

## **STERLING RANCH METROPOLITAN DISTRICT NO. 1**

### **NOVEMBER, 2017 ADDENDUM TO MAY, 2015 WATER RESOURCES AND WASTEWATER REPORT**

#### **Section 1 - WATER**

The May, 2015, Sterling Ranch Metropolitan District No. 1 Water Resources and Wastewater Report for Sterling Ranch Phase One (672 single family homes) was previously submitted with the Sterling Ranch Phase One Preliminary Plan. That report, which is being resubmitted with this Addendum, contains detailed projections of water needs, a description of the on-site and off-site water rights owned by the District and system facilities. It also contains a map of the overall Sterling Ranch service area, water rights decrees, well permits and a water system master plan. The information in that report continues to be applicable. The purpose of this Addendum is to provide an update on the status of the District's physical water facilities.

A November 27, 2017, Memorandum from JDS Hydro, Consultants, Inc. is attached to this Addendum. The District drilled two deep wells in the Spring of 2017, one in the Arapaho aquifer (Well Permit No. 80131-F) and one in the Laramie Fox Hills aquifer (Well Permit No. 80132-F). The well construction and yield estimate report provided to the Colorado Division of Water Resources is included in the Memorandum as well as the water quality test results sampled during the pump tests. The estimated yields from the Arapaho well are 299 gpm and 149 gpm for the LFH well. The water quality sampling indicated no substance or chemical constituents above CDHPHE maximum contaminant levels. The District has also completed a 1,000,000 gallon water storage tank and the main delivery lines from the storage tank to the areas being initially developed and platted. The foregoing water infrastructure had previously received the necessary 1041 approvals from El Paso County.

#### **Section 2 - WASTEWATER**

As stated above, the May, 2015, Sterling Ranch Metropolitan District No. 1 Water Resources and Wastewater Report for Sterling Ranch Phase One (672 single family homes) was previously submitted with the Sterling Ranch Phase One Preliminary Plan. That report contained wastewater projections, including expected average daily wastewater loads and peaking factors. This Addendum provides an update on the status of the District's physical wastewater facilities.

Since the May, 2015, Report, the District has received Site Location approvals from the Pikes Peak Area Council of Governments and the Water Quality Control Division of the Colorado Department of Public Health and Environment (April 24, 2017) for the initial phase of its lift station and the force main connecting the lift station to Meridian Service Metropolitan District's wastewater system. The District has also received 1041 approvals from El Paso County for its wastewater facilities. Finally, the District recently received approval of the final plans and specifications for construction of its lift station and force main from the Water Quality Control Division of the Colorado Department of Public Health and Environment (see attached approval letter). The initial phase of the lift station is approved for a maximum hydraulic capacity of 0.200 million gallons (200,000 gallons) per day (MGD).

The Branding Iron at Sterling Ranch Filing No. 1 final plat contains 51 single family lots and is projected to add 8,772 gallons per day on a gravity feed basis to the lift station. The Homestead at Sterling Ranch Filing No. 1 final plat contains 72 single family lots and is projected to add 16,600 gallons per day on a gravity feed basis to the lift station.

The District has begun construction of the lift station and force main and anticipates completion of both prior to recordation of the Branding Iron at Sterling Ranch Filing No. 1 and Homestead at Sterling Ranch Filing No. 1 final plats. An alternate alignment of the offsite portion of the force main is contemplated by the District due to difficulties constructing the force main in the approved location along Woodmen Road. It is understood that a

1041 amendment will be necessary and the District has discussed this with the County 1041 Administrator who has determined this amendment can be processed administratively. In the event that construction of either the lift station or the force main is not completed prior to the recordation of the first final plat, the District will post collateral sufficient in the opinion of the Board of County Commissioners to complete construction.



## COLORADO

Department of Public  
Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

November 8, 2017

Jim Morley, President  
Sterling Ranch Metropolitan District No. 1  
20 Boulder Crescent, Suite 200  
Colorado Springs, CO 80903

Subject: Final Plans and Specifications for Construction Approval  
Sterling Ranch Metropolitan District No. 1, Sterling Ranch Lift Station  
Associated WWTF CDPH Permit No. COX048348  
Site Location Approval No. ES.16.SA.02841  
El Paso County  
ES Project No. ES.16.CWPDR.02842

Dear Mr. Morley:

The Water Quality Control Division (Division), Engineering Section has received and reviewed the Plans and Specifications for the Sterling Ranch Metropolitan District No. 1, Sterling Ranch Lift Station project. The final plans and specifications, as reviewed, meet the requirements of the *State of Colorado Design Criteria for Domestic Wastewater Treatment Works* (Design Criteria) and are hereby approved as listed below. The approved maximum month and peak hydraulic capacities are 0.200 million gallons per day (MGD) and 350 gallons per minute (GPM), respectively.

This approval addresses the following:

- Lift Station Structure
  1. Sewage pump pit
    - a. One (1) below-grade concrete wet well having the dimensions of 11.5 feet by 8.0 feet and a floor elevation of approximately 32.5 feet below grade.
    - b. Operating capacity of the wet well as determined by the "lead pump on" set point (elev. 6947.50 feet) and the "pump(s) off" set point (elev. 6944.50 feet) is approximately 2,060 gallons.
  2. Potable water flushing water pit (not used for lift station capacity)
    - a. One (1) below-grade concrete wet well adjacent to the sewage pump pit having the dimensions of 12.5 feet by 8.0 feet and a floor elevation of approximately 32.5 feet below grade.
    - b. Operating capacity of the wet well as determined by the lead "lead pump on" set point (elev. 6962.00 feet) and the "pump(s) off" set point (elev. 6945.00 feet) is approximately 12,700 gallons.
    - c. The potable water supply pipeline is air gapped above the wet well structure.
  3. Peak flow storage basin
    - a. One (1) below-grade concrete equalization/emergency overflow storage basin having the dimensions of 39.5 feet by 25.5 feet and a floor elevation of approximately 26.5 feet below grade.
    - b. Equalization is provided by surcharging the sewage pump pit and peak flow storage basin to the "lag pump on" set point (elev. 6949.50 feet), which equates to a volume of 12,000 gallons.
    - c. Storage basin and sewage pump pit hydraulically connected by gated opening in the common wall.



4. Valve vault
  - a. One (1) below-grade concrete vault.
  - b. Vault contains a 4-inch diameter check valve and 4-inch diameter plug valve for each of the wastewater pumps, 6-inch diameter check valve and 6-inch diameter plug valve for each of the flushing water pumps, bypass pumping line with 4-inch camlock fitting and 4-inch plug valve, 6-inch magnetic flow meter, and the associated discharge piping, fittings, and piping support.
- Pumping Equipment
  1. Wastewater pumps: Three (3) non-clog submersible pumps equipped with 30 horsepower (hp) motors controlled by variable frequency drives (VFDs).
    - a. Each pump (2 service, 1 standby) is rated for 175 gallons per minute (gpm) at 140 feet of total dynamic head (TDH).
    - b. Pumps are operated in a lead/lag arrangement.
    - c. Wet well levels are automatically maintained by the pump control panel and an ultrasonic level transducer. Secondary level measurement is provided by three (3) float switches (pump(s) off, lead pump on, and lag pump on). An additional float switch provides a high level alarm.
    - d. Status and alarm conditions are monitored locally through the control panel and remotely through the District's telemetry system.
    - e. Associated discharge piping, valves, and fittings.
  2. Flushing water pumps: Two (2) non-clog submersible pumps equipped with 100 hp motors controlled by VFDs. Note, flushing water pumps are used for maintenance purposes only.
    - a. Each pump (1 service, 1 standby) is rated for 550 gpm at 220 feet of TDH.
    - b. Pumps are operated in a lead/lag arrangement.
    - c. Upon manual activation of the flushing water pumping system, wet well levels are automatically maintained by the pump control panel and an ultrasonic level transducer. Secondary level measurement is provided by float switches.
    - d. Status and alarm conditions are monitored locally through the control panel and remotely through the District's telemetry system.
    - e. Associated discharge piping, valves, and fittings.
- Force Main
  1. Dual force main with approximately 25,010 linear feet of 8-inch and 10-inch (future use) piping connects the lift station to an existing 12-inch sewer line located in the Meridian Service Metropolitan District (MSMD) service area.
  2. Air release manhole
    - a. Thirteen (13), 6-foot diameter below-grade precast concrete manholes.
    - b. Manhole contains a 2-inch combination air/vacuum valve, 2-inch ball valve, and tapping saddle for the 8-inch force main. Air released by the valve is discharged to the interior of the vault, and the vault is passively ventilated to atmosphere above grade.
    - c. Associated piping, fittings, and piping support provided for both force mains.
  3. Metering manhole
    - a. One (1), 4-foot diameter below-grade fiberglass manhole with integrated Parshall flume.
    - b. The metering manhole measures the wastewater discharge from the District using a 3-inch Parshall flume nested inside a 9-inch flume and an ultrasonic level transducer.
- Emergency Equipment and Structures
  1. Emergency overflow storage: By surcharging the sewage pump pit to an elevation of 6962.17 feet, the peak flow storage basin provides an emergency overflow storage volume of 93,000 gallons, which is in addition to the equalization volume. This equates to a detention time of approximately 11.2 hours at the maximum month influent flow to the lift station.

2. Standby power source: One (1), 150 kilowatt (kW) diesel generator and automatic transfer switch provides emergency operations of all system components including the wastewater pumps, flushing water pumps, and chemical and electrical building.
- Odor Control
  1. Liquid calcium nitrate addition: A calcium nitrate chemical feed system located in the separate chemical and electrical building is utilized to prevent the formation of hydrogen sulfide at the lift station site and the associated force main. Two (2) peristaltic chemical feed pumps (1 duty, 1 standby) have the ability to convey up to 5.8 gallons per hour (gph) or 140 gallons per day (gpd) of calcium nitrate. The system is capable of injecting calcium nitrate at the lift station wet well. The calcium nitrate is stored in a 40 gallon polyethylene distribution tank, and secondary containment is provided by a polyethylene basin. Calcium nitrate is transferred from the 4,400 gallon double wall polyethylene bulk storage tank to distribution tank using a transfer pump.

Conditions of Approval:

1. The drawing set provided as part of the Final Design Submittal appears to show locations where the force main alignment runs parallel to or crosses a potable water line. The force main shall be installed with appropriate separation to potable water lines as established in Section 3.2.12 (Relationship of Sewers to Potable and Reclaim Water Pipelines and Facilities) of the Design Criteria.
2. Upon completion of construction and prior to commencement of operation, a written certification must be submitted to the Division stating that the project facilities were built in accordance with the approved plans, specifications, and change orders. The certification must be signed by the applicant's registered engineer.
3. Any change orders or addenda that change facility capacity, water quality, or processes, must be submitted to this office for review and approval.
4. When construction is estimated to be within 14 days of completion, please notify this office. A representative of this Division may schedule a site visit to conduct a final construction inspection before the facility commences operations.
5. Please note that during construction and operation activities, the provisions specified in the Sections 2.2.0, 2.3.17 and 2.3.18 of the Design Criteria, must be implemented and followed. This review does not relieve the owner from compliance with all Federal, State, and local regulations and requirements prior to construction nor from responsibility for proper engineering, construction, and operation of the facility.
6. No point source discharges of water and/or contaminants from this facility to the waters of the state are authorized during construction unless a permit for such discharges has been issued by the Division. If you have any questions regarding permit issues or requirements, please contact the Permits Section at 303-692-3510.
7. The approval of this project is based on the above referenced conditions and upon the engineering design submitted to the Division for pumping wastewater to the Cherokee Metropolitan District Water Reclamation Facility located in El Paso County.

Documents reviewed:

- Drawing set dated April 24, 2017 titled "Sterling Ranch Lift Station and Force Main, El Paso County, Colorado." Prepared by Lamp Rynearson & Associates for the Sterling Ranch Metropolitan District No. 1.

- Report dated April 24, 2017 titled "Basis of Design Report for the Sterling Ranch Metro District No. 1 and the Sterling Ranch Lift Station and Force Mains." Prepared by Lamp Rynearson & Associates for the Sterling Ranch Metropolitan District No. 1.
- Site location approval letter dated May 15, 2017 titled "Site Location Approval No. ES.16.SA.02841." Prepared by the Division for the Sterling Ranch Metropolitan District No. 1.
- Specifications dated April 24, 2017 titled "Project Manual for Sterling Ranch Metropolitan District No. 1, Sterling Ranch Lift Station and Force Main." Prepared by Lamp Rynearson & Associates for the Sterling Ranch Metropolitan District No. 1.
- Miscellaneous correspondence.

In accordance with the current Operators Certification Board Regulations, the collection system is a Class 1 Wastewater Collection System.

The Engineering Section is interested in gaining feedback about your experience during the engineering review process. We would appreciate your time to complete a Quality-of-Service Survey regarding your experience during the engineering review process leading up to issuance of this decision letter. The Engineering Section will use your responses and comments to identify strengths, target areas for improvement, and evaluate process improvements to better serve your needs. Please take a moment to fill out our survey at the following website: <http://fs8.formsite.com/cohealth/form627710151/index.html>.

Thank you for your time and cooperation in this matter. Please contact me by telephone at 303-692-6337 or by electronic mail at [michael.emming@state.co.us](mailto:michael.emming@state.co.us) if you have any questions.

Sincerely,



Digitally signed by Michael G Emming, P.E.  
DN: cn=Michael G Emming, P.E.,  
o=Engineering Section, ou=Water Quality  
Control Division,  
email=michael.emming@state.co.us, c=US  
Date: 2017.11.08 10:25:54 -0700'

Michael G. Emming, P.E.  
Senior Review Engineer  
Engineering Section | Water Quality Control Division  
Colorado Department of Public Health and Environment

cc: Bradley Simons, Lamp Rynearson & Associates  
Aaron Doussett, El Paso County Public Health  
Amy Zimmerman, WQCD ES Engineering Review Unit Manager  
David Kurz, WQCD ES Lead Wastewater Engineer (satellite collection system)  
Site Application File | Discharge Permit File (COX048348)

## Memorandum

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**To:** P.J. Anderson  
**From:** Mario DiPasquale, P.E.  
**Date:** November 27, 2017  
**Subject:** Sterling Ranch - Denver Basin LFH-1(80132-F) and A-1(80131-F) Well

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As per your request JDS-Hydro Consultants, Inc. has attached the well construction and yield estimate report (GWS-31) provided to the Colorado Division of Water Resources as well as the water quality test results sampled during the pump tests.



Mario DiPasquale, P.E.  
JDS-Hydro Consultants, Inc.

**Well Construction Report**  
**A-1 (80131-F)**

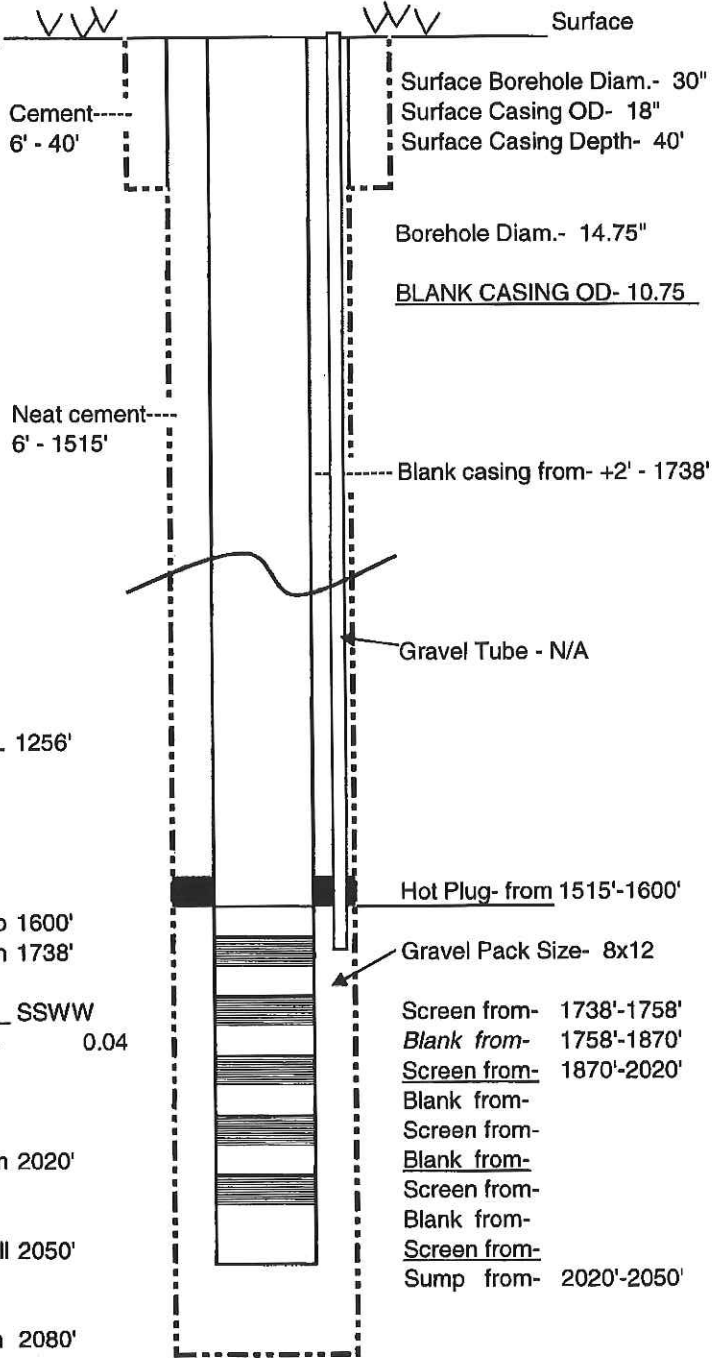


WELL CONSTRUCTION AND YIELD ESTIMATE REPORT					For Office Use Only				
Form No. <b>GWS-31</b> 02/2017					<div style="text-align: center;">           State of Colorado, Office of the State Engineer            1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581            www.water.state.co.us and dwrpermitsonline@state.co.us         </div> <div style="text-align: center; font-size: 24px; font-weight: bold;">RECEIVED</div> <div style="text-align: center; font-size: 18px; font-weight: bold;">JUN 13 2017</div>				
1. Well Permit Number: 80131-F Receipt Number:									
2. Owner's Well Designation: A-1									
3. Well Owner Name: Morley-Bentley Investments LLC									
4. Well Location Street Address:									
5. As Built GPS Well Location (required): <input type="checkbox"/> Zone 12 <input checked="" type="checkbox"/> Zone 13 Easting: 529962.0 Northing: 4314966.5									
6. Legal Well Location: NE 1/4, NW 1/4, Sec., 27 Twp. 12 N or S, Range 65 E 5th P.M. County: El-Paso Subdivision: _____, Lot _____, Block _____, Filing (Unit) _____									
7. Ground Surface Elevation: _____ feet Date Completed: 04/20/2017 Drilling Method: Reverse circ mud rotary									
8. Completed Aquifer Name: Arapahoe Total Depth: 2080 feet Depth Completed: 2050 feet									
9. Advance Notification: Was Notification Required Prior to Construction? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Date Notification Given: _____									
10. Aquifer Type: <input type="checkbox"/> Type I (One Confining Layer) <input checked="" type="checkbox"/> Type I (Multiple Confining Layers) <input type="checkbox"/> Laramie-Fox Hills (Check one) <input type="checkbox"/> Type II (Not overlain by Type III) <input type="checkbox"/> Type II (Overlain by Type III) <input type="checkbox"/> Type III (alluvial/colluvial)									
11. Geologic Log:									
Depth	Type	Grain Size	Color	Water Loc.	12. Hole Diameter (in.)				
SEE	ATTACHED	LOG			30"	From (ft)	To (ft)		
					14.75"	0	40		
						40	2080		
13. Plain Casing									
OD (in) Kind Wall Size (in) From (ft) To (ft)									
18 LCS .375 +1 40									
10.75 LCS .365 +2 1738									
10.75 LCS .365 1758 1870									
10.75 LCS .365 2020 2050									
Perforated Casing Screen Slot Size (in): 0.040									
OD (in) Kind Wall Size (in) From (ft) To (ft)									
10.75 S.S. W.W. 1738 1758									
10.75 S.S. W.W. 1870 2020									
14. Filter Pack: Material SILICA									
Size 8x12									
Interval 1600' - 2080'									
15. Packer Placement: Type N/A									
Depth N/A									
16. Grouting Record									
Material Amount Density Interval Method									
cement 5 yds 16# 6' - 40' tremied									
neatcmnt 63sx 15.96# 1515' - 1600' tremied									
neatcmnt 1067sx 12.7# 6' - 1515' tremied									
Remarks:									
17. Disinfection: Type Granular HTH 65% Amt. Used 8 cups									
18. Well Yield Estimate Data: <input checked="" type="checkbox"/> Check box if Test Data is submitted on Form Number GWS-39, Well Yield Test Report									
Well Yield Estimate Method: submersible pump									
Static Level: 1256' Estimated Yield (gpm) 299									
Date/Time measured: 03/22/2017@10:00 am Estimate Length (hrs) 24									
Remarks: PWL- 1648'									
19. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402.2. The filing of a document that contains false statements is a violation of section 37 91 108(1)(e), C.R.S., and is punishable by fines up to \$1,000 and/or revocation of the contracting license. If filing online the State Engineer considers the entry of the licensed contractor's name to be compliance with Rule 17.4.									
Company Name: Hydro Resources Rocky Mountain Inc.		Email: dwner@hydroresources.com		Phone w/area code: (303) 857-7540		License Number: 1355			
Mailing Address: 13027 CR 18 Unit C Ft Lupton, CO 80621									
Sign (or enter name if filing online)			Print Name and Title		Date:				
			Dallas Werner / Drilling Operations Supervisor		06/09/2017				



WELL#  
Permit

A-1  
80131-F



NOTE: NOT DRAWN TO SCALE

Approx. SWL 1256'

Gravel Pack Top 1600'  
Top of Screen 1738'

Screen Type- SSWW  
Screen slot size- 0.04

Bottom of Screen 2020'

Total Depth of Well 2050'

Total Drilled Depth 2080'

RECEIVED

JUN 13 2017

WATER RESOURCES  
STATE ENGINEER  
COLO

**Description of Drill Cuttings for Sterling Ranch Well A-1**  
**Well Permit No. 80131-F**  
**Approximate Elevation: 7316 Ft**  
**By: Mario DiPasquale, P.E.**

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Depth (ft)	Description
0 - 40	No samples collected, 18" steel surface casing
40 - 160	Sand and gravel, grey and pink
160 - 200	Light grey claystone
200 - 210	Claystone with some sand, grey
210 - 220	Sand, grey and pink
230 - 280	Medium grey claystone
280 - 300	Grey sand and gravel
300 - 320	Light grey sandstone w/ some sand
320 - 390	Medium grey sandstone w/ some gravel
390 - 460	Light grey and pink sand and gravel
460 - 470	Medium grey sandstone
470 - 500	Light grey and pink sand and gravel
500 - 570	Light grey claystone
570 - 590	Medium grey sand
590 - 640	Medium grey sand with some claystone
640 - 650	Light grey sand w/ some claystone
650 - 700	Medium grey claystone
700 - 710	Light brown claystone
710 - 720	Light brown claystone w/ interbedded dark brown claystone
720 - 770	Light grey claystone
770 - 870	Light grey sandstone
870 - 880	Light grey sandstone w/ interbedded brown claystone
880 - 890	Light grey sandstone w/ some sand
890 - 940	Medium brown claystone
940 - 950	Light grey sandstone
950 - 960	Medium brown claystone
960 - 990	Light brown claystone
990 - 1010	Medium brown sandstone
1010 - 1030	Medium brown sandstone w/ some interbedded clays
1030 - 1080	Medium brown sandstone
1080 - 1120	Medium grey claystone
1120 - 1160	Medium brown sandstone
1160 - 1210	Medium grey sandstone
1210 - 1260	Medium brown claystone
1260 - 1270	Light grey sandstone
1270 - 1300	Medium grey sandstone
1300 - 1370	Medium grey claystone
1370 - 1410	Light grey claystone
1410 - 1420	Light brown claystone
1420 - 1480	Medium brown claystone
1480 - 1490	Dark brown claystone
1490 - 1500	Light grey claystone
1500 - 1510	Light brown claystone

JUN 13 2017

WATER RESOURCES  
STATE ENGINEER  
COLORADO

**Description of Drill Cuttings for Sterling Ranch Well A-1**

**Well Permit No. 80131-F**

**Approximate Elevation: 7316 Ft**

**By: Mario DiPasquale, P.E.**

**RECEIVED**

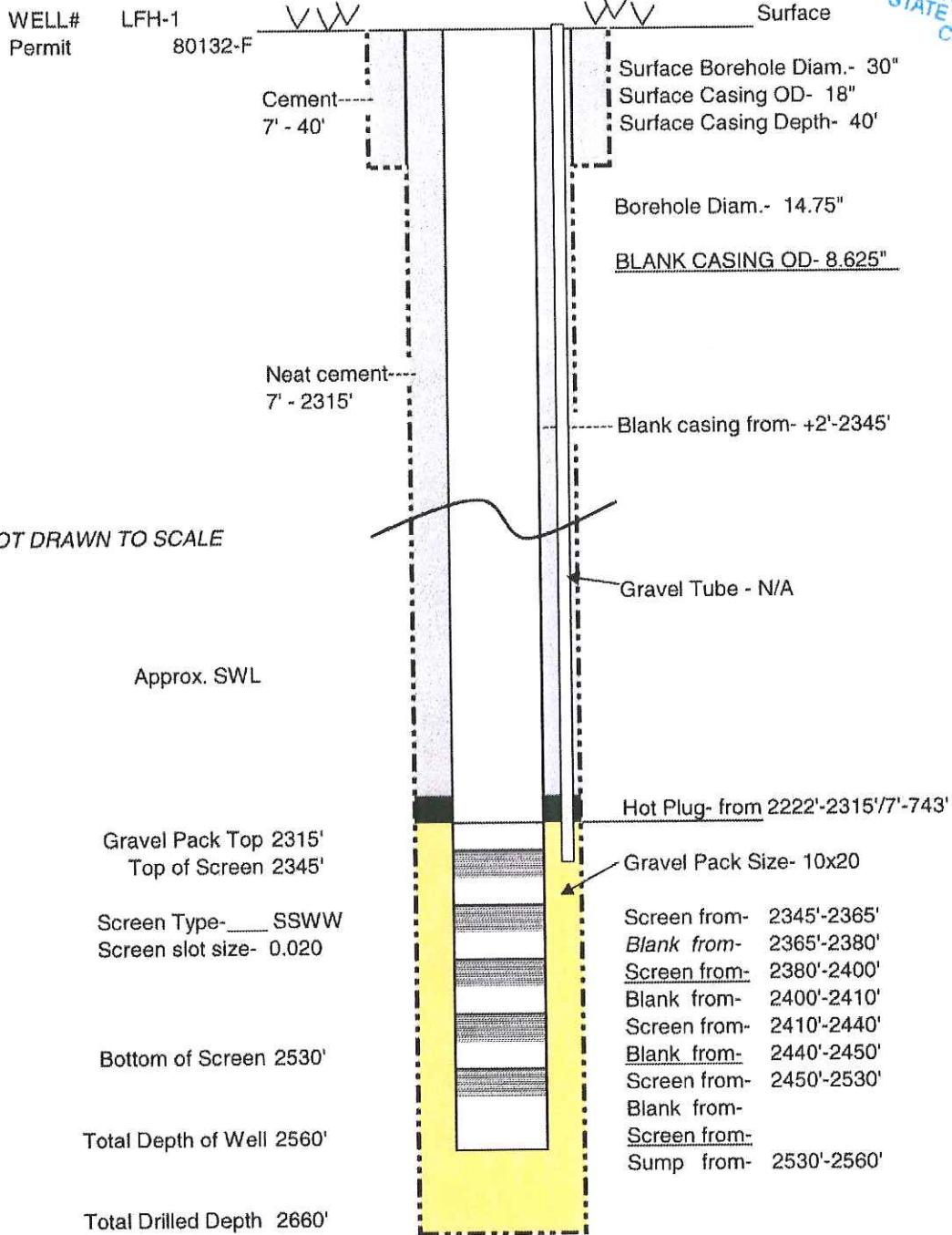
Depth (ft)	Description	
1510 - 1550	Medium grey claystone	JUN 13 2017
1550 - 1580	Medium brown claystone	WATER RESOURCES STATE ENGINEER COLO.
1580 - 1600	Medium grey claystone	
1600 - 1620	Dark brown claystone	
1620 - 1670	Medium grey claystone	
1670 - 1690	Dark brown claystone	
1690 - 1730	Medium grey claystone	
1730 - 1740	Medium grey sandstone	
1740 - 1760	Light grey sandstone	
1760 - 1770	Medium brown claystone	
1770 - 1780	Light brown claystone	
1780 - 1790	Medium brown claystone	
1790 - 1830	Medium grey claystone	
1830 - 1860	Light grey claystone	
1860 - 1870	Medium brown claystone	
1870 - 1880	Medium grey claystone	
1880 - 1890	Medium brown claystone	
1890 - 1900	Light grey sandstone	
1900 - 1920	Light grey sandstone	
1920 - 1950	Medium grey sandstone	
1950 - 1960	Light grey sandstone	
1960 - 1990	Medium grey sandstone	
1990 - 2000	Light grey sandstone	
2000 - 2010	Medium grey sandstone w/ some sand	
2010 - 2040	Light grey sandstone w/ some sand	
2040 - 2070	Medium grey claystone	
2070 - 2080	Medium brown claystone	
2080	Total Depth	
-		
-		
-		
-		
-		

**Well Construction Report**  
**LFH-1 (80132-F)**





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 MAY 30 2017  
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NOTE: NOT DRAWN TO SCALE

Approx. SWL

## Casing and Screen Schedule

Hydro Resources - Rocky Mountain, Inc.

Permit #	80132-F
Owner	Morley-Bentley Investments LLC
Well Name	LFH-1
Casing size/wall thickness	8.625/.322
Screen size/material/slot	8.625/SSWW/0.020

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Material	Depth to/Botm	Legnth
Blank	Above2' - 2345'	2347'
Screen	2345'-2365'	20'
Blank	2365'-2380'	15'
Screen	2380'-2400'	20'
Blank	2400'-2410'	10'
Screen	2410'-2440'	30'
Blank	2440'-2450'	10'
Screen	2450'-2530'	80'
Blank	2530'-2560'	30'
	Total	2562



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MAY 30 2017

WATER RESOURCES  
STATE ENGINEER  
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**Description of Drill Cuttings for Sterling Ranch Well LFH-1**

**Well Permit No. 80132-F**

**Approximate Elevation: 7314 Ft**

**By: Mario DiPasquale, P.E.**

Depth (ft)	Description
0 - 40	No samples collected, 18" steel surface casing
40 - 160	Sand and gravel, grey and pink
160 - 200	Light grey claystone
200 - 210	Claystone with some sand, grey
210 - 220	Sand, grey and pink
230 - 280	Medium grey claystone
280 - 300	Grey sand and gravel
300 - 320	Light grey sandstone w/ some sand
320 # 390	Medium grey sandstone w/ some gravel
390 - 460	Light grey and pink sand and gravel
460 - 470	Medium grey sandstone
470 - 500	Light grey and pink sand and gravel
500 - 570	Light grey claystone
570 - 590	Medium grey sand
590 - 640	Medium grey sand with some claystone
640 - 650	Light grey sand w/ some claystone
650 - 700	Medium grey claystone
700 - 710	Light brown claystone
710 - 720	Light brown claystone w/ interbedded dark brown claystone
720 - 770	Light grey claystone
770 - 870	Light grey sandstone
870 - 880	Light grey sandstone w/ interbedded brown claystone
880 - 890	Light grey sandstone w/ some sand
890 - 940	Medium brown claystone
940 - 950	Light grey sandstone
950 - 960	Medium brown claystone
960 - 990	Light brown claystone
990 - 1010	Medium brown sandstone
1010 - 1030	Medium brown sandstone w/ some interbedded clays
1030 - 1080	Medium brown sandstone
1080 - 1120	Medium grey claystone
1120 - 1160	Medium brown sandstone
1160 - 1210	Medium grey sandstone
1210 - 1260	Medium brown claystone
1260 - 1270	Light grey sandstone
1270 - 1300	Medium grey sandstone
1300 - 1370	Medium grey claystone
1370 - 1410	Light grey claystone
1410 - 1420	Light brown claystone
1420 - 1480	Medium brown claystone
1480 - 1490	Dark brown claystone
1490 - 1500	Light grey claystone
1500 - 1510	Light brown claystone

RECEIVED  
MAY 30 2017  
WATER RESOURCES  
STATE ENGINEER  
COLO

**Description of Drill Cuttings for Sterling Ranch Well LFH-1**  
**Well Permit No. 80132-F**  
**Approximate Elevation: 7314 Ft**  
**By: Mario DiPasquale, P.E.**

Depth (ft)	Description
1510 - 1550	Medium grey claystone
1550 - 1580	Medium brown claystone
1580 - 1600	Medium grey claystone
1600 - 1620	Dark brown claystone
1620 - 1670	Medium grey claystone
1670 - 1690	Dark brown claystone
1690 - 1730	Medium grey claystone
1730 - 1740	Medium grey sandstone
1740 - 1760	Light grey sandstone
1760 - 1770	Medium brown claystone
1770 - 1780	Light brown claystone
1780 - 1790	Medium brown claystone
1790 - 1830	Medium grey claystone
1830 - 1860	Light grey claystone
1860 - 1870	Medium brown claystone
1870 - 1880	Medium grey claystone
1880 - 1890	Medium brown claystone
1890 - 1900	Light grey claystone
1900 - 1920	Light grey sandstone
1920 - 1950	Medium grey sandstone
1950 - 1960	Light grey sandstone
1960 - 1990	Medium grey sandstone
1990 - 2000	Light grey sandstone
2000 - 2010	Medium grey sandstone w/ some sand
2010 - 2040	Light grey sandstone w/ some sand
2040 - 2070	Medium grey sandstone
2070 - 2170	Medium brown claystone
2170 - 2300	Medium grey claystone
2300 - 2350	Dark brown claystone
2350 - 2370	Light grey sandstone
2370 - 2380	Dark brown claystone
2380 - 2400	Light grey sandstone
2400 - 2410	Medium brown claystone
2410 - 2520	Light grey sandstone
2520 - 2560	Medium grey claystone
2560 - 2600	Medium grey sandstone
2600 - 2660	Medium grey claystone
2660	Total Depth
-	
-	
-	
-	
-	

**Water Quality Results**  
**A-1 (80131-F)**

**Inorganic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
**4300 Cherry Creek Drive South, Denver, CO 80246-1530**  
**Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us**



Colorado Department  
of Public Health  
and Environment

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO0121724	Laboratory ID: CO 0015	Laboratory Name: Colorado Analytical Laboratory	
System Name: Sterling Ranch MD	Contact Person: Mark Volle	Contact Person: Customer Service	Phone: 303-659-2313
Phone #: 719-227-0072	Comments:	Comments:	
Do Samples Need to be Compositied BY THE LAB?	<input type="checkbox"/>		
Section III (Supplied or Completed by Public Water System)		Section IV (On Schedule): New Well	
Sample Date: 3/23/17	Collector: Stephanie Schw	Facility ID (On Schedule): New Well	Sample P1 ID (On Schedule): New Well
Section IV Inorganic Chemicals (Completed by Certified Laboratory)			
Lab Receipt Date	Lab Sample ID	Analyte Name	CAS No.
3/24/17	170324007-01	Fluoride	7681-49-4
Lab Analysis Date	Lab MRL (mg/L)	MCL (mg/L)	Analytical Method
3/24/17	0.09	4	EPA 300.0
			Result (mg/L)
			1.22

NT: Not Tested  
 Lab MRL: Laboratory Minimum Reporting Level  
 BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter  
 MCL: Maximum Contaminant Level



Drinking Water Chain of Custody

page 1 of 2

Report To Information		State Form / Project Information	
Company Name: IDS-Hydro Consultants	Company Name: SR WATER	PWSID: CO 0121724	
Contact Name: Mark Valle	Contact Name: JIM MORLEY	System Name: STAINING BASIN MD	
Address: 545 E. Pikes Peak Ave Suite 300	Address: 20 BOWDER CRESCENT	City: COLO SPRINGS	State: CO Zip: 80903
City: CO Springs	City: SPRINGS	County: El Paso	
Phone: 719-207-0079	Phone: 3870220	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: mvalle@idshydro.com	Email: jmorley@srwater.com	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Sampler Name: Stephanie Schwesnik	PO No:		

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)																Subcontract Analyses																						
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	522 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium											
3-23	7:55	#1	1					X					X																											
	7:57	#2	1							X																														
	8:11	#3	2		X																																			
	7:52	#4	1																																					
	7:52am	#5	3																																					
	7:53	#6	2																																					
	7:58	#7	2																																					
	7:59	#8	1																																					
	8:03	#9	1																																					
	8:03	#10	1																																					

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat sample #8 as soon as you receive the shipment.

Relinquished By: [Signature] Date/Time: 3-23 11:30am  
 Received By: [Signature] Date/Time: 3/24/10 10:10

Temp: 3.3 °C/tes Y  
 Sample Pres. Yes  No   
 Date/Time: Received By: /



**Inorganic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
 Submit Online at <http://www.wqcdcompliance.com/login>

**IOC**



Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO0121724		Laboratory ID: CO 0015	
System Name: Sterling Ranch MD		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle		Contact Person: Customer Service	
Phone #:		Phone: 303-659-2313	
Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>		Comments:	

**Section III (Supplied or Completed by Public Water System)**

Sample Date: 3/23/17	Collector: Stephanie Schw	Facility ID (On Schedule): New Well	Sample Pt ID (On Schedule): New Well
----------------------	---------------------------	-------------------------------------	--------------------------------------

**Section IV Inorganic Chemicals (Completed by Certified Laboratory)**

Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical Method	MCL (mg/L)	Lab MRL (mg/L)	Result (mg/L)
3/24/17	3/29/17	170324007-01A	Antimony	7740-36-0	EPA 200.8	0.006	0.001	BDL
3/24/17	3/29/17	170324007-01A	Arsenic	7440-38-2	EPA 200.8	0.01	0.001	0.002
3/24/17	3/29/17	170324007-01A	Barium	7440-39-3	EPA 200.8	2	0.001	0.003
3/24/17	3/29/17	170324007-01A	Beryllium	7440-41-7	EPA 200.8	0.004	0.001	BDL
3/24/17	3/29/17	170324007-01A	Cadmium	7440-43-9	EPA 200.8	0.005	0.001	BDL
3/24/17	3/29/17	170324007-01A	Chromium	7440-47-3	EPA 200.8	0.1	0.001	BDL
3/24/17	3/29/17	170324007-01A	Mercury	7439-97-6	EPA 200.8	0.002	0.0001	BDL
3/24/17	3/29/17	170324007-01A	Nickel	7440-02-0	EPA 200.8	N/A	0.001	0.001
3/24/17	3/29/17	170324007-01A	Selenium	7782-49-2	EPA 200.8	0.05	0.001	BDL
3/24/17	3/30/17	170324007-01A	Sodium	7440-23-5	EPA 200.7	N/A	0.1	52.8
3/24/17	3/29/17	170324007-01A	Thallium	7440-28-0	EPA 200.8	0.002	0.001	BDL

NT: Not Tested  
 Lab MRL: Laboratory Minimum Reporting Level  
 BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter  
 MCL: Maximum Contaminant Level



Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Drinking Water Chain of Custody

page 1 of 2

Report To Information			State Form / Project Information		
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR WATER</u>		PWSID: <u>CO 0121724</u>		System Name: <u>STEATING RANCH MD</u>
Contact Name: <u>Mark Bolle</u>	Contact Name: <u>JIM MORLEY</u>		Address: <u>20 BOWDER CRESCENT</u>		
Address: <u>545 E. Pikes Peak Ave Suite 300</u>	Address: <u>20 BOWDER CRESCENT</u>		City: <u>COLO SPRINGS</u>	State: <u>CO</u>	Zip: <u>80905</u>
City: <u>CS</u>	State: <u>CO</u>	Zip: <u>80903</u>	County: <u>El Paso</u>		
Phone: <u>719-207-0078</u>	Phone: _____	Fax: _____	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Email: <u>mbolle@jds Hydro.com</u>	Email: <u>jmorley@srwater.com</u>		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Sampler Name: <u>Stephanie Schwente</u>	PO No: _____				

CAL Task No. 170324007  
ARF

Date	Time	Client Sample ID / EP Code	No. of Containers	PHASE I, II, V Drinking Water Analyses (check analysis)																Subcontract Analyses																													
				Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDR/BCP	505 Pests/PCBS	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbinates	548.1 Endothall	549.2 Diquat	524.2 THMs	552.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium																					
3-23	7:55	#1	1																																														
	7:57	#2	1																																														
	8:11	#3 8:05	2																																														
	7:52	#4	1																																														
	7:53	#5	1																																														
	7:58	#6	3																																														
	7:58	#7	2																																														
	7:59	#8	1																																														
	8:02	#9	1																																														
	8:02	#10	1																																														

Instructions: No H2SO4 preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive the shipment.  
Relinquished By: [Signature] Date/Time: 3-23 11:30am Received By: Case Wilson Date/Time: 3/24/17 10:10

C/S Info: Delivered Via: Fed Ex C/S Charge  Temp. 3.3 °C/lcc  Sample Pres. Yes  No  Date/Time: \_\_\_\_\_  
Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_





Drinking Water Chain of Custody

page 2 of 2

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: JDS-Hydrate Consultants	Company Name: SR Water	PWSID: CO 0121724	System Name: Serling Ranch MD		
Contact Name: Mark Volle	Contact Name: Jim Morley	Address: 20 Boulder Crescent	Address: 20 Boulder Crescent		
Address: 5445 E. Pikes Peak Ave Suite 300	Address: 20 Boulder Crescent	City CS State CO Zip 80903	City CS State CO Zip 80903		
Phone: 719-227-0073	Phone: 719-227-0073	County: El Paso	County: El Paso		
Email: mvolle@jdsHydro.com	Email: jmorley@srwater.com	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Sampler Name: Stephanie Schusenke	PO No:	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

CAL Task No. 170324007				PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses																	
ARF				No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DPC	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	522 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOC) DOC (Circle)	SVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium						
3-23	8:01	#11	1				X																												
	8:00	#12	3																																
	8:26	#14	3				X																												
	8:18	#15	3																																
	8:12	#16 (1,4 Dioxane)	3																																
	8:20	#17	3																																
	8:21	#18	3						X																										
	8:15	#19	3																																
	8:29	#20	3						X																										

Instructions: Relinquished By: [Signature] Date/Time: 3-23 11:30am Received By: [Signature] Date/Time: 3-23 11:30am



## Analytical Results

TASK NO: 170324007

Report To: Mark Volle

Company: JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

Bill To: Jim Morley  
Company: SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

Task No.: 170324007  
Client PO:  
Client Project: Sterling Ranch MD CO0121724

Date Received: 3/24/17  
Date Reported: 4/21/17  
Matrix: Water - Drinking

Customer Sample ID: Sterling Ranch MD  
Sample Date/Time: 3/23/17 8:03 AM  
Lab Number: 170324007-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	99.7 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	3/28/17	VDB
Calcium as CaCO <sub>3</sub>	2.6 mg/L	SM 3111-B	0.1	3/30/17	MBN
Carbonate	< 0.1 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	3/28/17	VDB
Langelier Index	-1.23 units	SM 2330-B		3/31/17	LJG
pH	8.16 units	SM 4500-H-B	0.01	3/24/17	MBN
Temperature	20 °C	SM 4500-H-B	1	3/24/17	MBN
Total Alkalinity	99.7 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	3/28/17	VDB
Total Dissolved Solids	143 mg/L	SM 2540-C	5	3/29/17	ISG

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 ml's = Most Probable Number Index/ 100 ml's  
Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY



Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Drinking Water Chain of Custody

page 1 of 2

Report To Information		State Form / Project Information	
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR WATER</u>	PWSID: <u>CO 0121724</u>	
Contact Name: <u>Mark Valle</u>	Contact Name: <u>JEM MORLEY</u>	System Name: <u>STEALING RANCH MD</u>	
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 BOUNDERS CREEK</u>	City: <u>COLO SPRGS</u>	State: <u>CO</u> Zip: <u>80903</u>
Suite: <u>300</u>		County: <u>El Paso</u>	
City: <u>CS</u>	State: <u>CO</u> Zip: <u>80903</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Phone: <u>719-227-0072</u>	Fax:	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Email: <u>mvalle@jds-hydro.com</u>	Email: <u>jmorley387@comcast.com</u>		
Sampler Name: <u>Stephanie Schwenke</u>	PO No.:		

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)												Subcontract Analyses																								
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDR/BCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	552.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium								
3-23	7:55	#1	1						X					X																								
	7:57	#2	1								X																											
	8:11	#3 8:05	2																																			
	7:52	#4	1																																			
	7:52	#5	1																																			
	7:52	#6	3																																			
	7:53	#7	2																																			
	7:58	#8	1																																			
	7:59	#9	1																																			
	8:02	#10	1																																			

Seals Present Yes  No  Headspace Yes  No

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive the shipment.

Temp: 3.3 °C/sec Y

Received By: [Signature]

Date/Time: 3/23 11:30am

Relinquished By: [Signature]

Date/Time: 3/24/17 10:10



Drinking Water Chain of Custody

page 2 of 2

<b>Report To Information</b> Company Name: <u>JDS-Hydro Consultants</u> Contact Name: <u>Mark Volle</u> Address: <u>545 E. Pikes Peak Ave</u> <u>Suite 300</u> City <u>CS</u> State <u>CO</u> Zip <u>80903</u> Phone: <u>719-227-0072</u> Fax: Email: <u>mvolle@jds-hydro.com</u> Sampler Name: <u>Sgt. Steve Schwenke</u> PO. No.:		<b>State Form / Project Information</b> PWSID: <u>CO 0121724</u> System Name: <u>Serling Ranch MD</u> Address: <u>20 Boulder Crest</u> City <u>CS</u> State <u>CO</u> Zip <u>80903</u> County: <u>El Paso</u> Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
---	--	---	--

**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601

**Lakewood Lab**  
 12860 W. Cedar Dr, Suite 100A  
 Lakewood CO 80228

Phone: 303-659-2313  
 Fax: 303-659-2315  
 www.coloradolab.com

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses											
ARF		No. of Containers	Residual Chlorine (mg/L)	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 THMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOC, DOC) (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
3-23	8:01	#11																									
	8:00	#12																									
	8:26	#14																									
	8:18	#15																									
	8:12	#16 (1,4 Dioxane)																									
	8:20	#17																									
	8:01	#18																									
	8:19	#19																									
	8:09	#20																									

Instructions:

Relinquished By: [Signature] Date/Time: 3-23 11:30am

Received By: [Signature] Date/Time: 3-23 11:30am

Delivered Via:  C/S Charge  Temp. °C/fce  Sample Pres. Yes  No   
 Relinquished By: [Signature] Date/Time: 3-23 11:30am

C/S Info:

Seals Present Yes  No  Headspace Yes  No



Colorado Department  
of Public Health  
and Environment

Revised 4/13/2015

**Nitrate and Nitrite as Nitrogen Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
Submit Online at <http://www.wqcdcompliance.com/login>

**NOX**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO0121724		Laboratory ID: CO 0015	
System Name: Sterling Ranch MID		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313
Comments:			

Section III (Supplied or Completed by Public Water System)				Section IV (Supplied or Completed by Certified Laboratory)								
Sample Date	Collector	Facility ID On Schedule	Sample Pt ID On Schedule	Confirmation?	Lab Receipt Date	Lab Analysis Date	Laboratory Sample ID #	Analyte	Analytical Method	MCL (mg/L)	Lab MRL (mg/L)	Result (mg/L)
3/23/17	Ephraim Schwenk	New Well	New Well	<input type="checkbox"/>	3/24/17	3/24/17	170324007-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL
3/23/17	Ephraim Schwenk	New Well	New Well	<input type="checkbox"/>	3/24/17	3/24/17	170324007-01	Nitrite Nitrogen	EPA 300.0	1	0.1	BDL

NT: Not Tested  
Lab MRL: Laboratory Minimum Reporting Level  
BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter  
MCL: Maximum Contaminant Level

4/21/17  
170324007-01  
011  
N



**Brighton Lab**  
 240 South Main Street  
 Brighton, CO 80601

**Lakewood Lab**  
 12860 W. Cedar Dr, Suite 100A  
 Lakewood CO 80228

Phone: 303-659-2313  
 Fax: 303-659-2315  
 www.coloradolab.com

**Drinking Water Chain of Custody**

page 1 of 2

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR WATER</u>	PWSID: <u>CO 0121724</u>		System Name: <u>STEERING RANCH MD</u>	
Contact Name: <u>Mark Valle</u>	Contact Name: <u>JIM MORLEY</u>	Address: <u>20 BOWDER CRESCENT</u>		Address: <u>20 BOWDER CRESCENT</u>	
Address: <u>546 E. Pikes Peak Ave</u>	Address: <u>20 BOWDER CRESCENT</u>	City: <u>COLO SPRS</u>		City: <u>COLO SPRS</u>	
Suite: <u>300</u>		State: <u>CO</u>		State: <u>CO</u>	
City: <u>CS</u>	City: <u>COLO SPRS</u>	Zip: <u>80903</u>		Zip: <u>80905</u>	
Phone: <u>719-227-0072</u>	Phone: <u>303-659-2313</u>	County: <u>El Paso</u>		County: <u>El Paso</u>	
Fax: <u></u>	Fax: <u></u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: <u>mvalle@jds-hydro.com</u>	Email: <u>jmorley@srwater.com</u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Sampler Name: <u>Stephanie Schweske</u>	FO No.:				

CAL Task No.		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses																	
170324007																																		
ARF	Date	Time	Client Sample ID / EP Code	Residual Chlorine (mg/L)	No. of Containers	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	524.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index	TOC, DOC (Circle)	SVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium				
	3-23	7:55	#1		1				X					X																				
		7:57	#2		1					X																								
		8:11	#3		2						X																							
		7:52	#4		1	X																												
		7:52	#5		1																													
		7:52am	#6		3																													
		7:53	#7		2																													
		7:58	#8		2																													
		7:59	#9		1																													
		8:03	#10		1																													
Instructions: No H <sub>2</sub> SO <sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat sample #8 no soon as you receive this shipment.		C/S Info:															Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Headspace Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																	
Relinquished By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>		Relinquished By: <u>Stephanie Schweske</u>		Date/Time: <u>3/24/17 10:10</u>		Delivered Via: <u>Fed Ex</u>		C/S Charge <input type="checkbox"/>		Temp: <u>3.3</u> °C / Ice <input checked="" type="checkbox"/>		Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Date/Time:																		



Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

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Drinking Water Chain of Custody

page 2 of 2

Report To Information Company Name: <u>JDS-Hydra Consultants</u> Contact Name: <u>Merk Volle</u>		Bill To Information (if different from report to) Company Name: <u>SR Water</u> Contact Name: <u>Jim Morley</u>		State Form / Project Information PWSID: <u>CO 0121724</u> System Name: <u>Serling Ranch MD</u> Address: <u>20 Boulder Crest</u>	
Address: <u>546 E. Pikes Peak Ave</u> <u>Suite 300</u>		Address: <u>20 Boulder Crest</u>		City <u>CS</u> State <u>CO</u> Zip <u>80903</u>	
City <u>CS</u> State <u>CO</u> Zip <u>80903</u>		City <u>CS</u> State <u>CO</u> Zip <u>80903</u>		County: <u>El Paso</u>	
Phone: <u>719-227-0073</u> Fax:		Phone: Fax:		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: <u>mvolle@jdsHydro.com</u>		Email: <u>jmorley3870@aol.com</u>		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Sampler Name: <u>Stephanie Schwenker</u> PO No.:					

CAL Task No.  
170324007

ARF

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 THMs	522.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index	TOD, DOC (Circle)	SVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium			
3-23	8:01	#11	1																													
	8:00 am	#12	1																													
	8:26	#14	2				X																									
	8:18	#15	2																													
	8:12	#16 (1.4 Diene)	3																					X								
	8:23	#17	2																													
	8:23	#18	2								X																					
	8:15	#19	2					X															X									
	8:29	#20	2							X																						

Instructions:

Retinquished By: <u>[Signature]</u>	Date/Time: <u>3-23 11:30am</u>	Received By: <u>[Signature]</u>	Date/Time: <u>3-23 11:30am</u>
Delivered Via: <input type="checkbox"/> C/S Charge	Temp. <input type="checkbox"/> °C / <input type="checkbox"/> f°	Sample Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>	Date/Time:
Retinquished By:	Date/Time:	Received By:	Date/Time:



**Organic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
**Submit Online at <http://www.wqcdcompliance.com/login>**

Revised 4/13/2015

**VOC/SOC**

<b>Section I (Supplied or Completed by Public Water System)</b>	<b>Section II (Supplied or Completed by Certified Laboratory)</b>
<b>Public Water System Information</b>	<b>Certified Laboratory Information</b>
PWSID#: CO0121724	Laboratory ID: CO 00063
System Name: Sterling Ranch MD	Laboratory Name: Colorado Analytical Laboratory
Contact Person: Mark Volle	Contact Person: Customer Service
Phone #: 719-227-0072	Phone: 303-659-2313
Do Samples Need to be Composited BY THE LAB? <input type="checkbox"/>	Comments:

Section V (Supplied or Completed by Public Water System)		Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)		Section VII (Supplied or Completed by Public Water System)				
Sample Date:	Collector:	Facility ID (On Schedule):	Analyte Name	CAS No	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
3/24/17	Stephanie Schwenk	170324007-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
3/24/17		170324007-01G	2,4,-D	94-75-7	EPA 515.4	70	0.1	BDL
3/24/17		170324007-01G	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
3/24/17		170324007-01I	A'lachlor	15972-60-8	EPA 525.2	2	0.2	BDL
3/24/17		170324007-01J	Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL
3/24/17		170324007-01J	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
3/24/17		170324007-01J	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
3/24/17		170324007-01I	Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL
3/24/17		170324007-01I	Benzoflpyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
3/24/17		170324007-01J	Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL
3/24/17		170324007-01F	Chlordane	57-74-9	EPA 505	2	0.2	BDL
3/24/17		170324007-01G	Dalapon	75-99-0	EPA 515.4	200	1	BDL
3/24/17		170324007-01I	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL
3/24/17		170324007-01I	Di(2-ethylhexyl)phthalate	117-81-7	EPA 525.2	6	0.6	BDL
3/24/17		170324007-01G	Dinosob	85-85-7	EPA 515.4	7	0.2	BDL
3/24/17		170324007-01L	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
3/24/17		170324007-01K	Endothall	145-73-3	EPA 548.1	100	9	BDL
3/24/17		170324007-01F	Endrin	72-20-8	EPA 505	2	0.01	BDL
3/24/17		170324007-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
3/24/17		170324007-01I	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
3/24/17		170324007-01F	Heptachlor epoxide	1024-57-3	EPA 505	0.2	0.02	BDL

NT: Not Tested ug/L; Micrograms per Liter MCL: Maximum Contaminant Level BDL: Below Laboratory MRL. A less than sign (<) may also be used.



PWSID#: CO0121724		Section V (Supplied or Completed by Public Water System)								
Sample Date: 3/23/17		Collector:	Stephanie Schwenk	Facility ID (On Schedule):	New Well	Sample Pt ID (On Schedule):	New Well			
Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)		Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
3/24/17	3/30/17	170324007-01F	Hexachlorobenzene	118-74-1	EPA 505	1	0.1	BDL		
3/24/17	3/30/17	170324007-01F	Hexachlorocyclopentadiene	77-47-4	EPA 505	50	0.1	BDL		
3/24/17	3/30/17	170324007-01F	Lindane	58-89-9	EPA 505	0.2	0.02	BDL		
3/24/17	3/30/17	170324007-01F	Methoxychlor	72-43-5	EPA 505	40	0.1	BDL		
3/24/17	3/31/17	170324007-01J	Oxamyl	23135-22-0	EPA 531.1	200	1	BDL		
3/24/17	3/29/17	170324007-01G	Pentachloronitrobenzene	87-86-5	EPA 515.4	1	0.04	BDL		
3/24/17	3/29/17	170324007-01G	Picloram	1918-02-1	EPA 515.4	500	0.1	BDL		
3/24/17	3/30/17	170324007-01F	Polychlorinated biphenyls	1336-36-3	EPA 505	0.5	0.1	BDL		
3/24/17	3/31/17	170324007-01I	Simazine	122-34-9	EPA 525.2	4	0.07	BDL		
3/24/17	3/30/17	170324007-01F	Toxaphene	8001-35-2	EPA 505	3	1	BDL		

NT: Not Tested ug/L; Micrograms per Liter MCL: Maximum Contaminant Level BDL: Below Laboratory MRL ^ less than sign (<) may also be used.

170324007-01 N

2/2  
4/24/17



Drinking Water Chain of Custody

page 1 of 2

Report To Information		State Form / Project Information	
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR WATER</u>	PWSID: <u>CO 0121724</u>	
Contact Name: <u>Mark Valle</u>	Contact Name: <u>JIM MORLEY</u>	System Name: <u>STANING BANCH MD</u>	
Address: <u>546 E. Pikes Peak Ave</u>	Address: <u>20 BOWDER CRESCENT</u>	City: <u>COLO SPRINGS</u>	State: <u>CO</u> Zip: <u>80903</u>
City: <u>CS</u>	City: <u>COLO SPRINGS</u>	State: <u>CO</u>	Zip: <u>80903</u>
Phone: <u>719-227-0072</u>	Phone: <u>303-552-3000</u>	County: <u>El Paso</u>	
Facsimile: <u>719-227-0072</u>	Facsimile: <u>303-552-3000</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: <u>mvalle@jds-hydro.com</u>	Email: <u>jmorley3870@aol.com</u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Sampler Name: <u>Stephanie Schweske</u>	PO No: <u></u>		

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses																				
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBS	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	625-50c	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium					
3-23	7:55	#1	1						X					X																						
	7:57	#2	1							X																										
	8:11	#3	2			X																														
	7:52	#4	1																																	
	7:52am	#5	1																																	
	7:53	#6	3																																	
	7:53	#7	2																																	
	7:58	#8	1																																	
	7:59	#9	1																																	
	8:03	#10	1																																	

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive the shipment.

Relinquished By: [Signature] Date/Time: 3-23 11:30am Received By: [Signature] Date/Time: 3/24/10 10:10

Delivered Via: Fed Ex C/S Charge  Date/Time:

Reinquinshed By:  Date/Time:  Received By:  Date/Time:

Temp. 3.3 °C / Yes °F Sample Pres. Yes  No

Seals Present Yes  No  Headspace Yes  No



**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228  
Phone: 303-659-2313  
Fax: 303-659-2315  
www.coloradolab.com

**Drinking Water Chain of Custody**

page 2 of 2

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>	
Company Name: <u>JDS-Hydra Consultants</u>	Company Name: <u>SR-Weather</u>	PWSID: <u>CO 0121724</u>	System Name: <u>Serling Ranch MD</u>
Contact Name: <u>Mark Volle</u>	Contact Name: <u>Jim Morley</u>	Address: <u>20 Boulder Crest</u>	Address: <u>20 Boulder Crest</u>
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crest</u>	City: <u>CS</u>	City: <u>CS</u>
State: <u>CO</u>	State: <u>CO</u>	Zip: <u>80903</u>	Zip: <u>80903</u>
City: <u>CS</u>	City: <u>CS</u>	County: <u>El Paso</u>	County: <u>El Paso</u>
Phone: <u>719-227-0072</u>	Phone: <u>38706221.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Fax: <u></u>	Email: <u>jmorley@weather.com</u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Sampler Name: <u>Soprano Schusker</u>	PO No: <u></u>		

CAL Task No.		PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses																				
170324007																																				
APF																																				
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/D/BCP	505 Pests/PCBS	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Cityphos	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOD, DOC (Circle)	SVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium							
3-23	8:07	#11	1																																	
	8:00	#12	X																																	
	8:26	#14	2																																	
	8:18	#15	2																																	
	8:12	#16 (1,4 Dioxane)	3																																	
	8:20	#17	2																																	
	8:25	#18	2																																	
	8:19	#19	3																																	
	8:29	#20	3																																	

Instructions:  
 Relinquished By: [Signature] Date/Time: 3-23 11:30am  
 Received By: [Signature] Date/Time: 3-23 11:30am

**Radionuclides Certified Laboratory Report Form**

**WQCD - Drinking Water CAS**

4300 Cherry Creek Drive South; Denver, CO 80246-1530

Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us



Colorado Department of Public Health and Environment

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWS ID: CO0121724		Laboratory ID: CO 00008	
System Name: Sterling Ranch MD		Laboratory Name: Hazen Research, Inc.	
Contact Person:		Contact Person: Jessica Axen	
Phone #:		Phone #: 303-279-4501	
Do Samples Need to be Compositd BY THE LAB?		Comments:	

**Section III (Supplied or Completed by Public Water System)**

Sample Date: 03/23/2017	Collector:	Facility ID (On Schedule):	Sample Pt ID (On Schedule):
-------------------------	------------	----------------------------	-----------------------------

**Section IV Radionuclides (Supplied or Completed by Certified Laboratory)**

Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name (Code)	CAS No.	Analytical Method	MCL	Lab MRL	Result
03/24/2017	04/18/2017	C27017-001	Gross Alpha Including Uranium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±1.5)
			Combined Uranium (4006)	7440-61-1	D2907-97	30 ug/L		
03/24/2017	04/07/2017	C27017-001	Radium -226 (4020)	13982-63-3	SM 7500-Ra B	N/A	0.1	0.4(±0.3)
03/24/2017	03/30/2017	C27017-001	Radium -228 (4030)	15262-20-1	EPA Ra-05	N/A	0.6	0.2(±0.6)
03/24/2017	04/18/2017	C27017-001	Gross Beta (4100)	12587-47-2	SM 7110 B	50 pCi/L.*	2.1	0.0(±2.0)
			Total Dissolved Solids (1930)		EPA 160.3	N/A		

\*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.

**Section V Calculated Values**

Gross Alpha Excluding Uranium (4000)	Calculated Value	15 pCi/L	N/A
Combined Radium {-226 & -228} (4010)	Calculated Value	5 pCi/L	N/A

NT: Not Tested  
 Lab MRL: Laboratory Minimum Reporting Level  
 BDL: Below Laboratory MRL. A less than sign (<) may also be used  
 ug/L: Micrograms per Liter  
 pCi/L: Picocuries per Liter  
 MCL: Maximum Contaminant Level

## Drinking Water Chain of Custody

<b>Report To Information</b>	<b>Company Name:</b> Colorado Analytical Labs	<b>Company Name:</b> same	<b>State Form / Project Information</b>
<b>Contact Name:</b> Stuart Nielson	<b>Contact Name:</b> _____	<b>Contact Name:</b> _____	<b>PWSID:</b> CO0121724
<b>Address:</b> P.O. Box 507	<b>Address:</b> _____ _____ _____ City: Brighton State: CO Zip: 80601	<b>System Address:</b> 20 Boulder Crescent City: Colorado Spgs State: CO Zip: 80903	<b>System Name:</b> Sterling Ranch M/D
<b>Phone:</b> 303-659-2313 <b>Fax:</b> 303-659-2315	<b>Phone:</b> _____ <b>Fax:</b> _____	<b>County:</b> El Paso	<b>Compliance Samples:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Email:</b> stuartnielson@coloradolab.com	<b>Email:</b> _____	<b>Send Forms to State:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Sampler Name:</b> _____	<b>PO No.:</b> _____		



**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr., Suite 101  
Lakewood CO 80228

**Phone: 303-659-2313**  
**Fax: 303-659-2315**  
**www.coloradolab.com**

<b>CAL Task No.</b> 170324007	<b>PHASE I, II, V Drinking Water Analyses (check analysis)</b>	<b>Subcontract Analyses</b>																												
<b>Date</b>	<b>Time</b>	<b>Client Sample ID / EP Code</b>	<b>No. of Containers</b>	<b>Residual Chlorine (mg/L) P/A Samples Only</b>	<input type="checkbox"/> <b>Total Coliform P/A</b>	<input type="checkbox"/> <b>504.1 EDB/DBCP</b>	<input type="checkbox"/> <b>505 Pests/PCBs</b>	<input type="checkbox"/> <b>515.4 Herbicides</b>	<input type="checkbox"/> <b>524.2 VOCs</b>	<input type="checkbox"/> <b>525.2 SOC's-Pest</b>	<input type="checkbox"/> <b>531.1 Carbamates</b>	<input type="checkbox"/> <b>547 Glyphosate</b>	<input type="checkbox"/> <b>548.1 Endothall</b>	<input type="checkbox"/> <b>549.2 Diquat</b>	<input type="checkbox"/> <b>524.2 TTHMs</b>	<input type="checkbox"/> <b>552.2 HAA5s</b>	<input type="checkbox"/> <b>Lead/Copper</b>	<input type="checkbox"/> <b>Nitrate</b>	<input type="checkbox"/> <b>Nitrite</b>	<input type="checkbox"/> <b>Fluoride</b>	<input type="checkbox"/> <b>Inorganics</b>	<input type="checkbox"/> <b>Alk./Lang. Index</b>	<input type="checkbox"/> <b>TOC, DOC (Circle)</b>	<input type="checkbox"/> <b>SUVA, UV 254 (Circle)</b>	<input checked="" type="checkbox"/> <b>Gross Alpha /Beta</b>	<input checked="" type="checkbox"/> <b>Radium 226</b>	<input checked="" type="checkbox"/> <b>Radium 228</b>	<input checked="" type="checkbox"/> <b>Radon</b>	<input type="checkbox"/> <b>Uranium</b>	
3/23/17	08:03	170324007 Sterling Ranch M/D	6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ARR</b>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Instructions:</b> Gross Alpha, without Radon & Uranium. ** Combined Radium -226 & -228.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Relinquished By:</b> <i>Stuart Nielson</i>		<b>Date/Time:</b> 3/23/17 11:50	<b>Received By:</b>	<b>Date/Time:</b>	<b>Delivered Via:</b> H/D	<b>Relinquished By:</b>	<b>C/S Change:</b> <input type="checkbox"/>	<b>Date/Time:</b>	<b>Temp. °C/°F:</b>	<b>Sample Pres:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>Date/Time:</b> 03/24/2017	<b>Seals Present:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>Headspace:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>																	

Please print results on Colorado State form but do not submit to CDPHE. Thank you.

## Analytical Results

TASK NO: 170324007

Report To: Mark Volle

Company: JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

Task No.: 170324007  
Client PO:  
Client Project: Sterling Ranch MD CO0121724

Date Received: 3/24/17  
Date Reported: 4/21/17  
Matrix: Water - Drinking

Customer Sample ID: Sterling Ranch MD  
Sample Date/Time: 3/23/17 8:03 AM  
Lab Number: 170324007-01

Facility ID: New Well  
Sample Point ID: New Well

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	1.3 mg/L	EPA 300.0	0.1 mg/L	3/24/17	LJG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	3/28/17	VDB
E-Coli	< 1 mpn/100ml	Colliert	1 mpn/100ml	3/25/17	VDB
Sulfate	10.7 mg/L	EPA 300.0	0.1 mg/L	3/24/17	LJG
Total Coliform	68 mpn/100ml	Colifert	1 mpn/100ml	3/25/17	VDB
Total Organic Carbon	< 0.5 mg/L	SM 5310-C	0.5 mg/L	3/28/17	ISG
Turbidity	1.08 NTU	SM 2130-B	0.01 NTU	3/24/17	MBN
<u>Total</u>					
Aluminum	0.032 mg/L	EPA 200.8	0.001 mg/L	3/29/17	TCD
Calcium	1.0 mg/L	EPA 200.7	0.1 mg/L	3/29/17	MBN
Copper	< 0.0008 mg/L	EPA 200.8	0.0008 mg/L	3/29/17	TCD
Iron	0.180 mg/L	EPA 200.7	0.005 mg/L	3/30/17	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	3/29/17	TCD
Magnesium	0.06 mg/L	EPA 200.7	0.02 mg/L	3/29/17	MBN
Manganese	0.0071 mg/L	EPA 200.8	0.0008 mg/L	3/29/17	TCD
Potassium	1.0 mg/L	EPA 200.7	0.1 mg/L	3/29/17	MBN
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	3/29/17	TCD
Strontium	0.009 mg/L	EPA 200.8	0.005 mg/L	3/29/17	TCD
Total Hardness	2.7 mg/L as CaCO3	SM 2340-B	0.1 mg/L as CaCO3	3/30/17	MBN
Uranium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	3/29/17	TCD
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	3/29/17	TCD

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 ml = Most Probable Number Index/ 100 ml  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY



**Analytical Results**

**TASK NO: 170324007**

**Report To:** Mark Volle  
**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley  
**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

**Task No.:** 170324007  
**Client PO:**  
**Client Project:** Sterling Ranch MD CO0121724

**Date Received:** 3/24/17  
**Date Reported:** 4/21/17  
**Matrix:** Water - Drinking

**Customer Sample ID:** Sterling Ranch MD  
**Sample Date/Time:** 3/23/17 8:03 AM  
**Lab Number:** 170324007-01

**Facility ID:** New Well  
**Sample Point ID:** New Well

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Total</u> Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	3/29/17	TCD

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 mls = Most Probable Number Index/ 100 mls  
Date Analyzed = Date Test Completed

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**Drinking Water Chain of Custody**

page 1 of 2

Report To Information		State Form / Project Information	
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR WATER</u>	PWSID: <u>CO 0121724</u>	System Name: <u>STRAWING BAYH MD</u>
Contact Name: <u>Mark Valle</u>	Contact Name: <u>JIM MORLEY</u>	Address: <u>20 BOWLER CRESCENT</u>	Address: <u>20 BOWLER CRESCENT</u>
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 BOWLER CRESCENT</u>	City: <u>COLO SPRINGS</u>	City: <u>COLO SPRINGS</u>
City: <u>CS</u>	City: <u>COLO SPRINGS</u>	State: <u>CO</u>	State: <u>CO</u>
Zip: <u>80903</u>	Zip: <u>80903</u>	County: <u>El Paso</u>	County: <u>El Paso</u>
Phone: <u>719-287-0078</u>	Phone: <u>719-287-0078</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Fax: <u>719-287-0078</u>	Fax: <u>719-287-0078</u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Email: <u>mvalle@jds-hydro.com</u>	Email: <u>jmorley@srwater.com</u>		
Sampler Name: <u>Stephanie Schwenke</u>	Sampler Name: <u>Stephanie Schwenke</u>		

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

[www.coloradolab.com](http://www.coloradolab.com)

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses											
ARF		No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDR/BCP	505 Pests/PCBS	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbinates	548.1 Endothall	549.2 Diquat	524.2 THMS	552.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Krypton	Uranium	
3-23 7:55	#1	1					X				X																	
7:57	#2	1						X																				
8:11	#3	2							X																			
7:52	#4	1																										
7:52	#5	1						X																				
7:52	#6	3										X																
7:53	#7	2																										
7:58	#8	1																										
7:59	#9	1																										
8:02	#10	1																										

**Instructions:** No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive this shipment.

**C/S Info:** Delivered Via: Fed Ex C/S Charge  Temp. 3.3 °C/liter Y

**Relinquished By:** Stephanie Schwenke 3/23 11:30am Else Nielsen 3/24/17 10:10

**Received By:** Stephanie Schwenke 3/23 11:30am Else Nielsen 3/24/17 10:10



Drinking Water Chain of Custody

page 2 of 2



Report To Information  
 Company Name: JDS-Hydr Consultants  
 Contact Name: Mark Volle  
 Address: 545 E. Pikes Peak Ave  
Suite 300  
 City CS State CO Zip 80903  
 Phone: 719-227-0072 Fax:  
 Email: Mvolle@jds-hydr.com  
 Sampler Name: Soprene Schwenke PO No.:

Bill To Information (if different from report to)  
 Company Name: SR Water  
 Contact Name: Jim Morley  
 Address: 20 Boulder Crest  
 City CS State CO Zip 80903  
 Phone: Fax:  
 Email: jmorley3870@aol.com  
 Compliance Samples: Yes  No   
 Send Forms to State: Yes  No

State Form / Project Information  
 PWSID: CO 012124  
 System Name: Serling Ranch MD  
 Address: 20 Boulder Crest  
 City CS State CO Zip 80903  
 County: El Paso  
 Compliance Samples: Yes  No

Brighton Lab  
 240 South Main Street  
 Brighton, CO 80601

Lakewood Lab  
 12860 W. Cedar Dr, Suite 100A  
 Lakewood CO 80228

Phone: 303-659-2313  
 Fax: 303-659-2315  
 www.coloradolab.com

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses													
Date	Time	Client Sample ID / EP Code	Residual Chlorine (mg/L)	No. of Containers	Total Coliform P/A	504.1 EDR/DRCP	505 Pests/PCBS	515.4 Herbicides	<del>525.2 SOCs-Pest</del>	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	552.2 HAAS	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium		
3-23	8:01	#11		1																									
	8:00	#12		1																									
	8:26	#14		3																									
	8:18	#15		2																									
	8:12	#16 (1,4 Dioxane)		3																									
	8:20	#17		2																									
	8:20	#18		2																									
	8:19	#19		3																									
	8:29	#20		3																									

Instructions: \_\_\_\_\_  
 Relinquished By: [Signature] Date/Time: 3-23 11:30am  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_



# ANALYTICAL SUMMARY REPORT

April 06, 2017

Colorado Analytical Laboratories Inc  
PO Drawer 507  
Brighton, CO 80601

Work Order: C17030850      Quote ID: C4542 - 624, 625, 1,4-Dioxane  
Project Name: 170324007 Sterling Ranch MD

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 3/28/2017 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C17030850-001	170324007 Sterling Ranch MD	03/23/17 8:03	03/28/17	Groundwater	Azeotropic Distillation Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

  
Randy Horton, Project Manager

Digitally signed by  
Randy Horton  
Date: 2017.04.06 16:31:29 -06:00



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Gillette, WY 888.686.7175 • Helena, MT 877.472.0711

**CLIENT:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Work Order:** C17030850

**Report Date:** 04/06/17

## CASE NARRATIVE

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Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Lab ID:** C17030850-001  
**Client Sample ID:** 170324007 Sterling Ranch MD

**Report Date:** 04/06/17  
**Collection Date:** 03/23/17 08:03  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>VOCS BY AZEOTROPIC DISTILLATION</b>							
1,4-Dioxane	ND	ug/L		1.0		SW8260M	04/06/17 09:34 / eli-b
- Analysis by direct aqueous injection of the sample distillate. A deuterated version of 1,4-Dioxane was added to the sample prior to distillation and used to quantitate the 1,4-Dioxane and account for any variations in the analysis or distillation.							
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Acetone	ND	ug/L		20	E624		03/31/17 16:09 / eli-b
Acetonitrile	ND	ug/L		20	E624		03/31/17 16:09 / eli-b
Acrolein	ND	ug/L		20	E624		03/31/17 16:09 / eli-b
Acrylonitrile	ND	ug/L		20	E624		03/31/17 16:09 / eli-b
Benzene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Bromobenzene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Bromochloromethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Bromodichloromethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Bromoforn	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Bromomethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Carbon disulfide	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Carbon tetrachloride	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Chlorobenzene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Chlorodibromomethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Chloroethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
2-Chloroethyl vinyl ether	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Chloroform	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Chloromethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
2-Chlorotoluene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
4-Chlorotoluene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,2-Dibromoethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Dibromomethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,2-Dichlorobenzene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,3-Dichlorobenzene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,4-Dichlorobenzene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Dichlorodifluoromethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,1-Dichloroethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,2-Dichloroethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,1-Dichloroethene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
cis-1,2-Dichloroethene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
trans-1,2-Dichloroethene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,2-Dichloropropane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,3-Dichloropropane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
2,2-Dichloropropane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,1-Dichloropropene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
cis-1,3-Dichloropropene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
trans-1,3-Dichloropropene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Ethylbenzene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD  
Lab ID: C17030850-001  
Client Sample ID: 170324007 Sterling Ranch MD

Report Date: 04/06/17  
Collection Date: 03/23/17 08:03  
Date Received: 03/28/17  
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Methyl tert-butyl ether (MTBE)	ND	ug/L		2.0		E624	03/31/17 16:09 / eli-b
Methyl ethyl ketone	ND	ug/L		20		E624	03/31/17 16:09 / eli-b
Methyl isobutyl ketone	ND	ug/L		10		E624	03/31/17 16:09 / eli-b
Methylene chloride	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Naphthalene	ND	ug/L		0.50		E624	03/31/17 16:09 / eli-b
Styrene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Tetrachloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Toluene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Trichloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1,1-Trichloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2,3-Trichloropropane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Vinyl Acetate	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Vinyl chloride	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
m+p-Xylenes	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
o-Xylene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Xylenes, Total	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Surr: 1,2-Dichloroethane-d4	105	%REC		71-139		E624	03/31/17 16:09 / eli-b
Surr: p-Bromofluorobenzene	102	%REC		80-127		E624	03/31/17 16:09 / eli-b
Surr: Toluene-d8	92.0	%REC		80-123		E624	03/31/17 16:09 / eli-b
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
Acenaphthene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Acenaphthylene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Anthracene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Azobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzidine	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(a)anthracene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(a)pyrene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(b)fluoranthene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(g,h,i)perylene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Benzo(k)fluoranthene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
4-Bromophenyl phenyl ether	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Butylbenzylphthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
4-Chloro-3-methylphenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
bis(-2-chloroethoxy)Methane	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
bis(-2-chloroethyl)Ether	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
bis(2-chloroisopropyl)Ether	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2-Chloronaphthalene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2-Chlorophenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b

Report Definitions: RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Lab ID:** C17030850-001  
**Client Sample ID:** 170324007 Sterling Ranch MD

**Report Date:** 04/06/17  
**Collection Date:** 03/23/17 08:03  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
4-Chlorophenyl phenyl ether	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Chrysene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Diethyl phthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Di-n-butyl phthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
1,3-Dichlorobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
1,4-Dichlorobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2,4-Dichlorophenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Dimethyl phthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Di-n-octyl phthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2,4-Dimethylphenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
4,6-Dinitro-2-methylphenol	ND	ug/L		50		E625	03/30/17 17:14 / eli-b
2,4-Dinitrophenol	ND	ug/L		50		E625	03/30/17 17:14 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2,6-Dinitrotoluene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
bis(2-ethylhexyl)Phthalate	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Fluoranthene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Fluorene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Hexachlorobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Hexachlorobutadiene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Hexachloroethane	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Indeno(1,2,3-cd)pyrene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Isophorone	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2-Nitrophenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
4-Nitrophenol	ND	ug/L		50		E625	03/30/17 17:14 / eli-b
Naphthalene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Nitrobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Pentachlorophenol	ND	ug/L		50		E625	03/30/17 17:14 / eli-b
Phenanthrene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Phenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Pyrene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
1,2,4-Trichlorobenzene	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
2,4,6-Trichlorophenol	ND	ug/L		10		E625	03/30/17 17:14 / eli-b
Surr: 2-Fluorobiphenyl	61.0	%REC		28-107		E625	03/30/17 17:14 / eli-b
Surr: 2-Fluorophenol	39.0	%REC		20-56		E625	03/30/17 17:14 / eli-b
Surr: Nitrobenzene-d5	63.0	%REC		32-94		E625	03/30/17 17:14 / eli-b
Surr: Phenol-d5	27.0	%REC		19-45		E625	03/30/17 17:14 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Lab ID:** C17030850-001  
**Client Sample ID:** 170324007 Sterling Ranch MD

**Report Date:** 04/06/17  
**Collection Date:** 03/23/17 08:03  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
Surr: Terphenyl-d14	70.0	%REC		32-122		E625	03/30/17 17:14 / eli-b
Surr: 2,4,6-Tribromophenol	68.0	%REC		21-130		E625	03/30/17 17:14 / eli-b

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/08/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									
Analytical Run: R277281									
Lab ID: ccv033117	Continuing Calibration Verification Standard								03/31/17 08:45
Acetone	58.0	ug/L	20	116	70	130			
Acetonitrile	56.4	ug/L	20	113	70	130			
Acrolein	56.4	ug/L	20	113	70	130			
Acrylonitrile	49.6	ug/L	20	99	70	130			
Benzene	5.08	ug/L	0.50	102	70	130			
Bromobenzene	5.04	ug/L	0.50	101	70	130			
Bromochloromethane	5.36	ug/L	0.50	107	70	130			
Bromodichloromethane	4.92	ug/L	0.50	98	70	130			
Bromoform	5.04	ug/L	0.50	101	70	130			
Bromomethane	4.28	ug/L	0.50	86	70	130			
Carbon disulfide	5.32	ug/L	0.50	106	70	130			
Carbon tetrachloride	5.80	ug/L	0.50	116	70	130			
Chlorobenzene	4.56	ug/L	0.50	91	70	130			
Chlorodibromomethane	5.04	ug/L	0.50	101	70	130			
Chloroethane	4.80	ug/L	0.50	96	70	130			
2-Chloroethyl vinyl ether	2.90	ug/L	1.0	58	70	130			S
Chloroform	5.60	ug/L	0.50	112	70	130			
Chloromethane	3.82	ug/L	0.50	76	70	130			
2-Chlorotoluene	5.00	ug/L	0.50	100	70	130			
4-Chlorotoluene	5.44	ug/L	0.50	109	70	130			
1,2-Dibromoethane	4.68	ug/L	0.50	94	70	130			
Dibromomethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	70	130			
1,3-Dichlorobenzene	5.16	ug/L	0.50	103	70	130			
1,4-Dichlorobenzene	5.00	ug/L	0.50	100	70	130			
Dichlorodifluoromethane	5.20	ug/L	0.50	104	70	130			
1,1-Dichloroethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichloroethane	6.24	ug/L	0.50	125	70	130			
1,1-Dichloroethene	5.12	ug/L	0.50	102	70	130			
cis-1,2-Dichloroethene	4.76	ug/L	0.50	95	70	130			
trans-1,2-Dichloroethene	5.00	ug/L	0.50	100	70	130			
1,2-Dichloropropane	4.88	ug/L	0.50	98	70	130			
1,3-Dichloropropane	4.88	ug/L	0.50	98	70	130			
2,2-Dichloropropane	5.72	ug/L	0.50	114	70	130			
1,1-Dichloropropene	5.44	ug/L	0.50	109	70	130			
cis-1,3-Dichloropropene	4.80	ug/L	0.50	96	70	130			
trans-1,3-Dichloropropene	4.84	ug/L	0.50	97	70	130			
Ethylbenzene	4.88	ug/L	0.50	98	70	130			
Methyl tert-butyl ether (MTBE)	5.20	ug/L	0.50	104	70	130			
Methyl ethyl ketone	54.0	ug/L	20	108	70	130			
Methyl isobutyl ketone	50.4	ug/L	20	101	70	130			
Methylene chloride	5.88	ug/L	0.50	118	70	130			
Naphthalene	5.08	ug/L	0.50	102	70	130			

**Qualifiers:**

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.





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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									
Analytical Run: R277281									
Lab ID: ccv033117	Continuing Calibration Verification Standard								03/31/17 08:45
Styrene	4.52	ug/L	0.50	90	70	130			
Tetrachloroethene	4.68	ug/L	0.50	94	70	130			
1,1,1,2-Tetrachloroethane	4.72	ug/L	0.50	94	70	130			
1,1,2,2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130			
Toluene	4.78	ug/L	0.50	95	70	130			
Trichloroethene	4.92	ug/L	0.50	98	70	130			
1,1,1-Trichloroethane	5.72	ug/L	0.50	114	70	130			
1,1,2-Trichloroethane	4.72	ug/L	0.50	94	70	130			
Trichlorofluoromethane	4.88	ug/L	0.50	98	70	130			
1,2,3-Trichloropropane	5.24	ug/L	0.50	105	70	130			
Vinyl Acetate	5.32	ug/L	1.0	106	70	130			
Vinyl chloride	4.60	ug/L	0.50	92	70	130			
m+p-Xylenes	9.32	ug/L	0.50	93	70	130			
o-Xylene	4.52	ug/L	0.50	90	70	130			
Xylenes, Total	13.8	ug/L	0.50	92	70	130			
Surr: 1,2-Dichloroethane-d4			0.50	107	71	139			
Surr: p-Bromofluorobenzene			0.50	102	80	127			
Surr: Toluene-d8			0.50	91	80	123			

Method: E624									
Batch: R277281									
Lab ID: lcs033117	Laboratory Control Sample								03/31/17 09:19
Run: 5971A.I_170331A									
Acetone	56.0	ug/L	20	112	55	144			
Acetonitrile	56.8	ug/L	20	114	54	142			
Acrolein	42.4	ug/L	20	85	16	233			
Acrylonitrile	48.4	ug/L	20	97	76	127			
Benzene	4.92	ug/L	0.50	98	73	122			
Bromobenzene	4.96	ug/L	0.50	99	74	129			
Bromochloromethane	5.16	ug/L	0.50	103	66	120			
Bromodichloromethane	5.16	ug/L	0.50	103	74	128			
Bromoform	5.12	ug/L	0.50	102	66	128			
Bromomethane	4.76	ug/L	0.50	95	51	123			
Carbon disulfide	5.36	ug/L	0.50	107	46	145			
Carbon tetrachloride	5.72	ug/L	0.50	114	75	125			
Chlorobenzene	4.64	ug/L	0.50	93	80	123			
Chlorodibromomethane	5.32	ug/L	0.50	106	74	125			
Chloroethane	4.48	ug/L	0.50	90	59	142			
2-Chloroethyl vinyl ether	2.62	ug/L	1.0	52	36	144			
Chloroform	5.52	ug/L	0.50	110	68	124			
Chloromethane	3.77	ug/L	0.50	75	53	146			
2-Chlorotoluene	5.08	ug/L	0.50	102	75	131			
4-Chlorotoluene	5.36	ug/L	0.50	107	74	129			
1,2-Dibromoethane	4.64	ug/L	0.50	93	76	124			
Dibromomethane	5.16	ug/L	0.50	103	77	125			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									
Lab ID: Ics033117	Laboratory Control Sample				Run: 5971A.I_170331A			Batch: R277281	
1,2-Dichlorobenzene	4.96	ug/L	0.50	99	74	124			03/31/17 09:19
1,3-Dichlorobenzene	5.12	ug/L	0.50	102	77	122			
1,4-Dichlorobenzene	4.96	ug/L	0.50	99	76	126			
Dichlorodifluoromethane	5.60	ug/L	0.50	112	56	146			
1,1-Dichloroethane	4.72	ug/L	0.50	94	74	133			
1,2-Dichloroethane	5.76	ug/L	0.50	115	75	129			
1,1-Dichloroethene	5.16	ug/L	0.50	103	74	132			
cis-1,2-Dichloroethene	4.88	ug/L	0.50	98	81	122			
trans-1,2-Dichloroethene	5.12	ug/L	0.50	102	79	143			
1,2-Dichloropropane	4.60	ug/L	0.50	92	75	126			
1,3-Dichloropropane	4.68	ug/L	0.50	94	71	136			
2,2-Dichloropropane	5.68	ug/L	0.50	114	68	142			
1,1-Dichloropropene	5.00	ug/L	0.50	100	70	131			
cis-1,3-Dichloropropene	4.40	ug/L	0.50	88	74	135			
trans-1,3-Dichloropropene	4.84	ug/L	0.50	97	76	149			
Ethylbenzene	4.96	ug/L	0.50	99	72	130			
Methyl tert-butyl ether (MTBE)	5.12	ug/L	0.50	102	72	120			
Methyl ethyl ketone	52.0	ug/L	20	104	45	130			
Methyl isobutyl ketone	50.8	ug/L	20	102	58	135			
Methylene chloride	6.08	ug/L	0.50	122	66	142			
Naphthalene	5.60	ug/L	0.50	112	69	124			
Styrene	4.56	ug/L	0.50	91	80	124			
Tetrachloroethene	4.72	ug/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane	4.64	ug/L	0.50	93	78	124			
1,1,1,2-Tetrachloroethane	4.76	ug/L	0.50	95	68	137			
Toluene	4.76	ug/L	0.50	95	72	135			
Trichloroethene	4.80	ug/L	0.50	96	65	126			
1,1,1-Trichloroethane	5.40	ug/L	0.50	108	63	120			
1,1,2-Trichloroethane	4.48	ug/L	0.50	90	78	124			
Trichlorofluoromethane	4.52	ug/L	0.50	90	72	120			
1,2,3-Trichloropropane	4.68	ug/L	0.50	94	64	138			
Vinyl Acetate	4.76	ug/L	1.0	95	31	124			
Vinyl chloride	4.76	ug/L	0.50	95	58	140			
m+p-Xylenes	9.08	ug/L	0.50	91	67	139			
o-Xylene	4.48	ug/L	0.50	90	74	135			
Xylenes, Total	13.6	ug/L	0.50	90	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	109	71	139			
Surr: p-Bromofluorobenzene			0.50	102	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: blk033117	Method Blank				Run: 5971A.I_170331A			03/31/17 10:18	
Acetone	ND	ug/L		20					
Acetonitrile	ND	ug/L		20					

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch: R277281		
Lab ID: blk033117	Method Blank		Run: 5971A.I_170331A				03/31/17 10:18		
Acrolein	ND	ug/L							
Acrylonitrile	ND	ug/L							
Benzene	ND	ug/L			0.50				
Bromobenzene	ND	ug/L			0.50				
Bromochloromethane	ND	ug/L			0.50				
Bromodichloromethane	ND	ug/L			0.50				
Bromoform	ND	ug/L			0.50				
Bromomethane	ND	ug/L			0.50				
Carbon disulfide	ND	ug/L			0.50				
Carbon tetrachloride	ND	ug/L			0.50				
Chlorobenzene	ND	ug/L			0.50				
Chlorodibromomethane	ND	ug/L			0.50				
Chloroethane	ND	ug/L			0.50				
2-Chloroethyl vinyl ether	ND	ug/L			1.0				
Chloroform	ND	ug/L			0.50				
Chloromethane	ND	ug/L			0.50				
2-Chlorotoluene	ND	ug/L			0.50				
4-Chlorotoluene	ND	ug/L			0.50				
1,2-Dibromoethane	ND	ug/L			0.50				
Dibromomethane	ND	ug/L			0.50				
1,2-Dichlorobenzene	ND	ug/L			0.50				
1,3-Dichlorobenzene	ND	ug/L			0.50				
1,4-Dichlorobenzene	ND	ug/L			0.50				
Dichlorodifluoromethane	ND	ug/L			0.50				
1,1-Dichloroethane	ND	ug/L			0.50				
1,2-Dichloroethane	ND	ug/L			0.50				
1,1-Dichloroethene	ND	ug/L			0.50				
cis-1,2-Dichloroethene	ND	ug/L			0.50				
trans-1,2-Dichloroethene	ND	ug/L			0.50				
1,2-Dichloropropane	ND	ug/L			0.50				
1,3-Dichloropropane	ND	ug/L			0.50				
2,2-Dichloropropane	ND	ug/L			0.50				
1,1-Dichloropropene	ND	ug/L			0.50				
cis-1,3-Dichloropropene	ND	ug/L			0.50				
trans-1,3-Dichloropropene	ND	ug/L			0.50				
Ethylbenzene	ND	ug/L			0.50				
Methyl tert-butyl ether (MTBE)	ND	ug/L			0.50				
Methyl ethyl ketone	ND	ug/L			20				
Methyl isobutyl ketone	ND	ug/L			20				
Methylene chloride	ND	ug/L			0.50				
Naphthalene	ND	ug/L			0.50				
Styrene	ND	ug/L			0.50				
Tetrachloroethene	ND	ug/L			0.50				

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E824									
Lab ID: b1k033117	Method Blank			Run: 5971A.L_170331A			Batch: R277281		
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50						03/31/17 10:18
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
1,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
Trichlorofluoromethane	ND	ug/L	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						
Vinyl Acetate	ND	ug/L	1.0						
Vinyl chloride	ND	ug/L	0.50						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: 1,2-Dichloroethane-d4			0.50	105	71	139			
Surr: p-Bromofluorobenzene			0.50	104	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: b17031875-001dms Sample Matrix Spike Run: 5971A.I_170331A 03/31/17 14:12									
Acetone	378	ug/L	100	109	55	144			
Acetonitrile	274	ug/L	100	110	54	142			
Benzene	24.6	ug/L	2.5	98	73	122			
Bromobenzene	24.8	ug/L	2.5	99	74	129			
Bromochloromethane	25.2	ug/L	2.5	101	66	120			
Bromodichloromethane	26.2	ug/L	2.5	105	74	128			
Bromoform	27.0	ug/L	2.5	108	66	128			
Bromomethane	18.8	ug/L	2.5	75	51	123			
Carbon disulfide	26.4	ug/L	2.5	106	46	145			
Carbon tetrachloride	28.2	ug/L	2.5	113	75	125			
Chlorobenzene	22.8	ug/L	2.5	91	80	123			
Chlorodibromomethane	26.8	ug/L	2.5	107	74	125			
Chloroethane	20.2	ug/L	2.5	81	59	142			
Chloroform	33.2	ug/L	2.5	110	68	124			
Chloromethane	18.6	ug/L	2.5	74	53	146			
2-Chlorotoluene	24.8	ug/L	2.5	99	75	131			
4-Chlorotoluene	25.8	ug/L	2.5	103	74	129			
1,2-Dibromoethane	24.0	ug/L	2.5	96	76	124			
Dibromomethane	26.2	ug/L	2.5	105	77	125			
1,2-Dichlorobenzene	24.6	ug/L	2.5	98	74	124			
1,3-Dichlorobenzene	24.6	ug/L	2.5	98	77	122			
1,4-Dichlorobenzene	24.6	ug/L	2.5	98	76	126			
Dichlorodifluoromethane	27.0	ug/L	2.5	108	56	146			
1,1-Dichloroethane	24.2	ug/L	2.5	97	74	133			
1,2-Dichloroethane	29.2	ug/L	2.5	117	75	129			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									
Lab ID: b17031875-001dms	Sample Matrix Spike			Run: 5971A.I_170331A				Batch: R277281	
1,1-Dichloroethene	26.6	ug/L	2.5	106	74	132			03/31/17 14:12
cis-1,2-Dichloroethene	24.4	ug/L	2.5	98	81	122			
trans-1,2-Dichloroethene	25.8	ug/L	2.5	103	79	143			
1,2-Dichloropropane	23.0	ug/L	2.5	92	75	126			
1,3-Dichloropropane	22.4	ug/L	2.5	90	71	136			
2,2-Dichloropropane	28.0	ug/L	2.5	112	68	142			
1,1-Dichloropropene	25.2	ug/L	2.5	101	70	131			
cis-1,3-Dichloropropene	22.2	ug/L	2.5	89	74	136			
trans-1,3-Dichloropropene	24.6	ug/L	2.5	98	76	149			
Ethylbenzene	23.8	ug/L	2.5	94	72	130			
Methyl tert-butyl ether (MTBE)	25.6	ug/L	2.5	102	72	120			
Methyl ethyl ketone	258	ug/L	100	107	45	130			
Methyl isobutyl ketone	258	ug/L	100	103	58	135			
Methylene chloride	32.2	ug/L	2.5	129	66	142			
Naphthalene	27.6	ug/L	2.5	110	89	124			
Styrene	22.4	ug/L	2.5	90	80	124			
Tetrachloroethene	22.8	ug/L	2.5	91	72	131			
1,1,1,2-Tetrachloroethane	23.0	ug/L	2.5	92	78	124			
1,1,2,2-Tetrachloroethane	26.0	ug/L	2.5	104	68	137			
Toluene	24.4	ug/L	2.5	95	72	135			
Trichloroethene	23.8	ug/L	2.5	95	85	126			
1,1,1-Trichloroethane	26.6	ug/L	2.5	107	63	120			
1,1,2-Trichloroethane	23.4	ug/L	2.5	94	78	124			
Trichlorofluoromethane	21.2	ug/L	2.5	85	72	120			
1,2,3-Trichloropropane	26.2	ug/L	2.5	105	64	138			
Vinyl Acetate	24.4	ug/L	5.0	98	31	124			
Vinyl chloride	22.6	ug/L	2.5	90	58	140			
m+p-Xylenes	44.8	ug/L	2.5	90	67	139			
o-Xylene	22.6	ug/L	2.5	90	74	135			
Xylenes, Total	67.4	ug/L	2.5	90	70	137			
Surr: 1,2-Dichloroethane-d4			2.5	110	71	139			
Surr: p-Bromofluorobenzene			2.5	102	80	127			
Surr: Toluene-d8			2.5	93	80	123			
Lab ID: b17031875-001dmsd	Sample Matrix Spike Duplicate			Run: 5971A.I_170331A				03/31/17 15:11	
Acetone	410	ug/L	100	122	55	144	8.1	20	
Acetonitrile	262	ug/L	100	105	54	142	4.5	20	
Benzene	25.0	ug/L	2.5	100	73	122	1.6	20	
Bromobenzene	25.6	ug/L	2.5	102	74	129	3.2	20	
Bromochloromethane	25.2	ug/L	2.5	101	66	120	0.0	20	
Bromodichloromethane	27.2	ug/L	2.5	109	74	128	3.7	20	
Bromoform	29.4	ug/L	2.5	114	66	128	5.1	20	
Bromomethane	20.8	ug/L	2.5	83	51	123	10	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R277281
Lab ID: b17031875-001dmsd	Sample Matrix Spike Duplicate			Run: 5971A.I_170331A			03/31/17 15:11		
Carbon disulfide	25.6	ug/L	2.5	102	46	145	3.1	20	
Carbon tetrachloride	28.6	ug/L	2.5	114	75	125	1.4	20	
Chlorobenzene	23.6	ug/L	2.5	94	80	123	3.4	20	
Chlorodibromomethane	28.0	ug/L	2.5	112	74	125	4.4	20	
Chloroethane	20.6	ug/L	2.5	82	59	142	2.0	20	
Chloroform	33.6	ug/L	2.5	111	66	124	1.2	20	
Chloromethane	19.3	ug/L	2.5	77	53	146	3.8	20	
2-Chlorotoluene	26.4	ug/L	2.5	106	75	131	6.2	20	
4-Chlorotoluene	27.2	ug/L	2.5	109	74	129	5.3	20	
1,2-Dibromoethane	24.0	ug/L	2.5	96	76	124	0.0	20	
Dibromomethane	26.8	ug/L	2.5	107	77	125	2.3	20	
1,2-Dichlorobenzene	25.8	ug/L	2.5	103	74	124	4.8	20	
1,3-Dichlorobenzene	26.0	ug/L	2.5	104	77	122	5.5	20	
1,4-Dichlorobenzene	25.4	ug/L	2.5	102	76	126	3.2	20	
Dichlorodifluoromethane	25.8	ug/L	2.5	103	56	146	4.5	20	
1,1-Dichloroethane	24.8	ug/L	2.5	99	74	133	2.4	20	
1,2-Dichloroethane	29.2	ug/L	2.5	117	75	129	0.0	20	
1,1-Dichloroethene	26.8	ug/L	2.5	107	74	132	0.7	20	
cis-1,2-Dichloroethene	25.2	ug/L	2.5	101	81	122	3.2	20	
trans-1,2-Dichloroethene	26.4	ug/L	2.5	106	79	143	2.3	20	
1,2-Dichloropropane	23.6	ug/L	2.5	94	75	126	2.6	20	
1,3-Dichloropropane	23.8	ug/L	2.5	95	71	136	6.1	20	
2,2-Dichloropropane	28.6	ug/L	2.5	114	68	142	2.1	20	
1,1-Dichloropropene	25.8	ug/L	2.5	103	70	131	2.4	20	
cis-1,3-Dichloropropene	23.2	ug/L	2.5	93	74	135	4.4	20	
trans-1,3-Dichloropropene	25.4	ug/L	2.5	102	76	149	3.2	20	
Ethylbenzene	25.0	ug/L	2.5	100	72	130	5.8	20	
Methyl tert-butyl ether (MTBE)	26.6	ug/L	2.5	106	72	120	3.6	20	
Methyl ethyl ketone	292	ug/L	100	117	45	130	8.6	20	
Methyl isobutyl ketone	286	ug/L	100	114	58	135	10	20	
Methylene chloride	31.4	ug/L	2.5	126	66	142	2.5	20	
Naphthalene	27.8	ug/L	2.5	111	69	124	0.7	20	
Styrene	22.8	ug/L	2.5	91	80	124	1.8	20	
Tetrachloroethene	23.8	ug/L	2.5	95	72	131	4.3	20	
1,1,1,2-Tetrachloroethane	23.2	ug/L	2.5	93	78	124	0.9	20	
1,1,1,2,2-Tetrachloroethane	27.4	ug/L	2.5	110	68	137	5.2	20	
Toluene	24.4	ug/L	2.5	95	72	135	0.0	20	
Trichloroethene	25.0	ug/L	2.5	100	85	126	4.9	20	
1,1,1-Trichloroethane	27.4	ug/L	2.5	110	63	120	2.2	20	
1,1,2-Trichloroethane	24.8	ug/L	2.5	99	78	124	5.8	20	
Trichlorofluoromethane	22.4	ug/L	2.5	90	72	120	5.5	20	
1,2,3-Trichloropropane	26.8	ug/L	2.5	107	64	136	2.3	20	
Vinyl Acetate	24.4	ug/L	5.0	98	31	124	0.0	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/08/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R277281
Lab ID: b17031875-001dmsd									03/31/17 15:11
Sample Matrix Spike Duplicate									Run: 5971A.L_170331A
Vinyl chloride	22.8	ug/L	2.5	91	58	140	0.9	20	
m+p-Xylenes	46.0	ug/L	2.5	92	67	139	2.6	20	
o-Xylene	23.4	ug/L	2.5	94	74	135	3.5	20	
Xylenes, Total	69.4	ug/L	2.5	93	70	137			
Surr: 1,2-Dichloroethane-d4			2.5	112	71	139			
Surr: p-Bromofluorobenzene			2.5	105	80	127			
Surr: Toluene-d8			2.5	93	80	123			

**Qualifiers:**

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ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625									Batch: 107942
Lab ID: MB-107942	Method Blank		Run: SV5973N2.I_170330B				03/30/17 16:12		
Acenaphthene	ND	ug/L							10
Acenaphthylene	ND	ug/L							10
Anthracene	ND	ug/L							10
Azobenzene	ND	ug/L							10
Benzidine	ND	ug/L							10
Benzo(a)anthracene	ND	ug/L							10
Benzo(a)pyrene	ND	ug/L							10
Benzo(b)fluoranthene	ND	ug/L							10
Benzo(g,h,i)perylene	ND	ug/L							10
Benzo(k)fluoranthene	ND	ug/L							10
4-Bromophenyl phenyl ether	ND	ug/L							10
Butylbenzylphthalate	ND	ug/L							10
4-Chloro-3-methylphenol	ND	ug/L							10
bis(-2-chloroethoxy)Methane	ND	ug/L							10
bis(-2-chloroethyl)Ether	ND	ug/L							10
bis(2-chloroisopropyl)Ether	ND	ug/L							10
2-Chloronaphthalene	ND	ug/L							10
2-Chlorophenol	ND	ug/L							10
4-Chlorophenyl phenyl ether	ND	ug/L							10
Chrysene	ND	ug/L							10
Diethyl phthalate	ND	ug/L							10
Di-n-butyl phthalate	ND	ug/L							10
1,2-Dichlorobenzene	ND	ug/L							10
1,3-Dichlorobenzene	ND	ug/L							10
1,4-Dichlorobenzene	ND	ug/L							10
3,3'-Dichlorobenzidine	ND	ug/L							10
2,4-Dichlorophenol	ND	ug/L							10
Dimethyl phthalate	ND	ug/L							10
Di-n-octyl phthalate	ND	ug/L							10
Dibenzo(a,h)anthracene	ND	ug/L							10
2,4-Dimethylphenol	ND	ug/L							10
4,6-Dinitro-2-methylphenol	ND	ug/L							50
2,4-Dinitrophenol	ND	ug/L							50
2,4-Dinitrotoluene	ND	ug/L							10
2,6-Dinitrotoluene	ND	ug/L							10
bis(2-ethylhexyl)Phthalate	ND	ug/L							10
Fluoranthene	ND	ug/L							10
Fluorene	ND	ug/L							10
Hexachlorobenzene	ND	ug/L							10
Hexachlorobutadiene	ND	ug/L							10
Hexachlorocyclopentadiene	ND	ug/L							10
Hexachloroethane	ND	ug/L							10
Indeno(1,2,3-cd)pyrene	ND	ug/L							10

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.





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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625									Batch: 107942
Lab ID: MB-107942	Method Blank				Run: SV5973N2.I_170330B		03/30/17 16:12		
Isophorone	ND	ug/L	10						
n-Nitrosodimethylamine	ND	ug/L	10						
n-Nitroso-di-n-propylamine	ND	ug/L	10						
n-Nitrosodiphenylamine	ND	ug/L	10						
2-Nitrophenol	ND	ug/L	10						
4-Nitrophenol	ND	ug/L	50						
Naphthalene	ND	ug/L	10						
Nitrobenzene	ND	ug/L	10						
Pentachlorophenol	ND	ug/L	50						
Phenanthrene	ND	ug/L	10						
Phenol	ND	ug/L	10						
Pyrene	ND	ug/L	10						
1,2,4-Trichlorobenzene	ND	ug/L	10						
2,4,6-Trichlorophenol	ND	ug/L	10						
Surr: 2-Fluorobiphenyl			10	57	28	107			
Surr: 2-Fluorophenol			10	42	20	56			
Surr: Nitrobenzene-d5			10	62	32	94			
Surr: Phenol-d5			10	30	19	45			
Surr: Terphenyl-d14			10	80	32	122			
Surr: 2,4,6-Tribromophenol			10	68	21	130			
Lab ID: LCS-107942	Laboratory Control Sample				Run: SV5973N2.I_170330B		03/30/17 16:43		
Acenaphthene	89.1	ug/L	10	89	58	99			
Acenaphthylene	84.2	ug/L	10	84	57	96			
Anthracene	75.6	ug/L	10	76	60	107			
Azobenzene	78.0	ug/L	10	78	56	100			
Benzidine	53.1	ug/L	10	53	10	100			
Benzo(a)anthracene	86.4	ug/L	10	86	62	114			
Benzo(a)pyrene	84.7	ug/L	10	85	62	108			
Benzo(b)fluoranthene	89.8	ug/L	10	90	48	127			
Benzo(g,h,i)perylene	87.2	ug/L	10	87	62	121			
Benzo(k)fluoranthene	84.0	ug/L	10	84	55	111			
4-Bromophenyl phenyl ether	87.1	ug/L	10	87	58	105			
Butylbenzylphthalate	90.8	ug/L	10	91	60	113			
4-Chloro-3-methylphenol	74.6	ug/L	10	75	53	92			
bis(-2-chloroethoxy)Methane	69.9	ug/L	10	70	50	92			
bis(-2-chloroethyl)Ether	72.1	ug/L	10	72	44	82			
bis(2-chloroisopropyl)Ether	63.2	ug/L	10	63	56	87			
2-Chloronaphthalene	84.9	ug/L	10	85	56	95			
2-Chlorophenol	67.2	ug/L	10	67	47	76			
4-Chlorophenyl phenyl ether	83.0	ug/L	10	83	58	99			
Chrysene	87.0	ug/L	10	87	63	106			
Diethyl phthalate	84.6	ug/L	10	85	58	103			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batch: 107942		
Lab ID: LCS-107942	Laboratory Control Sample			Run: SV5973N2.I_170330B			03/30/17 16:43		
Di-n-butyl phthalate	87.1	ug/L	10	87	61	110			
1,2-Dichlorobenzene	69.3	ug/L	10	69	43	81			
1,3-Dichlorobenzene	64.0	ug/L	10	64	41	79			
1,4-Dichlorobenzene	64.5	ug/L	10	64	42	79			
3,3'-Dichlorobenzidine	64.8	ug/L	10	65	51	93			
2,4-Dichlorophenol	70.6	ug/L	10	71	49	90			
Dimethyl phthalate	82.5	ug/L	10	82	58	104			
Di-n-octyl phthalate	93.4	ug/L	10	93	56	110			
Dibenzo(a,h)anthracene	87.8	ug/L	10	88	61	111			
2,4-Dimethylphenol	66.2	ug/L	10	66	45	89			
4,6-Dinitro-2-methylphenol	66.1	ug/L	50	66	37	105			
2,4-Dinitrophenol	54.1	ug/L	50	54	27	81			
2,4-Dinitrotoluene	86.2	ug/L	10	86	63	110			
2,6-Dinitrotoluene	77.2	ug/L	10	77	60	107			
bis(2-ethylhexyl)Phthalate	86.0	ug/L	10	86	56	108			
Fluoranthene	84.2	ug/L	10	84	63	110			
Fluorene	89.3	ug/L	10	89	60	99			
Hexachlorobenzene	82.7	ug/L	10	83	57	103			
Hexachlorobutadiene	71.7	ug/L	10	72	39	83			
Hexachlorocyclopentadiene	81.0	ug/L	10	81	39	91			
Hexachloroethane	65.0	ug/L	10	65	37	75			
Indeno(1,2,3-cd)pyrene	83.2	ug/L	10	83	59	109			
Isophorone	69.8	ug/L	10	70	42	102			
n-Nitrosodimethylamine	36.8	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	76.6	ug/L	10	77	48	98			
n-Nitrosodiphenylamine	91.5	ug/L	10	92	61	108			
2-Nitrophenol	72.3	ug/L	10	72	51	96			
4-Nitrophenol	27.4	ug/L	50	27	15	36			
Naphthalene	68.1	ug/L	10	68	48	96			
Nitrobenzene	77.9	ug/L	10	78	51	91			
Pentachlorophenol	72.4	ug/L	50	72	53	109			
Phenanthrene	82.0	ug/L	10	82	58	104			
Phenol	40.6	ug/L	10	41	27	45			
Pyrene	85.0	ug/L	10	85	64	108			
1,2,4-Trichlorobenzene	71.2	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	73.9	ug/L	10	74	47	99			
Surr: 2-Fluorobiphenyl			10	69	28	107			
Surr: 2-Fluorophenol			10	42	20	56			
Surr: Nitrobenzene-d5			10	72	32	94			
Surr: Phenol-d5			10	36	19	45			
Surr: Terphenyl-d14			10	80	32	122			
Surr: 2,4,6-Tribromophenol			10	70	21	130			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625									Batch: 107942
Lab ID: C17030850-001CMS	Sample Matrix Spike			Run: SV5973N2.I_170330B				03/30/17 17:45	
Acenaphthene	86.7	ug/L	10	87	58	99			
Acenaphthylene	75.5	ug/L	10	76	57	96			
Anthracene	81.6	ug/L	10	82	60	107			
Azobenzene	84.6	ug/L	10	85	56	100			
Benzidine	122	ug/L	20	122	10	100			S
Benzo(a)anthracene	83.4	ug/L	10	83	62	114			
Benzo(a)pyrene	76.4	ug/L	10	78	62	108			
Benzo(b)fluoranthene	79.9	ug/L	10	80	48	127			
Benzo(g,h,i)perylene	83.2	ug/L	10	83	62	121			
Benzo(k)fluoranthene	84.5	ug/L	10	84	55	111			
4-Bromophenyl phenyl ether	79.5	ug/L	10	79	58	105			
Butylbenzylphthalate	89.2	ug/L	10	89	60	113			
4-Chloro-3-methylphenol	78.3	ug/L	10	78	53	92			
bis(-2-chloroethoxy)Methane	77.9	ug/L	10	78	50	92			
bis(-2-chloroethyl)Ether	71.5	ug/L	10	71	44	82			
bis(2-chloroisopropyl)Ether	58.4	ug/L	10	58	56	87			
2-Chloronaphthalene	77.6	ug/L	10	78	56	95			
2-Chlorophenol	63.7	ug/L	10	64	47	76			
4-Chlorophenyl phenyl ether	81.0	ug/L	10	81	58	99			
Chrysene	85.9	ug/L	10	86	63	106			
Diethyl phthalate	84.0	ug/L	10	84	56	103			
Di-n-butyl phthalate	87.0	ug/L	10	87	61	110			
1,2-Dichlorobenzene	67.3	ug/L	10	67	43	81			
1,3-Dichlorobenzene	66.0	ug/L	10	66	41	79			
1,4-Dichlorobenzene	66.7	ug/L	10	67	42	79			
3,3'-Dichlorobenzidine	131	ug/L	10	131	51	93			S
2,4-Dichlorophenol	70.0	ug/L	10	70	49	90			
Dimethyl phthalate	79.3	ug/L	10	79	58	104			
Di-n-octyl phthalate	81.8	ug/L	10	82	56	110			
Dibenzo(a,h)anthracene	80.1	ug/L	10	80	61	111			
2,4-Dimethylphenol	70.7	ug/L	10	71	45	87			
4,6-Dinitro-2-methylphenol	53.1	ug/L	50	53	37	105			
2,4-Dinitrophenol	43.0	ug/L	50	43	27	81			
2,4-Dinitrotoluene	85.6	ug/L	10	86	63	110			
2,6-Dinitrotoluene	81.5	ug/L	10	81	60	107			
bis(2-ethylhexyl)Phthalate	77.5	ug/L	10	77	56	108			
Fluoranthene	84.0	ug/L	10	84	63	110			
Fluorene	80.0	ug/L	10	80	60	99			
Hexachlorobenzene	78.2	ug/L	10	78	57	103			
Hexachlorobutadiene	69.1	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	69.0	ug/L	10	69	39	91			
Hexachloroethane	62.6	ug/L	10	63	37	75			
Indeno(1,2,3-cd)pyrene	76.3	ug/L	10	76	59	109			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625									Batch: 107942
Lab ID: C17030850-001CMS	Sample Matrix Spike					Run: SV5973N2.I_170330B			03/30/17 17:45
Isochlorone	71.4	ug/L	10	71	42	102			
n-Nitrosodimethylamine	26.1	ug/L	10	26	20	45			
n-Nitroso-di-n-propylamine	76.1	ug/L	10	76	49	98			
n-Nitrosodiphenylamine	105	ug/L	10	105	61	108			
2-Nitrophenol	73.5	ug/L	10	74	51	96			
4-Nitrophenol	25.8	ug/L	50	26	15	38			
Naphthalene	75.6	ug/L	10	76	48	96			
Nitrobenzene	75.6	ug/L	10	76	51	91			
Pentachlorophenol	60.3	ug/L	50	60	53	109			
Phenanthrene	83.8	ug/L	10	84	58	104			
Phenol	38.7	ug/L	10	39	27	45			
Pyrene	87.0	ug/L	10	87	64	108			
1,2,4-Trichlorobenzene	74.7	ug/L	10	75	49	85			
2,4,6-Trichlorophenol	68.8	ug/L	10	69	47	99			
Surr: 2-Fluorobiphenyl			10	51	28	107			
Surr: 2-Fluorophenol			10	41	20	56			
Surr: Nitrobenzene-d5			10	64	32	94			
Surr: Phenol-d5			10	33	19	45			
Surr: Terphenyl-d14			10	73	32	122			
Surr: 2,4,6-Tribromophenol			10	67	21	130			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Analytical Run: R277253		
Lab ID: 30-Mar-17_CCV_11	Continuing Calibration Verification Standard						03/30/17 15:40		
Acenaphthene	75.3	ug/L	10	100	80	120			
Acenaphthylene	79.7	ug/L	10	106	80	120			
Anthracene	75.2	ug/L	10	100	80	120			
Azobenzene	75.1	ug/L	10	100	80	120			
Benzidine	70.6	ug/L	10	94	80	120			
Benzo(a)anthracene	76.3	ug/L	10	102	80	120			
Benzo(a)pyrene	81.9	ug/L	10	109	80	120			
Benzo(b)fluoranthene	78.3	ug/L	10	104	80	120			
Benzo(g,h,i)perylene	78.0	ug/L	10	104	80	120			
Benzo(k)fluoranthene	81.6	ug/L	10	109	80	120			
4-Bromophenyl phenyl ether	81.6	ug/L	10	109	80	120			
Butylbenzylphthalate	78.0	ug/L	10	104	80	120			
4-Chloro-3-methylphenol	76.0	ug/L	10	101	80	120			
bis(-2-chloroethoxy)Methane	70.4	ug/L	10	94	80	120			
bis(-2-chloroethyl)Ether	77.2	ug/L	10	103	80	120			
bis(2-chloroisopropyl)Ether	76.7	ug/L	10	102	80	120			
2-Chloronaphthalene	79.8	ug/L	10	106	80	120			
2-Chlorophenol	72.7	ug/L	10	97	80	120			
4-Chlorophenyl phenyl ether	72.7	ug/L	10	97	80	120			
Chrysene	74.9	ug/L	10	100	80	120			
Diethyl phthalate	76.8	ug/L	10	102	80	120			
Di-n-butyl phthalate	76.9	ug/L	10	102	80	120			
1,2-Dichlorobenzene	76.8	ug/L	10	102	80	120			
1,3-Dichlorobenzene	72.1	ug/L	10	96	80	120			
1,4-Dichlorobenzene	74.8	ug/L	10	100	80	120			
3,3'-Dichlorobenzidine	76.2	ug/L	10	102	80	120			
2,4-Dichlorophenol	73.5	ug/L	10	98	80	120			
Dimethyl phthalate	77.0	ug/L	10	103	80	120			
Di-n-octyl phthalate	81.2	ug/L	10	108	80	120			
Dibenzo(a,h)anthracene	76.2	ug/L	10	102	80	120			
2,4-Dimethylphenol	70.3	ug/L	10	94	80	120			
4,6-Dinitro-2-methylphenol	77.4	ug/L	50	103	80	120			
2,4-Dinitrophenol	80.2	ug/L	50	107	80	120			
2,4-Dinitrotoluene	79.8	ug/L	10	106	80	120			
2,6-Dinitrotoluene	80.8	ug/L	10	108	80	120			
bis(2-ethylhexyl)Phthalate	77.3	ug/L	10	103	80	120			
Fluoranthene	76.8	ug/L	10	102	80	120			
Fluorene	82.8	ug/L	10	110	80	120			
Hexachlorobenzene	74.2	ug/L	10	99	80	120			
Hexachlorobutadiene	73.0	ug/L	10	97	80	120			
Hexachlorocyclopentadiene	79.2	ug/L	10	106	80	120			
Hexachloroethane	74.4	ug/L	10	99	80	120			
Indeno(1,2,3-cd)pyrene	73.3	ug/L	10	98	80	120			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17  
Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Analytical Run: R277253		
Lab ID: 30-Mar-17_CCV_11	Continuing Calibration Verification Standard							03/30/17 15:40	
Isophorone	71.5	ug/L	10	95	80	120			
n-Nitrosodimethylamine	79.5	ug/L	10	106	80	120			
n-Nitroso-di-n-propylamine	76.0	ug/L	10	101	80	120			
n-Nitrosodiphenylamine	77.5	ug/L	10	103	80	120			
2-Nitrophenol	74.6	ug/L	10	99	80	120			
4-Nitrophenol	72.4	ug/L	50	97	80	120			
Naphthalene	68.4	ug/L	10	91	80	120			
Nitrobenzene	77.1	ug/L	10	103	80	120			
Pentachlorophenol	71.7	ug/L	50	96	80	120			
Phenanthrene	70.9	ug/L	10	95	80	120			
Phenol	79.0	ug/L	10	105	80	120			
Pyrene	79.0	ug/L	10	105	80	120			
1,2,4-Trichlorobenzene	73.1	ug/L	10	98	80	120			
2,4,6-Trichlorophenol	71.0	ug/L	10	95	80	120			
Surr: 2-Fluorobiphenyl			10	108	80	120			
Surr: 2-Fluorophenol			10	105	80	120			
Surr: Nitrobenzene-d5			10	101	80	120			
Surr: Phenol-d5			10	102	80	120			
Surr: Terphenyl-d14			10	104	80	120			
Surr: 2,4,6-Tribromophenol			10	105	80	120			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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Gillette, WY 866.886.7175 • Helena, MT 877.472.0711

## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260M							Analytical Run: 108173		
Lab ID: CCV-108173	Continuing Calibration Verification Standard						04/06/17 08:29		
1,4-Dioxane	95.7	ug/L	1.0	96	80	120			
Method: SW8260M							Batch: 108173		
Lab ID: LCS-108173	Laboratory Control Sample						Run: VOA5973A.I_170406A		
1,4-Dioxane	87.5	ug/L	1.0	88	70	130			04/06/17 08:51
Lab ID: MB-108173	Method Blank						Run: VOA5973A.I_170406A		
1,4-Dioxane	ND	ug/L	1.0						04/06/17 09:12
Lab ID: C17030850-001AMS	Sample Matrix Spike						Run: VOA5973A.I_170406A		
1,4-Dioxane	194	ug/L	2.0	97	70	130			04/06/17 09:55
Lab ID: C17030860-001AMSD	Sample Matrix Spike Duplicate						Run: VOA5973A.I_170406A		
1,4-Dioxane	206	ug/L	2.0	103	70	130	6.0	20	04/06/17 10:17

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

# Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C17030850

Login completed by: Corinne Wagner  
Reviewed by: Kasey Vidick  
Reviewed Date: 3/29/2017

Date Received: 3/28/2017  
Received by: ckw  
Carrier name: Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	8.8°C On Ice - From Field		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Contact and Corrective Action Comments:

None



### Chain of Custody Form



**Colorado Analytical Laboratories, Inc.**  
 Brighton Lab  
 240 South Main Street  
 Brighton, CO 80601  
 Lakewood Lab  
 12860 W. Cedar Dr, Suite 100A  
 Lakewood CO 80228  
 Phone: 303-659-2313  
 Fax: 303-659-2315  
[www.coloradolab.com](http://www.coloradolab.com)

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>	
Company Name: <u>Colorado Analytical Laboratory</u>	Company Name: <u>Same</u>	Project Name 170324007 <u>Sterling Ranch, MD</u>	
Contact Name: <u>Stuart Nielson</u>	Contact Name: _____	Task Number (Lab Use Only) CAL Task No. <u>170324007</u>	
Address: P.O. Box 207 240 S Main St City <u>Brighton</u> State <u>CO</u> Zip <u>80601</u>	Address: _____ _____ City _____ State _____ Zip _____	Disposal Date (Lab Use Only) ARF	
Phone: 303-659-2313 Fax: 303-659-2315	Phone: _____ Fax: _____		
Email: <a href="mailto:stuartnielson@coloradolab.com">stuartnielson@coloradolab.com</a>	Email: _____		
Sample Collector:	PO No.:		

U7030850

Date/Time	Sample	Waste Water	Ground Water	Surface Water	Soil	Sludge	Compost	Plant Tissue	Other	Grab (or Check One Only)	Composite	8260 1,4-Dioxane	624 Long List	625 SOCs	No. of Containers	Seals Present		Temp. to 6°C/ice	Sample Pres.	Date/Time	
																Yes	No				Yes
3/23/17	08:03	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7	<input type="checkbox"/>	<input type="checkbox"/>	6	Yes	3/27/17	
																				3:28:17	

Instructions: UPS to Energy Labs  
 Relinquished By: P.M. Cullen    Date/Time: 3/27/17 1700  
 Received By: Mankin    Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_    Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_    Date/Time: \_\_\_\_\_

**Water Quality Results**  
**LFH-1 (80132-F)**



Colorado Department  
of Public Health  
and Environment

**Inorganic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
**4300 Cherry Creek Drive South, Denver, CO 80246-1530**  
**Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us**

Revised 6/13/2014

**IOC**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO-0121724		Laboratory ID: CO 0015	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313
Comments:	Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>	Comments:	

Section III (Supplied or Completed by Public Water System)			
Sample Date: 2/16/17	Collector: Stephanie Schwe	Facility ID (On Schedule):	Sample Pt ID (On Schedule):
Section IV Inorganic Chemicals (Completed by Certified Laboratory)			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analytic Name
2/17/17	2/17/17	170217005-01	Fluoride
		CAS No	MCL (mg/L)
		7681-49-4	4
	Analytical Method	Lab MRL (mg/L)	Result (mg/L)
	EPA 300.0	0.09	1.07

NT: Not Tested  
 Lab MRL: Laboratory Minimum Reporting Level  
 BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter  
 MCL: Maximum Contaminant Level

3/6/17  
 170217005-01  
 1/1

Drinking Water Chain of Custody



Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Report To Information: IDS-Hydro

Company Name: IDS-Hydro

Contact Name: Mark Wolfe

Address: 515 E. Pikes Peak Ave

City: CS State: CO Zip: 80903

Phone: 719-271-0572 Fax: \_\_\_\_\_

Email: mwolfe@ishydro.com

Sampler Name: Debra Schwenke PO No: \_\_\_\_\_

State: CO / Project Information: \_\_\_\_\_

Company Name: SP Water

Contact Name: Jim Morley

Address: 20 Boulder Crescent St

City: Colorado Springs State: CO Zip: 80903

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: jmorley@spwater.com

Address: NE 1/4 NW 1/4 S37

City: Colorado Springs State: CO Zip: 80908

County: El Paso

Compliance Samples: Yes  No

Send Forms to State: Yes  No

Dr. Carms

PHASE I, II, V Drinking Water Analyses (check analysis)

Date	Title	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
9/15/11		#1	3		X																									
9/15/11		#2	3			X																								
9/15/11		#3	3							X																				
9/15/11		#4	3																											
9/15/11		#5	3																											
9/15/11		#6	3																											
9/15/11		#7	3																											
9/15/11		#8	3							X																				
9/15/11		#9	3																											
9/15/11		#10	3																											

Instructions:

CS Info:

Seals Present Yes  No  Headspace Yes  No

Delivered Via: Fedex

Temp. 2 °C/lsc 1 Sample Pres. Yes  No

Relinquished By: [Signature] Date/Time: 12/16/11 Received By: [Signature] Date/Time: 12/17/11

Relinquished By: [Signature] Date/Time: 12/16/11 Received By: [Signature] Date/Time: 12/17/11

Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Report To Information

Company Name: JDS HNDRO

Contact Name: MARK VOLLE

Address: 545 E. BATES PEAK AVE SUITE 300

City/State/Zip: State CO Zip 80903

Phone: 719-277-0014 Fax:

Email: mwalle@jdhndro.com

Sampler Name: STEPH SCHWENKE

---

Bill To Information (if different from report to)

Company Name: SR WATER

Contact Name: JEM MORLEY

Address: 20 BOUNDER CRESSANT ST

City/State/Zip: CITY COLO SPRS State CO Zip 80903

Phone: Fax:

Email: jmorley@3870@aol.com

PO No:

State Form / Project Information

PWSID: CO-0121784

System Name: LFH-1

Address: NE 1/4 NUD 1/4 S 27 T 125 R 65 W 6TH PM

City/State/Zip: CITY COLO SPRS State CO Zip 80908

County: EL PASO

Compliance Samples: Yes  No

Send Forms to State: Yes  No

CAL Task No. 170217005

PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride <sup>Drinking Water IDs</sup>	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Subcontract Analyses		
																										Radium 226	Radium 228	Radon Cyanide
2/16	8:31	#11	3																								X	
	9:50	#12	3																								X	
	9:51	#13	2																								X	
	9:43	#14	1																								X	
2/16	8:40	#15	1																									X
	8:44	#16	1						X																			X
	9:02	#17	1																									X
	9:42	#18	1																									X
	9:44	#19	3						X																			X

34 + 504 Blank

VOA  
Fedex

Reinquisitioned By: [Signature] Date/Time: 2:15 PM 2/17/11

Received By: [Signature] Date/Time: 8:00 2/17/11

Delivered Via:  CS Charge  Temp: 2 °C/lc

Received By: [Signature] Date/Time: [Blank]

Scale Present Yes  No  Headspace Yes  No

Sample Pres Yes  No



Colorado Department  
of Public Health  
and Environment

**Inorganic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
Submit Online at <http://www.wqcdcompliance.com/login>

Revised 4/13/2015

**IOC**

Section I. (Submitted or Completed by Public Water System)		Section II. (Submitted or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO-0121724		Laboratory ID: CO 0015	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Voile	Phone #: _____	Contact Person: Customer Service	Phone: 303-659-2313
Comments:	Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>	Comments:	

Section III. (Submitted or Completed by Public Water System) | Section IV. Inorganic Chemicals (Completed by Certified Laboratory)

Sample Date: 2/16/17 | Collector: Stephanie Schwab | Facility ID (On Schedule): \_\_\_\_\_ | Sample Pt ID (On Schedule): \_\_\_\_\_

Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical Method	MCL (mg/L)	Lab MRL (mg/L)	Result (mg/L)
2/17/17	2/22/17	170217005-01A	Antimony	7740-36-0	EPA 200.8	0.006	0.001	BDL
2/17/17	2/22/17	170217005-01A	Arsenic	7440-38-2	EPA 200.8	0.01	0.001	0.002
2/17/17	2/22/17	170217005-01A	Barium	7440-39-3	EPA 200.8	2	0.001	0.015
2/17/17	2/22/17	170217005-01A	Beryllium	7440-41-7	EPA 200.8	0.004	0.001	BDL
2/17/17	2/22/17	170217005-01A	Cadmium	7440-43-9	EPA 200.8	0.005	0.001	BDL
2/17/17	2/22/17	170217005-01A	Chromium	7440-47-3	EPA 200.8	0.1	0.001	0.001
2/17/17	2/22/17	170217005-01A	Mercury	7439-97-6	EPA 200.8	0.002	0.0001	BDL
2/17/17	2/22/17	170217005-01A	Nickel	7440-02-0	EPA 200.8	N/A	0.001	0.001
2/17/17	2/22/17	170217005-01A	Selenium	7782-49-2	EPA 200.8	0.05	0.001	BDL
2/17/17	2/24/17	170217005-01A	Sodium	7440-23-5	EPA 200.7	N/A	0.1	142.7
2/17/17	2/22/17	170217005-01A	Thallium	7440-28-0	EPA 200.8	0.002	0.001	BDL

NT: Not Tested  
Lab MRL: Laboratory Minimum Reporting Level  
BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter  
MCL: Maximum Contaminant Level

3/6/17  
170217005-01A  
1/1

Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Report To Information

Company Name: IDS-Hydro  
Contact Name: Mark Volle

Address: 545 E. Pikes Peak Ave  
Suite 300

City: CS State/Zip: 80903

Phone: 719-337-0572  
Email: mwolle@jashydro.com

Bill To Information (if different from report to)

Company Name: SR Water  
Contact Name: Tim Morley

Address: 20 Boulder Crescent St

City: Colorado Springs State/Zip: 80903

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: jmorley@srwater.com

State Form / Project Information

PWSID: CO-D121724  
System Name: LGH-1

Address: NE 1/4 NW 1/4 S37  
T12S R6SW L64PM

City: Colorado Springs State/Zip: 80908

County: El Paso  
Compliance Sample: Yes  No

CAL Task No.  
170217005

PHASE I, II, V Drinking Water Analytes (check analysis)

Subcontract Analytes

Date	Time	Client Sample ID / Ep Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
9:31		#1	3		X																										
9:30		#2	3			X																									
9:30		#3	3				X																								
9:30		#4	3							X																					
9:30		#5	3																												
9:30		#6	3																												
9:30		#7	3							X																					
9:30		#8	3																												
9:54		#9	3																												
9:52		#10	3																												

Instructions:

CS Info:

Seals Present Yes  No  Headspace Yes  No

Relinquished By:

Date/Time:

Received By:

Date/Time:

Relinquished By:

CS Charge:

Temp. °C/ice

Sample Pres. Yes  No

Relinquished By: [Signature] Date/Time: 10/16/17  
Received By: [Signature] Date/Time: 10/16/17

Relinquished Via: Fedex

CS Charge: [Signature]

Temp. 2 °C/ice Y

Sample Pres. Yes  No

Drinking Water Chain of Custody



Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2315  
Fax: 303-659-2315

www.coloradolab.com

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: <u>JDS HYDRO</u>		Company Name: <u>SR WATER</u>		PW/SID: <u>CO-0121734</u>	
Contact Name: <u>MARK VOLLE</u>		Contact Name: <u>JIM MORLEY</u>		System Name: <u>LEA-1</u>	
Address: <u>545 E. PARKS PEAK AVE SUITE 300</u>		Address: <u>20 BOULDER CRESSANT ST</u>		Address: <u>NE 1/4 NW 1/4 S27 T12S R65W G7M PH</u>	
City/CO State ZIP <u>90903</u>		City/CO State ZIP <u>80903</u>		City/CO State ZIP <u>80908</u>	
Phone: <u>719-273-0072</u> Fax:		Phone: Fax:		County: <u>EL PASO</u>	
Email: <u>mark.volle@jdsHydro.com</u>		Email: <u>jmorley@srwater.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>STEPH SCHWENKKE</u>		PO No.:		Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

*These results on state forms*

CAL Task No.  
170217005

PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride <sup>Drinking Water</sup>	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radon <sup>Cyanide</sup>	Uranium	
9/16	8:31	#11	3																											
	9:50	#12	3																											
	9:41	#13	2																											
	9:43	#14	1																											
	8:40	#15	1																											
	8:44	#16	1					X																						
	9:42	#17	1																											
	9:12	#18	1																											
	9:14	#19	3					X																						

Instructions:

34 + 504 Blank

CS Info: Fedex

Seals Present Yes  No  Headspace Yes  No

Relinquished By: [Signature] Date/Time: 9/16/17 2:15 PM Received By: [Signature] Date/Time: 9/17/17 0800

Delivered Via: Fedex CS Charge  Date/Time: [Blank]

Temp. 2 °C/°F Sample Pres. Yes  No  Date/Time: [Blank]





**Hazen Research, Inc.**  
 4601 Indiana Street  
 Golden, CO 80403 USA  
 Tel: (303) 279-4501  
 Fax: (303) 276-1528

Lab Control ID: B16917  
 Received: Feb 17, 2017  
 Reported: Mar 20, 2017  
 Purchase Order No.  
 None Received

Customer ID: 20040H  
 Account ID: Z01034  
 Project #: 009-616  
**ANALYTICAL REPORT**

**Stuart Nielson**  
**Colorado Analytical Laboratories, Inc.**

Lab Sample ID			B16917-001					
Customer Sample ID			170217005-01 - Lfh-1 - PWSID: CO0121724 - LFH-1 sampled on 02/16/17 @ 0906 by Stephanie Schwenke					
Parameter	Units	Code	Precision* Detection			Method	Analysis	
			Result	+/-	Limit		Date / Time	Analyst
Gross Alpha	pCi/L	T	0.0	0.0	1.5	SM 7110 B	3/2/17 @ 0840	LD
Gross Beta	pCi/L	T	0.0	2.1	2.2	SM 7110 B	3/2/17 @ 0840	LD
Radium-226	pCi/L	T	0.0	0.2	0.1	SM 7500-Ra B	3/3/17 @ 0825	LD
Radium-228	pCi/L	T	0.0	0.8	0.8	EPA Ra-05	3/14/17 @ 1257	JR
Radon	pCi/L	T	345	25	13.9	SM 7500-Rn B	2/17/17 @ 1500	AN

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; NJ CO008; NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

\*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual  
 (PD) = Potentially Dissolved <= Less Than

**Radionuclides Certified Laboratory Report Form**

**RAD**

WQCD – Drinking Water CAS  
 4300 Cherry Creek Drive South; Denver, CO 80246-1530  
 Fax: (303) 758-1398; cdph.dinkingwater@state.co.us



Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information			
PWS ID: CO0121724		Laboratory ID: CO 00008	
System Name: L.fh-1		Laboratory Name: Hazen Research, Inc.	
Contact Person:		Contact Person: Jessica Axen	
Phone #:		Phone #: 303-279-4501	
Do Samples Need to be Composited BY THE LAB?		Comments:	

Section III (Supplied or Completed by Public Water System)

Sample Date: 02/16/2017 Collector: Stephanie Schwenke Facility ID (On Schedule): Sample Pt ID (On Schedule):

Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name (Code)	CAS No.	Analytical Method	MCL	Lab MRL	Result
02/17/2017	03/02/2017	B16917-001	Gross Alpha Including Uranium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±0.0)
02/17/2017	03/03/2017	B16917-001	Combined Uranium (4006)	7440-61-1	D2987-97	30 ug/L		
02/17/2017	03/14/2017	B16917-001	Radium -226 (4020)	13982-63-3	SM 7500-Ra B	N/A	0.1	0.0(±0.2)
02/17/2017	03/02/2017	B16917-001	Radium -228 (4030)	15262-20-1	EPA Ra-05	N/A	0.8	0.0(±0.8)
			Gross Beta (4100)	12587-47-2	SM 7110 B	50 pCi/L*	2.2	0.0(±2.1)
			Total Dissolved Solids (1930)		EPA 160.3	N/A		

\*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.

Section V Calculated Values	
Gross Alpha Excluding Uranium (4000)	Calculated Value
Combined Radium {-226 & -228} (4010)	Calculated Value
	15 pCi/L
	5 pCi/L
	N/A
	N/A

NT: Not Tested  
 Lab MRL: Laboratory Minimum Reporting Level  
 BDL: Below Laboratory MRL. A less than sign (<) may also be used  
 ug/L: Micrograms per Liter  
 pCi/L: Picouries per Liter  
 MCL: Maximum Contaminant Level

# Drinking Water Chain of Custody

FED EX



<b>Report To Information</b>	<b>Company Name:</b> Colorado Analytical <b>Contact Name:</b> Stuart Nielson	<b>Address:</b> 240 S. Main St. City: Brighton State: CO Zip: 80601	<b>Phone:</b> 303-659-2313 <b>Fax:</b> 303-659-2315	<b>Bill To Information (if different from report to)</b>	<b>Company Name:</b> Same As Report To <b>Contact Name:</b> _____	<b>Address:</b> _____ City: _____ State: _____ Zip: _____	<b>Phone:</b> _____ <b>Fax:</b> _____	<b>State Form / Project Information</b>	<b>PWSID:</b> CO0121724 <b>System Name:</b> Lfr-1	<b>System Address:</b> Ne 1/4 NW 1/4 S27 T125 R65W 6th Pm City: Colorado Spgs State: CO Zip: 80908	<b>County:</b> El Paso	<b>Compliance Samples:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Send Forms to State:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>Sample Name:</b> Stephanie Schwedke	<b>Email:</b> stuartnielson@coloradolab.com	<b>PO No.:</b>											

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr, Suite 101  
Lakewood CO 80228

**Phone:** 303-659-2313  
**Fax:** 303-659-2315  
**www.coloradolab.com**

## PHASE I, II, V Drinking Water Analyses (check analysis)

## Subcontract Analyses

Task Number	Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium						
	02/16/17	0906	170217005-01 LFF-1	6																																
				<i>L FRAM BOTTLES</i>																																
				<i>1.8</i>																																
				<i>Refrigerated By: [Signature] Date/Time: 2/17/16 Received By: [Signature] Date/Time: 1/17/17</i>																																
				<i>Delivered Via: FedEx C/S Info: To: Hagan</i>																																
				<i>Refrigerated By: [Signature] Date/Time: 02/17/2017</i>																																

Instructions: please print on state forms but do not submit to CDPHE. Thanks!

Seals Present Yes  No  Headspace Yes  No

Temp. °C/°F Sample Pres. Yes  No

Temp. °C/°F Sample Pres. Yes  No

Refrigerated By: [Signature] Date/Time: 02/17/2017

DELIVERED BY: [Signature] DATE: 02/17/2017



## Analytical Results

TASK NO: 170217005

**Report To:** Mark Volle  
**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley  
**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

**Task No.:** 170217005  
**Client PO:**  
**Client Project:** LFH-1 CO-0121724

**Date Received:** 2/17/17  
**Date Reported:** 3/6/17  
**Matrix:** Water - Drinking

**Customer Sample ID:** LFH-1  
**Sample Date/Time:** 2/16/17  
**Lab Number:** 170217005-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	155.5 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Calcium as CaCO3	6.3 mg/L	SM 3111-B	0.1	2/24/17	MBN
Carbonate	4.0 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Langelier Index	-0.43 units	SM 2330-B		2/24/17	SAN
pH	8.44 units	SM 4500-H-B	0.01	2/17/17	MBN
Temperature	20 °C	SM 4500-H-B	1	2/17/17	MBN
Total Alkalinity	159.5 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Total Dissolved Solids	458 mg/L	SM 2540-C	5	2/23/17	ISG

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 ml's = Most Probable Number Index/ 100 ml's  
Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2315  
Fax: 303-659-2315

www.coloradolab.com

Report To Information

Company Name: JDS-Hydro  
Contact Name: Mark Volle

Address: 515 E. Pikes Peak Ave  
Suite 200

City: CS State/Zip: 80903

Phone: 719-337-0012 Fax:

Email: mwolke@jds-hydro.com

Sampler Name: Seprane Schwenske PO No.:

Bill To Information (if different from report to)

Company Name: SR Under  
Contact Name: Tim Morley

Address: 20 Boulder Crest St

City: Colorado Springs State/Zip: 80903

Phone:

Email: justly@2070read.com

Send Forms to State: Yes  No

State Form / Project Information

PWSID: CO-D121724  
System Name: LEH-1

Address: NE 1/4 N1/4 S27

City: Colorado Springs State/Zip: 80908

County: El Paso

Compliance Samples: Yes  No

Sample Rep: Dr. Kerns

CAL Task No. 170217005

PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
9/21		#1	3		X																									
9/30		#2	3			X																								
9/30		#3	3								X																			
9/30		#4	1																											
9/30		#5	1																											
9/30		#6	1																											
9/30		#7	1																											
9/30		#8	1							X																				
9/30		#9	1																											
9/30		#10	1																											

Instructions:

C/S Info:

Seals Present Yes  No  Headspace Yes  No

Delivered Via: Fedex

C/S Charge:

Temp. 2 °C/ice Y

Sample Pres Yes  No

Relinquished By: [Signature]

Date/Time: 10/16/17

Received By: [Signature]

Date/Time: 10/17/17

Relinquished By: [Signature]

Date/Time: 10/17/17

Received By: [Signature]

Date/Time: 10/17/17

Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: JDS HYDRO	Contact Name: MARK VOLLE	Company Name: SR WATER	Contact Name: JIM MOKLEY	PWSID: CO-0121724	System Name: LFH-1
Address: 545 E. ROCKS PEAK AVE SUITE 300		Address: 20 BOULDER CRESSANT ST		Address: NIEVA RD W 527 125 RLSW 6TH PM	
City/State/Zip: State CO Zip 80903	City/State/Zip: State CO Zip 80903	City/State/Zip: State CO Zip 80908	City/State/Zip: State CO Zip 80908	Country: EL PASO	
Phone: 719-221-0012 Fax:	Phone:	Fax:	Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Email: <del>mark</del> mvalle@jdshydro.com	Email: jmoloney@srwater.com	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sampler Name: STEPH SCHWENKE	PO No.:	Phase 1, II, V Drinking Water Analyses (check analysis)			

Phase 1 results on state forms

CALL Task No.  
170217005

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbarnates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radon Cyanide	Uranium	
2/6	8:37	#11	3																										
	9:50	#12	3																										
	9:41	#13	3																										
	9:43	#14	2																										
2/6	8:40	#15	1																										
	8:44	#16	1						X																				
	9:00	#17	1																										
	9:43	#18	1																										
	9:14	#19	3						X																				

Instructions:

34 + 504 Blank

VOA

CS Info: Fedex

Seals Present Yes  No  Headspace Yes  No

Relinquished By:

Date/Time:

Received By:

Date/Time:

Relinquished By:

CS Charge

Temp.  °C /  °F

Sample Pres. Yes  No

*[Handwritten Signature]*

2/16/17 2:15 PM

*[Handwritten Signature]*

2/17/17 0800

*[Handwritten Signature]*

**Nitrate and Nitrite as Nitrogen Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
 Submit Online at <http://www.wqcdcompliance.com/login>

**NOX**



Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
<b>Public Water System Information</b>		<b>Certified Laboratory Information</b>	
PWSID#: CO-0121724		Laboratory ID: CO 0015	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313
Comments:		Comments:	

Section III (Supplied or Completed by Public Water System)				Section IV (Supplied or Completed by Certified Laboratory)								
Sample Date	Collector	Facility ID On Schedule	Sample Pt ID On Schedule	Confirmation?	Lab Receipt Date	Lab Analysis Date	Laboratory Sample ID #	Analyte	Analytical Method	MCL (mg/L)	Lab MRI (mg/L)	Result (mg/L)
2/16/17	ephantie Schwenk			<input type="checkbox"/>	2/17/17	2/17/17	170217005-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL
2/16/17	ephantie Schwenk			<input type="checkbox"/>	2/17/17	2/17/17	170217005-01	Nitrite Nitrogen	EPA 300.0	1	0.1	BDL

NT: Not Tested  
 Lab MRI: Laboratory Minimum Reporting Level  
 BDL: Below Laboratory MRI. A less than (<) may also used.

mg/L: Milligrams per Liter  
 MCL: Maximum Contaminant Level

Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Report To Information

Company Name: IDS-Hydro  
Contact Name: Mark Volle

Address: 545 E. Pikes Peak Ave  
Suite 200

City: CS State/Zip: 80903

Phone: 719-337-0072  
Email: msvolle@jshydro.com

Bill To Information (if different from report to)

Company Name: SR Water  
Contact Name: Jim Morley

Address: 20 Boulder Crescent St

City: Colorado Springs State/Zip: 80903

Phone: 719-337-0072  
Email: jmorley@srwater.com

State Form / Project Information

PWSID: CO-D121724  
System Name: LGH-1

Address: NE 1/4 NW 1/4 S27  
T12S R6SW L64PM

City: Colorado Springs State/Zip: 80908  
County: El Paso

Compliance Samples: Yes  No   
Send Form to State: Yes  No

CAL Test No. 170217005

PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses

Date/Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
9/21	#1	3		X																									
9/30	#3	3			X					X																			
9/24	#4	1																											
9/23	#5	1																											
9/22	#6	1																											
9/22	#7	1																											
9/24	#8	1							X																				
9/24	#9	1		X																									
9/23	#10	1									X																		

Instructions:

C/S Info:

Seals Present Yes  No  Handspace Yes  No

Relinquished Via: Fedex

C/S Charge:

Temp. 2 °C/°F Sample Pres. Yes  No

Relinquished By: Sebastian

Date/Time: 10/16/17

Received By: MW

Date/Time: 9/17/17

Relinquished By:

Date/Time:

Received By:

Date/Time:



Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS HYDRO</u>	Company Name: <u>SR WATER</u>	PWSID: <u>CO-0121724</u>			
Contact Name: <u>MARK VOLLE</u>	Contact Name: <u>JOY MORLEY</u>	System Name: <u>LFH-1</u>			
Address: <u>545 E. ROCKS PEAK AVE</u>	Address: <u>20 BOUNDER CRESSANT ST</u>	Address: <u>NEW MO 1/4 S27</u>			
<u>SIXTH 300</u>		<u>T 125 R65W 6TH PM</u>			
City/Co/State/Zip: <u>State CO Zip 80903</u>	City/Co/State/Zip: <u>State CO Zip 80903</u>	City/Co/State/Zip: <u>State CO Zip 80808</u>			
Phone: <u>719-223-0072</u> Fax:	Phone: Fax:	County: <u>EL PASO</u>			
Email: <u>mark.volle@jdshydro.com</u>	Email: <u>joy.morley@srwater.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sampler Name: <u>STEPH SCHWENKE</u>	PO No.:	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

*please report results on state forms*

PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride <sup>Drinking Water DBP</sup>	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radon <sup>Cyanide</sup>	Uranium	
2/16	8:31	#11	3																											
	9:38	#12	3																											
	9:41	#13	2																											
	9:43	#14	1																											
2/16	8:40	#15	1																											
	8:44	#16	1					X																						
	9:00	#17	1																											
	8:42	#18	1																											
	9:19	#19	3					X																						

34 + 504 Blank

CS Info: Fedex

Seals Present Yes  No  Headspace Yes  No

Relinquished By: <u>JDS</u>	Date/Time: <u>2/16/17 2:15 PM</u>	Received By: <u>WVZJR</u>	Date/Time: <u>2/17/17 0800</u>	Delivered Via: <u>VOA</u>	Relinquished By:	CS Charge <input type="checkbox"/>	Date/Time:	Temp. <u>2</u> °C/°F	Received By:	Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date/Time:
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**Organic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
 Submit Online at <http://www.wqcdcompliance.com/login>

**VOC/SOC**



Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO-0121724		Laboratory ID: CO 00063	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle		Contact Person: Customer Service	Phone: 303-659-2313
Comments:		Comments:	
Do Samples Need to be Compositied BY THE LAB?			

Section V (Supplied or Completed by Public Water System)		Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)		Section VII (On Schedule)				
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
2/17/17	2/24/17	170217005-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
2/17/17	3/1/17	170217005-01G	2,4-D	94-75-7	EPA 515.4	70	0.1	BDL
2/17/17	3/1/17	170217005-01G	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
2/17/17	2/23/17	170217005-01H	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL
2/17/17	3/2/17	170217005-01I	Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL
2/17/17	3/2/17	170217005-01I	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
2/17/17	3/2/17	170217005-01I	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
2/17/17	2/23/17	170217005-01H	Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL
2/17/17	2/23/17	170217005-01H	Fluoranthene	50-32-8	EPA 525.2	0.2	0.02	BDL
2/17/17	3/2/17	170217005-01I	Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL
2/17/17	2/24/17	170217005-01F	Chlorfene	57-74-9	EPA 505	2	0.2	BDL
2/17/17	3/1/17	170217005-01G	Dalapon	75-99-0	EPA 515.4	200	1	BDL
2/17/17	2/23/17	170217005-01H	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL
2/17/17	2/23/17	170217005-01H	Di(2-ethylhexyl)phthalate	117-81-7	EPA 525.2	6	0.6	BDL
2/17/17	3/1/17	170217005-01G	Dinoseb	85-85-7	EPA 515.4	7	0.2	BDL
2/17/17	2/23/17	170217005-01K	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
2/17/17	2/23/17	170217005-01J	Endosulfan	145-73-3	EPA 548.1	100	9	BDL
2/17/17	2/24/17	170217005-01F	Endrin	72-20-8	EPA 505	2	0.01	BDL
2/17/17	2/24/17	170217005-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
2/17/17	2/23/17	170217005-01H	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
2/17/17	2/24/17	170217005-01F	Heptachlor epoxide	1024-57-3	EPA 505	0.2	0.02	BDL

NT: Not Tested ug/L; Micrograms per Liter MCL: Maximum Contaminant Level BDL: Below Laboratory MRL A less than sign (<) may also be used.

PWSID#: CO-0121724		Section V (Supplied or Completed by Public Water System)						
Sample Date:	2/16/17	Collector:	Stephanie Schwenk	Facility ID (On Schedule):	Sample Pt ID (On Schedule):			
Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)		Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
Lab Receipt Date	2/17/17	170217005-01F	Hexachlorobenzene	118-74-1	EPA 505	1	0.1	BDL
	2/24/17	170217005-01F	Hexachlorocyclopentadiene	77-47-4	EPA 505	50	0.1	BDL
	2/24/17	170217005-01F	Lindane	58-89-9	EPA 505	0.2	0.02	BDL
	2/24/17	170217005-01F	Methoxychlor	72-43-5	EPA 505	40	0.1	BDL
	3/2/17	170217005-01I	Oxamyl	23135-22-0	EPA 531.1	200	1	BDL
	3/1/17	170217005-01G	Pentachlorophenol	87-86-5	EPA 515.4	1	0.04	BDL
	3/1/17	170217005-01G	Picloram	1918-02-1	EPA 515.4	500	0.1	BDL
	2/24/17	170217005-01F	Polychlorinated biphenyls	1336-36-3	EPA 505	0.5	0.1	BDL
	2/23/17	170217005-01H	Simazine	122-34-9	EPA 525.2	4	0.07	BDL
	2/24/17	170217005-01F	Toxaphene	8001-35-2	EPA 505	3	1	BDL

NT: Not Tested ug/L; Micrograms per Liter MCL: Maximum Contaminant Level BDL: Below Laboratory MRL A less than sign (<) may also be used.

170217005-01

2/2  
3/6/17

# Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Report Information:

Company Name: IDS-Hydro  
Contact Name: Mark Velle

Company Name: SPUNKER  
Contact Name: Jim Morley

State Form / Project Information

PWSID: CO-D121724  
System Name: LFH-1

Address: 545 E. Pikes Peak Ave  
Suite 200

Address: 20 Boulder Crescent St

Address: NE 1/4 NW 1/4 S27  
T12S R6SW 64PM

City: CS State/Zip: 80903

City: Colorado Springs State/Zip: 80903

City: Colorado Springs State/Zip: 80908

Phone: 719-221-0522 Fax:

Phone:

Fax:

Country: El Paso

Email: mylke@idshydro.com

Email: jmorley@spunker.com

Compliance Samples: Yes  No

Sampler Name: Separate Schwenke PO No.:

Send Forms to State: Yes  No

Under repair or forms

CAL Task No.

170217005

PHASE I, II, V Drinking Water Analysis (check analysis)

Substrate Analysis

Date	Time	Client Sample ID / Ep Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest.	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	Metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
9/21		#1	3		X																										
9/22		#2	3			X																									
9/30		#3	3								X																				
9/24		#4	1																												
9/23		#5	1																												
9/26		#6	1																												
9/22		#7	1																												
9/24		#8	1							X																					
9/24		#9	1		X																										
9/22		#10	1																												

Instructions:

C/S Info:

Seals Present Yes  No  Handspaces Yes  No

Relinquished By:

Date/Time: 12/15/08

Received By:

Date/Time: 12/15/08

Relinquished Via:

C/S Charge:

Temp. Received By:

Sample Pres. Yes  No

Separate 12/15/08 Mark Velle Jim Morley 12/15/08 Fedex 2 1

Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>SOS HURO</u>	Contact Name: <u>MARK VOLLE</u>	Company Name: <u>SR WATER</u>	Contact Name: <u>STEVE MOKLEY</u>	PWSID: <u>CO-0121724</u>	System Name: <u>LFH-1</u>
Address: <u>545 E. PARKS PEAK AVE SUITE 300</u>		Address: <u>20 BAUNDER CRESSANT ST</u>		Address: <u>NEW YORK ST</u>	<u>T 125 RUSTEN 6TH PM</u>
City/State/Zip: <u>State CO Zip 80903</u>	City/State/Zip: <u>State CO Zip 80903</u>	City/State/Zip: <u>State CO Zip 80903</u>	City/State/Zip: <u>State CO Zip 80908</u>	County: <u>EL PASO</u>	
Phone: <u>719-227-0072</u> Fax:	Phone:	Email: <u>imorley@3570@aol.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Sampler Name: <u>STEVE SCHWENKE</u>	PO No.:	<p><i>submit results on state forms</i></p>			

CAL Task No. 170217005

PHASE I, II, V Drinking Water Analyses (check analysis)

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC's-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride <sup>Drinking Water TDS</sup>	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radon <sup>Cyanide</sup>	Uranium	
2/16	8:37	#11	3																											
	9:50	#12	3																											
	9:51	#13	2																											
	9:43	#14	1																											
2/16	8:40	#15	1																											
	8:44	#16	1				X																							
	9:00	#17	1																											
	8:42	#18	1																											
	9:14	#19	3				X																							

Instructions:

34 + 504 Blank

VOA

CS Info: Codex

Sens Present Yes  No  Headspace Yes  No

Relinquished By: <u>[Signature]</u>	Date/Time: <u>2/16/17 12:15 PM</u>	Received By: <u>[Signature]</u>	Date/Time: <u>2/17/17 0800</u>	Delivered Via: <u>Codex</u>	CS Charge: <input type="checkbox"/>	Temp. Received By: <u>2</u> °C / <u>1</u> °F	Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date/Time: <u>[Signature]</u>
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## Analytical Results

TASK NO: 170217005

Report To: Mark Voile

Company: JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

Task No.: 170217005  
Client PO:  
Client Project: LFH-1 CO-0121724

Date Received: 2/17/17  
Date Reported: 3/6/17  
Matrix: Water - Drinking

Customer Sample ID LFH-1  
Sample Date/Time: 2/16/17  
Lab Number: 170217005-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	5.8 mg/L	EPA 300.0	0.1 mg/L	2/17/17	LJG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	2/24/17	VDB
E-Coli	< 1 mpn/100ml	Coli-ert	1 mpn/100ml	2/18/17	VDB
Sulfate	142.1 mg/L	EPA 300.0	0.1 mg/L	2/17/17	LJG
Total Coliform	93 mpn/100ml	Coli-ert	1 mpn/100ml	2/18/17	VDB
Total Organic Carbon	0.8 mg/L	SM 5310-C	0.5 mg/L	2/23/17	ISG
Turbidity	2.49 NTU	SM 2130-B	0.01 NTU	2/17/17	MBN
<b>Total</b>					
Aluminum	0.063 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD
Calcium	2.5 mg/L	EPA 200.7	0.1 mg/L	2/22/17	MBN
Copper	0.0026 mg/L	EPA 200.8	0.0008 mg/L	2/22/17	TCD
Iron	0.602 mg/L	EPA 200.7	0.005 mg/L	2/24/17	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 mg/L	2/22/17	TCD
Magnesium	0.39 mg/L	EPA 200.7	0.02 mg/L	2/22/17	MBN
Manganese	0.0259 mg/L	EPA 200.8	0.0008 mg/L	2/22/17	TCD
Potassium	1.5 mg/L	EPA 200.7	0.1 mg/L	2/22/17	MBN
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	2/22/17	TCD
Strontium	0.037 mg/L	EPA 200.8	0.005 mg/L	2/22/17	TCD
Total Hardness	7.7 mg/L as CaCO3	SM 2340-B	0.1 mg/L as CaCO3	2/24/17	MBN
Uranium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	2/22/17	TCD
Zinc	0.004 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 ml = Most Probable Number Index/ 100 ml  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

**Analytical Results**

**TASK NO: 170217005**

**Report To:** Mark Volle

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

**Task No.:** 170217005  
**Client PO:**  
**Client Project:** LFH-1 CO-0121724

**Date Received:** 2/17/17  
**Date Reported:** 3/6/17  
**Matrix:** Water - Drinking

**Customer Sample ID:** LFH-1  
**Sample Date/Time:** 2/16/17  
**Lab Number:** 170217005-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Total</u> Zinc	0.005 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 ml = Most Probable Number Index/ 100 ml  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12660 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Report To Information:		Bill To Information (if different from report to):		State Form / Project Information																										
Company Name: <u>IDS-Hydro</u>		Company Name: <u>SP Linker</u>		PW/SID: <u>CO-0101724</u>																										
Contact Name: <u>Mark Volle</u>		Contact Name: <u>Tim Morley</u>		System Name: <u>LFH-1</u>																										
Address: <u>515 E. Pikes Peak Ave</u>		Address: <u>20 Boulder Crescent St</u>		Address: <u>NE 1/4 NW 1/4 S37</u>																										
City: <u>CS</u>		City: <u>Colorado</u>		City: <u>Colorado</u>																										
State/Zip: <u>80903</u>		State/Zip: <u>80903</u>		State/Zip: <u>80908</u>																										
Phone: <u>719-337-0572</u>		Phone: _____		County: <u>El Paso</u>																										
Email: <u>mvolle@ishydro.com</u>		Email: <u>timothy@boulder.com</u>		Compliance Sample: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																										
Sampler Name: <u>Deprave Schwenz</u>		PO No: _____		Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																										
CAL Task No. <u>170217005</u>		PHASE I, II, V Drinking Water Analysis (check analysis)		Subcontract Analysis																										
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	Metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
9/31		#1	3		X																									
9/30		#2	3			X																								
9/30		#3	3				X																							
9/30		#4	3							X																				
9/30		#5	3																											
9/30		#6	3																											
9/30		#7	3																											
9/30		#8	3							X																				
9/30		#9	3																											
9/30		#10	3																											

CS Info:

Delivered Via: Fedex

CS Changed:

Temp. 2 °C/fc

Seals Present Yes  No  Headspace Yes  No

Relinquished By: [Signature]

Date/Time: 10/1/17

Received By: [Signature]

Date/Time: 10/1/17

Relinquished By: [Signature]

Date/Time: 10/1/17

Temp. 2 °C/fc

Seals Present Yes  No  Headspace Yes  No



Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: <u>JDS ANDRO</u>	Company Name: <u>SR WATER</u>	PWSID: <u>CO-0121724</u>		System Name: <u>LFH-1</u>	
Contact Name: <u>MARK VOLLE</u>	Contact Name: <u>JIM MOKLEY</u>	Address: <u>20 BAUNDER CRESSAULT ST</u>		Address: <u>NEW NW 1/4 S22</u>	
Address: <u>545 E. BAKER PEAK AVE</u>	Address: <u>20 BAUNDER CRESSAULT ST</u>	City/COLO SR65 State CO zip <u>80903</u>		City/COLO SR65 State CO zip <u>80908</u>	
City/COLO SR65 State CO zip <u>80903</u>	City/COLO SR65 State CO zip <u>80903</u>	County: <u>EL PASO</u>		County: <u>EL PASO</u>	
Phone: <u>719-227-0074</u> Fax:	Phone: Fax:	Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Email: <u>mark.volle@jdsandro.com</u>	Email: <u>imokley@srwater.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>STEPH SCHWENKE</u>	PO No.:	Phase I, II, V Drinking Water Analyses (check analysis)		Subcontract Analyses	

Phase I results on state forms

CAL Task No  
170217005

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC's-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride <sup>Drinking Water TDS</sup>	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radon <sup>Cyanide</sup>	Uranium	
7/16	8:37	A11	3																											
7/16	9:50	A12	3																											
	9:51	A13	3																											
	9:43	A14	1																											
7/16	8:40	A15	1																											
	8:44	A16	1																											
	9:02	A17	1																											
	8:42	A18	1																											
	9:19	A19	3																											

34 + 504 Blank

CS Info: VOA  
Frederix

Scale Present Yes  No  Headspace Yes  No

Relinquished By: <u>JAN</u>	Date/Time: <u>7/16/17 12:55 PM</u>	Received By: <u>WVZU</u>	Date/Time: <u>7/17/17 08:00</u>	Delivered Via: <u>Frederix</u>	Relinquished By:	CS Charge <input type="checkbox"/>	Date/Time:	Temp. <u>2</u> °C/°F	Received By:	Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date/Time:
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# ANALYTICAL SUMMARY REPORT

March 02, 2017

Colorado Analytical Laboratories Inc  
PO Drawer 507  
Brighton, CO 80601

Work Order: C17020566      Quote ID: C4542 - 624, 625, 1,4-Dioxane  
Project Name: 170217005 LFH-1 CO-0121724

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 2/21/2017 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C17020566-001	170217005-01 LFH-1	02/16/17 0:00	02/21/17	Drinking Water	Azeotropic Distillation Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Randy Horton, Project Manager

Digitally signed by  
Randy Horton  
Date: 2017.03.02 10:49:28 -07:00



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**CLIENT:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Work Order:** C17020566

**Report Date:** 03/02/17

## CASE NARRATIVE

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Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



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### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Lab ID:** C17020566-001  
**Client Sample ID:** 170217005-01 LFH-1

**Report Date:** 03/02/17  
**Collection Date:** 02/16/17  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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#### VOCS BY AZEOTROPIC DISTILLATION

1,4-Dioxane	ND	ug/L		1.0		SW8260M	02/27/17 11:16 / eli-b
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- Analysis by direct aqueous injection of the sample distillate. A deuterated version of 1,4-Dioxane was added to the sample prior to distillation and used to quantitate the 1,4-Dioxane and account for any variations in the analysis or distillation.

#### VOLATILE ORGANIC COMPOUNDS

Acetone	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Acetonitrile	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Acrolein	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Acrylonitrile	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Benzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromochloromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromodichloromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromoform	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromomethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Carbon disulfide	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Carbon tetrachloride	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chlorodibromomethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chloroform	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chloromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
2-Chlorotoluene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
4-Chlorotoluene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2-Dibromoethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Dibromomethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2-Dichlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,3-Dichlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,4-Dichlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Dichlorodifluoromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2-Dichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
cis-1,2-Dichloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
trans-1,2-Dichloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2-Dichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,3-Dichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
2,2-Dichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloropropene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
cis-1,3-Dichloropropene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
trans-1,3-Dichloropropene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Ethylbenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Lab ID:** C17020566-001  
**Client Sample ID:** 170217005-01 LFH-1

**Report Date:** 03/02/17  
**Collection Date:** 02/16/17  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Methyl tert-butyl ether (MTBE)	ND	ug/L		2.0		E624	02/24/17 19:19 / eli-b
Methyl ethyl ketone	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Methyl isobutyl ketone	ND	ug/L		10		E624	02/24/17 19:19 / eli-b
Methylene chloride	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Naphthalene	ND	ug/L		0.50		E624	02/24/17 19:19 / eli-b
Styrene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Tetrachloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Toluene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Trichloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,1-Trichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2,3-Trichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Vinyl Acetate	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Vinyl chloride	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
m+p-Xylenes	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
o-Xylene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Xylenes, Total	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Surr: 1,2-Dichloroethane-d4	76.0	%REC		71-139		E624	02/24/17 19:19 / eli-b
Surr: p-Bromofluorobenzene	92.0	%REC		80-127		E624	02/24/17 19:19 / eli-b
Surr: Toluene-d8	94.0	%REC		80-123		E624	02/24/17 19:19 / eli-b
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
Acenaphthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Acenaphthylene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Anthracene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Azobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzidine	ND	ug/L		10		E625	02/28/17 13:13 / eli-b
Benzo(a)anthracene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(a)pyrene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(b)fluoranthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(g,h,i)perylene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(k)fluoranthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4-Bromophenyl phenyl ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Butylbenzylphthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4-Chloro-3-methylphenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(-2-chloroethoxy)Methane	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(-2-chloroethyl)Ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(2-chloroisopropyl)Ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2-Chloronaphthalene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2-Chlorophenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b

**Report** RL - Analyte reporting limit.  
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### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Lab ID:** C17020566-001  
**Client Sample ID:** 170217005-01 LFH-1

**Report Date:** 03/02/17  
**Collection Date:** 02/16/17  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
4-Chlorophenyl phenyl ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Chrysene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Diethyl phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Di-n-butyl phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
1,3-Dichlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
1,4-Dichlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2,4-Dichlorophenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Dimethyl phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Di-n-octyl phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2,4-Dimethylphenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4,6-Dinitro-2-methylphenol	ND	ug/L		50		E625	02/27/17 19:27 / eli-b
2,4-Dinitrophenol	ND	ug/L		50		E625	02/27/17 19:27 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2,6-Dinitrotoluene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(2-ethylhexyl)Phthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Fluoranthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Fluorene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Hexachlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Hexachlorobutadiene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Hexachloroethane	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Indeno(1,2,3-cd)pyrene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Isophorone	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2-Nitrophenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4-Nitrophenol	ND	ug/L		50		E625	02/27/17 19:27 / eli-b
Naphthalene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Nitrobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Pentachlorophenol	ND	ug/L		50		E625	02/27/17 19:27 / eli-b
Phenanthrene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Phenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Pyrene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
1,2,4-Trichlorobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2,4,6-Trichlorophenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Surr: 2-Fluorobiphenyl	59.0	%REC		28-107		E625	02/27/17 19:27 / eli-b
Surr: 2-Fluorophenol	34.0	%REC		20-58		E625	02/27/17 19:27 / eli-b
Surr: Nitrobenzene-d5	63.0	%REC		32-94		E625	02/27/17 19:27 / eli-b
Surr: Phenol-d5	33.0	%REC		19-45		E625	02/27/17 19:27 / eli-b

**Report** RL - Analyte reporting limit.  
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### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Lab ID:** C17020566-001  
**Client Sample ID:** 170217005-01 LFH-1

**Report Date:** 03/02/17  
**Collection Date:** 02/16/17  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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**SEMI-VOLATILE ORGANIC COMPOUNDS**

Surr: Terphenyl-d14	69.0	%REC		32-122		E625	02/27/17 19:27 / eli-b
Surr: 2,4,6-Tribromophenol	60.0	%REC		21-130		E625	02/27/17 19:27 / eli-b

- The sample was received past the extraction prep hold time. The prep hold time was exceeded by 4.31 days.

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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624 <span style="float: right;">Analytical Run: R275391</span>									
Lab ID: ccv022417	Continuing Calibration Verification Standard								02/24/17 09:51
Acetone	40.8	ug/L	20	82	70	130			
Acetonitrile	60.0	ug/L	20	120	70	130			
Acrolein	59.2	ug/L	20	118	70	130			
Acrylonitrile	46.4	ug/L	20	93	70	130			
Benzene	4.80	ug/L	0.50	96	70	130			
Bromobenzene	4.56	ug/L	0.50	91	70	130			
Bromochloromethane	4.64	ug/L	0.50	93	70	130			
Bromodichloromethane	4.08	ug/L	0.50	82	70	130			
Bromoform	4.08	ug/L	0.50	82	70	130			
Bromomethane	5.56	ug/L	0.50	111	70	130			
Carbon disulfide	4.80	ug/L	0.50	96	70	130			
Carbon tetrachloride	3.70	ug/L	0.50	74	70	130			
Chlorobenzene	4.80	ug/L	0.50	96	70	130			
Chlorodibromomethane	4.32	ug/L	0.50	86	70	130			
Chloroethane	4.88	ug/L	0.50	98	70	130			
2-Chloroethyl vinyl ether	3.07	ug/L	1.0	61	70	130			S
Chloroform	4.36	ug/L	0.50	87	70	130			
Chloromethane	4.60	ug/L	0.50	92	70	130			
2-Chlorotoluene	4.84	ug/L	0.50	97	70	130			
4-Chlorotoluene	4.80	ug/L	0.50	96	70	130			
1,2-Dibromoethane	4.40	ug/L	0.50	88	70	130			
Dibromomethane	4.60	ug/L	0.50	92	70	130			
1,2-Dichlorobenzene	4.72	ug/L	0.50	94	70	130			
1,3-Dichlorobenzene	4.84	ug/L	0.50	97	70	130			
1,4-Dichlorobenzene	4.76	ug/L	0.50	95	70	130			
Dichlorodifluoromethane	3.87	ug/L	0.50	77	70	130			
1,1-Dichloroethane	4.40	ug/L	0.50	88	70	130			
1,2-Dichloroethane	3.78	ug/L	0.50	76	70	130			
1,1-Dichloroethene	4.20	ug/L	0.50	84	70	130			
cis-1,2-Dichloroethene	4.72	ug/L	0.50	94	70	130			
trans-1,2-Dichloroethene	4.64	ug/L	0.50	93	70	130			
1,2-Dichloropropane	5.20	ug/L	0.50	104	70	130			
1,3-Dichloropropane	4.64	ug/L	0.50	93	70	130			
2,2-Dichloropropane	3.92	ug/L	0.50	78	70	130			
1,1-Dichloropropene	4.40	ug/L	0.50	88	70	130			
cis-1,3-Dichloropropene	4.56	ug/L	0.50	91	70	130			
trans-1,3-Dichloropropene	4.04	ug/L	0.50	81	70	130			
Ethylbenzene	4.84	ug/L	0.50	97	70	130			
Methyl tert-butyl ether (MTBE)	3.68	ug/L	0.50	74	70	130			
Methyl ethyl ketone	42.8	ug/L	20	86	70	130			
Methyl isobutyl ketone	45.6	ug/L	20	91	70	130			
Methylene chloride	5.44	ug/L	0.50	109	70	130			
Naphthalene	4.88	ug/L	0.50	98	70	130			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.





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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Analytical Run: R275391		
Lab ID: ccv022417	Continuing Calibration Verification Standard						02/24/17 09:51		
Styrene	4.76	ug/L	0.50	95	70	130			
Tetrachloroethene	4.80	ug/L	0.50	92	70	130			
1,1,1,2-Tetrachloroethane	4.24	ug/L	0.50	85	70	130			
1,1,2,2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130			
Toluene	4.96	ug/L	0.50	99	70	130			
Trichloroethene	4.80	ug/L	0.50	96	70	130			
1,1,1-Trichloroethane	3.75	ug/L	0.50	75	70	130			
1,1,2-Trichloroethane	4.76	ug/L	0.50	95	70	130			
Trichlorofluoromethane	3.34	ug/L	0.50	67	70	130			S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	70	130			
Vinyl Acetate	4.56	ug/L	1.0	91	70	130			
Vinyl chloride	4.84	ug/L	0.50	97	70	130			
m+p-Xylenes	9.76	ug/L	0.50	98	70	130			
o-Xylene	4.76	ug/L	0.50	95	70	130			
Xylenes, Total	14.5	ug/L	0.50	97	70	130			
Surr: 1,2-Dichloroethane-d4			0.50	74	71	139			
Surr: p-Bromofluorobenzene			0.50	88	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Method: E624							Batch: R275391		
Lab ID: lcs022417	Laboratory Control Sample						Run: 5971A.L_170224A		
Acetone	41.6	ug/L	20	83	55	144			
Acetonitrile	60.4	ug/L	20	121	54	142			
Acrolein	49.6	ug/L	20	99	16	233			
Acrylonitrile	46.0	ug/L	20	92	76	127			
Benzene	4.96	ug/L	0.50	99	73	122			
Bromobenzene	4.76	ug/L	0.50	95	74	129			
Bromochloromethane	4.64	ug/L	0.50	93	66	120			
Bromodichloromethane	4.44	ug/L	0.50	89	74	128			
Bromoform	4.36	ug/L	0.50	87	66	128			
Bromomethane	5.76	ug/L	0.50	115	51	123			
Carbon disulfide	4.92	ug/L	0.50	98	46	145			
Carbon tetrachloride	3.80	ug/L	0.50	76	75	125			
Chlorobenzene	4.92	ug/L	0.50	98	80	123			
Chlorodibromomethane	4.64	ug/L	0.50	93	74	125			
Chloroethane	5.04	ug/L	0.50	101	59	142			
2-Chloroethyl vinyl ether	2.74	ug/L	1.0	55	36	144			
Chloroform	4.40	ug/L	0.50	88	68	124			
Chloromethane	4.64	ug/L	0.50	93	53	146			
2-Chlorotoluene	5.04	ug/L	0.50	101	75	131			
4-Chlorotoluene	4.68	ug/L	0.50	94	74	129			
1,2-Dibromoethane	4.40	ug/L	0.50	88	76	124			
Dibromomethane	4.76	ug/L	0.50	95	77	125			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch: R275391		
Lab ID: lcs022417	Laboratory Control Sample				Run: 5971A.I_170224A			02/24/17 10:31	
1,2-Dichlorobenzene	4.80	ug/L	0.50	96	74	124			
1,3-Dichlorobenzene	5.00	ug/L	0.50	100	77	122			
1,4-Dichlorobenzene	4.80	ug/L	0.50	96	76	126			
Dichlorodifluoromethane	4.36	ug/L	0.50	87	56	146			
1,1-Dichloroethane	4.56	ug/L	0.50	91	74	133			
1,2-Dichloroethane	3.76	ug/L	0.50	75	75	129			
1,1-Dichloroethene	4.28	ug/L	0.50	86	74	132			
cis-1,2-Dichloroethene	4.76	ug/L	0.50	95	81	122			
trans-1,2-Dichloroethene	5.08	ug/L	0.50	102	79	143			
1,2-Dichloropropane	5.20	ug/L	0.50	104	75	126			
1,3-Dichloropropane	4.32	ug/L	0.50	86	71	136			
2,2-Dichloropropane	4.00	ug/L	0.50	80	68	142			
1,1-Dichloropropene	4.16	ug/L	0.50	83	70	131			
cis-1,3-Dichloropropene	4.12	ug/L	0.50	82	74	135			
trans-1,3-Dichloropropene	3.96	ug/L	0.50	79	76	149			
Ethylbenzene	4.92	ug/L	0.50	98	72	130			
Methyl tert-butyl ether (MTBE)	3.71	ug/L	0.50	74	72	120			
Methyl ethyl ketone	45.2	ug/L	20	90	45	130			
Methyl isobutyl ketone	49.2	ug/L	20	98	58	135			
Methylene chloride	5.64	ug/L	0.50	113	66	142			
Naphthalene	5.44	ug/L	0.50	109	69	124			
Styrene	4.84	ug/L	0.50	97	80	124			
Tetrachloroethene	4.68	ug/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane	4.16	ug/L	0.50	83	78	124			
1,1,2,2-Tetrachloroethane	4.72	ug/L	0.50	94	68	137			
Toluene	5.16	ug/L	0.50	103	72	135			
Trichloroethene	4.80	ug/L	0.50	96	85	126			
1,1,1-Trichloroethane	3.73	ug/L	0.50	75	63	120			
1,1,2-Trichloroethane	4.68	ug/L	0.50	94	78	124			
Trichlorofluoromethane	3.30	ug/L	0.50	66	72	120			S
1,2,3-Trichloropropane	4.04	ug/L	0.50	81	64	138			
Vinyl Acetate	4.08	ug/L	1.0	82	31	124			
Vinyl chloride	5.12	ug/L	0.50	102	58	140			
m+p-Xylenes	9.84	ug/L	0.50	98	67	139			
o-Xylene	4.84	ug/L	0.50	97	74	135			
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	72	71	139			
Surr: p-Bromofluorobenzene			0.50	87	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: blk022417	Method Blank				Run: 5971A.I_170224A			02/24/17 11:30	
Acetone	ND	ug/L		20					
Acetonitrile	ND	ug/L		20					

### Qualifiers:

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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17  
Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch: R276391		
Lab ID: blk022417	Method Blank		Run: 5971A.L_170224A				02/24/17 11:30		
Acrolein	ND	ug/L	20						
Acrylonitrile	ND	ug/L	3.0						
Benzene	ND	ug/L	0.50						
Bromobenzene	ND	ug/L	0.50						
Bromochloromethane	ND	ug/L	0.50						
Bromodichloromethane	ND	ug/L	0.50						
Bromoform	ND	ug/L	0.50						
Bromomethane	ND	ug/L	0.50						
Carbon disulfide	ND	ug/L	0.50						
Carbon tetrachloride	ND	ug/L	0.50						
Chlorobenzene	ND	ug/L	0.50						
Chlorodibromomethane	ND	ug/L	0.50						
Chloroethane	ND	ug/L	0.50						
2-Chloroethyl vinyl ether	ND	ug/L	1.0						
Chloroform	ND	ug/L	0.50						
Chloromethane	ND	ug/L	0.50						
2-Chlorotoluene	ND	ug/L	0.50						
4-Chlorotoluene	ND	ug/L	0.50						
1,2-Dibromoethane	ND	ug/L	0.50						
Dibromomethane	ND	ug/L	0.50						
1,2-Dichlorobenzene	ND	ug/L	0.50						
1,3-Dichlorobenzene	ND	ug/L	0.50						
1,4-Dichlorobenzene	ND	ug/L	0.50						
Dichlorodifluoromethane	ND	ug/L	0.50						
1,1-Dichloroethane	ND	ug/L	0.50						
1,2-Dichloroethane	ND	ug/L	0.50						
1,1-Dichloroethene	ND	ug/L	0.50						
cis-1,2-Dichloroethene	ND	ug/L	0.50						
trans-1,2-Dichloroethene	ND	ug/L	0.50						
1,2-Dichloropropane	ND	ug/L	0.50						
1,3-Dichloropropane	ND	ug/L	0.50						
2,2-Dichloropropane	ND	ug/L	0.50						
1,1-Dichloropropene	ND	ug/L	0.50						
cis-1,3-Dichloropropene	ND	ug/L	0.30						
trans-1,3-Dichloropropene	ND	ug/L	0.30						
Ethylbenzene	ND	ug/L	0.50						
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50						
Methyl ethyl ketone	ND	ug/L	20						
Methyl isobutyl ketone	ND	ug/L	20						
Methylene chloride	ND	ug/L	0.50						
Naphthalene	ND	ug/L	0.50						
Styrene	ND	ug/L	0.50						
Tetrachloroethene	ND	ug/L	0.50						

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724

**Report Date:** 03/02/17  
**Work Order:** C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
<b>Method: E624</b>										
Batch: R275391										
<b>Lab ID:</b> blk022417	Method Blank		Run: 5971A.I_170224A				02/24/17 11:30			
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50							
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50							
Toluene	ND	ug/L	0.50							
Trichloroethene	ND	ug/L	0.50							
1,1,1-Trichloroethane	ND	ug/L	0.50							
1,1,2-Trichloroethane	ND	ug/L	0.50							
Trichlorofluoromethane	ND	ug/L	0.50							
1,2,3-Trichloropropane	ND	ug/L	0.50							
Vinyl Acetate	ND	ug/L	1.0							
Vinyl chloride	ND	ug/L	0.40							
m+p-Xylenes	ND	ug/L	0.50							
o-Xylene	ND	ug/L	0.50							
Xylenes, Total	ND	ug/L	0.50							
Surr: 1,2-Dichloroethane-d4			0.50	74	71	139				
Surr: p-Bromofluorobenzene			0.50	90	80	127				
Surr: Toluene-d8			0.50	94	80	123				
<b>Lab ID: b17021110-001bms</b> Sample Matrix Spike Run: 5971A.I_170224A 02/24/17 20:47										
Acrolein	ND	ug/L	20	0	16	233			S 1	
Acrylonitrile	48.8	ug/L	20	98	76	127				
2-Chloroethyl vinyl ether	3.44	ug/L	1.0	69	36	144				
Surr: 1,2-Dichloroethane-d4			0.50	80	71	139				
Surr: p-Bromofluorobenzene			0.50	95	80	127				
Surr: Toluene-d8			0.50	100	80	123				
- 1 = This is a known very reactive compound. The recovery of this compound was normal in the Laboratory Control Sample (LCS). The compound appears to have reacted with the sample matrix.										
<b>Lab ID: b17021110-001bmsd</b> Sample Matrix Spike Duplicate Run: 5971A.I_170224A 02/24/17 21:16										
Acrolein	ND	ug/L	20	0	16	233			20 S 1	
Acrylonitrile	48.8	ug/L	20	98	76	127	0.0	20		
2-Chloroethyl vinyl ether	3.66	ug/L	1.0	73	36	144	6.1	20		
Surr: 1,2-Dichloroethane-d4			0.50	81	71	139				
Surr: p-Bromofluorobenzene			0.50	96	80	127				
Surr: Toluene-d8			0.50	99	80	123				
- 1 = This is a known very reactive compound. The recovery of this compound was normal in the Laboratory Control Sample (LCS). The compound appears to have reacted with the sample matrix.										
<b>Lab ID: b17021110-001bms</b> Sample Matrix Spike Run: 5971A.I_170224A 02/24/17 18:21										
Acetone	40.4	ug/L	20	81	55	144				
Acetonitrile	66.0	ug/L	20	132	54	142				
Benzene	4.60	ug/L	0.50	92	73	122				
Bromobenzene	4.60	ug/L	0.50	92	74	129				
Bromochloromethane	4.56	ug/L	0.50	91	66	120				
Bromodichloromethane	4.36	ug/L	0.50	87	74	128				
Bromoforn	4.40	ug/L	0.50	88	66	128				
Bromomethane	5.88	ug/L	0.50	118	51	123				

**Qualifiers:**

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# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17  
Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E824</b>							Batch: R275391		
<b>Lab ID: b17021110-001bms</b>	<b>Sample Matrix Spike</b>		<b>Run: 5971A.L_170224A</b>				02/24/17 18:21		
Carbon disulfide	5.12	ug/L	0.50	102	46	145			
Carbon tetrachloride	3.59	ug/L	0.50	72	75	125			S
Chlorobenzene	4.52	ug/L	0.50	90	60	123			
Chlorodibromomethane	4.52	ug/L	0.50	90	74	125			
Chloroethane	5.40	ug/L	0.50	108	59	142			
Chloroform	4.68	ug/L	0.50	82	68	124			
Chloromethane	4.64	ug/L	0.50	93	53	146			
2-Chlorotoluene	4.88	ug/L	0.50	98	75	131			
4-Chlorotoluene	4.68	ug/L	0.50	94	74	129			
1,2-Dibromoethane	4.16	ug/L	0.50	83	76	124			
Dibromomethane	4.64	ug/L	0.50	93	77	125			
1,2-Dichlorobenzene	4.64	ug/L	0.50	93	74	124			
1,3-Dichlorobenzene	4.88	ug/L	0.50	98	77	122			
1,4-Dichlorobenzene	4.76	ug/L	0.50	91	76	126			
Dichlorodifluoromethane	4.32	ug/L	0.50	86	56	146			
1,1-Dichloroethane	4.24	ug/L	0.50	85	74	133			
1,2-Dichloroethane	3.48	ug/L	0.50	70	75	129			S
1,1,1-Dichloroethane	4.12	ug/L	0.50	82	74	132			
cis-1,2-Dichloroethane	4.48	ug/L	0.50	90	81	122			
trans-1,2-Dichloroethane	4.64	ug/L	0.50	93	79	143			
1,2-Dichloropropane	4.92	ug/L	0.50	98	75	126			
1,3-Dichloropropane	4.24	ug/L	0.50	85	71	136			
2,2-Dichloropropane	3.60	ug/L	0.50	72	68	142			
1,1-Dichloropropene	4.04	ug/L	0.50	81	70	131			
cis-1,3-Dichloropropene	4.08	ug/L	0.50	82	74	135			
trans-1,3-Dichloropropene	3.97	ug/L	0.50	79	76	149			
Ethylbenzene	4.64	ug/L	0.50	93	72	130			
Methyl tert-butyl ether (MTBE)	3.63	ug/L	0.50	73	72	120			
Methyl ethyl ketone	44.4	ug/L	20	89	45	130			
Methyl isobutyl ketone	51.2	ug/L	20	102	58	135			
Methylene chloride	5.44	ug/L	0.50	109	66	142			
Naphthalene	4.84	ug/L	0.50	97	69	124			
Styrene	4.56	ug/L	0.50	91	80	124			
Tetrachloroethene	4.44	ug/L	0.50	89	72	131			
1,1,1,2-Tetrachloroethane	3.95	ug/L	0.50	79	78	124			
1,1,2,2-Tetrachloroethane	4.86	ug/L	0.50	98	68	137			
Toluene	4.88	ug/L	0.50	98	72	135			
Trichloroethene	4.56	ug/L	0.50	91	85	126			
1,1,1-Trichloroethane	3.51	ug/L	0.50	70	63	120			
1,1,2-Trichloroethane	4.52	ug/L	0.50	90	78	124			
Trichlorofluoromethane	3.29	ug/L	0.50	66	72	120			S
1,2,3-Trichloropropane	3.90	ug/L	0.50	78	64	138			
Vinyl Acetate	4.00	ug/L	1.0	80	31	124			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17  
Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>							Batch: R275391		
<b>Lab ID: b17021110-001bms</b>	<b>Sample Matrix Spike</b>			<b>Run: 5971A.I_170224A</b>			02/24/17 18:21		
Vinyl chloride	5.12	ug/L	0.50	102	58	140			
m+p-Xylenes	9.32	ug/L	0.50	93	67	139			
o-Xylene	4.44	ug/L	0.50	89	74	135			
Xylenes, Total	13.8	ug/L	0.50	92	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	80	71	139			
Surr: p-Bromofluorobenzene			0.50	94	80	127			
Surr: Toluene-d8			0.50	101	80	123			
<b>Lab ID: b17021110-001bmsd</b>							02/24/17 18:50		
<b>Sample Matrix Spike Duplicate</b>			<b>Run: 5971A.I_170224A</b>						
Acetone	44.0	ug/L	20	88	55	144	6.5	20	
Acetonitrile	65.6	ug/L	20	131	54	142	0.6	20	
Benzene	5.04	ug/L	0.50	101	73	122	9.1	20	
Bromobenzene	4.96	ug/L	0.50	99	74	129	7.5	20	
Bromochloromethane	4.80	ug/L	0.50	96	66	120	5.1	20	
Bromodichloromethane	4.60	ug/L	0.50	92	74	128	5.4	20	
Bromoform	4.80	ug/L	0.50	96	66	126	8.7	20	
Bromomethane	6.00	ug/L	0.50	120	51	123	2.0	20	
Carbon disulfide	5.20	ug/L	0.50	104	46	145	1.6	20	
Carbon tetrachloride	3.97	ug/L	0.50	79	75	125	10	20	
Chlorobenzene	4.88	ug/L	0.50	98	80	123	7.7	20	
Chlorodibromomethane	4.76	ug/L	0.50	95	74	125	5.2	20	
Chloroethane	5.32	ug/L	0.50	106	59	142	1.5	20	
Chloroform	4.96	ug/L	0.50	87	68	124	5.8	20	
Chloromethane	4.88	ug/L	0.50	98	53	146	5.0	20	
2-Chlorotoluene	5.20	ug/L	0.50	104	75	131	6.3	20	
4-Chlorotoluene	5.04	ug/L	0.50	101	74	129	7.4	20	
1,2-Dibromoethane	4.52	ug/L	0.50	90	76	124	8.3	20	
Dibromomethane	4.88	ug/L	0.50	98	77	125	5.0	20	
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	74	124	8.3	20	
1,3-Dichlorobenzene	5.20	ug/L	0.50	104	77	122	6.3	20	
1,4-Dichlorobenzene	5.12	ug/L	0.50	98	78	126	7.3	20	
Dichlorodifluoromethane	4.36	ug/L	0.50	87	56	146	0.9	20	
1,1-Dichloroethane	4.68	ug/L	0.50	94	74	133	9.9	20	
1,2-Dichloroethane	3.78	ug/L	0.50	75	75	129	7.8	20	
1,1-Dichloroethene	4.44	ug/L	0.50	89	74	132	7.5	20	
cis-1,2-Dichloroethene	4.88	ug/L	0.50	98	61	122	8.5	20	
trans-1,2-Dichloroethene	5.12	ug/L	0.50	102	79	143	9.8	20	
1,2-Dichloropropane	5.24	ug/L	0.50	105	75	126	6.3	20	
1,3-Dichloropropane	4.64	ug/L	0.50	93	71	136	9.0	20	
2,2-Dichloropropane	3.96	ug/L	0.50	79	68	142	9.6	20	
1,1-Dichloropropene	4.44	ug/L	0.50	89	70	131	9.4	20	
cis-1,3-Dichloropropene	4.40	ug/L	0.50	88	74	135	7.5	20	
trans-1,3-Dichloropropene	4.24	ug/L	0.50	85	76	149	6.6	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch: R275391		
Lab ID: b17021110-001bmsd	Sample Matrix Spike Duplicate			Run: 5971A.L_170224A			02/24/17 18:50		
Ethylbenzene	5.00	ug/L	0.50	100	72	130	7.5	20	
Methyl tert-butyl ether (MTBE)	3.83	ug/L	0.50	77	72	120	5.5	20	
Methyl ethyl ketone	46.0	ug/L	20	92	45	130	3.5	20	
Methyl isobutyl ketone	51.2	ug/L	20	102	58	135	0.0	20	
Methylene chloride	5.72	ug/L	0.50	114	66	142	5.0	20	
Naphthalene	5.55	ug/L	0.50	111	69	124	14	20	
Styrene	4.84	ug/L	0.50	97	80	124	6.0	20	
Tetrachloroethene	4.72	ug/L	0.50	94	72	131	6.1	20	
1,1,1,2-Tetrachloroethane	4.20	ug/L	0.50	84	78	124	6.1	20	
1,1,2,2-Tetrachloroethane	5.20	ug/L	0.50	104	68	137	6.3	20	
Toluene	5.12	ug/L	0.50	102	72	135	4.8	20	
Trichloroethene	4.80	ug/L	0.50	96	85	126	5.1	20	
1,1,1-Trichloroethane	3.94	ug/L	0.50	79	63	120	12	20	
1,1,2-Trichloroethane	4.76	ug/L	0.50	95	78	124	5.2	20	
Trichlorofluoromethane	3.36	ug/L	0.50	67	72	120	2.3	20	S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	64	138	7.4	20	
Vinyl Acetate	4.20	ug/L	1.0	84	31	124	4.9	20	
Vinyl chloride	5.08	ug/L	0.50	102	58	140	0.8	20	
m+p-Xylenes	9.92	ug/L	0.50	99	67	139	6.2	20	
o-Xylene	4.80	ug/L	0.50	96	74	135	7.8	20	
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	81	71	139			
Surr: p-Bromofluorobenzene			0.50	94	80	127			
Surr: Toluene-d8			0.50	100	80	123			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724

**Report Date:** 03/02/17  
**Work Order:** C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E626</b>							Batch: 107004		
<b>Lab ID: MB-107004</b>	<b>Method Blank</b>		<b>Run: SV5973N2.I_170227B</b>				02/27/17 18:24		
Acenaphthene	ND	ug/L	10						
Acenaphthylene	ND	ug/L	10						
Anthracene	ND	ug/L	10						
Azobenzene	ND	ug/L	10						
Benzo(a)anthracene	ND	ug/L	10						
Benzo(a)pyrene	ND	ug/L	10						
Benzo(b)fluoranthene	ND	ug/L	10						
Benzo(g,h,i)perylene	ND	ug/L	10						
Benzo(k)fluoranthene	ND	ug/L	10						
4-Bromophenyl phenyl ether	ND	ug/L	10						
Butylbenzylphthalate	ND	ug/L	10						
4-Chloro-3-methylphenol	ND	ug/L	10						
bis(-2-chloroethoxy)Methane	ND	ug/L	10						
bis(2-chloroethyl)Ether	ND	ug/L	10						
bis(2-chloroisopropyl)Ether	ND	ug/L	10						
2-Chloronaphthalene	ND	ug/L	10						
2-Chlorophenol	ND	ug/L	10						
4-Chlorophenyl phenyl ether	ND	ug/L	10						
Chrysene	ND	ug/L	10						
Diethyl phthalate	ND	ug/L	10						
Di-n-butyl phthalate	ND	ug/L	10						
1,2-Dichlorobenzene	ND	ug/L	10						
1,3-Dichlorobenzene	ND	ug/L	10						
1,4-Dichlorobenzene	ND	ug/L	10						
3,3'-Dichlorobenzidine	ND	ug/L	10						
2,4-Dichlorophenol	ND	ug/L	10						
Dimethyl phthalate	ND	ug/L	10						
Di-n-octyl phthalate	ND	ug/L	10						
Dibenzo(a,h)anthracene	ND	ug/L	10						
2,4-Dimethylphenol	ND	ug/L	10						
4,6-Dinitro-2-methylphenol	ND	ug/L	50						
2,4-Dinitrophenol	ND	ug/L	50						
2,4-Dinitrotoluene	ND	ug/L	10						
2,6-Dinitrotoluene	ND	ug/L	10						
bis(2-ethylhexyl)Phthalate	ND	ug/L	10						
Fluoranthene	ND	ug/L	10						
Fluorene	ND	ug/L	10						
Hexachlorobenzene	ND	ug/L	10						
Hexachlorobutadiene	ND	ug/L	10						
Hexachlorocyclopentadiene	ND	ug/L	10						
Hexachloroethane	ND	ug/L	10						
Indeno(1,2,3-cd)pyrene	ND	ug/L	10						
Isophorone	ND	ug/L	10						

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.





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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>									Batch: 107004
<b>Lab ID: MB-107004</b>	Method Blank				Run: SV5973N2.I_170227B				02/27/17 18:24
n-Nitrosodimethylamine	ND	ug/L	10						
n-Nitroso-di-n-propylamine	ND	ug/L	10						
n-Nitrosodiphenylamine	ND	ug/L	10						
2-Nitrophenol	ND	ug/L	10						
4-Nitrophenol	ND	ug/L	50						
Naphthalene	ND	ug/L	10						
Nitrobenzene	ND	ug/L	10						
Pentachlorophenol	ND	ug/L	50						
Phenanthrene	ND	ug/L	10						
Phenol	ND	ug/L	10						
Pyrene	ND	ug/L	10						
1,2,4-Trichlorobenzene	ND	ug/L	10						
2,4,6-Trichlorophenol	ND	ug/L	10						
Surr: 2-Fluorobiphenyl			10	55	28	107			
Surr: 2-Fluorophenol			10	36	20	56			
Surr: Nitrobenzene-d5			10	58	32	94			
Surr: Phenol-d5			10	35	19	45			
Surr: Terphenyl-d14			10	77	32	122			
Surr: 2,4,6-Tribromophenol			10	56	21	130			
<b>Lab ID: LCS-107004</b>									02/27/17 18:55
	Laboratory Control Sample				Run: SV5973N2.I_170227B				
Acenaphthene	81.2	ug/L	10	81	56	99			
Acenaphthylene	76.5	ug/L	10	77	57	96			
Anthracene	79.5	ug/L	10	80	60	107			
Azobenzene	79.3	ug/L	10	79	56	100			
Benzo(a)anthracene	84.1	ug/L	10	84	62	114			
Benzo(a)pyrene	80.1	ug/L	10	80	62	108			
Benzo(b)fluoranthene	88.6	ug/L	10	89	48	127			
Benzo(g,h,i)perylene	81.6	ug/L	10	82	62	121			
Benzo(k)fluoranthene	79.2	ug/L	10	79	55	111			
4-Bromophenyl phenyl ether	83.0	ug/L	10	83	58	105			
Butylbenzylphthalate	91.6	ug/L	10	92	60	113			
4-Chloro-3-methylphenol	65.7	ug/L	10	66	53	92			
bis(-2-chloroethoxy)Methane	73.9	ug/L	10	74	50	92			
bis(-2-chloroethyl)Ether	63.4	ug/L	10	63	44	82			
bis(2-chloroisopropyl)Ether	61.2	ug/L	10	61	56	87			
2-Chloronaphthalene	74.9	ug/L	10	75	56	95			
2-Chlorophenol	60.1	ug/L	10	60	47	76			
4-Chlorophenyl phenyl ether	75.8	ug/L	10	76	58	99			
Chrysene	81.9	ug/L	10	82	63	106			
Diethyl phthalate	78.8	ug/L	10	79	58	103			
Di-n-butyl phthalate	87.6	ug/L	10	88	61	110			
1,2-Dichlorobenzene	61.5	ug/L	10	62	43	81			

**Qualifiers:**

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ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E626							Batch: 107004		
Lab ID: LCS-107004	Laboratory Control Sample				Run: SV5973N2.I_170227B			02/27/17 18:55	
1,3-Dichlorobenzene	60.2	ug/L	10	60	41	79			
1,4-Dichlorobenzene	61.4	ug/L	10	61	42	79			
3,3'-Dichlorobenzidine	66.6	ug/L	10	69	51	93			
2,4-Dichlorophenol	64.7	ug/L	10	65	49	90			
Dimethyl phthalate	76.4	ug/L	10	76	58	104			
Di-n-octyl phthalate	88.3	ug/L	10	88	56	110			
Dibenzo(a,h)anthracene	80.4	ug/L	10	80	61	111			
2,4-Dimethylphenol	61.8	ug/L	10	62	45	89			
4,6-Dinitro-2-methylphenol	48.2	ug/L	50	48	37	105			
2,4-Dinitrophenol	39.7	ug/L	50	40	27	81			
2,4-Dinitrotoluene	87.7	ug/L	10	88	63	110			
2,6-Dinitrotoluene	75.5	ug/L	10	76	60	107			
bis(2-ethylhexyl)Phthalate	88.6	ug/L	10	89	56	108			
Fluoranthene	63.8	ug/L	10	84	63	110			
Fluorene	77.4	ug/L	10	77	60	99			
Hexachlorobenzene	76.2	ug/L	10	78	57	103			
Hexachlorobutadiene	67.5	ug/L	10	67	39	83			
Hexachlorocyclopentadiene	66.4	ug/L	10	68	39	91			
Hexachloroethane	59.6	ug/L	10	60	37	75			
Indeno(1,2,3-cd)pyrene	82.0	ug/L	10	82	59	109			
Isophorone	67.1	ug/L	10	67	42	102			
n-Nitrosodimethylamine	36.9	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	71.5	ug/L	10	71	49	98			
n-Nitrosodiphenylamine	90.0	ug/L	10	90	61	108			
2-Nitrophenol	68.0	ug/L	10	68	51	96			
4-Nitrophenol	18.3	ug/L	50	18	15	36			
Naphthalene	71.6	ug/L	10	72	48	96			
Nitrobenzene	65.0	ug/L	10	65	51	91			
Pentachlorophenol	70.6	ug/L	50	71	53	109			
Phenanthrene	80.6	ug/L	10	81	58	104			
Phenol	35.4	ug/L	10	35	27	45			
Pyrene	89.3	ug/L	10	89	64	108			
1,2,4-Trichlorobenzene	67.3	ug/L	10	67	49	85			
2,4,6-Trichlorophenol	64.9	ug/L	10	65	47	99			
Surr: 2-Fluorobiphenyl			10	63	28	107			
Surr: 2-Fluorophenol			10	35	20	56			
Surr: Nitrobenzene-d5			10	68	32	94			
Surr: Phenol-d5			10	42	18	45			
Surr: Terphenyl-d14			10	87	32	122			
Surr: 2,4,6-Tribromophenol			10	70	21	130			
Lab ID: B17021688-001CMS	Sample Matrix Spike				Run: SV5973N2.I_170227B			02/27/17 20:29	
Acenaphthene	86.4	ug/L	10	86	58	99			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batch: 107004		
Lab ID: B17021688-001CMS	Sample Matrix Spike			Run: SV5973N2.I_170227B			02/27/17 20:29		
Acenaphthylene	83.0	ug/L	10	83	57	96			
Anthracene	86.4	ug/L	10	86	60	107			
Azobenzene	84.3	ug/L	10	84	56	100			
Benzo(a)anthracene	90.3	ug/L	10	90	62	114			
Benzo(a)pyrene	80.9	ug/L	10	81	62	108			
Benzo(b)fluoranthene	80.4	ug/L	10	80	48	127			
Benzo(g,h,i)perylene	80.5	ug/L	10	81	62	121			
Benzo(k)fluoranthene	83.5	ug/L	10	83	55	111			
4-Bromophenyl phenyl ether	80.4	ug/L	10	80	58	105			
Butylbenzylphthalate	99.7	ug/L	10	100	60	113			
4-Chloro-3-methylphenol	77.0	ug/L	10	77	53	92			
bis(-2-chloroethoxy)Methane	77.3	ug/L	10	77	50	92			
bis(-2-chloroethyl)Ether	66.7	ug/L	10	67	44	82			
bis(2-chloroisopropyl)Ether	66.6	ug/L	10	67	56	87			
2-Chloronaphthalene	79.8	ug/L	10	80	56	95			
2-Chlorophenol	64.1	ug/L	10	64	47	76			
4-Chlorophenyl phenyl ether	84.5	ug/L	10	85	58	99			
Chrysene	85.9	ug/L	10	86	63	106			
Diethyl phthalate	85.4	ug/L	10	85	58	103			
Di-n-butyl phthalate	96.0	ug/L	10	96	61	110			
1,2-Dichlorobenzene	66.1	ug/L	10	66	43	81			
1,3-Dichlorobenzene	61.9	ug/L	10	62	41	79			
1,4-Dichlorobenzene	61.8	ug/L	10	62	42	79			
3,3'-Dichlorobenzidine	69.1	ug/L	10	69	51	93			
2,4-Dichlorophenol	68.4	ug/L	10	68	49	90			
Dimethyl phthalate	81.4	ug/L	10	81	58	104			
Di-n-octyl phthalate	90.6	ug/L	10	91	56	110			
Dibenzo(a,h)anthracene	80.0	ug/L	10	80	61	111			
2,4-Dimethylphenol	69.2	ug/L	10	69	45	87			
4,6-Dinitro-2-methylphenol	58.9	ug/L	50	59	37	105			
2,4-Dinitrophenol	54.8	ug/L	50	55	27	81			
2,4-Dinitrotoluene	82.5	ug/L	10	83	63	110			
2,6-Dinitrotoluene	80.8	ug/L	10	81	60	107			
bis(2-ethylhexyl)Phthalate	92.0	ug/L	10	92	56	108			
Fluoranthene	88.0	ug/L	10	88	63	110			
Fluorene	80.1	ug/L	10	80	60	99			
Hexachlorobenzene	82.5	ug/L	10	83	57	103			
Hexachlorobutadiene	69.0	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	68.1	ug/L	10	68	39	91			
Hexachloroethane	65.6	ug/L	10	66	37	75			
Indeno(1,2,3-cd)pyrene	82.3	ug/L	10	82	59	109			
Isophorone	71.3	ug/L	10	71	42	102			
n-Nitrosodimethylamine	41.5	ug/L	10	41	20	45			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batch: 107004		
Lab ID: B17021688-001CMS	Sample Matrix Spike		Run: SV5973N2.I_170227B				02/27/17 20:29		
n-Nitroso-di-n-propylamine	76.9	ug/L	10	77	49	98			
n-Nitrosodiphenylamine	93.7	ug/L	10	94	61	108			
2-Nitrophenol	69.9	ug/L	10	70	51	96			
4-Nitrophenol	24.6	ug/L	50	25	15	36			
Naphthalene	76.0	ug/L	10	76	48	96			
Nitrobenzene	72.5	ug/L	10	73	51	91			
Pentachlorophenol	89.2	ug/L	50	89	53	109			
Phenanthrene	85.1	ug/L	10	85	58	104			
Phenol	36.7	ug/L	10	37	27	45			
Pyrene	89.8	ug/L	10	90	64	108			
1,2,4-Trichlorobenzene	70.9	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	67.7	ug/L	10	68	47	99			
Surr: 2-Fluorobiphenyl			10	62	28	107			
Surr: 2-Fluorophenol			10	39	20	56			
Surr: Nitrobenzene-d5			10	72	32	94			
Surr: Phenol-d5			10	35	19	45			
Surr: Terphenyl-d14			10	87	32	122			
Surr: 2,4,6-Tribromophenol			10	75	21	130			
Lab ID: B17021688-003CMS	Sample Matrix Spike		Run: SV5973N2.I_170227B				02/27/17 21:31		
Acenaphthene	99.8	ug/L	10	90	58	99			
Acenaphthylene	82.2	ug/L	10	82	57	96			
Anthracene	73.2	ug/L	10	73	60	107			
Azobenzene	80.2	ug/L	10	80	56	100			
Benzo(a)anthracene	85.1	ug/L	10	85	62	114			
Benzo(a)pyrene	77.0	ug/L	10	77	62	108			
Benzo(b)fluoranthene	73.3	ug/L	10	73	48	127			
Benzo(g,h,i)perylene	78.5	ug/L	10	79	62	121			
Benzo(k)fluoranthene	83.1	ug/L	10	83	55	111			
4-Bromophenyl phenyl ether	78.1	ug/L	10	78	58	105			
Butylbenzylphthalate	92.9	ug/L	10	93	60	113			
4-Chloro-3-methylphenol	69.5	ug/L	10	69	53	92			
bis(-2-chloroethoxy)Methane	69.6	ug/L	10	70	50	92			
bis(-2-chloroethyl)Ether	58.4	ug/L	10	58	44	82			
bis(2-chloroisopropyl)Ether	57.7	ug/L	10	58	56	87			
2-Chloronaphthalene	77.7	ug/L	10	78	56	95			
2-Chlorophenol	56.6	ug/L	10	57	47	76			
4-Chlorophenyl phenyl ether	82.9	ug/L	10	83	58	99			
Chrysene	82.0	ug/L	10	82	63	106			
Diethyl phthalate	80.2	ug/L	10	80	58	103			
Di-n-butyl phthalate	86.9	ug/L	10	87	61	110			
1,2-Dichlorobenzene	61.5	ug/L	10	62	43	81			
1,3-Dichlorobenzene	59.3	ug/L	10	59	41	79			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17  
Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E626							Batch: 107004		
Lab ID: B17021688-003CMS	Sample Matrix Spike		Run: SV5973N2.I_170227B				02/27/17 21:31		
1,4-Dichlorobenzene	57.9	ug/L	10	58	42	79			
3,3'-Dichlorobenzidine	52.9	ug/L	10	53	51	93			
2,4-Dichlorophenol	61.5	ug/L	10	62	49	90			
Dimethyl phthalate	74.3	ug/L	10	74	58	104			
Di-n-octyl phthalate	82.5	ug/L	10	83	56	110			
Dibenzo(a,h)anthracene	75.9	ug/L	10	76	61	111			
2,4-Dimethylphenol	60.0	ug/L	10	60	45	87			
4,6-Dinitro-2-methylphenol	41.6	ug/L	50	42	37	106			
2,4-Dinitrophenol	30.1	ug/L	50	30	27	81			
2,4-Dinitrotoluene	88.9	ug/L	10	87	63	110			
2,6-Dinitrotoluene	75.9	ug/L	10	76	60	107			
bis(2-ethylhexyl)Phthalate	81.5	ug/L	10	82	56	108			
Fluoranthene	82.0	ug/L	10	82	63	110			
Fluorene	81.9	ug/L	10	82	60	99			
Hexachlorobenzene	75.8	ug/L	10	76	57	103			
Hexachlorobutadiene	69.3	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	69.5	ug/L	10	70	39	91			
Hexachloroethane	57.7	ug/L	10	58	37	75			
Indeno(1,2,3-cd)pyrene	73.4	ug/L	10	73	59	109			
Isophorone	68.4	ug/L	10	68	42	102			
n-Nitrosodimethylamine	27.8	ug/L	10	28	20	45			
n-Nitroso-di-n-propylamine	68.7	ug/L	10	69	49	98			
n-Nitrosodiphenylamine	84.0	ug/L	10	84	61	108			
2-Nitrophenol	61.8	ug/L	10	62	51	96			
4-Nitrophenol	27.7	ug/L	50	28	15	36			
Naphthalene	72.4	ug/L	10	72	48	96			
Nitrobenzene	69.7	ug/L	10	70	51	91			
Pentachlorophenol	66.8	ug/L	50	67	53	109			
Phenanthrene	79.7	ug/L	10	80	58	104			
Phenol	33.9	ug/L	10	34	27	45			
Pyrene	81.2	ug/L	10	81	64	108			
1,2,4-Trichlorobenzene	71.3	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	63.8	ug/L	10	64	47	99			
Surr: 2-Fluorobiphenyl			10	45	28	107			
Surr: 2-Fluorophenol			10	37	20	56			
Surr: Nitrobenzene-d5			10	62	32	94			
Surr: Phenol-d5			10	31	19	45			
Surr: Terphenyl-d14			10	64	32	122			
Surr: 2,4,6-Tribromophenol			10	55	21	130			
Lab ID: MB-107004	Method Blank		Run: SV5973N2.I_170228A				02/28/17 12:11		
Benzidine	ND	ug/L	10						

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E825									Batch: 107004
Lab ID: LCS-107004	Laboratory Control Sample								Run: SV5973N2.I_170228A 02/28/17 12:42
Benzidine	63.4	ug/L	10	63	10	100			
Lab ID: B17021688-001CMS	Sample Matrix Spike								Run: SV5973N2.I_170228A 02/28/17 14:16
Benzidine	25.8	ug/L	20	26	10	100			
Lab ID: B17021688-003CMS	Sample Matrix Spike								Run: SV5973N2.I_170228A 02/28/17 15:18
Benzidine	28.5	ug/L	20	28	10	100			

**Qualifiers:**

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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc  
Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17  
Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Analytical Run: R275528		
Lab ID: 27-Feb-17_CCV_2	Continuing Calibration Verification Standard						02/27/17 15:18		
Acenaphthene	75.7	ug/L	10	101	80	120			
Acenaphthylene	75.2	ug/L	10	100	80	120			
Anthracene	78.7	ug/L	10	105	80	120			
Azobenzene	79.8	ug/L	10	108	80	120			
Benzo(a)anthracene	78.0	ug/L	10	104	80	120			
Benzo(a)pyrene	78.0	ug/L	10	104	80	120			
Benzo(b)fluoranthene	78.6	ug/L	10	105	80	120			
Benzo(g,h,i)perylene	75.3	ug/L	10	100	80	120			
Benzo(k)fluoranthene	73.2	ug/L	10	98	80	120			
4-Bromophenyl phenyl ether	74.4	ug/L	10	99	80	120			
Butylbenzylphthalate	84.4	ug/L	10	113	80	120			
4-Chloro-3-methylphenol	77.2	ug/L	10	103	80	120			
bis(-2-chloroethoxy)Methane	79.4	ug/L	10	106	80	120			
bis(-2-chloroethyl)Ether	80.8	ug/L	10	108	80	120			
bis(2-chloroisopropyl)Ether	77.8	ug/L	10	104	80	120			
2-Chloronaphthalene	70.3	ug/L	10	94	80	120			
2-Chlorophenol	80.3	ug/L	10	107	80	120			
4-Chlorophenyl phenyl ether	72.9	ug/L	10	97	80	120			
Chrysene	75.0	ug/L	10	100	80	120			
Diethyl phthalate	75.7	ug/L	10	101	80	120			
Di-n-butyl phthalate	81.6	ug/L	10	109	80	120			
1,2-Dichlorobenzene	72.7	ug/L	10	97	80	120			
1,3-Dichlorobenzene	77.8	ug/L	10	104	80	120			
1,4-Dichlorobenzene	74.9	ug/L	10	100	80	120			
3,3'-Dichlorobenzidine	75.8	ug/L	10	101	80	120			
2,4-Dichlorophenol	74.8	ug/L	10	100	80	120			
Dimethyl phthalate	75.3	ug/L	10	100	80	120			
Di-n-octyl phthalate	83.5	ug/L	10	111	80	120			
Dibenzo(a,h)anthracene	74.8	ug/L	10	100	80	120			
2,4-Dimethylphenol	73.0	ug/L	10	97	80	120			
4,6-Dinitro-2-methylphenol	71.3	ug/L	50	95	80	120			
2,4-Dinitrophenol	69.4	ug/L	50	93	80	120			
2,4-Dinitrotoluene	79.4	ug/L	10	106	80	120			
2,6-Dinitrotoluene	78.1	ug/L	10	104	80	120			
bis(2-ethylhexyl)Phthalate	84.4	ug/L	10	112	80	120			
Fluoranthene	76.0	ug/L	10	101	80	120			
Fluorene	77.8	ug/L	10	104	80	120			
Hexachlorobenzene	73.8	ug/L	10	98	80	120			
Hexachlorobutadiene	71.9	ug/L	10	96	80	120			
Hexachlorocyclopentadiene	73.1	ug/L	10	97	80	120			
Hexachloroethane	77.6	ug/L	10	103	80	120			
Indeno(1,2,3-cd)pyrene	75.6	ug/L	10	101	80	120			
Isophorone	78.1	ug/L	10	104	80	120			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724

**Report Date:** 03/02/17  
**Work Order:** C-17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>							Analytical Run: R275528		
<b>Lab ID:</b> 27-Feb-17_CCV_2	Continuing Calibration Verification Standard						02/27/17 15:18		
n-Nitrosodimethylamine	75.3	ug/L	10	100	80	120			
n-Nitroso-di-n-propylamine	77.8	ug/L	10	104	80	120			
n-Nitrosodiphenylamine	78.9	ug/L	10	105	80	120			
2-Nitrophenol	75.8	ug/L	10	101	80	120			
4-Nitrophenol	69.6	ug/L	50	93	80	120			
Naphthalene	79.8	ug/L	10	106	80	120			
Nitrobenzene	76.8	ug/L	10	102	80	120			
Pentachlorophenol	73.3	ug/L	50	98	80	120			
Phenanthrene	74.0	ug/L	10	99	80	120			
Phenol	79.2	ug/L	10	106	80	120			
Pyrene	75.2	ug/L	10	100	80	120			
1,2,4-Trichlorobenzene	72.8	ug/L	10	97	80	120			
2,4,6-Trichlorophenol	73.6	ug/L	10	98	80	120			
Surr: 2-Fluorobiphenyl			10	100	80	120			
Surr: 2-Fluorophenol			10	113	80	120			
Surr: Nitrobenzene-d5			10	105	80	120			
Surr: Phenol-d5			10	121	80	120			S
Surr: Terphenyl-d14			10	101	80	120			
Surr: 2,4,6-Tribromophenol			10	102	80	120			
<b>Method: E625</b>							Analytical Run: R275577		
<b>Lab ID:</b> 28-Feb-17_CCV_2	Continuing Calibration Verification Standard						02/28/17 11:39		
Benzidine	89.5	ug/L	10	119	80	120			

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.





### QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260M									Analytical Run: 107003
Lab ID: CCV-107003	Continuing Calibration Verification Standard								02/27/17 08:30
1,4-Dioxane	105	ug/L	1.0	105	80	120			
Method: SW8260M									Batch: 107003
Lab ID: LCS-107003	Laboratory Control Sample								Run: VOA5973A.I_170227A
1,4-Dioxane	106	ug/L	1.0	106	70	130			02/27/17 09:22
Lab ID: MB-107003	Method Blank								Run: VOA5973A.I_170227A
1,4-Dioxane	ND	ug/L	1.0						02/27/17 09:44
Lab ID: C17020566-001BMS	Sample Matrix Spike								Run: VOA5973A.I_170227A
1,4-Dioxane	200	ug/L	2.0	100	70	130			02/27/17 11:37
Lab ID: C17020566-001BMSD	Sample Matrix Spike Duplicate								Run: VOA5973A.I_170227A
1,4-Dioxane	206	ug/L	2.0	103	70	130	3.0		02/27/17 11:59

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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# Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C17020566

Login completed by: Dorian Quis

Date Received: 2/21/2017

Reviewed by: Kasey Vidick

Received by: dcq

Reviewed Date: 2/21/2017

Carrier name: Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	6.8°C Blue Ice		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Contact and Corrective Action Comments:

None

