10	JWG1002584	J(3)
p-Dimethylaminoazobenzene	ND	U	5.0	0.89	1	07/27/10	08/02/10	JWG1002584	
Butyl Benzyl Phthalate	ND	U	10	1.1	1	07/27/10	08/02/10	JWG1002584	
2-Acetylaminofluorene	ND	U	5.0	0.90	1	07/27/10	08/02/10	JWG1002584	
Kepone	ND	UJ	50	4.2	1	07/27/10	08/02/10	JWG1002584	J(3)
3,3'-Dichlorobenzidine	ND	U	20	0.89	1	07/27/10	08/02/10	JWG1002584	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1002584-4	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benz(a)anthracene	ND	U	5.0	0.86	1	07/27/10	08/02/10	JWG1002584	
Chrysene	ND	U	5.0	0.87	1	07/27/10	08/02/10	JWG1002584	
Bis(2-ethylhexyl) Phthalate	ND	U	5.0	0.98	1	07/27/10	08/02/10	JWG1002584	
Di-n-octyl Phthalate	ND	U	5.0	0.95	1	07/27/10	08/02/10	JWG1002584	
Benzo(b)fluoranthene	ND	U	5.0	0.87	1	07/27/10	08/02/10	JWG1002584	
Benzo(k)fluoranthene	ND	U	5.0	0.54	1	07/27/10	08/02/10	JWG1002584	
7,12-Dimethylbenz(a)anthracene	ND	U	5.0	0.87	1	07/27/10	08/02/10	JWG1002584	
Benzo(a)pyrene	ND	U	5.0	0.63	1	07/27/10	08/02/10	JWG1002584	
3-Methylcholanthrene	ND	U	5.0	0.97	1	07/27/10	08/02/10	JWG1002584	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.55	1	07/27/10	08/02/10	JWG1002584	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	07/27/10	08/02/10	JWG1002584	
Benzo(g,h,i)perylene	ND	U	5.0	0.91	1	07/27/10	08/02/10	JWG1002584	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	2	10-77	08/02/10	Outside Control Limits
Phenol-d6	9	10-51	08/02/10	Outside Control Limits
Nitrobenzene-d5	72	32-106	08/02/10	Acceptable
2-Fluorobiphenyl	40	30-102	08/02/10	Acceptable
2,4,6-Tribromophenol	14	30-143	08/02/10	Outside Control Limits
Terphenyl-d14	81	23-165	08/02/10	Acceptable

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
1,4-Naphthoquinone	Analyte searched for as a tentatively identified compound.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

Organochlorine Pesticides by GC-ECD

Sample Name: LDSS
Lab Code: J1003442-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8081A

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.083	0.033	4	07/27/10	08/04/10	JWG1002581	
gamma-BHC (Lindane)	ND	U	0.083	0.034	4	07/27/10	08/04/10	JWG1002581	
beta-BHC	ND	U	0.083	0.036	4	07/27/10	08/04/10	JWG1002581	
delta-BHC	ND	U	0.083	0.046	4	07/27/10	08/04/10	JWG1002581	
Heptachlor	ND	U	0.083	0.040	4	07/27/10	08/04/10	JWG1002581	
Aldrin	ND	U	0.083	0.029	4	07/27/10	08/04/10	JWG1002581	
Heptachlor Epoxide	ND	U	0.083	0.033	4	07/27/10	08/04/10	JWG1002581	
gamma-Chlordane	ND	U	0.083	0.031	4	07/27/10	08/04/10	JWG1002581	
alpha-Chlordane	ND	U	0.083	0.028	4	07/27/10	08/04/10	JWG1002581	
4,4'-DDE	ND	U	0.083	0.035	4	07/27/10	08/04/10	JWG1002581	
Endosulfan I	ND	U	0.083	0.037	4	07/27/10	08/04/10	JWG1002581	
Dieldrin	ND	U	0.083	0.031	4	07/27/10	08/04/10	JWG1002581	
Endrin	ND	U	0.083	0.038	4	07/27/10	08/04/10	JWG1002581	
4,4'-DDD	ND	U	0.083	0.033	4	07/27/10	08/04/10	JWG1002581	
Endosulfan II	ND	U	0.083	0.027	4	07/27/10	08/04/10	JWG1002581	
4,4'-DDT	ND	U	0.083	0.054	4	07/27/10	08/04/10	JWG1002581	
Endrin Aldehyde	ND	U	0.083	0.036	4	07/27/10	08/04/10	JWG1002581	
Methoxychlor	ND	U	0.17	0.046	4	07/27/10	08/04/10	JWG1002581	
Endosulfan Sulfate	ND	U	0.083	0.038	4	07/27/10	08/04/10	JWG1002581	
Endrin Ketone	ND	U	0.083	0.022	4	07/27/10	08/04/10	JWG1002581	
Toxaphene	ND	U	2.1	2.1	4	07/27/10	08/04/10	JWG1002581	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	41	32-92	08/04/10	Acceptable
Decachlorobiphenyl	56	13-104	08/04/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

Organochlorine Pesticides by GC-ECD

Sample Name: LCS
Lab Code: J1003442-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8081A

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.080	0.032	4	07/27/10	08/04/10	JWG1002581	
gamma-BHC (Lindane)	ND	U	0.080	0.033	4	07/27/10	08/04/10	JWG1002581	
beta-BHC	ND	U	0.080	0.034	4	07/27/10	08/04/10	JWG1002581	
delta-BHC	ND	U	0.080	0.044	4	07/27/10	08/04/10	JWG1002581	
Heptachlor	ND	U	0.080	0.039	4	07/27/10	08/04/10	JWG1002581	
Aldrin	ND	U	0.080	0.028	4	07/27/10	08/04/10	JWG1002581	
Heptachlor Epoxide	ND	U	0.080	0.032	4	07/27/10	08/04/10	JWG1002581	
gamma-Chlordane	ND	U	0.080	0.030	4	07/27/10	08/04/10	JWG1002581	
alpha-Chlordane	ND	U	0.080	0.027	4	07/27/10	08/04/10	JWG1002581	
4,4'-DDE	ND	U	0.080	0.034	4	07/27/10	08/04/10	JWG1002581	
Endosulfan I	ND	U	0.080	0.036	4	07/27/10	08/04/10	JWG1002581	
Dieldrin	ND	U	0.080	0.030	4	07/27/10	08/04/10	JWG1002581	
Endrin	ND	U	0.080	0.036	4	07/27/10	08/04/10	JWG1002581	
4,4'-DDD	ND	U	0.080	0.032	4	07/27/10	08/04/10	JWG1002581	
Endosulfan II	ND	U	0.080	0.026	4	07/27/10	08/04/10	JWG1002581	
4,4'-DDT	ND	U	0.080	0.052	4	07/27/10	08/04/10	JWG1002581	
Endrin Aldehyde	ND	U	0.080	0.034	4	07/27/10	08/04/10	JWG1002581	
Methoxychlor	ND	U	0.16	0.044	4	07/27/10	08/04/10	JWG1002581	
Endosulfan Sulfate	ND	U	0.080	0.037	4	07/27/10	08/04/10	JWG1002581	
Endrin Ketone	ND	U	0.080	0.022	4	07/27/10	08/04/10	JWG1002581	
Toxaphene	ND	U	2.0	2.0	4	07/27/10	08/04/10	JWG1002581	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	84	32-92	08/04/10	Acceptable
Decachlorobiphenyl	38	13-104	08/04/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: NA
Date Received: NA

Organochlorine Pesticides by GC-ECD

Sample Name: Method Blank
Lab Code: JWG1002581-4

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8081A

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.020	0.0079	1	07/27/10	08/02/10	JWG1002581	
gamma-BHC (Lindane)	ND	U	0.020	0.0082	1	07/27/10	08/02/10	JWG1002581	
beta-BHC	ND	U	0.020	0.0085	1	07/27/10	08/02/10	JWG1002581	
delta-BHC	ND	U	0.020	0.011	1	07/27/10	08/02/10	JWG1002581	
Heptachlor	ND	U	0.020	0.0096	1	07/27/10	08/02/10	JWG1002581	
Aldrin	ND	U	0.020	0.0068	1	07/27/10	08/02/10	JWG1002581	
Heptachlor Epoxide	ND	U	0.020	0.0079	1	07/27/10	08/02/10	JWG1002581	
gamma-Chlordane	ND	U	0.020	0.0075	1	07/27/10	08/02/10	JWG1002581	
alpha-Chlordane	ND	U	0.020	0.0066	1	07/27/10	08/02/10	JWG1002581	
4,4'-DDE	ND	U	0.020	0.0084	1	07/27/10	08/02/10	JWG1002581	
Endosulfan I	ND	U	0.020	0.0089	1	07/27/10	08/02/10	JWG1002581	
Dieldrin	ND	U	0.020	0.0073	1	07/27/10	08/02/10	JWG1002581	
Endrin	ND	U	0.020	0.0090	1	07/27/10	08/02/10	JWG1002581	
4,4'-DDD	ND	U	0.020	0.0079	1	07/27/10	08/02/10	JWG1002581	
Endosulfan II	ND	U	0.020	0.0064	1	07/27/10	08/02/10	JWG1002581	
4,4'-DDT	ND	U	0.020	0.013	1	07/27/10	08/02/10	JWG1002581	
Endrin Aldehyde	ND	U	0.020	0.0085	1	07/27/10	08/02/10	JWG1002581	
Methoxychlor	ND	U	0.040	0.011	1	07/27/10	08/02/10	JWG1002581	
Endosulfan Sulfate	ND	U	0.020	0.0092	1	07/27/10	08/02/10	JWG1002581	
Endrin Ketone	ND	U	0.020	0.0053	1	07/27/10	08/02/10	JWG1002581	
Toxaphene	ND	U	0.50	0.50	1	07/27/10	08/02/10	JWG1002581	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	47	32-92	08/02/10	Acceptable
Decachlorobiphenyl	83	13-104	08/02/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 07/21/2010
Date Received: 07/21/2010

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name: LDSS
Lab Code: J1003442-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8082

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	2.1	0.54	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1221	ND	U	2.1	0.91	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1232	ND	U	2.1	0.95	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1242	ND	U	2.1	0.50	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1248	ND	U	2.1	1.1	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1254	ND	U	2.1	1.6	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1260	ND	U	2.1	0.71	4	07/27/10	08/04/10	JWG1002582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	56	24-120	08/04/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Collected:**	07/21/2010
Sample Matrix:	Water	**Date Received:**	07/21/2010

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name:	LCS	**Units:**	ug/L
Lab Code:	J1003442-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	2.0	0.52	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1221	ND	U	2.0	0.88	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1232	ND	U	2.0	0.92	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1242	ND	U	2.0	0.48	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1248	ND	U	2.0	1.1	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1254	ND	U	2.0	1.5	4	07/27/10	08/04/10	JWG1002582	
Aroclor 1260	ND	U	2.0	0.68	4	07/27/10	08/04/10	JWG1002582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	44	24-120	08/04/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG1002582-2	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.50	0.13	1	07/27/10	08/02/10	JWG1002582	
Aroclor 1221	ND	U	0.50	0.22	1	07/27/10	08/02/10	JWG1002582	
Aroclor 1232	ND	U	0.50	0.23	1	07/27/10	08/02/10	JWG1002582	
Aroclor 1242	ND	U	0.50	0.12	1	07/27/10	08/02/10	JWG1002582	
Aroclor 1248	ND	U	0.50	0.26	1	07/27/10	08/02/10	JWG1002582	
Aroclor 1254	ND	U	0.50	0.37	1	07/27/10	08/02/10	JWG1002582	
Aroclor 1260	ND	U	0.50	0.17	1	07/27/10	08/02/10	JWG1002582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	85	24-120	08/02/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 7/21/10 0800
Date Received: 7/21/10

Sample Name: LDSS
Lab Code: J1003442-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**47**		µg/L	20	3	10	7/29/10	7/29/10 21:26
Arsenic, Total	6020	**169**		µg/L	5.0	1.5	10	7/29/10	7/29/10 21:26
Barium, Total	6020	**153**		µg/L	20	5	10	7/29/10	7/29/10 21:26
Beryllium, Total	6020	ND	U	µg/L	10	3	10	7/29/10	7/29/10 21:26
Cadmium, Total	6020	ND	U	µg/L	5.0	1.8	10	7/29/10	7/29/10 21:26
Chromium, Total	6020	**141**		µg/L	20	6	10	7/29/10	7/29/10 21:26
Cobalt, Total	6020	**40**		µg/L	10	2	10	7/29/10	7/29/10 21:26
Copper, Total	6020	**25**		µg/L	20	5	10	7/29/10	7/29/10 21:26
Iron, Total	6010B	**7010**		µg/L	100	10	1	7/23/10	7/28/10 00:57
Lead, Total	6020	ND	U	µg/L	10	3	10	7/29/10	7/29/10 21:26
Mercury, Total	7470A	**0.14**	I	µg/L	0.50	0.08	1	7/27/10	7/28/10 11:48
Nickel, Total	6020	**173**		µg/L	20	3	10	7/29/10	7/29/10 21:26
Selenium, Total	6020	**58**		µg/L	50	9	10	7/29/10	7/29/10 21:26
Silver, Total	6020	ND	U	µg/L	5.0	0.9	10	7/29/10	7/29/10 21:26
Sodium, Total	6010B	**1630**		mg/L	5.0	0.2	10	7/23/10	7/28/10 16:05
Thallium, Total	6020	ND	U	µg/L	10	4	10	7/29/10	7/29/10 21:26
Tin, Total	6010B	**44**		µg/L	40	3	1	7/23/10	7/28/10 00:57
Vanadium, Total	6020	**74**		µg/L	50	12	10	7/29/10	7/29/10 21:26
Zinc, Total	6020	**40**	I	µg/L	100	30	10	7/29/10	7/29/10 21:26

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 7/21/10 0830
Date Received: 7/21/10

Sample Name: LCS
Lab Code: J1003442-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**67**		µg/L	20	3	10	7/29/10	7/29/10 21:31
Arsenic, Total	6020	**185**		µg/L	5.0	1.5	10	7/29/10	7/29/10 21:31
Barium, Total	6020	**146**		µg/L	20	5	10	7/29/10	7/29/10 21:31
Beryllium, Total	6020	ND	U	µg/L	10	3	10	7/29/10	7/29/10 21:31
Cadmium, Total	6020	**5.8**		µg/L	5.0	1.8	10	7/29/10	7/29/10 21:31
Chromium, Total	6020	**164**		µg/L	20	6	10	7/29/10	7/29/10 21:31
Cobalt, Total	6020	**41**		µg/L	10	2	10	7/29/10	7/29/10 21:31
Copper, Total	6020	**15**	I	µg/L	20	5	10	7/29/10	7/29/10 21:31
Iron, Total	6010B	**6990**		µg/L	100	10	1	7/23/10	7/28/10 01:03
Lead, Total	6020	ND	U	µg/L	10	3	10	7/29/10	7/29/10 21:31
Mercury, Total	7470A	**0.18**	I	µg/L	0.50	0.08	1	7/27/10	7/28/10 11:49
Nickel, Total	6020	**190**		µg/L	20	3	10	7/29/10	7/29/10 21:31
Selenium, Total	6020	**60**		µg/L	50	9	10	7/29/10	7/29/10 21:31
Silver, Total	6020	ND	U	µg/L	5.0	0.9	10	7/29/10	7/29/10 21:31
Sodium, Total	6010B	**1800**		mg/L	5.0	0.2	10	7/23/10	7/28/10 16:13
Thallium, Total	6020	ND	U	µg/L	10	4	10	7/29/10	7/29/10 21:31
Tin, Total	6010B	**54**		µg/L	40	3	1	7/23/10	7/28/10 01:04
Vanadium, Total	6020	**79**		µg/L	50	12	10	7/29/10	7/29/10 21:31
Zinc, Total	6020	**50**	I	µg/L	100	30	10	7/29/10	7/29/10 21:31

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J1003442-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	7/29/10 19:00
Arsenic, Total	6020	**0.18**	I	µg/L	0.50	0.14	1	7/29/10	7/29/10 19:00
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	7/29/10 19:00
Beryllium, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	7/29/10 19:00
Cadmium, Total	6020	ND	U	µg/L	0.50	0.17	1	7/29/10	7/29/10 19:00
Chromium, Total	6020	ND	U	µg/L	2.0	0.6	1	7/29/10	7/29/10 19:00
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	7/29/10	7/29/10 19:00
Copper, Total	6020	ND	U	µg/L	2.0	0.5	1	7/29/10	7/29/10 19:00
Iron, Total	6010B	ND	U	µg/L	100	10	1	7/23/10	7/27/10 23:25
Lead, Total	6020	ND	U	µg/L	1.0	0.3	1	7/29/10	7/29/10 19:00
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	7/27/10	7/28/10 11:08
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	7/29/10	7/29/10 19:00
Selenium, Total	6020	ND	U	µg/L	5.0	0.9	1	7/29/10	7/29/10 19:00
Silver, Total	6020	ND	U	µg/L	0.50	0.09	1	7/29/10	7/29/10 19:00
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	7/23/10	7/28/10 16:55
Thallium, Total	6020	ND	U	µg/L	1.0	0.4	1	7/29/10	7/29/10 19:00
Tin, Total	6010B	ND	U	µg/L	40	3	1	7/23/10	7/27/10 23:25
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	7/29/10	7/29/10 19:00
Zinc, Total	6020	ND	U	µg/L	10	3	1	7/29/10	7/29/10 19:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 7/21/10 0800
Date Received: 7/21/10

Sample Name: LDSS
Lab Code: J1003442-001

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO3, Total	SM 2320 B	**4790**		mg/L	25	25	5	NA	7/24/10 05:32
Ammonia as Nitrogen	350.1	**844**		mg/L	2.0	0.8	200	NA	7/26/10 16:45
Bicarbonate Alkalinity as CaCO3	SM 2320 B	**4790**		mg/L	25	25	5	NA	7/24/10 05:32
Carbonate Alkalinity as CaCO3	SM 2320 B	ND	U	mg/L	25	25	5	NA	7/24/10 05:32
Chloride	300.0	**1890**		mg/L	5.0	0.9	10	NA	7/22/10 16:47
Conductivity, Field	120.1	**17140**		µMHOS/cm			1	NA	7/21/10 08:00
Cyanide, Total	335.4	**12**		µg/L	10	5	1	7/27/10	7/27/10 17:22
Dissolved Oxygen, Field	360.1	**0.2**		ppm			1	NA	7/21/10 08:00
Nitrate as Nitrogen	300.0	**1.8**	I	mg/L	2.0	0.8	10	NA	7/22/10 16:47
pH, Field	150.1	**8.08**		pH Units			1	NA	7/21/10 08:00
Solids, Total Dissolved	SM 2540 C	**6820**		mg/L	200	200	20	NA	7/27/10 15:47
Sulfide, Total	SM 4500-S2- F	**9**	I	mg/L	16	4	8.0	NA	7/26/10 15:50
Temperature, Field	170.1	**29.8**		deg C			1	NA	7/21/10 08:00
Turbidity, Field	180.1	**416.7**		NTU			1	NA	7/21/10 08:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 7/21/10 0830
Date Received: 7/21/10

Sample Name: LCS
Lab Code: J1003442-002

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO3, Total	SM 2320 B	**5100**		mg/L	25	25	5	NA	7/24/10 06:10
Ammonia as Nitrogen	350.1	**912**		mg/L	2.0	0.8	200	NA	7/26/10 16:47
Bicarbonate Alkalinity as CaCO3	SM 2320 B	**5100**		mg/L	25	25	5	NA	7/24/10 06:10
Carbonate Alkalinity as CaCO3	SM 2320 B	ND	U	mg/L	25	25	5	NA	7/24/10 06:10
Chloride	300.0	**1980**		mg/L	5.0	0.9	10	NA	7/22/10 17:02
Conductivity, Field	120.1	**19750**		µMHOS/cm			1	NA	7/21/10 08:30
Cyanide, Total	335.4	**22**		µg/L	10	5	1	7/27/10	7/27/10 17:23
Dissolved Oxygen, Field	360.1	**0.2**		ppm			1	NA	7/21/10 08:30
Nitrate as Nitrogen	300.0	**3.0**		mg/L	2.0	0.8	10	NA	7/22/10 17:02
pH, Field	150.1	**7.60**		pH Units			1	NA	7/21/10 08:30
Solids, Total Dissolved	SM 2540 C	**7820**		mg/L	200	200	20	NA	7/27/10 15:47
Sulfide, Total	SM 4500-S2- F	ND	U	mg/L	16	4	8	NA	7/26/10 15:50
Temperature, Field	170.1	**28.2**		deg C			1	NA	7/21/10 08:30
Turbidity, Field	180.1	**13.4**		NTU			1	NA	7/21/10 08:30

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J1003442-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO3, Total	SM 2320 B	ND	U	mg/L	5.0	5.0	1	NA	7/24/10 03:08
Ammonia as Nitrogen	350.1	ND	U	mg/L	0.010	0.004	1	NA	7/26/10 16:40
Bicarbonate Alkalinity as CaCO3	SM 2320 B	ND	U	mg/L	5.0	5.0	1	NA	7/24/10 03:08
Carbonate Alkalinity as CaCO3	SM 2320 B	ND	U	mg/L	5.0	5.0	1	NA	7/24/10 03:08
Chloride	300.0	ND	U	mg/L	0.50	0.09	1	NA	7/22/10 15:02
Cyanide, Total	335.4	ND	U	µg/L	10	5	1	7/27/10	7/27/10 17:02
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.07	1	NA	7/22/10 15:02
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	NA	7/27/10 15:47
Sulfide, Total	SM 4500-S2- F	ND	U	mg/L	2.0	0.4	1	NA	7/26/10 15:50

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: Percent

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
LDSS	J1003442-001	89	102	96	103
LCS	J1003442-002	95	105	99	106
TRIP	J1003442-003	89	107	97	104
Method Blank	JQ1002938-02	101	102	100	105
Lab Control Sample	JQ1002938-01	99	98	100	102

Surrogate Recovery Control Limits (%)

Sur1	=	1,2-Dichloroethane-d4	71 - 122
Sur2	=	4-Bromofluorobenzene	75 - 120
Sur3	=	Dibromofluoromethane	82 - 116
Sur4	=	Toluene-d8	88 - 117

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Analyzed: 7/25/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 209799

Lab Control Sample
JQ1002938-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	**18.6**	20.0	93	85 - 117
1,1,1-Trichloroethane (TCA)	**18.9**	20.0	94	79 - 124
1,1,2,2-Tetrachloroethane	**19.4**	20.0	97	83 - 120
1,1,2-Trichloroethane	**19.6**	20.0	98	86 - 114
1,1-Dichloroethane (1,1-DCA)	**19.4**	20.0	97	80 - 128
1,1-Dichloroethene (1,1-DCE)	**19.2**	20.0	96	78 - 130
1,1-Dichloropropene	**19.0**	20.0	95	85 - 124
1,2,3-Trichloropropane	**19.8**	20.0	99	83 - 123
1,2,4-Trichlorobenzene	**18.6**	20.0	93	72 - 123
1,2-Dibromo-3-chloropropane (DBCP)	**17.5**	20.0	87	62 - 123
1,2-Dibromoethane (EDB)	**19.6**	20.0	98	88 - 117
1,2-Dichlorobenzene	**18.8**	20.0	94	84 - 115
1,2-Dichloroethane	**19.4**	20.0	97	80 - 124
1,2-Dichloropropane	**19.4**	20.0	97	79 - 123
1,3-Dichlorobenzene	**18.7**	20.0	94	83 - 112
1,3-Dichloropropane	**19.8**	20.0	99	88 - 117
1,4-Dichlorobenzene	**18.9**	20.0	94	83 - 113
2,2-Dichloropropane	**18.2**	20.0	91	72 - 136
2-Butanone (MEK)	**89.3**	100	89	73 - 127
2-Hexanone	**101**	100	101	71 - 138
4-Methyl-2-pentanone (MIBK)	**99.2**	100	99	72 - 136
Acetone	**95.1**	100	95	67 - 133
Acetonitrile	**89.0**	100	89	67 - 132
Acrolein	**96.1**	100	96	61 - 137
Acrylonitrile	**98.0**	100	98	77 - 127
Allyl Chloride	**18.7**	20.0	94	68 - 128
Benzene	**19.0**	20.0	95	79 - 119
Bromochloromethane	**19.5**	20.0	97	79 - 129
Bromodichloromethane	**18.5**	20.0	92	81 - 123
Bromoform	**17.7**	20.0	88	68 - 129
Bromomethane	**19.8**	20.0	99	79 - 130
Carbon Disulfide	**95.1**	100	95	76 - 138

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Analyzed: 7/25/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 209799

Lab Control Sample
JQ1002938-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Carbon Tetrachloride	**18.0**	20.0	90	81 - 125
Chlorobenzene	**19.7**	20.0	98	86 - 113
Chloroethane	**19.5**	20.0	97	74 - 126
Chloroform	**19.1**	20.0	96	83 - 124
Chloromethane	**19.5**	20.0	98	67 - 135
Chloroprene	**20.4**	20.0	102	81 - 132
cis-1,2-Dichloroethene	**19.4**	20.0	97	80 - 126
cis-1,3-Dichloropropene	**19.0**	20.0	95	86 - 123
Dibromochloromethane	**18.2**	20.0	91	82 - 121
Dibromomethane	**19.0**	20.0	95	83 - 123
Dichlorodifluoromethane	**18.4**	20.0	92	69 - 138
Ethyl Methacrylate	**20.6**	20.0	103	78 - 127
Ethylbenzene	**19.3**	20.0	96	90 - 118
Hexachlorobutadiene	**18.8**	20.0	94	73 - 140
Iodomethane	**96.5**	100	97	68 - 134
Isobutyl Alcohol	**391**	400	98	62 - 139
m,p-Xylenes	**39.3**	40.0	98	86 - 121
Methacrylonitrile	**20.0**	20.0	100	77 - 129
Methyl Methacrylate	**19.8**	20.0	99	79 - 128
Methylene Chloride	**18.7**	20.0	93	72 - 124
Naphthalene	**17.0**	20.0	85	59 - 135
o-Xylene	**19.6**	20.0	98	89 - 119
Propionitrile	**98.2**	100	98	77 - 131
Styrene	**20.0**	20.0	100	89 - 122
Tetrachloroethene (PCE)	**19.4**	20.0	97	80 - 121
Toluene	**19.3**	20.0	97	86 - 117
trans-1,2-Dichloroethene	**19.6**	20.0	98	77 - 124
trans-1,3-Dichloropropene	**18.6**	20.0	93	83 - 124
trans-1,4-Dichloro-2-butene	**12.1**	20.0	60	53 - 143
Trichloroethene (TCE)	**19.6**	20.0	98	76 - 124
Trichlorofluoromethane	**20.0**	20.0	100	74 - 134
Vinyl Acetate	**98.0**	100	98	61 - 148

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Analyzed: 7/25/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L
Basis: NA

Analysis Lot: 209799

Analyte Name	Lab Control Sample JQ1002938-01 Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	**19.8**	20.0	99	78 - 132

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
LDSS	J1003442-001	107
LCS	J1003442-002	91
Method Blank	JWG1002570-4	118
Lab Control Sample	JWG1002570-3	115

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Extracted: 07/26/2010
Date Analyzed: 07/29/2010

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1002570

	Lab Control Sample JWG1002570-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.229	0.250	92	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.325	0.250	130	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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442

Surrogate Recovery Summary
Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4	Sur5	Sur6
LDSS	J1003442-001	30 D	12 D	102 D	57 D	84 D	73 D
LCS	J1003442-002	39 #	49 #	108 #	54 #	102 #	58 #
Method Blank	JWG1002584-4	2 #	9 #	72	40	14 #	81
LCSMS	JWG1002584-1	49	53 #	101	63	101	71
LCSDMS	JWG1002584-2	52	54 #	4 #	71	115	82
Lab Control Sample	JWG1002584-3	40	24	92	64	85	91

Surrogate Recovery Control Limits (%)

Sur1 =	2-Fluorophenol	10-77	Sur5 =	2,4,6-Tribromophenol	30-143
Sur2 =	Phenol-d6	10-51	Sur6 =	Terphenyl-d14	23-165
Sur3 =	Nitrobenzene-d5	32-106			
Sur4 =	2-Fluorobiphenyl	30-102			

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:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Extracted:**	07/27/2010
Sample Matrix:	Water	**Date Analyzed:**	08/02/2010 - 08/03/2010

Matrix Spike/Duplicate Matrix Spike Summary
Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	LCS	**Units:**	ug/L
Lab Code:	J1003442-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C	**Extraction Lot:**	JWG1002584

		LCSMS JWG1002584-1 Matrix Spike			LCSDMS JWG1002584-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
N-Nitrosodimethylamine	ND	46.5	102	46	45.3	102	44	27-66	3	30
Phenol	610	752	102	138 #	851	102	236 #	10-70	12	30
Bis(2-chloroethyl) Ether	ND	ND	102	0 *	ND	102	0 *	45-90		30
2-Chlorophenol	ND	62.7	102	61	72.7	102	71	19-113	15	30
1,3-Dichlorobenzene	ND	33.2	102	33	35.5	102	35	30-119	7	30
1,4-Dichlorobenzene	8.5	45.8	102	37	49.6	102	40	31-119	8	30
1,2-Dichlorobenzene	ND	40.1	102	39	45.2	102	44	32-123	12	30
Bis(2-chloroisopropyl) Ether	ND	77.6	102	76	67.5	102	66	46-83	14	30
Benzyl alcohol	ND	ND	102	0 *	ND	102	0 *	39-96		30
2-Methylphenol	13	80.2	102	66	84.4	102	70	32-96	5	30
Hexachloroethane	ND	40.8	102	40	51.9	102	51	33-99	24	30
N-Nitrosodi-n-propylamine	ND	159	102	156 *	90.3	102	88	47-89	55 *	30
4-Methylphenol	480	551	153	46	594	153	74	12-106	7	30
Nitrobenzene	ND	110	102	108	160	102	157 *	35-109	37 *	30
Isophorone	ND	ND	102	0 *	ND	102	0 *	47-97		30
2-Nitrophenol	ND	105	102	103	92.8	102	91	16-133	12	30
2,4-Dimethylphenol	ND	101	102	99 *	105	102	103 *	35-88	4	30
bis(2-Chloroethoxy)methane	ND	104	102	102 *	98.7	102	97 *	48-90	5	30
2,4-Dichlorophenol	ND	88.8	102	87	83.5	102	82	21-122	6	30
1,2,4-Trichlorobenzene	ND	44.1	102	43	42.7	102	42	32-123	3	30
Naphthalene	8.2	69.2	102	60	75.6	102	66	41-93	9	30
4-Chloroaniline	ND	ND	102	0 *	ND	102	0 *	10-94		30
Hexachlorobutadiene	ND	56.5	102	55	58.9	102	58	35-95	4	30
4-Chloro-3-methylphenol	ND	181	102	178 *	ND	102	0 *	28-115	200 *	30
2-Methylnaphthalene	ND	59.5	102	58	58.8	102	58	48-91	1	30
Hexachlorocyclopentadiene	ND	24.2	102	24	34.4	102	34	23-112	35 *	30
2,4,6-Trichlorophenol	ND	78.7	102	77	96.2	102	94	10-141	20	30
2,4,5-Trichlorophenol	ND	94.7	102	93	105	102	103	18-135	11	30
2-Chloronaphthalene	ND	53.1	102	52	64.9	102	64	49-100	20	30
2-Nitroaniline	ND	202	102	198 *	152	102	149 *	26-107	28	30
Acenaphthylene	ND	56.6	102	55	72.5	102	71	46-95	25	30
Dimethyl Phthalate	ND	78.6	102	77	92.4	102	91	38-111	16	30
2,6-Dinitrotoluene	ND	77.4	102	76	90.7	102	89	43-125	16	30

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Jacksonville, City of	**Service Request:**	J1003442
Project:	Trail Ridge	**Date Extracted:**	07/27/2010
Sample Matrix:	Water	**Date Analyzed:**	08/02/2010 - 08/03/2010

Matrix Spike/Duplicate Matrix Spike Summary
Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	LCS	**Units:**	ug/L
Lab Code:	J1003442-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C	**Extraction Lot:**	JWG1002584

		LCSMS JWG1002584-1 Matrix Spike			LCSDMS JWG1002584-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Acenaphthene	ND	64.1	102	63	73.5	102	72	48-96	14	30
3-Nitroaniline	ND	ND	102	0 *	ND	102	0 *	23-84		30
2,4-Dinitrophenol	ND	96.1	102	94	92.0	102	90	10-150	4	30
Dibenzofuran	ND	61.0	102	60	75.2	102	74	49-101	21	30
4-Nitrophenol	ND	ND	102	0 *	ND	102	0 *	10-101		30
2,4-Dinitrotoluene	ND	79.3	102	78	97.5	102	96	48-126	21	30
2,3,4,6-Tetrachlorophenol	ND	94.6	102	93	107	102	105	50-150	12	30
Fluorene	ND	72.7	102	71	91.8	102	90	54-95	23	30
4-Chlorophenyl Phenyl Ether	ND	70.4	102	69	85.3	102	84	56-103	19	30
Diethyl Phthalate	ND	116	102	114 *	150	102	147 *	59-103	25	30
4-Nitroaniline	ND	ND	102	0 *	ND	102	0 *	14-119		30
2-Methyl-4,6-dinitrophenol	ND	83.4	102	82	82.2	102	81	10-141	1	30
N-Nitrosodiphenylamine	ND	67.9	102	67	73.0	102	72	30-118	7	30
4-Bromophenyl Phenyl Ether	ND	86.4	102	85	94.0	102	92	62-122	8	30
Hexachlorobenzene	ND	77.2	102	76	87.6	102	86	56-110	13	30
Pentachlorophenol	ND	132	102	129	130	102	128	18-141	1	30
Phenanthrene	ND	70.3	102	69	79.8	102	78	49-95	13	30
Anthracene	ND	70.6	102	69	84.6	102	83	50-101	18	30
Di-n-butyl Phthalate	2.4	91.4	102	87	105	102	101	61-109	14	30
Fluoranthene	ND	63.6	102	62	74.3	102	73	48-103	15	30
Pyrene	ND	74.8	102	73	81.4	102	80	49-103	8	30
Butyl Benzyl Phthalate	ND	100	102	98	110	102	108	51-111	9	30
Benz(a)anthracene	ND	63.2	102	62	74.1	102	73	40-104	16	30
Chrysene	ND	63.9	102	63	72.5	102	71	47-105	13	30
Bis(2-ethylhexyl) Phthalate	3.5	102	102	97	124	102	118 *	49-114	20	30
Di-n-octyl Phthalate	ND	85.1	102	83	95.0	102	93	43-119	11	30
Benzo(b)fluoranthene	ND	73.8	102	72	83.4	102	82	54-105	12	30
Benzo(k)fluoranthene	ND	66.3	102	65	84.2	102	82	50-101	24	30
Benzo(a)pyrene	ND	60.2	102	59	69.0	102	68	48-100	14	30
Indeno(1,2,3-cd)pyrene	ND	84.6	102	83	92.4	102	91	50-115	9	30
Dibenz(a,h)anthracene	ND	88.7	102	87	105	102	103	44-124	17	30
Benzo(g,h,i)perylene	ND	83.0	102	81	94.0	102	92	51-114	12	30

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Extracted: 07/27/2010
Date Analyzed: 08/02/2010

Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1002584

	Lab Control Sample JWG1002584-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Bis(2-chloroethyl) Ether	31.5	50.0	63	41-99
Phenol	14.2	50.0	28	12-54
2-Chlorophenol	32.0	50.0	64	35-101
1,3-Dichlorobenzene	23.4	50.0	47	30-119
1,4-Dichlorobenzene	25.8	50.0	52	31-119
1,2-Dichlorobenzene	26.2	50.0	52	32-123
Bis(2-chloroisopropyl) Ether	33.0	50.0	66	31-94
Benzyl alcohol	32.4	50.0	65	32-110
2-Methylphenol	32.0	50.0	64	21-100
Hexachloroethane	28.1	50.0	56	19-113
N-Nitrosodi-n-propylamine	53.1	50.0	106 *	43-103
4-Methylphenol	27.2	75.0	36	15-95
Nitrobenzene	46.1	50.0	92	36-116
Isophorone	59.1	50.0	118 *	46-106
2-Nitrophenol	44.0	50.0	88	40-120
2,4-Dimethylphenol	40.3	50.0	81	38-110
bis(2-Chloroethoxy)methane	30.7	50.0	61	47-100
2,4-Dichlorophenol	46.3	50.0	93	36-117
1,2,4-Trichlorobenzene	26.9	50.0	54	50-120
Naphthalene	33.0	50.0	66	40-97
4-Chloroaniline	35.7	50.0	71	39-110
Hexachlorobutadiene	38.6	50.0	77	20-110
4-Chloro-3-methylphenol	55.9	50.0	112	36-117
2-Methylnaphthalene	36.5	50.0	73	46-110
Hexachlorocyclopentadiene	27.7	50.0	55	23-115
2,4,6-Trichlorophenol	44.0	50.0	88	41-115
2,4,5-Trichlorophenol	44.3	50.0	89	47-113
2-Chloronaphthalene	29.9	50.0	60	47-106
2-Nitroaniline	54.9	50.0	110 *	33-94
Acenaphthylene	36.7	50.0	73	45-99
Dimethyl Phthalate	43.7	50.0	87	32-119
2,6-Dinitrotoluene	45.0	50.0	90	55-121
Acenaphthene	30.7	50.0	61	42-106
3-Nitroaniline	36.1	50.0	72	25-91
2,4-Dinitrophenol	47.6	50.0	95	27-128

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Extracted: 07/27/2010
Date Analyzed: 08/02/2010

Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1002584

	Lab Control Sample JWG1002584-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dibenzofuran	32.5	50.0	65	49-103
4-Nitrophenol	32.6	50.0	65	10-86
2,4-Dinitrotoluene	47.1	50.0	94	54-121
Fluorene	36.4	50.0	73	54-97
4-Chlorophenyl Phenyl Ether	32.0	50.0	64	53-108
Diethyl Phthalate	49.0	50.0	98	56-108
4-Nitroaniline	38.3	50.0	77	44-102
2-Methyl-4,6-dinitrophenol	44.9	50.0	90	46-117
N-Nitrosodiphenylamine	34.0	50.0	68	30-122
4-Bromophenyl Phenyl Ether	38.9	50.0	78	63-123
Hexachlorobenzene	41.7	50.0	83	55-110
Pentachlorophenol	52.2	50.0	104	35-120
Phenanthrene	38.2	50.0	76	49-110
Anthracene	34.5	50.0	69	50-104
Carbazole	39.3	50.0	79	48-118
Di-n-butyl Phthalate	43.2	50.0	86	57-118
Fluoranthene	35.9	50.0	72	48-110
Pyrene	43.5	50.0	87	35-110
Butyl Benzyl Phthalate	51.7	50.0	103	40-117
Benz(a)anthracene	43.0	50.0	86	42-114
Chrysene	44.1	50.0	88	50-113
Bis(2-ethylhexyl) Phthalate	51.9	50.0	104	41-127
Di-n-octyl Phthalate	49.0	50.0	98	35-139
Benzo(b)fluoranthene	43.8	50.0	88	56-110
Benzo(k)fluoranthene	43.4	50.0	87	48-110
Benzo(a)pyrene	39.6	50.0	79	46-110
Indeno(1,2,3-cd)pyrene	41.9	50.0	84	54-115
Dibenz(a,h)anthracene	46.4	50.0	93	51-125
Benzo(g,h,i)perylene	46.7	50.0	93	53-116

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442

Surrogate Recovery Summary
Organochlorine Pesticides by GC-ECD

Extraction Method: EPA 3510C
Analysis Method: 8081A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
LDSS	J1003442-001	41 D	56 D
LCS	J1003442-002	84 D	38 D
Method Blank	JWG1002581-4	47	83
LDSSMS	JWG1002581-1	57 D	51 D
LDSSDMS	JWG1002581-2	51 D	52 D
Lab Control Sample	JWG1002581-3	60	81

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	32-92
Sur2 =	Decachlorobiphenyl	13-104

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Extracted: 07/27/2010
Date Analyzed: 08/04/2010

Matrix Spike/Duplicate Matrix Spike Summary
Organochlorine Pesticides by GC-ECD

Sample Name: LDSS
Lab Code: J1003442-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8081A

Level: Low
Extraction Lot: JWG1002581

Analyte Name	Sample Result	LDSSMS JWG1002581-1 Matrix Spike Result	Expected	%Rec	LDSSDMS JWG1002581-2 Duplicate Matrix Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
alpha-BHC	ND	0.306	0.851	36 *	0.298	0.851	35 *	39-108	3	30
gamma-BHC (Lindane)	ND	0.868	0.851	102	0.783	0.851	92	41-105	10	30
beta-BHC	ND	0.426	0.851	50	0.451	0.851	53	32-115	6	30
delta-BHC	ND	0.570	0.851	67	1.09	0.851	128 *	23-106	63 *	30
Heptachlor	ND	0.400	0.851	47	0.417	0.851	49	28-111	4	30
Aldrin	ND	ND	0.851	0 *	ND	0.851	0 *	24-110		30
Heptachlor Epoxide	ND	0.528	0.851	62	0.621	0.851	73	40-111	16	30
gamma-Chlordane	ND	0.519	0.851	61	0.519	0.851	61	28-109	0	30
alpha-Chlordane	ND	0.528	0.851	62	0.519	0.851	61	32-104	2	30
4,4'-DDE	ND	0.502	0.851	59	0.511	0.851	60	26-117	2	30
Endosulfan I	ND	0.545	0.851	64	0.545	0.851	64	40-108	0	30
Dieldrin	ND	0.570	0.851	67	0.562	0.851	66	37-116	2	30
Endrin	ND	0.511	0.851	60	0.485	0.851	57	35-127	5	30
4,4'-DDD	ND	0.357	0.851	42	0.306	0.851	36 *	41-110	15	30
Endosulfan II	ND	0.511	0.851	60	0.511	0.851	60	42-110	0	30
4,4'-DDT	ND	0.477	0.851	56	0.485	0.851	57	27-115	2	30
Endrin Aldehyde	ND	0.221	0.851	26	0.255	0.851	30	20-116	14	30
Endosulfan Sulfate	ND	0.562	0.851	66	0.553	0.851	65	41-109	2	30
Endrin Ketone	ND	0.553	0.851	65	0.545	0.851	64	38-108	2	30

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Extracted: 07/27/2010
Date Analyzed: 08/02/2010

Lab Control Spike Summary
Organochlorine Pesticides by GC-ECD

Extraction Method: EPA 3510C
Analysis Method: 8081A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1002581

	Lab Control Sample JWG1002581-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
alpha-BHC	0.310	0.400	78	56-104
gamma-BHC (Lindane)	0.310	0.400	78	57-101
beta-BHC	0.332	0.400	83	55-97
delta-BHC	0.368	0.400	92	31-105
Heptachlor	0.303	0.400	76	52-100
Aldrin	0.304	0.400	76	45-108
Heptachlor Epoxide	0.314	0.400	79	59-103
gamma-Chlordane	0.362	0.400	91	53-107
alpha-Chlordane	0.354	0.400	89	54-104
4,4'-DDE	0.354	0.400	89	58-114
Endosulfan I	0.348	0.400	87	61-104
Dieldrin	0.356	0.400	89	57-111
Endrin	0.332	0.400	83	57-117
4,4'-DDD	0.244	0.400	61	56-116
Endosulfan II	0.348	0.400	87	50-106
4,4'-DDT	0.412	0.400	103	41-115
Endrin Aldehyde	0.340	0.400	85	51-108
Methoxychlor	0.347	0.400	87	43-123
Endosulfan Sulfate	0.358	0.400	90	56-107
Endrin Ketone	0.357	0.400	89	46-101

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Extraction Method: EPA 3510C
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
LDSS	J1003442-001	56 D
LCS	J1003442-002	44 D
Method Blank	JWG1002582-2	85
Lab Control Sample	JWG1002582-1	80

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 24-120

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Extracted: 07/27/2010
Date Analyzed: 08/02/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Extraction Method: EPA 3510C
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1002582

	Lab Control Sample JWG1002582-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Aroclor 1016	3.06	4.00	77	39-116
Aroclor 1260	3.20	4.00	80	41-118

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Analyzed: 7/28/10 - 7/29/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003442-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	**48.8**	50.0	98	80 - 120
Arsenic, Total	6020	**46.7**	50.0	93	80 - 120
Barium, Total	6020	**50.5**	50.0	101	80 - 120
Beryllium, Total	6020	**47.7**	50.0	95	80 - 120
Cadmium, Total	6020	**46.5**	50.0	93	80 - 120
Chromium, Total	6020	**51.4**	50.0	103	80 - 120
Cobalt, Total	6020	**50.7**	50.0	101	80 - 120
Copper, Total	6020	**49.3**	50.0	99	80 - 120
Lead, Total	6020	**50.8**	50.0	102	80 - 120
Mercury, Total	7470A	**5.36**	5.00	107	80 - 120
Nickel, Total	6020	**48.2**	50.0	96	80 - 120
Selenium, Total	6020	**43.5**	50.0	87	80 - 120
Silver, Total	6020	**49.7**	50.0	99	80 - 120
Thallium, Total	6020	**49.6**	50.0	99	80 - 120
Vanadium, Total	6020	**51.8**	50.0	104	80 - 120
Zinc, Total	6020	**89.4**	100	89	80 - 120

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Analyzed: 7/27/10 - 7/28/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

		Lab Control Sample J1003442-LCS1			Duplicate Lab Control Sample J1003442-DLCS1					
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Iron, Total	6010B	**2030**	2000	102	**2020**	2000	101	80 - 120	1	20
Tin, Total	6010B	**5100**	5000	102	**5050**	5000	101	80 - 120	1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Analyzed: 7/27/10 - 7/28/10

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

		Lab Control Sample J1003442-LCS1			Duplicate Lab Control Sample J1003442-DLCS1					
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sodium, Total	6010B	**10.1**	10.0	101	**10.2**	10.0	102	80 - 120	1	20

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Collected: 7/21/10
Date Received: 7/21/10
Date Analyzed: 7/24/10

Duplicate Sample Summary
Alkalinity Titration 20th Ed.

Sample Name: LDSS
Lab Code: J1003442-001

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	LDSSDUP Duplicate Sample J1003442-DUP Result	Average	RPD	RPD Limit
Alkalinity as CaCO3, Total	SM 2320 B	25	25	4790	4730	4760	1	20
Bicarbonate Alkalinity as CaCO3	SM 2320 B	25	25	4790	4730	4760	1	20
Carbonate Alkalinity as CaCO3	SM 2320 B	25	25	ND U	ND U	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Analyzed: 7/26/10 - 7/27/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

		Lab Control Sample J1003442-LCS1			Duplicate Lab Control Sample J1003442-DLCS1					
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Solids, Total Dissolved	SM 2540 C	**297**	300	99	**303**	300	101	85 - 115	2	20
Sulfide, Total	SM 4500-S2- F	**20.1**	20.0	101	**20.2**	20.0	101	85 - 115	0	20

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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Analyzed: 7/22/10 - 7/27/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003442-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	**0.957**	1.00	96	90 - 110
Chloride	300.0	**52.6**	50.0	105	90 - 110
Nitrate as Nitrogen	300.0	**4.97**	5.00	99	90 - 110
Solids, Total Dissolved	SM 2540 C	**27.0**	30	90	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: Jacksonville, City of
Project: Trail Ridge
Sample Matrix: Water

Service Request: J1003442
Date Analyzed: 7/22/10 - 7/27/10

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J1003442-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	335.4	**105**	100	105	90 - 110

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.
Cooler Receipt Form

Client: Trail Ridge Service Request #: J1003442
Project: Leachate

Cooler received on 7/21/10 and opened on 7/21/10 by SC

COURIER: CAS UPS FEDEX Client Other _____ Airbill # _____

1	Were custody seals on outside of cooler?	Yes	No		
	If yes, how many and where?	#: 1 on lid	other		
2	Were seals intact and signature and date correct?	Yes	No	N/A	
3	Were custody papers properly filled out?	Yes	No	N/A	
4	Temperature of cooler(s) upon receipt (Should be > 0°C and < 6°C)	0.3 0.3			
5	Thermometer ID	TB TB			
6	Temperature Blank Present?	Yes	No		
7	Were Ice or Ice Packs present	Ice	Ice Packs	No	
8	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A	
9	Type of packing material present	bubble wrap			
10	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A	
11	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A	
12	Were the correct bottles used for the tests indicated?	Yes	No	N/A	
13	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	N/A	
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2				
	Preservative additions noted below				
14	Were all samples received within analysis holding times?	Yes	No	N/A	
15	Were VOA vials checked for absence of air bubbles? If present, note below	Yes	No	N/A	
16	Where did the bottles originate?	CAS	Client		

Sample ID	Reagent	Lot #	ml added	Initials Date/Time
LDSS	H2SO4	GenR18-63E	1.0	SL 7/21/10 1500
LCS	H2SO4	GenR18-63E	1.0	
LDSS	HNO3	Met-1-83H	4.0	
LCS	HNO3	Met-1-83H	4.0	
LDSS	NAOH	Smol-4C	4 pellets	
LCS	NAOH	Smol-4C	4 pellets	
LDSS	ZnAc2	Smol-6C	2 scoops	
LCS	ZnAc2	Smol-6C	2 scoops	

Additional comments and/or explanation of all discrepancies noted above:

Unable to bring cyanide + sulfide to proper pH

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1003442 Date: _____ Initials: _____

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.	
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.	
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate			
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A	
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-				-	-		-	
-001	3	3				1				1	1	1			1							7										-001
-002	3	3				1				1	1	1			1							7										-002
-003		2																														-003
-004																																-004
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NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR # J1003442
CAS Contact

Project Name: TRAIL RIDGE	Project Number:
Project Manager: BRAD STONE	Email Address:
Company/Address: HDR / 200 W. FORSYTH ST., STE 800 JACKSONVILLE, FL 32202	
Phone #: 904 598 8553	FAX#:
Sampler's Signature:	Sampler's Printed Name: DAN ARMOUR

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

[redacted]

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8011	8260	NH3	METALS	SULFIDE	CYANIDE	Cl, NO3, ACK, TDS	8270, 8081, 8082, 8141, 8151							REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE						0	1	3	2	4/5	4	0	0							
LDSS		7-21	0800	LEACH	18	3	3	1	1	1	1	1	7							
LCS		7-21	0830	LEACH	18	3	3	1	1	1	1	1	7							
TRIP		7-21	—	W	✓		✓													

1. HNO3
2. HCl
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: DAN ARMOUR	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: Bauer	Printed Name	Printed Name
Firm: PRO-TECH	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 7-21-10 1115	Date/Time: 7/21/10 12:15	Date/Time: 7/21/10 1:10	Date/Time: 7-21-10 1310	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: LDSS (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
072110	0800	—	—	—	—

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: Y or N

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: X

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

X-Other: Sample Port on Leachate System

WELL DATA

Well Elevation (at TOC)	(ft/msl)	Depth to Water (DTW) (from TOC)	(ft)
Groundwater Elevation (site datum, from TOC)	(ft/msl)	Total Well Depth (from TOC)	(ft)
Stick Up (from ground elevation)	(ft)	Casing ID	(in)
Casing Material			

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0800	NA	8.08	17140	29.8	4167	0.2		
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
072110	8.08	17140	29.8	4167	0.2		

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLOUDY Odor: ____ Color: BLACK Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: Foggy 85 °F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
7/21/10	DAN ARMOUR	[signature]	PRO-TECH
/ /			

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DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: TRAIL RIDGE

Site No.:

Sample Point: LCS (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
07/21/10	08:30				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: X

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

X-Other: Sample Port on leachate System

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) ____ (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
08:30	NA	1st 7.60	1st 19750	28.2	134	0.2		
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
07/21/10	7.60	19750	28.2	134	0.2		

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: SLT. CLOUDY Odor: ____ Color: Amber/Brown Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: Foggy 85°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

COMPOSITE OF LEACHATE TANKS #1 THROUGH #5.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
7/21/10	DAN ARMOUR	[signature]	PRO-TEM
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Columbia Analytical Services
9143 Philips Highway, Suite 200
Jacksonville, FL 32256
Tel 904-739-2277
Fax 904-739-2011

Appendix A

Subcontracted Analytical Results

Environmental Conservation Laboratories, Inc.
10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945

www.encolabs.com

Monday, August 2, 2010

Columbia Analytical Svcs. (CO009)

Attn: Craig Myers

9143 Philips Highway, Suite 200

Jacksonville, FL 32256

RE: Laboratory Results for
Project Number: J1003442, Project Name/Desc: J1003442
ENCO Workorder: A003994

Dear Craig Myers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, July 23, 2010.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Ronald Wambles

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 11.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: LDSS	Lab ID: A003994-01		Sampled: 07/21/10 08:00		Received: 07/23/10 08:00
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8141B	07/28/10	09/05/10	07/27/10	08:49	7/30/2010 13:32
EPA 8151A	07/28/10	09/04/10	07/26/10	17:06	7/28/2010 23:40

Client ID: LCS	Lab ID: A003994-02		Sampled: 07/21/10 08:30		Received: 07/23/10 08:00
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8141B	07/28/10	09/05/10	07/27/10	08:49	7/30/2010 15:28
EPA 8151A	07/28/10	09/04/10	07/26/10	17:06	7/29/2010 00:04

SAMPLE DETECTION SUMMARY

No positive results detected.

www.encolabs.com

ANALYTICAL RESULTS

Description: LDSS
Matrix: Water
Project: J1003442

Lab Sample ID: A003994-01
Sampled: 07/21/10 08:00
Sampled By:

Received: 07/23/10 08:00
Work Order: A003994

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	0G26044	EPA 8151A	07/28/10 23:40	JJB	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	0G26044	EPA 8151A	07/28/10 23:40	JJB	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	0G26044	EPA 8151A	07/28/10 23:40	JJB	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	0G26044	EPA 8151A	07/28/10 23:40	JJB	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	0G26044	EPA 8151A	07/28/10 23:40	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*3.9*	*1*	*2.00*	*196 %*	*68-139*	*0G26044*	*EPA 8151A*	*07/28/10 23:40*	*JJB*	*QS-06*

www.encolabs.com

Description: LDSS
Matrix: Water
Project: J1003442

Lab Sample ID: A003994-01
Sampled: 07/21/10 08:00
Sampled By:

Received: 07/23/10 08:00
Work Order: A003994

Organophosphorus Compounds by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Azinphos-methyl [86-50-0] ^	0.15	U	ug/L	1	0.15	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Bolstar [35400-43-2] ^	0.096	U	ug/L	1	0.096	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Chlorpyrifos [2921-88-2] ^	0.078	U	ug/L	1	0.078	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Coumaphos [56-72-4] ^	0.15	U	ug/L	1	0.15	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Demeton [8065-48-3]	0.064	U	ug/L	1	0.064	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Diazinon [333-41-5] ^	0.065	U	ug/L	1	0.065	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Dichlorofenthion [97-17-6] ^	0.071	U	ug/L	1	0.071	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Dichlorvos [62-73-7] ^	0.17	U	ug/L	1	0.17	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Dimethoate [60-51-5] ^	0.12	U	ug/L	1	0.12	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Disulfoton [298-04-4] ^	0.054	U	ug/L	1	0.054	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
EPN [2104-64-5] ^	0.14	U	ug/L	1	0.14	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Ethion [563-12-2] ^	0.12	U	ug/L	1	0.12	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Ethoprop [13194-48-4] ^	0.066	U	ug/L	1	0.066	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Ethyl Parathion [56-38-2] ^	0.11	U	ug/L	1	0.11	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Fensulfothion [115-90-2] ^	0.11	U	ug/L	1	0.11	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Fenthion [55-38-9] ^	0.097	U	ug/L	1	0.097	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Malathion [121-75-5] ^	0.10	U	ug/L	1	0.10	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Merphos [150-50-5] ^	0.26	U	ug/L	1	0.26	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Methyl parathion [298-00-0] ^	0.11	U	ug/L	1	0.11	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Mevinphos [7786-34-7] ^	0.19	U	ug/L	1	0.19	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Monocrotophos [6923-22-4] ^	0.060	U	ug/L	1	0.060	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Naled [300-76-5] ^	0.24	U	ug/L	1	0.24	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Phorate [298-02-2] ^	0.054	U	ug/L	1	0.054	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Ronnel [299-84-3] ^	0.087	U	ug/L	1	0.087	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Stirophos (Tetrachlorvinphos) [22248-79-9] ^	0.091	U	ug/L	1	0.091	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Sulfotep [3689-24-5] ^	0.080	U	ug/L	1	0.080	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
TEPP [107-49-3] ^	0.18	U	ug/L	1	0.18	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	
Tokuthion (Prothiofos) [34643-46-4] ^	0.092	U	ug/L	1	0.092	1.0	0G27005	EPA 8141B	07/30/10 13:32	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Tributyl Phosphate	*3.0*	*1*	*4.00*	*76 %*	*17-139*	*0G27005*	*EPA 8141B*	*07/30/10 13:32*	*JJB*	
Triphenyl phosphate	*2.4*	*1*	*4.00*	*60 %*	*22-165*	*0G27005*	*EPA 8141B*	*07/30/10 13:32*	*JJB*	

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Description: LCS
Matrix: Water
Project: J1003442

Lab Sample ID: A003994-02
Sampled: 07/21/10 08:30
Sampled By:

Received: 07/23/10 08:00
Work Order: A003994

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	0G26044	EPA 8151A	07/29/10 00:04	JJB	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	0G26044	EPA 8151A	07/29/10 00:04	JJB	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	0G26044	EPA 8151A	07/29/10 00:04	JJB	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	0G26044	EPA 8151A	07/29/10 00:04	JJB	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	0G26044	EPA 8151A	07/29/10 00:04	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*3.5*	*1*	*2.00*	*174 %*	*68-139*	*0G26044*	*EPA 8151A*	*07/29/10 00:04*	*JJB*	*QS-06*

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Description: LCS
Matrix: Water
Project: J1003442

Lab Sample ID: A003994-02
Sampled: 07/21/10 08:30
Sampled By:

Received: 07/23/10 08:00
Work Order: A003994

Organophosphorus Compounds by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Azinphos-methyl [86-50-0] ^	0.15	U	ug/L	1	0.15	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Bolstar [35400-43-2] ^	0.096	U	ug/L	1	0.096	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Chlorpyrifos [2921-88-2] ^	0.078	U	ug/L	1	0.078	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Coumaphos [56-72-4] ^	0.15	U	ug/L	1	0.15	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Demeton [8065-48-3]	0.064	U	ug/L	1	0.064	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Diazinon [333-41-5] ^	0.065	U	ug/L	1	0.065	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Dichlorofenthion [97-17-6] ^	0.071	U	ug/L	1	0.071	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Dichlorvos [62-73-7] ^	0.17	U	ug/L	1	0.17	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Dimethoate [60-51-5] ^	0.12	U	ug/L	1	0.12	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Disulfoton [298-04-4] ^	0.054	U	ug/L	1	0.054	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
EPN [2104-64-5] ^	0.14	U	ug/L	1	0.14	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Ethion [563-12-2] ^	0.12	U	ug/L	1	0.12	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Ethoprop [13194-48-4] ^	0.066	U	ug/L	1	0.066	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Ethyl Parathion [56-38-2] ^	0.11	U	ug/L	1	0.11	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Fensulfothion [115-90-2] ^	0.11	U	ug/L	1	0.11	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Fenthion [55-38-9] ^	0.097	U	ug/L	1	0.097	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Malathion [121-75-5] ^	0.10	U	ug/L	1	0.10	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Merphos [150-50-5] ^	0.26	U	ug/L	1	0.26	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Methyl parathion [298-00-0] ^	0.11	U	ug/L	1	0.11	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Mevinphos [7786-34-7] ^	0.19	U	ug/L	1	0.19	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Monocrotophos [6923-22-4] ^	0.060	U	ug/L	1	0.060	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Naled [300-76-5] ^	0.24	U	ug/L	1	0.24	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Phorate [298-02-2] ^	0.054	U	ug/L	1	0.054	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Ronnel [299-84-3] ^	0.087	U	ug/L	1	0.087	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Stirophos (Tetrachlorvinphos) [22248-79-9] ^	0.091	U	ug/L	1	0.091	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Sulfotep [3689-24-5] ^	0.080	U	ug/L	1	0.080	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
TEPP [107-49-3] ^	0.18	U	ug/L	1	0.18	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	
Tokuthion (Prothiofos) [34643-46-4] ^	0.092	U	ug/L	1	0.092	1.0	0G27005	EPA 8141B	07/30/10 15:28	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Tributyl Phosphate	*2.3*	*1*	*4.00*	*58 %*	*17-139*	*0G27005*	*EPA 8141B*	*07/30/10 15:28*	*JJB*	
Triphenyl phosphate	*1.8*	*1*	*4.00*	*46 %*	*22-165*	*0G27005*	*EPA 8141B*	*07/30/10 15:28*	*JJB*	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 0G26044 - EPA 3510C

Blank (0G26044-BLK1) Prepared: 07/26/2010 17:06 Analyzed: 07/28/2010 17:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.053	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.056	U	0.50	ug/L							
2,4-D	0.091	U	0.50	ug/L							
Dinoseb	0.28	U	0.50	ug/L							
Pentachlorophenol	0.043	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*105*	*68-139*			

LCS (0G26044-BS1) Prepared: 07/26/2010 17:06 Analyzed: 07/28/2010 18:47

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.8		0.50	ug/L	2.00		90	68-154			
2,4-D	1.9		0.50	ug/L	2.00		94	62-144			
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*103*	*68-139*			

Matrix Spike (0G26044-MS1) Prepared: 07/26/2010 17:06 Analyzed: 07/28/2010 18:22

Source: A003983-05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.1		0.50	ug/L	2.00	0.056 U	104	68-154			
2,4-D	2.2		0.50	ug/L	2.00	0.091 U	110	62-144			
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*112*	*68-139*			

Matrix Spike Dup (0G26044-MSD1) Prepared: 07/26/2010 17:06 Analyzed: 07/28/2010 19:11

Source: A003983-05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00	0.056 U	101	68-154	3	15	
2,4-D	2.2		0.50	ug/L	2.00	0.091 U	110	62-144	0.4	33	
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*112*	*68-139*			

Organophosphorus Compounds by GC - Quality Control

Batch 0G27005 - EPA 3510C

Blank (0G27005-BLK1) Prepared: 07/27/2010 08:49 Analyzed: 07/30/2010 11:28

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Azinphos-methyl	0.15	U	1.0	ug/L							
Bolstar	0.096	U	1.0	ug/L							
Chlorpyrifos	0.078	U	1.0	ug/L							
Coumaphos	0.15	U	1.0	ug/L							
Demeton	0.064	U	1.0	ug/L							
Diazinon	0.065	U	1.0	ug/L							
Dichlorofenthion	0.071	U	1.0	ug/L							
Dichlorvos	0.17	U	1.0	ug/L							
Dimethoate	0.12	U	1.0	ug/L							
Disulfoton	0.054	U	1.0	ug/L							

QUALITY CONTROL

Organophosphorus Compounds by GC - Quality Control

Batch 0G27005 - EPA 3510C

Blank (0G27005-BLK1) Continued

Prepared: 07/27/2010 08:49 Analyzed: 07/30/2010 11:28

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPN	0.14	U	1.0	ug/L							
Ethion	0.12	U	1.0	ug/L							
Ethoprop	0.066	U	1.0	ug/L							
Ethyl Parathion	0.11	U	1.0	ug/L							
Fensulfothion	0.11	U	1.0	ug/L							
Fenthion	0.097	U	1.0	ug/L							
Malathion	0.10	U	1.0	ug/L							
Merphos	0.26	U	1.0	ug/L							
Methyl parathion	0.11	U	1.0	ug/L							
Mevinphos	0.19	U	1.0	ug/L							
Monocrotophos	0.060	U	1.0	ug/L							
Naled	0.24	U	1.0	ug/L							
Phorate	0.054	U	1.0	ug/L							
Ronnel	0.087	U	1.0	ug/L							
Stirophos (Tetrachlorvinphos)	0.091	U	1.0	ug/L							
Sulfotep	0.080	U	1.0	ug/L							
TEPP	0.18	U	1.0	ug/L							
Tokuthion (Prothiofos)	0.092	U	1.0	ug/L							
Surrogate: Tributyl Phosphate	*2.4*			*ug/L*	*4.00*		*59*	*17-139*			
Surrogate: Triphenyl phosphate	*2.5*			*ug/L*	*4.00*		*62*	*22-165*			

LCS (0G27005-BS1)

Prepared: 07/27/2010 08:49 Analyzed: 07/30/2010 12:30

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dimethoate	3.0		1.0	ug/L	4.00		74	10-171			
EPN	2.3		1.0	ug/L	4.00		58	10-168			
Malathion	2.7		1.0	ug/L	4.00		67	17-167			
TEPP	3.3		1.0	ug/L	4.00		83	50-106			
Surrogate: Tributyl Phosphate	*2.6*			*ug/L*	*4.00*		*66*	*17-139*			
Surrogate: Triphenyl phosphate	*2.5*			*ug/L*	*4.00*		*64*	*22-165*			

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value. The associated sample note or project narrative indicate the causative reason.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.
QS-06	Surrogate recovery exceeded acceptance criteria due to the presence of a coeluting compound. This is a confirmed matrix effect.

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Columbia Analytical Services, Inc. Chain of Custody

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CAS Contact: Craig Myers

Project Number: J1003442
Project Manager: Craig Myers

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	HERB 8151A	PEST_GP 8141B
J1003442-001	LDSS		Water	7/21/10	0100	ENCO		
J1003442-002	LCS		Water	7/21/10	0130	ENCO		

Test Comments

PEST_GP - 8141B	J1003442-001,2	Report Appendix E List
HERB - 8151A	J1003442-001,2	Report Appendix E List

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
	____RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 __✓__ STANDARD Requested FAX Date: _____ Requested Report Date: 08/01/10	____ I. Results Only __✓__ II. Results + QC Summaries ____ III. Results + QC and Calibration Summaries ____ IV. Data Validation Report with Raw Data PQL/MDL/J: Y EDD: Y	PO: J1003442 Bill to

Relinquished By: _____ Received By: _____ Airbill Number: _____

MR-8, 7/21/10 C-744,0

Page 1

Appendix D

EDD Files – Field Data; Laboratory Data, and Error Logs (CD Files)