

## Executive Summary: Water Resources and Wastewater Report Sterling Ranch Metropolitan District #1 February 28, 2019 (Update May 29, 2020)

The original Water Report for Sterling Ranch Metropolitan District #1 was prepared and submitted in May of 2015. Since that time, several addendums have been filed, additional service area has been added, and advancement of platting activities has proceeded as well as construction of the physical water system.

Sterling Ranch Metropolitan District #1 (SRMD#1) will be the primary water/wastewater provider for not only areas within Sterling Ranch, but The Retreat at TimberRidge and The Ranch have been added as service areas and will be served via an overlapping district or Intergovernmental Agreement with SRMD#1.

for 100 years or 300 years which is what county requires.

## <u>Water</u>

Sterling Ranch has issued "hard" commitments for six preliminary and final plats which are contained within the original Sterling Ranch Preliminary Plan Phase One area. "Hard" commitments are those commitments based on actual entitled preliminary or final plats. Sketch plans do not rise to the level of land use detail that allows for quantitative identification of water demand. The Phase One area commitment includes 726 SFE and 255.96 AF <sub>300 year</sub>. <u>All of the six preliminary and final plats processed or being processed to date are contained within the original Phase One commitment area</u>.

The Retreat at TimberRidge has submitted a preliminary plan that requires a commitment of 57.89 AF <sub>300 year</sub> for 164 lots that will be served by the central system. The commitment is satisfied by 48.73 AF <sub>300 year</sub> onsite water and 9.16 AF <sub>300 year</sub> transferred from SRMD#1.

The Ranch will also be served by SRMD#1. The Ranch has onsite water equivalent to 245 AF <sub>300 year</sub> but has not yet developed to either a preliminary or final plat stage so currently includes no active hard commitments. It should be noted that The Ranch and the 245 AF are within the Upper Black Squirrel Groundwater Basin and therefore the water must be used within The Ranch boundaries.

this is for sterling ranch filing no 2 but that is not mentioned.... <u>SRMD#1 has adequate supply on a 300 year basis to meet all current hard commitments</u> <u>including Sterling Ranch Filing #2.</u>

### Wastewater

SRMD#1 has an agreement with Meridian Service Metropolitan District for the provision of wastewater treatment services. An **interim** agreement with Colorado Springs Utilities for wastewater treatment will provide for temporary treatment service while Sterling Ranch is completing its connections to the Meridian system. The current contract allows for up to 5849 SFE of capacity.

## **TABLE OF CONTENTS**

#### SECTION 1 INTRODUCTION

1.1 Development Description

#### SECTION 2 PROJECTION OF WATER NEEDS

- 2.1 Expected Water User Characteristics
- 2.2 Summary of Current Commitments *Table 1 – Committed Water Demands for Sterling Ranch Service Area*

#### SECTION 3 PROPOSED WATER RIGHTS AND SYSTEM FACILITIES

- 3.1 Water Rights provide copy of all crt decrees in this document. Table 2 – Sterling Ranch Metropolitan District – Overall Water Supply Inventory
- 3.2 Analysis of Adequacy of Current Legal Water Supply
- 3.3 Source of Supply
- 3.4 Water Quality and Treatment
- 3.5 Water Storage and Distribution and Transmission Lines
- 3.6 Pumping for Service Pressures

#### SECTION 4 WASTEWATER REPORT

- 4.1 Wastewater Contract and Treatment
- 4.2 Collection, Pumping and Piping
- 4.3 Wastewater Treatment

#### APPENDICES

Appendix A- Map of Overall Sterling Ranch Service Area

Appendix B-Tabulation of Commitments Update May 29, 2020

Appendix C - Water Quality Reports

Appendix D – Draft Wastewater EGF Extension Agreement

update for todays circumstances this appears to have been rushed together and is already out of date????

look at revised Chapter 8 on our website effective 9/2019 and update report.

Also water master plan should be addressed based on the info in this report.

#### SECTION 1 INTRODUCTION

The purpose of this report is to provide an accounting of current and contingent water rights and supply for Sterling Ranch Metropolitan District #1. This water report is for the Sterling Comprehensive Service Area which includes two additional service areas.

#### 1.1 Development Description:

Sterling Ranch Development consists of approximately 1,444 acres located east of Vollmer Rd and north of Woodmen Rd, Section 33, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M. Districts 1, 2 and 3 are considered Special Districts and are under the jurisdiction of the Special District Act

1,119 acres is designated for 5,225 residential units. 56.36 acres is designated for commercial use. 270 acres is designated for open space, greenways, trails, parks, and school sites.

The Retreat at TimberRidge has 164 single family lots that are anticipated to be served by the Central Sterling system. The Retreat at TimberRidge has a total of 41 Rural sized lots to be served by single family wells and septics. Although the Table for water supply notes the water resources for the rural component of the Retreat, we have not calculated that source nor that demand into the central system figures

The Ranch is on 610.47 acres and estimates a single family dwelling demand of between 1307 and 2179 units along with a Park and School. For the purpose of this report we will estimate the demand at 2100 SFE.

#### SECTION 2 PROJECTION OF WATER NEEDS

#### 2.1 Expected Water User Characteristics:

It is expected that urban style residential lots will be developed with single family housing anticipating turf grass landscaping of less than 3,000 square feet per lot. There are a few larger irrigation users anticipated for the development. There are a limited number of schools, parks, and commercial acreages that we have converted to Single Family Equivalents (SFE). The unit user characteristic employed is consistent with Sterling and other developed areas in the Falcon area. That value is 0.353 AF per SFE annually.

#### 2.2 Summary of Current Commitments

The current level of hard service commitments is summarized as follows. It should be noted that Sketch Plans, long term potential demands and other nonentitled levels of planning are not considered until such a time as land use planning advances to a stage that known land use is identified. Table 1 identifies the existing commitments for service.

update what is required for sf and tracts, what is current

demand, and

2060

availability, 2040

Service Area	SFE	Water-Acre Feet per Yr
Sterling Ranch Phase One * (commitment dated May 2015)	725	255.96
The Retreat	164	57.9

Sterling Ranch Phase One includes the following plat areas;

- Branding Iron at Sterling Ranch Filing #1
- Sterling Ranch #2
- Homestead at Sterling Ranch Filing No 1
- Homestead at Sterling Ranch Filing No 2
- Copper Chase at Sterling Ranch Filing No 1

retreat at TimbeRridge is also coming form this is it not?

#### **Total Annual Committed Demand of the Sterling Service Area is 313.86 Acre-Feet per Year**

## SECTION 3 PROPOSED WATER RIGHTS AND SYSTEM FACILITIES

3.1 Water Rights:

attach and name

Water rights adjudications have been decreed by the State of Colorado, Water Division 2 District Court, Water Division 1 District Court, and the Colorado Groundwater Commission. The comprehensive rights for the Sterling Service area include both decrees, and determinations. In addition to groundwater adjudicated under the various service areas, Sterling has contracted for numerous off-site groundwater acquisitions which include three major sites.

Table 2 is a table detailing all of the water rights currently available for the Sterling Service Area.

The three local groundwater rights are associated with the three service area portions; Sterling, Retreat, and The Ranch. Each of these sites has existing decrees and/or determinations outlining the rights associated with the development lands. It is noteworthy that the Retreat proposes that 41 rural style lots will be developed using single family wells and septics. In Table 2, we have noted the rights associated with those proposed wells, but we have not included those rights in the calculations for water available to the central system.

Table 2

<u>Update May 29, 2020</u>

Note 1.

	Reference	-			Annual	Annual	Approved			rated
Land	Determin		Tributary	Volume	Allocation	Allocation	Well	Notes	Sand	Specific
Formation/Aquifer	Decr	·ee	Status		100 Year	300 Year	Locaions		Thickness	Yield
			Current	Acre-Feet	A-F/Year <b>n-Site Sterling</b>	A-F/Year Water Legal	Sources			
Laramie Fox Hills	86-CW	/-19	NT	53,900	539.00	179.67	KLF-1 - KLF-4	Under 1410 acres	255	15%
	08CW	113	NT	40	0.40	0.13		Under 41.44 acres,		
								reduced to 1.44 acres		
Arapahoe	86-CW	/-18	NT	57500	575.00	191.67	KA-1 - KA-4	Under 1410 acres	240	17%
							371.47			
Laramie Fox Hills	93-CW		Currently Av	vailable Off-S 55,200	ite Sterling Web	<i>ter Legal Sou</i> 184.00	<u>urces (Bar-X)</u> 184.00	Shamrock/Bar-x Rights	200	15%
Eutumerox mus	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	010		55,200	332.00	101.00	101.00	Shannook Bar X Rights	200	1570
		C	erranthy Avai	labla On-Sita	The Panch (F	Ikhorn) Wata	r Legal Sources			
			NT	17,000	170.00	56.67	<u>r Legui Sources</u>	646.029 acres	[	
Laramie Fox Hills	Determination	receipt 471559-D								
Arapahoe	under Section 37-	471559-D	NT	23600	236.00	78.67		646.029 acres		
	90-107(7)	recepit								
Denver NNT		471559-B	NNT	32900	329.00	109.67	245.00	646.029 acres		
			Currently A	vailable On-S	ite Retreat Wa	ter Legal Sou	rces (Note 1)			
Laramie Fox Hills	17CW3		NT	6,440				Under 225.97 acres	190	15%
LFH (Relinquishment)	18CW3	3002	NT	-2,796						
				3,644	36.44	12.15				
	1700	2002	NT	0.707	07.06	22.65		U. 1. 205.07	255	170/
Arapahoe	17CW2	5002	NT	9,796	97.96	32.65		Under 225.97 acres	255	17%
Laramie Fox Hills	16CW3	3095	NT	1,005	10.05	3.35		Under 35.28 Acres	190	15%
Arapahoe	16CW2	3095	NT	1,499				Under 35.28 Acres	250	17%
Arapahoe (Relinquishment)	16CW2		NT	-1,324				011401 00.20110100	200	1770
The second second second										
				175	1.75	0.58				
Legal Supply: Phase 3,							4			
se 4 (excluding Lots 39-41) and Phase 6				14,620	146.20	48.73				
I hase 0				14,020	140.20	40.75				
								Replace a min of 34% of		
Augmentation (Dawson NNT)	18CW	3002	Aug	2,796	27.96	9.32		pumping		
							(excluding Lots 11-12); Lots 39,			
(excluding Lots 11-12),						9.32	40 & 41 of Phase 4; & 5]	-		
Augmentation (Dawson NNT)	16CW:	3095	Aug	1567.5	15.68	5.23		Replace actual depletions		
Legal Supply Phase 1						5.23	1)			
Exgar Suppry Flase 1			Curre	ently Availab	le Off-Site G		Legal Sources			
Augmentation (Dawson NNT)	18CW:	3005	Aug	240.0	2.40	0.80		pumping		
2)				240.0	2.4	0.8				
al Current Available 300-Year V						665.2				

Sterling Ranch Metropolitan District

Currently Available Legal Supply

Comprehensive Water Supply Inventory

	Finding/			Annual	Annual	Approved		Satu	rated
Land Formation/Aquifer	Determination/ Decree	Tributary Status	Volume	Allocation 100 Year	Allocation 300 Year	Well Locaions	Notes	Sand Thickness	Specific Yield
			Acre-Feet	A-F/Year	A-F/Year				
	, ,	Contin	gent On-site Ste	erling Ground V	Vater Sources (N	lote 2)			
	000000112		(0)	0.00	0.20		TT 1 41 44	251.4	170/
Arapahoe	08CW113	NNT	60	0.60	0.20		Under 41.44 acres, reduced to 1.44 acres	251.4	17%
Denver	08CW113	NNT	72,893	728.9	242.97		Replace 4%	313.8	17%
Denver	000 1115		12,000	120.9	212.97		Replace 176	515.0	1770
Dawson	08CW113	NNT	39,247	392.5	130.83		Replace actual depletions	145.8	20%
Fotal Additional Cont	tingent Supply Ster	ling (without a	ugmentation)		243.0				
		2.	- /			n			
		Contin	gent Off site Mc	Cune Ground	Water Sources (1	Note 4)			
Laramie Fox Hills	1689-BD	NT	26,300	263.00	87.67		900.52 acres		
Arapahoe	1690-BD	NT	39800	398.00	132.67		900.52 acres		
Denver	1691-BD	NT	52800	528.00	176.00		900.52 acres		
			-151450.00	-50.00	-5.00	Retained Denver Form	ation Water		
Fotal Contingent Sup	nly McCune (with	out augmentati	on)		391.33				
rotar Contingent Sup	ply wiecule (with	out augmentati			571.55				
					1				
	1	<u>Contin</u>	<u>gent On-site Sci</u>	hmidt Ground V	Vater Sources (N	<u>Note 5)</u>			
Laramie Fox-Hills	Pending	NT	2778	27.78	9.26	9.26	97.54 acres		
Laranne Fox-mins	Tending	INI	2776	27.70	9.20	9.20	97.54 deres		
A	Dending	NINIT	2.079	20.79	12.20		07.54		
Arapahoe Denver	Pending	NNT NNT	3,978 5,277	39.78 52.77	13.26 17.59	30.85	97.54 acres 97.54 acres		
Denver	Pending		3,277	32.11	17.39	30.85	97.34 acres		
Fotal Contingent Wat	er Supply Schmid	t (without aug	mentation)		9.26				
Гotal Contingent Wat	or Supply potenti	ally available to	Storling with a	ugmontation	30.85				

Note 2 This water noted as Denver NNT requires augmentation, but using other sources, Sterling is making this water available using alternate sources as augmentation

Note 3 This water is also termed the Bar-X water. The sources listed in this table are under contract to Sterling. As the Contract "take-down" proceeds, these supplies will be become the property of Sterling and can be made available for use at Sterling. The Laramie Fox Hills Water has been deeded to Sterling

Note 4 This water is also termed the McCune water. The sources listed in this table are under contract to Sterling.

Note 5 Schmidt Water obtained via Deed 5-18. Application for Decree Estimated to yield above amounts

The water listed in the shaded area will be used to serve single family wells and is not included in the Total Available for the Central System

#### Table 2 Sterling Ranch Metropolitan District Comprehensive Water Supply Inventory Contingent Supplies

#### 3.2 Analysis of Adequacy of Current Legal Water Supply:

Water rights adjudications have been decreed by the State of Colorado, Water Division 2 District Court, Water Division 1 District Court, and the Colorado Groundwater Commission. It should be noted that the rights have certain limitations in locations of use. The rights by area are as follows;

- Sterling on and off site rights- 555.47 AF 300 year
- Retreat at TimberRidge on site rights are 48.73 AF <sub>300 year</sub>
- The Ranch on site rights- 245.0 AF <sub>300 year</sub>

Of the Sterling rights, 9.16 AF  $_{300 year}$  have been committed to the Retreat Service Area, leaving a net Sterling on-site availability of 546.31 AF  $_{300 year}$ .

The on-site rights underlying The Ranch are within the Upper Black Squirrel and are limited in use area to The Ranch and the Upper Black Squirrel Designated Basin. Therefore the 245.0 AF  $_{300 year}$  can only be used on the Ranch and not on Sterling ranch proper.

As of February 28, 2019, all of the Retreat water and 9.16 AF from Sterling are committed to the Retreat. As of February 28, 2019, of the net available 546.31 AF <sub>300 year</sub>, 255.96 <sub>300 year</sub>, have been dedicated to Sterling Ranch Phase One which includes all of the existing preliminary and final plats to date.

# This leaves a net uncommitted amount of water for the remainder of SterlingRanch of 290.35 300 year.discuss percentage of

		disouss percentag
2.2		renewable verse
3.3	Source of Physical Supply:	non-renewable

Municipal water demand would be met using primarily Arapahoe and Laramie-Fox Hills formation wells in the Sterling area. The first well site will be drilled with an Arapahoe Well (A-1) and Laramie-Fox Hills Well (LFH-1). Well site #1 includes both an Arapahoe and a Laramie Fox Hills well. Permits will be obtained as needed to ultimately continue to add to the system as needed.

Off site water to the north of the Sterling Service Area is generally in the Denver and Arapahoe formations. Some Laramie Fox Hills water has been contracted for and can be either physically accessed or used to augment NNT water not otherwise counted in Table 2.

#### 3.4 Water Quality and Treatment:

Appendix C contains the water quality reports for the initial wells drilled at Sterling Ranch. The quality is generally consistent with Denver Basin water typically encountered in the Falcon area. The water quality in these aquifers in this area has typically been suitable for potable use with the addition of iron and manganese treatment.

#### 3.5 *Water Storage, Distribution and Transmission Lines*

An initial tank has already been constructed at the Sterling site.

For the purpose of fire protection, we recommend eight inch lines throughout the residential subdivision. The lines should be looped wherever street layout allows. A transmission line of a minimum of 18 inch diameter should be extended south-southwesterly along one of the major roadways from the storage tank into Phase One of the development.

#### 3.6 Pumping for Service Pressures:

Ground elevations within the development service area range from approximately 6,970 to 7,320. Adequate service pressures are generally considered 60 psi for residential service. The tank site is on the Sterling property at a base elevation of approximately 7,310 feet which would be capable of supplying acceptable service pressures to ground elevations of approximately 7,190. Initial development is anticipated to be at elevations below 7,190 so the tank site will be able to provide adequate pressure.

As development construction progresses, the SRMD #1District plans to construct the northern transmission line to bring in the off-site water contracted for. Because the storage tanks are located at a high elevation, there is substantial pressure for residential service and fire flow for initial development of Sterling Ranch and all of The Ranch.

#### SECTION 4 WASTEWATER AND WASTEWATER TREATMENT

update section based on today construction and look at new code adopted 9/2019

#### 4.1 Wastewater Contract and Treatment

The Sterling Ranch Metropolitan District has a perpetual contract with the Meridian Service Metropolitan District (MSMD) for the provision of wastewater treatment. The contract allows for the purchase of up to 5849 SFEs of wastewater capacity from MSMD. Wastewater projections are based on similar District historical use developed in the Falcon area. Average daily wastewater loads are expected to be roughly 172 gallons per day per single family residence.

Interim Wastewater Treatment Services will be provided by Colorado Springs Utilities for up to one year while Sterling Ranch is completing its connection to the Meridian System. A copy of the Interim Service Agreement was attached in Prior Water and Wastewater Reports and therefor is not included here. An agreement relating to completion of the wastewater outfall and the associated EGF has been extended to June 30, 2020. A draft of this agreement is attached.

From Table 1, the total committed wastewater taps are identical to those designated for water, which is 164 for the Retreat and 725 for Sterling Ranch. Consequently, Sterling has significant uncommitted capacity for wastewater.

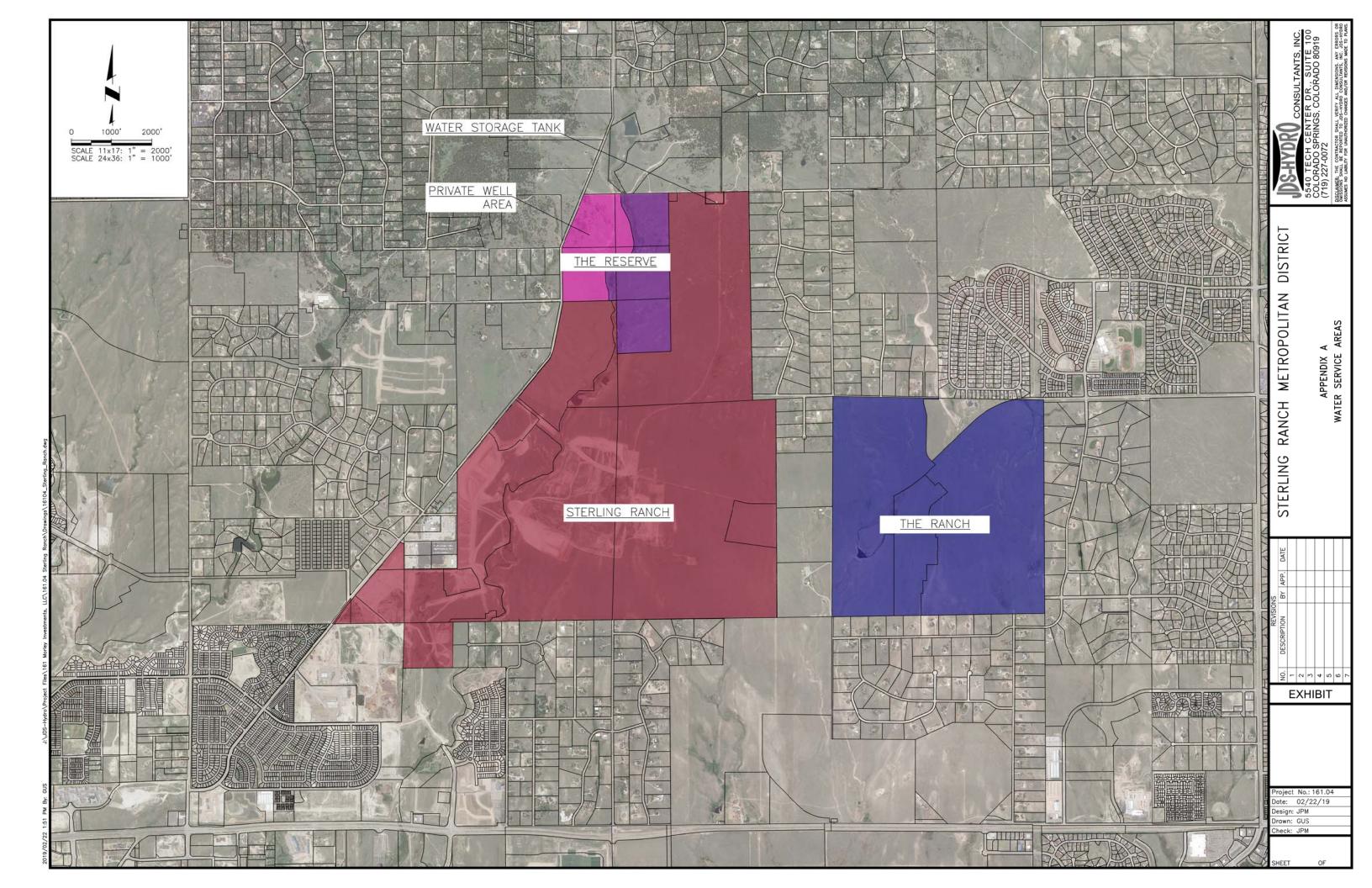
#### 4.2 Wastewater Collection and Pumping

All lands to be developed within the Sterling Ranch and the Retreat areas will gravity feed to the southern portion of the Sterling site. This will be the main collection point for most of the entire future development as well. Sterling is completing construction of the Lift Station and Force Main to serve the area. The force main is constructed across the lower portion of The Ranch. From this point wastewater is intercepted by Meridian Service Metropolitan District.

#### 4.3 Wastewater Treatment

MSMD owns 2.2 million gallons per day of wastewater capacity in the Black Squirrel Wastewater Facility. The plant operator, Cherokee Metropolitan District (CMD) has already approved connections, and systems associated with transport and treatment. MSMD and CMD are in compliance with their current COC issued by the Colorado Department of Public Health and Environment.

Appendix A



Appendix B

Append						-		_
	g Ranch Metropolitan District #1						<u>Analysis</u>	<u>s of</u>
	aion of Commitments vs. Supply within SRMD#1 Service Area							Prel
Update	e May 29, 2020	ary of Existing	Available Sur	pplies		Development	Commitment SFE	
	Existing Available Supplies summarized from From Table 2 The Ranch Onsite (UBS)	Acre-Feet 300 Year Non-UBS	Acre-Feet 300 - Year UBS * 245.00	Onsite-must remain in UBS	Supply			
						Retreat Available Supply from Above		
Water Supply Summary	Sterling Ranch Onsite Sterling Ranch Offsite Commit to Retreat	371.47 184.00 -9.16 <b>546.31</b>	-	OnsiteOriginal report LFH from Bar -X Transfer Out	Commitments	The Retreat at TimberRidge Preliminary Plan (Central System Only) Final #1	164	
er Supl					Remaini ng Excess	Excess Supply for Retreat at TimberRidge Service Area		
Wati	Retreat Onsite (Central System Only) **	48.73		Onsite	Re Ex			
	Commit from Sterling Ranch	9.16		Transfer In		Sterling Ranch Available Supply from Above		
		57.89			Supply			
	Sterling Ranch Metropolitan District #1	Total AF	849.20		ō			
					-	Sterling Ranch Preliminary Plan Phase One	726	t
	Summa	ry of Continge	nt Available S	upplies				
	Net On-Site Sterling Denver NNT w/augmentation	0.00		Net 0 Replaces Bar -X NT Sources		Sterling Ranch Filing #1		
	Schmidt On-site NT (Pending Decree)	9.26		Owned Pending Decree				
	Schmidt On-site NNT (Pending Decree with Augmentation)	30.85		Owned Pending Decree		Tract BB (10.545) Branding Iron at Sterling Ranch Filing No. 1		
	McCune Off-site (under Contract)	391.33 692.60		Under Contract				
	Off-site Bar-X (under contract) Total Contingent Supplies		1	Net Bar-X after Aug of On site Sterling Under Contract	S	Sterling Ranch Filing #2		
	Sterling Ranch Metropolitan District #1	Total AF	1973.25	Total Currently Available and Contingent Water	Commitments			
					mit	Tract G (19.574) Homestead at Sterling Ranch Filing No. 1		
					Con	Tract E (29.658) Homestead at Sterling Ranch Filing No. 2		
						Copper Chase at Sterling Ranch (Although preliminary it is contained in Phase One Commit area)		
								1
						Sterling Ranch Preliminary Plan Phase Two	212	

#### Annendix B

General Note 1. The Sterling Ranch Metropolitan District #1 is slated to serve multiple service areas through either IGA, overlapping Districts, or bulk service. Therefore, water acocunting is performed on a comprehensive basis to assure that the District has adequate resources to provide for all service. Supplies are compared above within each separate service areas because certain water rights have limited use areas.

General Note 2; Commitments are not hard commitments until Preliminary Plan, No Sketch plans are considerd here

The Ranch Service Area

General Note 3; If a final plat/plan is included in a preliminary plan or plat that has designated a commitment, the final plat is only summed against the original committed water

0

\* Water derived from within the UBS cannot be applied outside the UBS without separate export order.

Excess Un-committed Water Supply for Sterling Ranch Service

The Ranch Available Supply from Above

There are no Preliminary plans yet filed in The Ranch

The Ranch Preliminary Plan

Excess Supply

Supply

ts

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Remaini ng Excess

\*\* Tabulation and supply for Retreat Private wells is noted on Table 2 for information only, it is not included as commitment or supply for central system purposes.

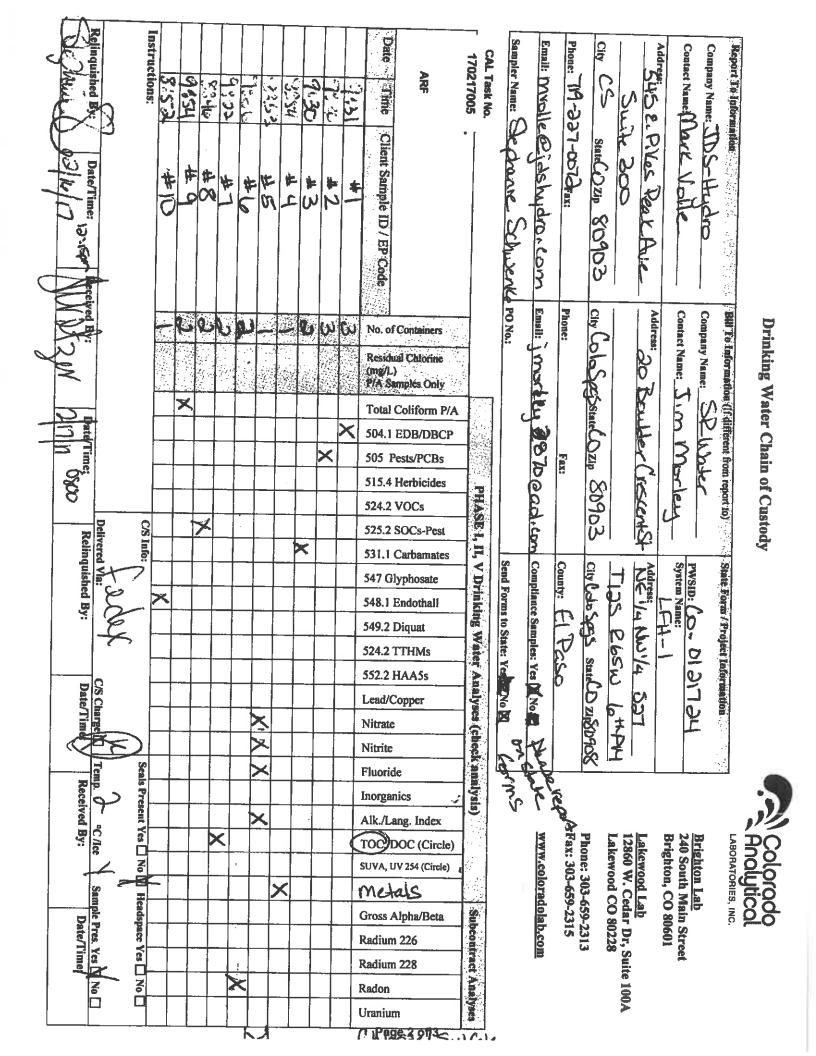
s of Water Commit	<u>ments</u>			
Preliminary Commitm	ents	Final Commi	tments contained	in prior commitment
Supply / Commitment Acre-Feet	Letter or Summary Date	Commitment SFE	Commitment Acre-Feet	Letter or Summary Date
57.89				
-57.89	April 2018 Report			
0.00				
546.31				
-255.96	June 2015 Report/Summary			
	Update February 2019	0	0	Tracts Only
		51	17.850	Summary and Letter
		49	17.296	Summary and Letter Revised May 29, 2020
		72	25.416	
		104	36.712	20-Feb-19
		132	46.596	21-Feb-19
0	May 29, 2020 Report	In upcoming Repo	143.87 rts	
290.35				
245.00				
0				
245.00				

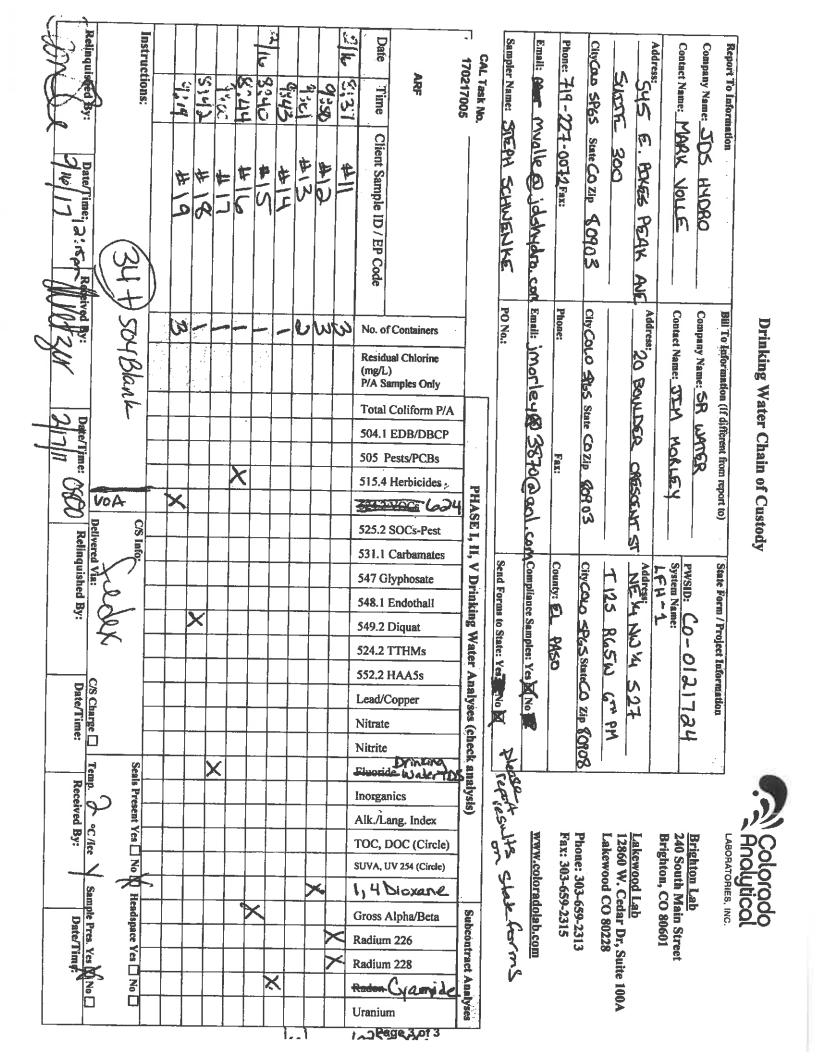
Appendix C

Coloredo Department of Public Health and Environment	1 #	Inor 4300 Fax	Inorganic Chemicals Certified Laboratory Report Forn WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO 80246-153 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us	emicals Certified Laboratory Report Form WQCD - Drinking Water CAS Creek Drive South, Denver, CO 80246-1530 58-1398; cdphe.drinkingwater@state.co.us	orm 1530 D.us		Revise	Revised 6/13/2014
S	ection I (Sumlied	Section 1 (Sumlied or Completed by Public Water System)	Water System)	Section II (Su	Section II (Supplied or Completed by Certified Laboratory)	w Certified La	aboratory)	
	Public V	<b>Public Water System Information</b>	tion	U	<b>Certified Laboratory Information</b>	nformation		
PWSID#: CO-0121724	121724			Laboratory ID: CO 0015				
System Name: LFH-1	LFH-1			Laboratory Name: Colorado Analytical Laboratory	o Analytical Laborato	L,		
Contact Person: Mark Volle	: Mark Vollc		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
			Section III (Supplied or Comp	(Supplied or Completed by Public Water System)	0			
Sample Date: 2/16/17		Collector: Stephanie Schwe Facility II	Facility ID (On Schedule):	San	Sample Pt II) (On Schedule):	le):		
		Seci	Section IV Inorganic Chemicals (Completed by Certified Laboratory)	ompleted by Certified Labon	utory)			
Lab Receipt Date	I ab Analysis Date	Lab Sample II)	Analyte Name	CAS No	Analytical Method	MCL.	Lab MRL	Result (mo/1)
2/17/17	2/17/17	170217005-01	Fluoride	7681-49-4	EPA 300.0	4	60.0	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

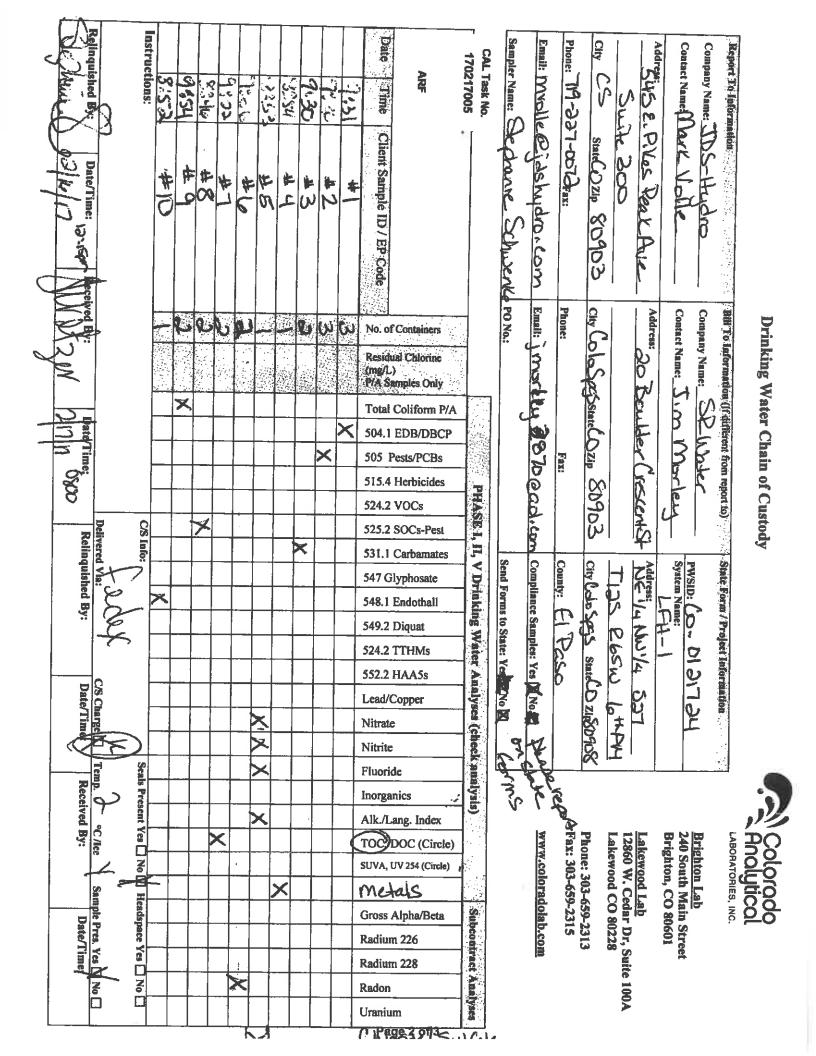


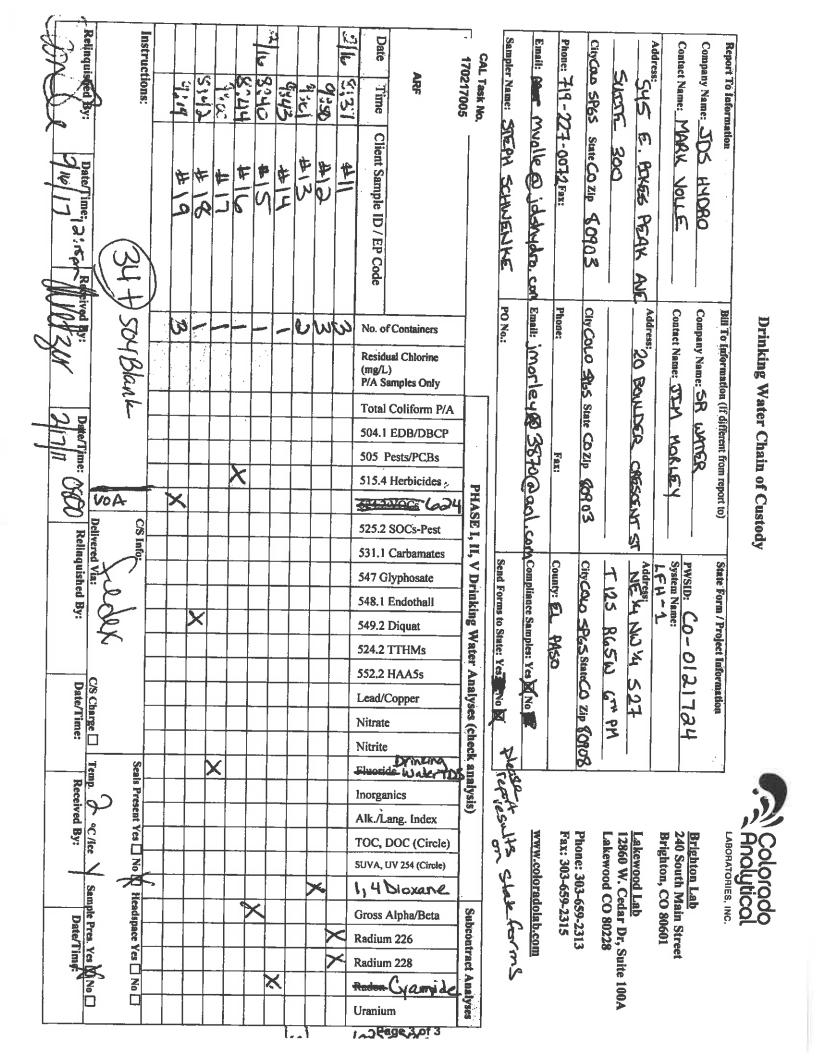


Q		Inor	ganic Chemicals Certified Laboratory ] WOCD - Drinking Water CAS	Inorganic Chemicals Certified Laboratory Report Form WOCD - Drinking Water CAS			Revise	Revised 4/13/2015
Colorado Departarent of Public Flealth red Environment	NI 100	Subn	nit Online at http://www	Submit Online at http://www.wqcdcompliance.com/login	E			IOC
	Section I (Supplies	Section I (Sumplied or Completed by Public Water Syst	: Water System)	Section II (Sumlie	Section II (Sumplied or Completed hy Certified I aboratory)	stified Lab	matory	
	Public	<b>Public Water System Information</b>	tion	Certifi	Certified Laboratory Information	mation	11 100 10	
PWSID#: CO-0121724	-0121724			Laboratory ID: CO 0015				
System Name: LFH-1	LFH-1			Laboratory Name: Colorado Analytical Laboratory	alytical Laboratory			
Contact Person	Contact Person: Mark Volle		Phone #:	Contact Person: Customer Service	Phone:	303-659-2313	313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
			Section III (Supplied or Compl	(Supplied or Completed by Public Water System)				
Sample Date: 2/16/17		lector: Stephanie Schwe	Collector: Stephanie Schwe Facility ID (On Schedule):	Sample F	Sample Pt ID (On Schedule):			
Tak Daries			tion IV Inorganic Chemicals (C	Section IV Inorganic Chemicals (Completed by Certified Laboratory)				
Date	t an Analysis Date	Lao Sampie II)	Analyte Name	CAS No	Analytical Method	MCL.	Lab MRL.	Result
2/17/17	2/22/17	170217005-01A	Antimony	7740-36-0	or	0.006	0.001	BD1.
2/17/17	2/22/17	170217005-01A	Arsenic	7440-38-2	EPA 200.8 0	0.01	0.001	0.002
2/1/1/2	2/22/17	170217005-01A	Barium	7440-39-3	EPA 200.8	2	0.001	0.015
11/1/1/2	2/22/17	170217005-01A	Beryllium	7440-41-7	EPA 200.8 0.	0.004	0.001	BDL
21/1/1/2	2/22/17	170217005-01A	Cadmium	7440-43-9	EPA 200.8 0.	0.005	0.001	BDL
1111.172	2/22/17	170217005-01A	Chromium	7440-47-3	EPA 200.8 (	0.1	0.001	0.001
2/1/1/2	2/22/17	170217005-01A	Mercury	7439-97-6	EPA 200.8 0.	0.002	0.001	BDL
LV/LV/Z	2/22/17	170217005-01A	Nickel	7440-02-0	EPA 200.8 N	N/A	0.001	0.001
11/1.1/2	2/22/17	170217005-01A	Selenium	7782-49-2	EPA 200.8 0	0.05	0.001	BDL
11/1/17	2/24/17	170217005-01A	Sodium	7440-23-5	EPA 200.7 N	N/A	0.1	142.7
11/11/7	11/77/7	170217005-01A	Thallium	7440-28-0	EPA 200.8 0.	0.002	0.001	BDL

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

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







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

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

L	ab Sam	ple ID	B16917-001	· ·				
Custom	er Sam	iple ID	170217005-	<b>01 - Lfh-1</b> - F	WSID: CO	0121724 - LFH-1		
				sampled or	n 02/16/17 (	@ 0906 by Stephanie Sch	wenke	
				Precision*	Detection		Analysis	
Parameter		Code	Result	+/-	Limit	Method	Date / Time	Analyst
<b>Gross Alpha</b>	1.4	Т	0.0	0.0	1.5	SM 7110 B	3/2/17 @ 0840	LD
	pCl/L	Т	0.0	2.1	2.2	SM 7110 B	3/2/17 @ 0840	LD
Radium-226	pCI/L	Т	0.0	0.2	0.1	SM 7500-Ra B	3/3/17 @ 0825	LD
	pCi/L	Т	0.0	0.8	0.8	EPA Ra-05	3/14/17 @ 1257	JR
Radon	pCi/L	Т	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) = Susspended (R) = Total Residual (PD) = Potentially Dissolved <= Less Than

			Radionuclide	s Certifie	d Laboratory	Radionuclides Certified Laboratory Report Form			Revision	Revision 6/13/2014
			M	QCD - Dri	WQCD - Drinking Water CAS	CAS				(
Colorado Department		43	00 Cherry Cre	ek Drive S	South; Denver	4300 Cherry Creek Drive South; Denver, CO 80246-1530			02	SAD
of Public Health		ł	Fax: (303) 758-	-1398; cdp	he.drinkingw	(303) 758-1398; cdphe.drinkingwater@state.co.us				
		Section I (Supplied or Completed by Public	sblic Water System)	(iii		Section II (Supplied or Completed by Certified Laboratory)	ed or Completed	by Certified 1	Laboratory)	
		Public Water System Information				Certified L	Certified Laboratory Information	nation		
PWS ID: C00121724	21724				Laboratory ID: CO 00008	00008				
System Name: Lfh-1	L.Ab-1				Laboratory Name:	Laboratory Name: Hazen Research, Inc.				
Contact Person:			Phone #:		Contact Person: Jessica Axen	ssica Axen		Phone #: 303-279-4501	-279-4501	
Comments:			Do Samples Need to be	4	Comments:					
			Composited <u>BY THE LAB?</u>							·
			Section I	II (Supplied	or Completed by	Section III (Supplied or Completed by Public Water System)				
Sample Date: 02/16/2017	02/16/2017	Collector: Stephanie Schwenke Facility ID (On Schedule):	Facility ID (On	Schedule):	Sam	Sample Pt ID (On Schedule):				
			Section IV Radi	onuclides (Su	applied or Comple	Section IV Radionuclides (Supplied or Completed by Certified Laboratory)	lory)			
Lab Receipt Date	Lab Receipt Lab Analysis Date Date	s Lab Sample ID	Analy	Analyte Name (Code)	ode)	CAS No.	Analytical Method	MCL	Lab MRL	Result
610021/00	03/02/2017	B16017-001	Gross Alpha Including Uranium (4002)	acluding Urs	anium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±0.0)
110711100			Combin	Combined Uranium (4006)	(900+)	7440-61-1	D2907-97	30 ug/L		
02/17/2017	03/03/2017	B16917-001	Radi	Radium -226 (4020)	20)	13982-63-3	SM 7500-Ra B	N/A	0.1	0.0(±0.2)
02/17/2017	03/14/2017	B16917-001	Radi	Radium -228 (4030)	30)	15262-20-1	EPA Ra-05	N/A	0.8	0.0(±0.8)
02/17/2017	03/02/2017	B16917-001	Gro	Gross Beta (4100)	(0)	12587-47-2	SM 7110 B	50 pCi/L*	2.2	0.0(±2.1)
			Total Dis	Total Dissolved Solids (1930)	ls (1930)		EPA 160.3	N/A		
*The MCL ft	or Gross Beta	*The MCL for Gross Beta Particle Activity is 4 mrem/year. Si	Ir. Since there is	no simple co	onversion betwee	nce there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.	EPA considers 2	50 pCi/L to b	be the level	of concern.
			Section V (	Section V Calculated Values	alues					
		N/N	Gross Alpha Excluding Uranium (4000)	xcluding Un	anium (4000)	Calculated Value	alue	15 pCi/L	N/A	
		14 F.F.	Combined Radium {-226 & -228} (4010)	ium {-226 &	:-228} (4010)	Calculated Value	alue	5 pCi/L	N/A	
Z	NT: Not Tested					ug/L: Micrograms per Liter	as per Liter			5
Ľ	ib MRL: Labo	Lab MRL: Laboratory Minimum Reporting Level				pCi/L: Picocuries per Liter	s per Liter			
BI	DL: Below La	BDL: Below Laboratory MRL. A less than sign (<)	n (<) may also be used	e used		MCL: Maximum Contaminant Level	Contaminant L	evel		

MCL: Maximum Contaminant Level

Drinking	
Water	
Chain	
of Cust	
ody	

	Construction of the second of the second		
Report To Information	Bill To Information (If different from report to)	State Form / Project Information	Colorado Analytical
Company Name: <u>Colorado Analytical</u>	Company Name: Same As Report To	PWSID: C00121724	Brighton Lab
Contact Name: Stuart Nielson	Contact Name:	System Name: Lfn-1	240 South Main Street Brighton, CO 80601
Address: <u>240 S. Main St.</u>	Address:	System Address: Ne 1/4 Nw 1/4 S27	Lakewood Lab 12860 W. Cedar Dr. Suite 101
City: Brighton State: CO Zip: 80601	City: State: Zip:	T125 R65w 6th Pm City: Colorado Spgs State: CO Zip: 80908	Lakewood CO 80228
Phone:303-659-2313 Fax:303-659-2315	Phone: Fax:	County: El Paso	Phone: 303-659-2313 Fax: 303-659-2315
Email: stuartnielson@coloradolab.com	Email:	Compliance Samples: Yes 🕅 No 🗌	www.coloradolab.com
Sampler Name: Stephanie Schwenke	PO No.:	Send Forms to State: Yes 🗌 No 🕅	
	PHASE I, I	PHASE I, II, V Drinking Water Analyses (check analysis)	nalysis) Subcontract Analyses

<	Relinquished By:	1.8	-	Instruct						02/16/17	Date		Task	
	shed By:			ions:Pleas					LF	0906	Time		Task Number	
l	4			e print on s					Mas		Client S			
011	Date/Time:			Instructions: Please print on state forms but do not submit to CDPHE. Thanks!					BOTTLES	170217005-01 LFH-1	Client Sample ID / EP Code			
2	6 Rec			do not sub				1	S		IP Code			
	Received By:			mit to C						6	No. o	f Containers		
				DPHE. Th							(mg/l	ual Chlorino _) iamples Only		
				anks!							Tota	Coliform P/	Ά	
											504.	EDB/DBCI	<b>P</b>	
	Date/Time:										505	Pests/PCBs		
	Time										515.4	4 Herbicides		PH
											524.2	2 VOCs		ASE
		Deli		C/S Info:							525.2	2 SOCs-Pest		I, E
	Reli	Delivered Via:		Info;							531.	I Carbamates	;	LV.
	nquis	Via:									547 (	Glyphosate		Dria
	Relinquished By:	F	5								548.	I Endothall		PHASE I, II, V Drinking
	ly:	<b>X3</b> 7	F								549.2	2 Diquat		
		S	tage								52.4.2	2 TTHMs		uter .
			Ç								552.2	2 HAA5s		Anal
	Date	C/S Charge									Lead	/Copper		lyses
	Date/Time:	narge		i							Nitra	te		
			$\cap$								Nitri	te		eck i
		Temp.	100	Seal							Fluo	ride		Water Analyses (check analysis)
	RER		R	Seals Present	Þ						Inorg	anics		ysis)
	A.	°C /Ice	6		Ċ						Alk./	Lang. Index		
		• 8	T	Yes 🗆							TOC	, DOC (Circl	e)	
	Y	Sam	2	No							SUVA	, UV 254 (Circle	)	
	0	ple Ph	3	포										
	Date/Time:	Sample Pres. Yes 🔲 No 🗌	٢	Headspace						$\boxtimes$	Gros	s Alpha/Beta		Sabe
	Dat 7/	Ű	##	ace Yes						$\boxtimes$	Radi	um 226		ontra
	e/Tim	No.	HAZE		¢					$\boxtimes$	Radi	um 228		let A
	Date/Time: 43		12	No No	6					$\boxtimes$	Rado	n		Subcontract Analyses
	0			7							Uran	ium		ž

FEDEX



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

TASK NO: 170217005

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

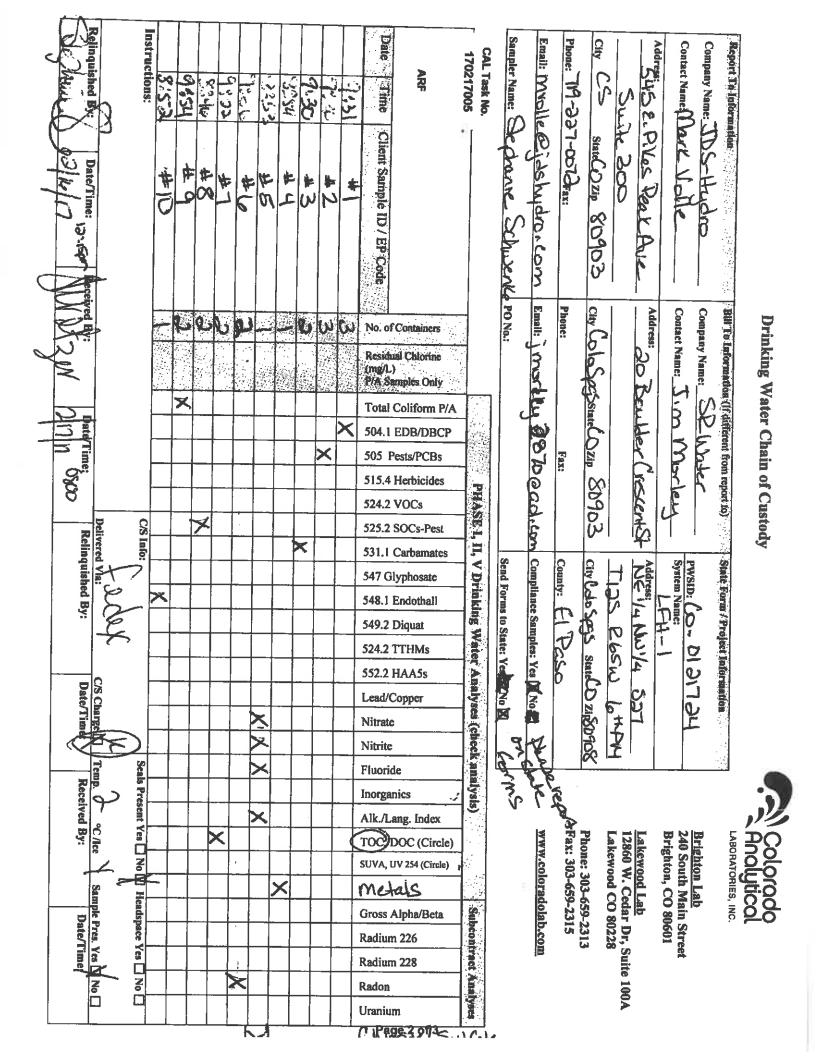
Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	155.5 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Calcium as CaCO3	6.3 mg/L	SM 3111-B	0.1	2/24/17	MBN
Carbonate	4.0 mg/L as CaCO3	SM 2320-B	0.1	2/20/17	VDB
Langelier Index	-0.43 units	SM 2330-B		2/24/17	SAN
pH	8.44 units	SM 4500-H-B	0.01	2/17/17	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	456 mg/L	SM 2540-C	5	2/23/17	ISG

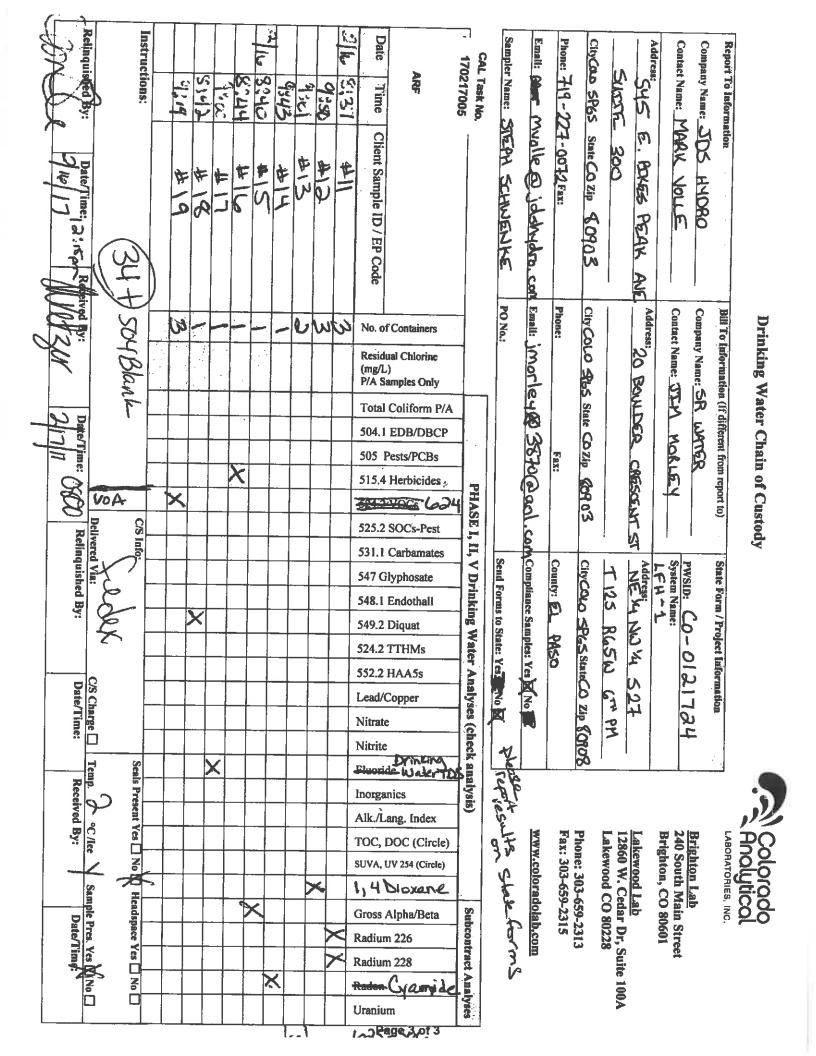
Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 3

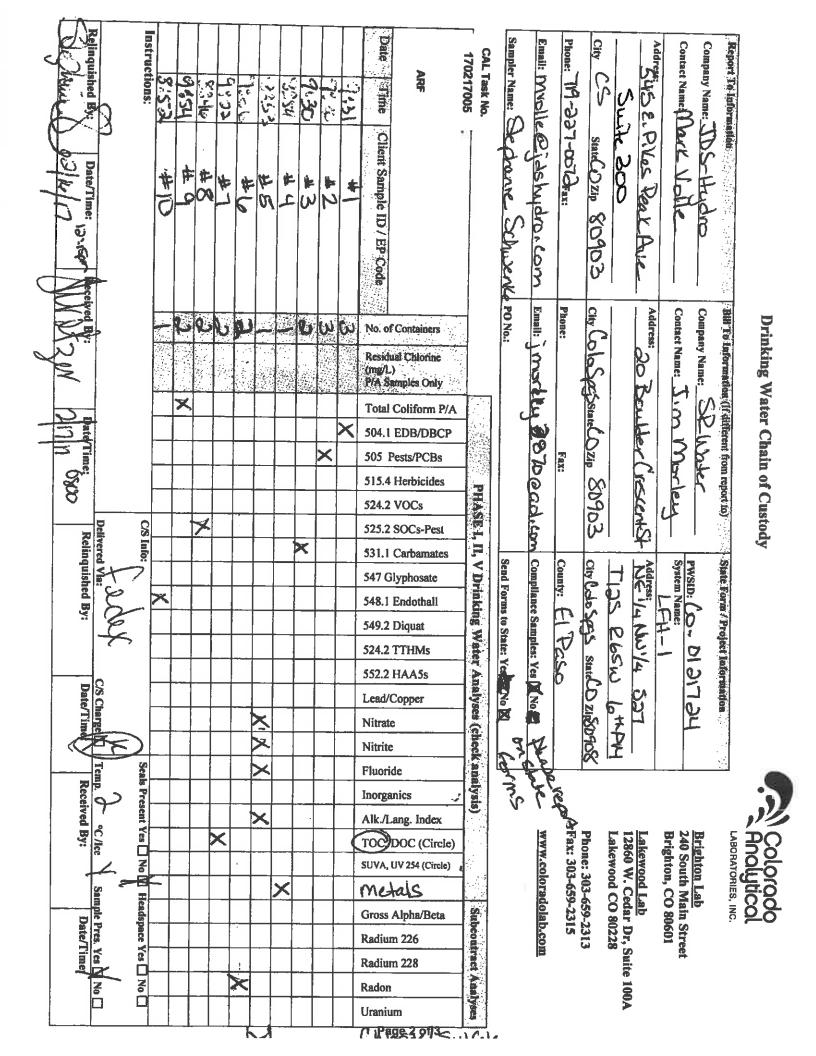


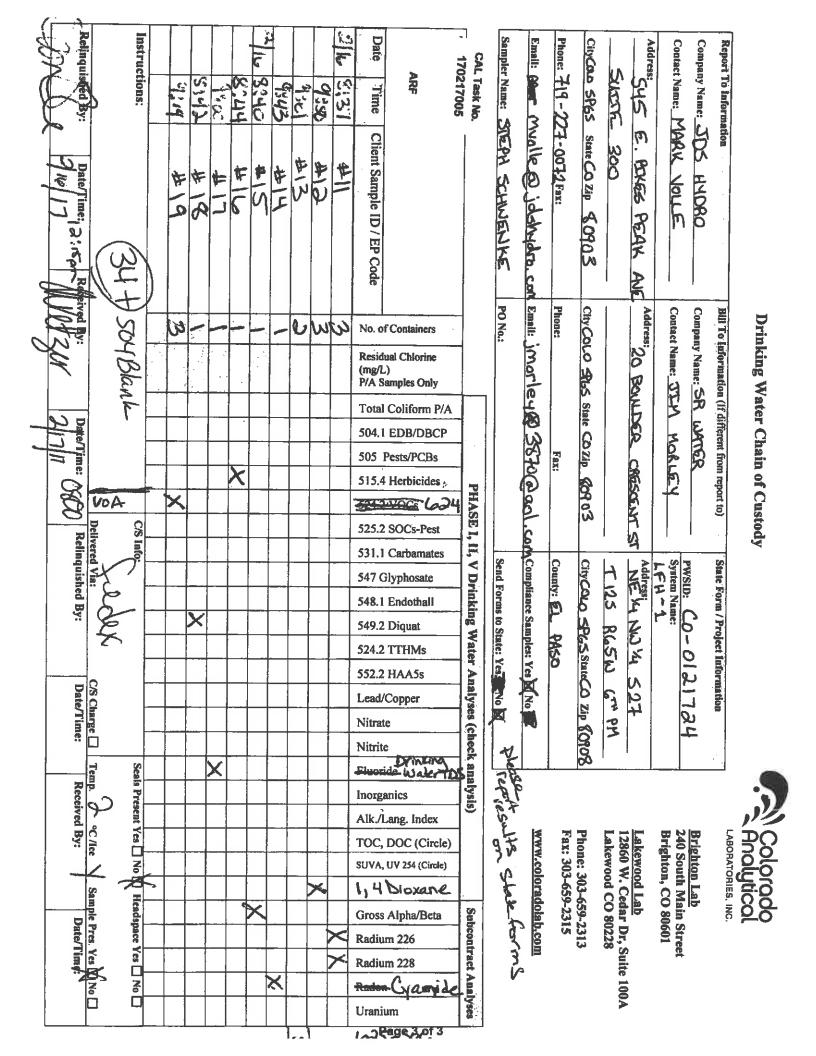


Collarado Departorent of Pedite (fealth and Eaviconment	Nitrate and Nitrite Submit Onlin	Vitrite as N WQC Online at 1	Vitrogen C JD - Drink http://wwv	e as Nitrogen Certified Laboral WQCD - Drinking Water CAS ie at http://www.wqcdcomplian	e as Nitrogen Certified Laboratory Report Form WQCD - Drinking Water CAS ie at http://www.wqcdcompliance.com/login	port Form /login			Revised	Revised 4/13/2015 NOX
Section I (Sumplied or Completed by Public Water System)	ed by Public Wa	ter System)			Section II (Su	Section II (Supplied or Completed by Certified Laboratory)	pleted by Cer	tified Laho	Inatorv	
Public Water System Information	an Information					Certified Laboratory Information	atory Inform	nation		
PWSID#: CO-0121724				Laborator	Laboratory ID: CO 0015					
System Name: LFH-1				Laborator	Laboratory Name: Colorado Analytical Laboratory	do Analytical Li	aboratory			
Contact Person: Mark Volle	Ph	Phone #: 719-	719-227-0072	Contact P	Contact Person: Customer Service	Service	Phone: 3	Phone: 303-659-2313	13	
Comments:				Comments:	rs:					
Section III (Supplied or Completed by Public Water System)	ublic Water Syst	tem)		Secti	Section IV (Supplied or Completed by Certified Laboratory)	or Completed b	y Certified L	aboratory)		
Sample Collector Facility ID On Schedule Date	Sample Pt II) ( On Schedule	Confirmation?	Lab Receipt Date	Lab Analysis Date	I aboratory Sample ID #	Analyte	Analytical Method	MCL )	Lab MRL. (mg/L)	Result (me/L)
2/16/17 cphanic Schwenk			2/17/17	2/17/17	170217005-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL
2/16/17 cephanie Schwenk			2/17/17	2/17/17	170217005-01	Nitrite Nitrogen	EPA 300.0	-	0.1	BDL

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

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





Colonado Deparement of Pasific Interdat ad Explorit Interdat Section I (Supplied or Public Wa PWSID#: CO-0121724 System Name: LFH-1 System Name: LFH-1 Contact Person: Mark Volle	Subn						
Public Wa Public Wa		out Unune at attp://www	Submit Online at http://www.wqcdcompliance.com/login	ців		VOC	VOC/SOC
Volle	Section I (Supplied or Completed by Public Water System) Public Water System Information	: Water System) fian	Section JI (Supp	Section JI (Supplied or Completed by Certified Laboratory) Contified Laboratory Information	by Certified L	aboratory)	
Volle			Laboratory ID: CO 00063				
Volle			Laboratory Name: Colorado Analytical Laboratory	Analytical Laborato	, KIK		
		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	-2313	
		Do Samples Need to be Composited BY THE LAB?	Comments:				
		Section V (Supplied or Cornul	(Supplied or Completed by Public Water System)				
Coll	Collector: Stephanie Schwenk Facil	wenk Facility ID (On Schedule):	Sample	Sample Pt ID (On Schedule):			
	Section VJ Sy	nthetic Organic Chemicals (Sup	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	I Laboratory)			
Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (up/L)	Lab MRL (ug/L)	Result (ue/L.)
2/24/17	170217005-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
3/1/17	170217005-01G	2,4,-D	94-75-7	EPA 515.4	70	0.1	BDL
3/1/17	170217005-01G	2,4.5-TP	93-72-1	EPA 515.4	50	0.2	BDL
2/23/17	170217005-01H	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL.
11/7/2	110-200/120/1	Aldicarb	116-06-3	EPA 531.1	N/A	9.6	BDL
3/2/17	170217005-011	Aldicarh suffixide	1040-00-4	EPA 531.1	A/N		BDL
2/23/17	1170217005-0111	Attazine	1912-24-9	EPA 525.2	3	0.1	BDL
2/23/17	170217005-01H	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDI.
3/2/17	170217005-011	Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL
2/24/17	170217005-01F	Chlordane	57-74-9	EPA 505	2	0.2	BDI,
3/1/7	170217005-01G	Dalapon	75-99-0	EPA 515.4	200	1	BDL
2/23/17	170217005-0111	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL
2/23/17	170217005-01H	Di(2-cthylhexyl)phthalate	117-81-7	EPA 525.2	6	0.6	BDI.
3/1/17	170217005-01G	Dinosch	85-85-7	EPA 515.4	7	0.2	BDL
2/23/17	170217005-01K	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
2/23/17	170217005-01J	Endothall	145-73-3	FPA 548.1	100	6	BDL
212411	110-500/170/1	Endrin	72-20-8	EPA 505	2	0.01	BDL
2/24/17	170217005-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDI.
2/23/17	170217005-01H	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
2/24/17	170217005-01F	Heptachlor epoxide	1024-57-3	EPA 505	0.2	0.02	BDL

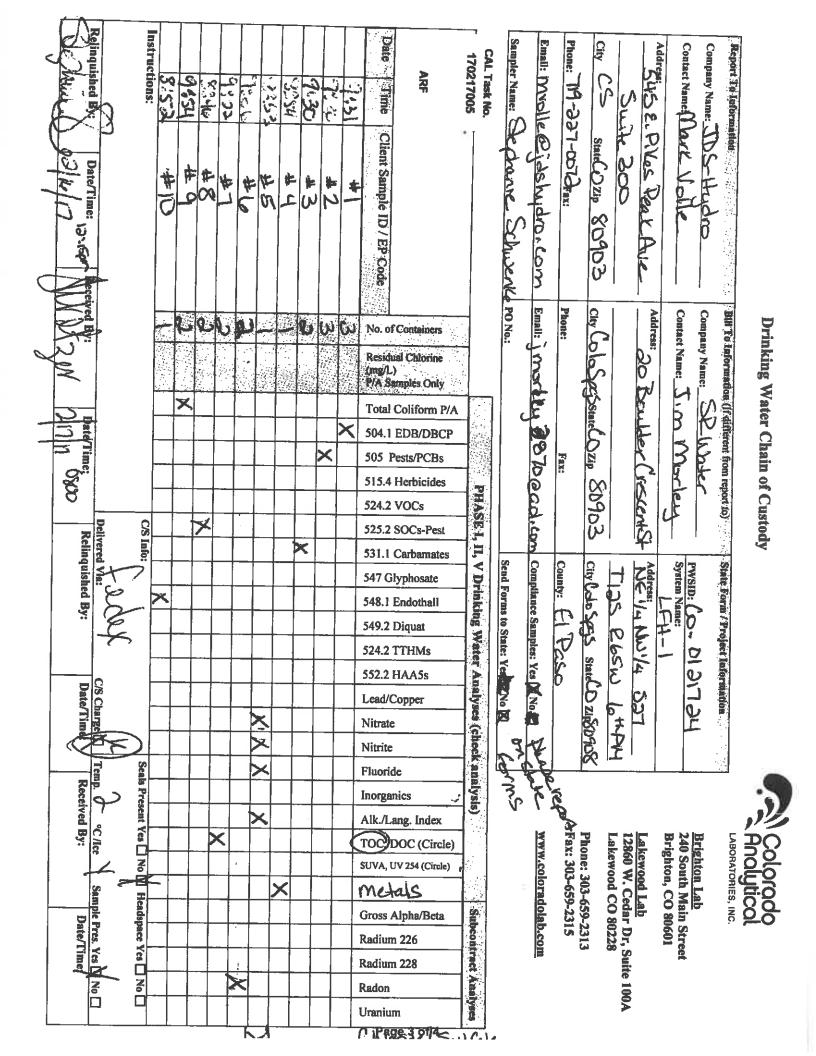
Page 1 of 4

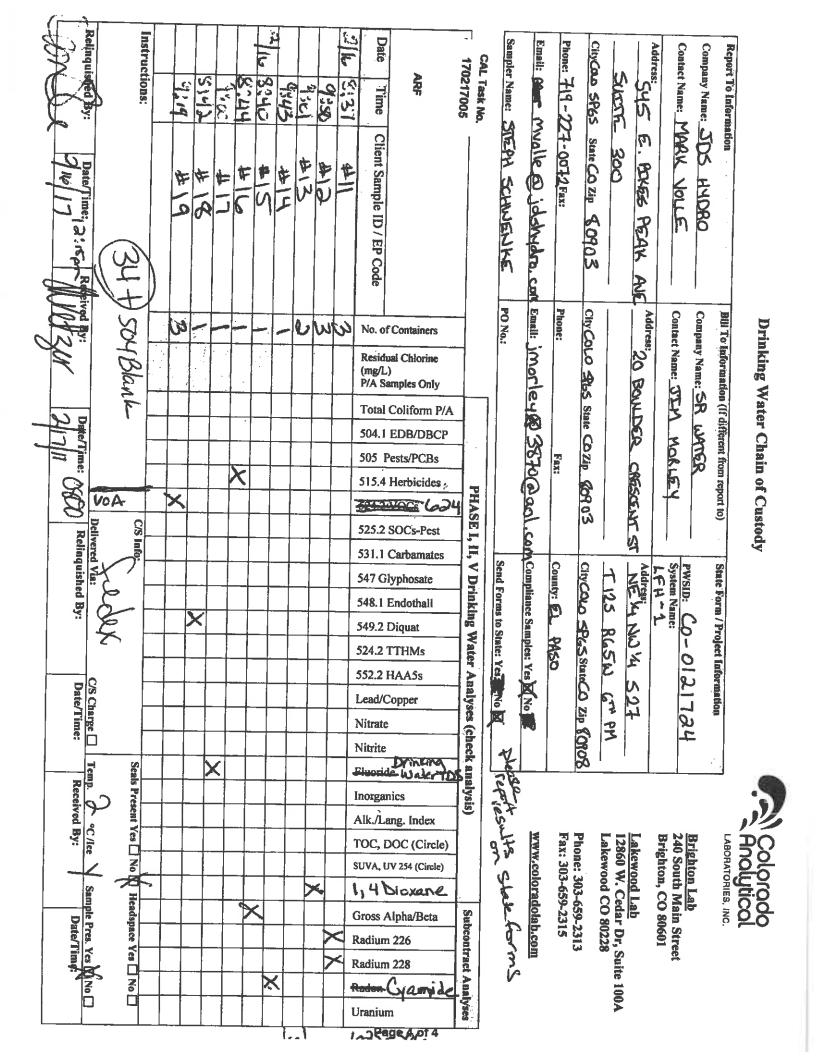
			Result	('T/8n)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI.	BDI,
				3										
			Lab MRL	('T/Bn)	0.1	0.1	0.02	0.1	-	0.04	0.1	0.1	0.07	
			MCL	(rt/@n)	1	50	0.2	40	200	-	500	0.5	4	9
	Sample Pt ID (On Schedule):	aboratory)	Analytical	Method	EPA 505	EPA 505	EPA 505	EPA 505	I:PA 531.1	EPA 515.4	EPA 515.4	EPA 505	EPA 525.2	EPA 505
olic Water System)	Sample Pt	impleted by Certified Li	CAS No.		118-74-1	77-47-4	58-89-9	72-43-5	23135-22-0	87-86-5	1918-02-1	1336-36-3	122-34-9	8001-35-2
Section V (Supplied or Completed by Public Water System)	chwenk Facility ID (On Schedule):	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	Analyte Name		Hexachlorobenzene	Hexachlwrocyclopentadienc	Lindane	Methoxychlor	Oxamyl	Pentachlorophenol	Picloram	Polychlorinated hiphenyl's	Simazine	Toxaphene
	Collector: Stephanie Schwenk Facil	Section VI S	Lab Sample ID		170217005-01F	170217005-01F	170217005-01F	170217005-01F	170217005-011	170217005-01G	170217005-01G	170217005-01F	170217005-01H	170217005-01F
21724	6/17	and the second se	Lab Analysis	Date	2/24/17	2/24/17	2/24/17	2/24/17	3/2/17	3/1/17	3/1/17	2/24/17	2/23/17	2/24/17
PWSID#: CO-0121724	Sample Date: 2/16/17		Lab Receipt	Date	2/17/17	2/17/17	2/17/17	2/17/17	2/17/17	2/1/17	2/17/17	2/17/17	2/17/17	2/17/17

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

170217005-01

212. 3/8/17







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

Lab Number: 170217005-01

## **Analytical Results**

TASK NO: 170217005

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

Customer Sample ID \_ LFH-1 Sample Date/Time: 2/16/17 Date Received: 2/17/17 Date Reported: 3/6/17 Matrix: Water - Drinking

Lab Number:	1/021/003-01				
Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	5.8 mg/L	EPA 300.0	0.1 mg/L		ШG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	2/24/17	VDB
E-Coli	< 1 mpn/100ml	Colilert	1 mpn/100mi	2/18/17	VDB
Sulfate	142.1 mg/L	EPA 300.0	0.1 mg/L	2/17/17	ЦG
Total Coliform	93 mpn/100ml	Colliert	1 mpn/100mi	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
<u>Total</u>					
Aluminum	0.053 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
Соррег	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	1.6 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

< 0.0002 mg/L

0.004 mg/L

#### Abbreviations/ References:

Uranium

Zinc

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

2/22/17

2/22/17

DATA APPROVED FOR RELEASE BY

0.0002 mg/L

0.001 mg/L

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 4

EPA 200.8

EPA 200.8

TCD

TCD



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

# **Analytical Results**

TASK NO: 170217005

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

Client P	o.: 170217005 O: ct: LFH-1 CO-012	21724		Received: 2/17/ Reported: 3/6/1 Matrix: Wate	7	
-	Sample ID LFH-1 Date/Time: 2/16/17 ab Number: 1702170	005-01				
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

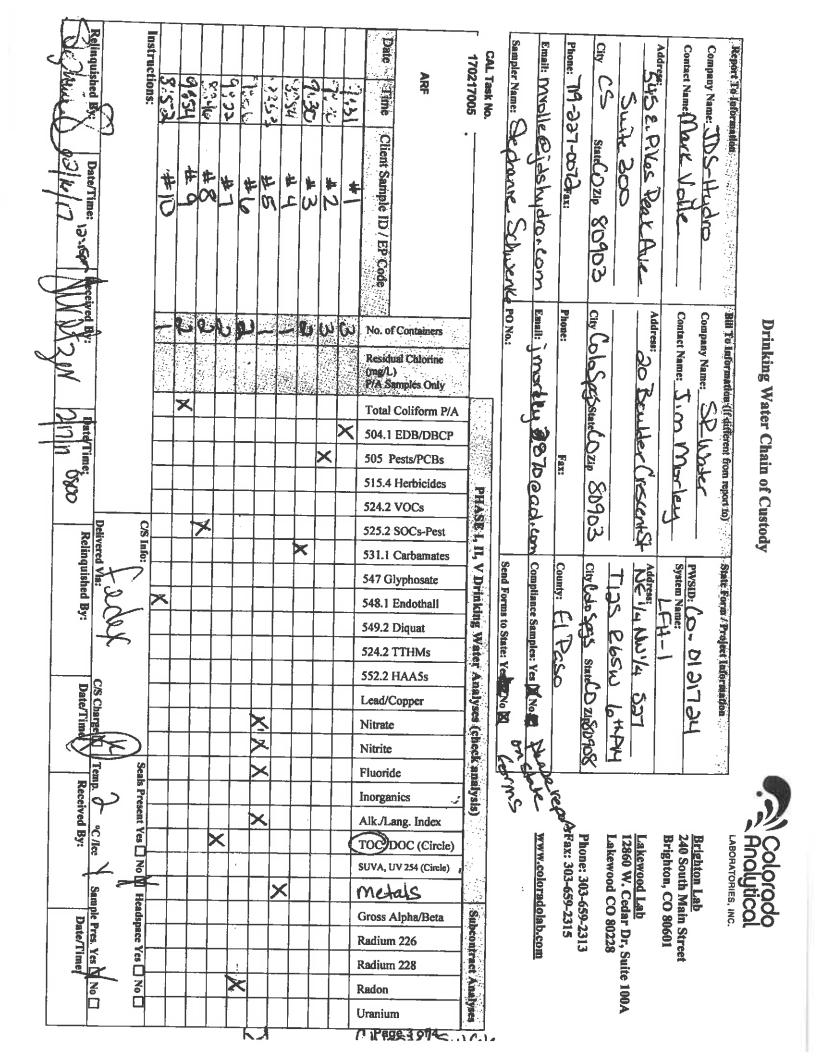
Abbreviations/ References:

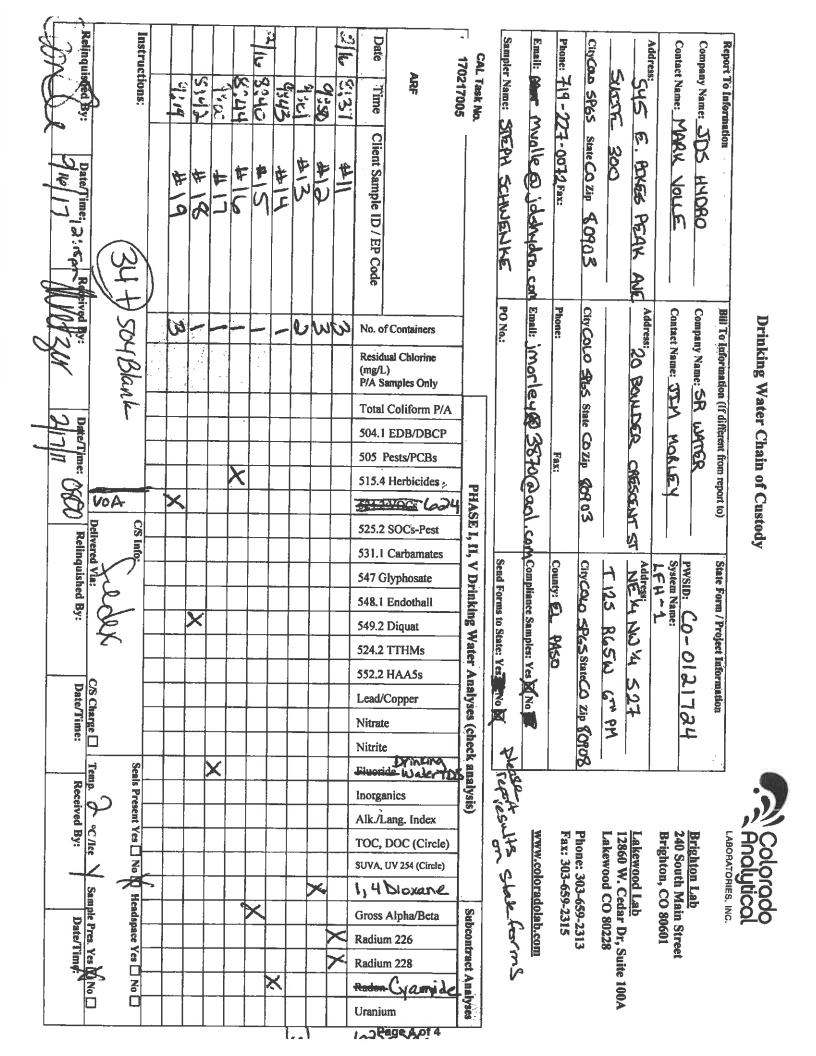
ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 2 of 4

170217005 2/2







Billings, MT 800.735.4489 • Casper, WY 888.235.0515 College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

### **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 R	eceive Date	Matrix	Test
C17020566-001	170217005-01 LFH-1	02/16/17 0:00	02/21/17	Drinking Water	Azeotropic Distilation 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:

20

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

<b>ENERGY</b>	Trust our People. Trust our Data.	Billings, MT 800.735.4489 • Casper, WY 888.235.0515
1 0413 11-6° 112 \$	www.energylab.com	College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711
CLIENT:	Colorado Analytical Laboratories Inc	
Project:	170217005 LFH-1 CO-0121724	<b>Report Date: 03/02/17</b>

**CASE NARRATIVE** 

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

Work Order:

C17020566



#### LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch **Client:** Colorado Analytical Laboratories Inc Report Date: 03/02/17 Project: 170217005 LFH-1 CO-0121724 Collection Date: 02/16/17 Lab ID: C17020566-001 DateReceived: 02/21/17 Client Sample ID: 170217005-01 LFH-1 Matrix: Drinking Water MCL/ Analyses **Result Units** Qualifiers RL QCL Method Analysis Date / By VOCS BY AZEOTROPIC DISTILLATION 1.4-Dioxane ND ug/L 1.0 SW8260M 02/27/17 11:16 / 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. **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 F624 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 Bromobenzana ND ug/L 1.0 E624 02/24/17 19:19 / ell-b Bromochloromethane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Bromodichloromethane E624 ND ug/L 1.0 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 E624 1.0 02/24/17 19:19 / eli-b Carbon disulfide ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Carbon tetrachloride ug/L ND E624 1.0 02/24/17 19:19 / eli-b Chlorobenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Chlorodibromomethane ND 1.0 ug/L E624 02/24/17 19:19 / eli-b Chloroethane ND ug/L 1.0 02/24/17 19:19 / ell-b E624 2-Chloroethyl vinvl ether ug/L ND 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 ug/L ND 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 ug/L ND 1.0 E624 02/24/17 19:19 / ell-b 1,2-Dichlorobenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1.3-Dichlorobenzene ug/L E624 ND 1.0 02/24/17 19:19 / eli-b 1.4-Dichlorobenzene ND ug/L 1.0 E624 02/24/17 19:19 / eli-b Dichlorodifluoromethane ug/L E624 ND 10 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 ug/L 1.0 ND 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 / ell-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 02/24/17 19:19 / eli-b ND ug/L 1.0 E624 2,2-Dichloropropane ND ug/L 1.0 E624 02/24/17 19:19 / eli-b 1,1-Dichloropropene ND ug/L E624 1.0 02/24/17 19:19 / eli-b cis-1,3-Dichloropropene ND ug/L E624 1.0 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 Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

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

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

Analyses	Result	Units	Qualifiers	RL.	MCL/ QCL Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS		um/i		2.0	5604	02/24/17 19:19 / eli-b
Methyl tert-butyl ether (MTBE) Methyl ethyl ketone		ug/L ug/L		2.0	E624 E624	
		-		20		02/24/17 19:19 / eli-b
Methyl isobutyl ketone		ug/L		10	E624	02/24/17 19:19 / eli-b
Methylene chloride		ug/L		1.0	E624	02/24/17 19:19 / eli-b
Naphthalene		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		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 / ell-b
Toluene		•		1.0	E624	02/24/17 19:19 / ell-b
Trichioroethene		ug/L		1.0	E624	02/24/17 19:19 / slī-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
Xvienes, Total	ND	ug/L		1.0	E624	02/24/17 19:19 / eli-b
Surr: 1,2-Dichloroethane-d4		%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		%REC		80-123	E624	02/24/17 19:19 / eli-b
SEMI-VOLATILE ORGANIC COMPOU	JNDS					
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		ug/L		10	E625	02/28/17 13:13 / eli-b
Benzo(a)anthracene		ug/L		10	E625	02/27/17 19:27 / eli-b
Berizo(a)pyrene	ND	ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(b)fluoranthene		ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(g,h,i)perylene		ug/L		10	E625	02/27/17 19:27 / eli-b
Benzo(k)fluoranthene		ug/L		10	E625	02/27/17 19:27 / eli-b
4-Bromophenyl phenyl ether		ug/L		10	E625	02/27/17 19:27 / eli-b
Butylbenzyiphthalate		ug/L		10	E625	02/27/17 19:27 / eli-b
4-Chloro-3-methylphenoi		ug/L		10	E625	02/27/17 19:27 / eli-b
bis(-2-chloroethoxy)Methane	ND	-		10	E625	02/27/17 19:27 / eli-b
bis(-2-chloroethyl)Ether		-		10	E625	
bis(-2-chloroisopropyi)Ether	ND	-				02/27/17 19:27 / eli-b
	ND	+		10	E625	02/27/17 19:27 / eli-b
2-Chloronaphthaiene	ND			10	E625	02/27/17 19:27 / eli-b
2-Chlorophenol	ND	ug/L		10	E625	02/27/17 19:27 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality contro! limit. MCL - Maximum contaminant level.



#### 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 DateReceived: 02/21/17 Matrix: Drinking Water

			_	-	MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL M	ethod	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS							
4-Chlorophenyl phenyl ether		ug/L		10	F	625	02/27/17 19:27 / eli-b
Chrysene		ug/L		10	-	825	02/27/17 19:27 / eli-b
Diethyl phthalate	ND	ug/L		10	_	625	02/27/17 19:27 / eli-b
Di-n-butyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
1.2-Dichlorobenzene	ND	ug/L		10		625	02/27/17 19:27 / eli-b
1,3-Dichlorobenzene	ND	-		10		825	02/27/17 19:27 / ell-b
1.4-Dichlorobenzene	ND	-		10		625	02/27/17 19:27 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10		625 625	02/27/17 19:27 / eli-b
	ND	-		10		625 625	02/27/17 19:27 / ell-b
2,4-Dichlorophenol		ug/L			_		
Dimethyl phthalate	ND	ug/L		10		625	02/27/17 19:27 / eli-b
Di-n-octyl phthalate	ND	ug/L		10		625 805	02/27/17 19:27 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10		625	02/27/17 19:27 / eli-b
2,4-Dimethylphenol	ND	ug/L		10		625	02/27/17 19:27 / eli-b
4,6-Dinitro-2-methylphenol	ND	•		50		625	02/27/17 19:27 / eli-b
2,4-Dinitrophenol	ND	ug/L		50		325	02/27/17 19:27 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10		525	02/27/17 19:27 / ell-b
2,6-Dinitrotoluene	ND	ug/L		10	_	525	02/27/17 19:27 / eli-b
ois(2-ethylhexy/)Phthalate	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
Fluoranthene	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
Fluorene	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
Hexachlorobenzene	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
-lexachlorobutadiene	ND	ug/L		10	E	62 <del>5</del>	02/27/17 19:27 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10	Ef	325	02/27/17 19:27 / eli-b
Hexachloroethane	ND	ug/L		10	E	625	02/27/17 19:27 / eli-b
ndeno(1,2,3-cd)pyrene	ND	-		10	E	525	02/27/17 19:27 / eli-b
sophorone	ND	ug/L		10	E	325	02/27/17 19:27 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10	E	<del>3</del> 25	02/27/17 19:27 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10		525	02/27/17 19:27 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10		325	02/27/17 19:27 / eli-b
2-Nitrophenol	ND	ug/L		10		325	02/27/17 19:27 / elí-b
4-Nitrophenol	ND	ug/L		50		525	02/27/17 19:27 / eli-b
Naphthalene	ND	ug/L		10		325	02/27/17 19:27 / eli-b
Nitrobenzene	ND	ug/L		10		325	02/27/17 19:27 / eli-b
Pentachiorophenol	ND	ug/L		50		525	02/27/17 19:27 / eli-b
Phenanthrene		_		10		525 525	02/27/17 19:27 / eli-b
-nenanmiene Phenol		ug/L		10		525 525	02/27/17 19:27 / eli-b
		ug/L		10		525	02/27/17 19:27 / eli-b
		ug/L					
		ug/L		10		325 205	02/27/17 19:27 / eli-b
2,4,6-Trichlorophenol		ug/L		10		325	02/27/17 19:27 / eli-b
Surr: 2-Fluorobiphenyi		%REC		28-107		525 Soc	02/27/17 19:27 / eli-b
Surr: 2-Fluorophenol		%REC		20-56		625	02/27/17 19:27 / eli-b
Surr: Nitrobenzene-d5		%REC		32-94		325	02/27/17 19:27 / eli-b
Surr: Phenol-d5	33.0	%REC		19-45	E	625	02/27/17 19:27 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



#### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	03/02/17
Project:	170217005 LFH-1 CO-0121724	Collection Date:	02/16/17
Lab ID:	C17020566-001	DateReceived:	02/21/17
<b>Client Sample ID:</b>	170217005-01 LFH-1	Matrix:	Drinking Water

			MCLI	
Analyses	<b>Result Units</b>	Qualifiers RL	QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS			
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.

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



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							An	alytical Run:	R275391
Lab ID:	ccv022417	Continuing Ca	libration \	erification Standa	rd				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	e	46.4	ug/L	20	93	70	130			
Benzene		4.80	ug/L	0.50	96	70	130			
Bromobenz		4,56	ug/L	0.50	91	70	130			
Bromochlo		4,64	ug/L	0.50	93	70	130			
Bromodich	loromethane	4.08	ug/L	0.50	82	70	130			
Bromoform	I	4.08	ug/L	0.50	82	70	130			
Bromometh		5.56	ug/L	0.50	111	70	130			
Carbon dis		4.80	ug/L	0.50	96	70	130			
Carbon tetr		3.70	ug/L	0.50	74	70	130			
Chiorobenz		4.80	ug/L	0.50	96	70	130			
	momethane	4.32	ug/L	0.50	86	70	130			
Chloroetha		4.88	ug/L	0.50	98	70	130			
	nyl vinyi ether	3.07	ug/L	1.0	61	70	130			S
Chloroform		4.36	ug/L	0.50	87	70	130			
Chlorometh		4.60	ug/L	0.50	92	70	130			
2-Chlorotol		4.84	ug/L	0.50	97	70	130			
4-Chiorotol		4.80	ug/L	0.50	96	70	130			
1,2-Dibrom		4.40	ug/L	0.50	88	70	130			
Dibromome		4.60	ug/L	0.50	92	70	130			
1,2-Dichlor		4.72	ug/L	0.50	94	70	130			
1,3-Dichlor		4.84	ug/L	0.50	97	70	130			
1,4-Dichlord		4.76	ug/L	0.50	95	70	130			
	uoromethane	3.87	ug/L	0.50	77	70	130			
1,1-Dichlord		4.40	ug/L	0.50	88	70	130			
1,2-Dichlord		3.78	ug/L	0.50	76	70	130			
1,1-Dichlord cis-1,2-Dich		4.20	ug/L	0.50	84	70	130			
	ichioroethene	4.72 4.64	ug/L	0.50 0. <del>5</del> 0	94 93	70	130			
1,2-Dichlord		5.20	ug/L	0.50	104	70	130			
1,3-Dichlord		4.64	ug/L ug/L	0.50	93	70 70	130 130			
2,2-Dichlord		3.92	ug/L	0.50	78	70	130			
1,1-Dichlore		4.40	ug/L	0.50	88	70	130			
	nloropropene	4.56	ug/L	0.50	91	70	130			
	ichloropropene	4.04	ug/L	0.50	81	70	130			
Ethylbenzer		4.84	ug/L	0.50	97	70	130			
-	butyl ether (MTBE)	3.68	ug/L	0.50	74	70	130			
Methyl ethy		42.8	ug/L	20	86	70	130			
Methyl isob		45.6	ug/L	20	91	70	130			
Methylene o		5.44	ug/L	0.50	109	70	130			
Naphthalen		4.88	ug/L	0.50	98	70	130			
					_					

**Qualifiers:** 

RL - Analyte 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

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							Analytical Run: R275391
Lab ID: ccv022417	Continuing Ca	libration Ver	ification Standa	ard			02/24/17 09:51
Styrene	4.76	ug/L	0.50	95	70	130	
Tetrachloroethene	4.60	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:  cs022417	Laboratory Co	-				A.I_170224A	02/24/17 10:31
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	
Bromodichioromethane	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	
Chiorobenzene	4.92	u <b>g</b> /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 Chloroform	2.74	ug/L	1.0	55 88	36	144	
Chloroform	4.40	ug/L	0.50	88	68 53	124	
Chloromethane 2-Chlorotoluene	4.64 5.04	ug/L	0.50 0.50	93 101	53 75	14 <del>6</del> 131	
4-Chiorotoluene	4.68	ug/L	0.50	94	75 74	129	
1.2-Dibromoethane	4.66	ug/L	0.50	94 88	7 <del>4</del> 76	129	
,		ug/L					
Dibromomethane	4.76	ug/L	0.50	95	77	125	

**Qualifiers:** 

RL - Analyte 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

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:	R27539
Lab (D: Ics022417	Laboratory Con	trol Sample			Run: 5971/	A.I_170224A		02/24	/17 10:3
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	<del>9</del> 1	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	135			
1,1,1-Trichloroethane	3.73	ug/L	0.50	30 75	63	120			
1,1,2-Trichloroethane	4.68		0.50	94					
Trichlorofluoromethane		ug/L	0.50	94 66	78	124			•
1,2,3-Trichloropropane		ug/L	0.50	81	72	120			S
Vinyl Acetate		ug/L		82	64	138			
Vinyl chloride		ug/L	1.0		31	124			
m+p-Xylenes		ug/L	0.50	102	58	140			
o-Xylene		ug/L	0.50	98	67	139			
		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: bik022417	Method Blank				Run: 5971A	.I_170224A		02/24/	17 11:30
Acetone		ug/L	20						
Acetonitrile	ND	ug/L	20						

#### Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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	RĹ	%REC Low Limit High Li	mit RPD	RPDLimit	Qual
Method: E624						Batch:	R275391
Lab ID: bik022417	Method Blank			Run: 5971A.I_17022	4A	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				
Chieroform	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				
Dichlorodifiuoromethane	ND	ug/L	0.50				
1,1-Dichlorcethane	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-Dichioropropene	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.



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:	R27539
Lab ID:	bik022417	Method Blank				Run: 5971/	A.I_170224A		02/24	/17 11:30
1,1,1,2-Tet	rachloroethane	ND	ug/L	0.50						
1, 1, 2, 2-Tet	rachloroethane	ND	ug/L	0.50						
Toluene		ND	ug/L	0.50						
Trichloroeth	hene	ND	ug/L	0.50						
1, 1, 1-Trichi	loroethane	ND	ug/L	0.50						
1,1,2-Trichi	loroethane	ND	ug/L	0.50						
Trichloroflu	oromethane	ND	ug/L	0.50						
1,2,3-Trichi	loropropane	ND	ug/L	0.50						
Vinyl Aceta	ite	ND	ug/L	1.0						
Vinyl chlorid	de	ND	ug/L	0.40						
m+p-Xylene	es	ND	ug/L	0.50						
o-Xylene		ND	ug/L	0.50						
Xylenes, To	otal	ND	ug/L	0.50						
-	-Dichloroethane-d4		•	0.50	74	71	139			
	Bromofluorobenzene			0.50	90	80	127			
Surr: Tol	uene-d8			0.50	94	80	123			
Lab ID:	b17021110-001bms	Sample Matrix	Spike			Run: 5971/	A.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-Chloroeth	nyi vinyi ether	3.44	ug/L	1.0	69	36	144			
	-Dichloroethane-d4		•	0.50	80	71	139			
	Iromofluorobenzene			0.50	95	80	127			
Surr: Tol	uene-d8			0.50	100	80	123			
- 1 = This is with the san	a known very reactive compour nple matrix.	nd. The recovery of	this compound was n	ormal in th	e Laborat	ory Control Sa	mple (LCS). The o	compound	appears to hav	/e reacted
Lab ID:	b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 59714	.[_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	
-	yl vinyl ether	3.66	ug/L	1.0	73	36	144	6.1	20	
	-Dichloroethane-d4		-	0.50	81	71	139			
Surr. p-B	romofluorobenzene			0.50	96	80	127			
Surr: Tol				0.50	99	80	123			
	a known very reactive compour	nd. The recovery of t	this compound was n	ormal in th	e Laborate	ory Control Sar	mple (LCS). The d	compound	appears to hav	/e reacted
	b17021110-001bms	Sample Matrix	Spike			Run: 5971A	.I_170224A		02/24/	/17 18:21
Lab ID:		40.4	ug/L	20	81	55	144			
		66.0	ug/L	20	132	54	142			
Acetone				0.50	92	73	122			
Acetone Acetonitrile		4.60	ug/L							
Acetone Acetonitrile Benzene			ug/L ug/L	0.50	92	74	129			
Acetone Acetonitrile Benzene Bromobenz	ene	4.60				74 66	129 120			
Acetone Acetonitrile Benzene Bromobenz Bromochlor	ene	4.60 4.60	ug/L	0.50	92					
Lab ID: Acetone Acetonitrile Benzene Bromobenz Bromochlor Bromodichle Bromoform	rene romethane oromethane	4.60 4.60 4.56	ug/L ug/L	0.50 0.50	92 91	66	120			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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	: R275391
Lab ID: b17	021110-001bms	Sample Matri	k Spike			Run: 5971/	A.I_170224A		02/24	4/17 18:21
Carbon disulfide		5.12	ug/L	0.50	102	46	145			
Carbon tetrachlori	de	3.59	ug/L	0.50	72	75	125			S
Chlorobenzene		4.52	ug/L	0.50	90	80	123			
Chlorodibromome	thane	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-Chiorotoluene		4.88	ug/L	0.50	98	75	131			
4-Chlorotoluene		4.68	ug/L	0.50	94	74	129			
1,2-Dibromoethan	e	4.16	ug/L	0.50	83	76	124			
Dibromomethane		4.64	ug/L	0.50	93	77	125			
1,2-Dichlorobenze	ne	4.64	ug/L	0.50	93	74	124			
1,3-Dichlorobenze	ne	4.88	ug/L	0.50	98	77	122			
1,4-Dichlorobenze	ne	4.76	ug/L	0.50	91	76	126			
Dichlorodifluorome	ethane	4.32	ug/L	0.50	86	56	146			
1,1-Dichloroethan	8	4.24	ug/L	0.50	85	74	133			
1,2-Dichloroethan	9	3.48	ug/L	0.50	70	75	129			S
1,1-Dichloroethen	9	4.12	ug/L	0.50	82	74	132			
cis-1,2-Dichloroeth	iene	4.48	ug/L	0.50	90	81	122			
trans-1,2-Dichloro	ethene	4.64	ug/L	0.50	93	79	143			
1,2-Dichloropropa	ne	4.92	ug/L	0.50	98	75	126			
1,3-Dichloropropa	ne	4.24	ug/L	0.50	85	71	136			
2,2-Dichloropropa	ne	3.60	ug/L	0.50	72	68	142			
1,1-Dichloroproper	ne	4.04	ug/L	0.50	81	70	131			
cis-1,3-Dichloropro		4.08	ug/L	0.50	82	74	135			
trans-1,3-Dichlorop	propene	3.97	ug/L	0.50	79	76	149			
Ethylbenzene		4.64	ug/L	0.50	93	72	130			
Methyl tert-butyl et	her (MTBE)	3.63	ug/L	0.50	73	72	120			
Methyl ethyl keton		44.4	ug/L	20	89	45	130			
Methyl isobutyl ket	one	51.2	ug/L	20	102	58	135			
Methylene chloride	ļ.	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-Tetrachlord		3.95	ug/L	0.50	79	78	124			
1,1,2,2-Tetrachloro	ethane	4.88	ug/L	0.50	98	68	137			
Toluene		4.88	ug/L	0.50	98	72	135			
Trichloroethene		4.56	ug/L	0. <del>5</del> 0	91	85	126			
1,1,1-Trichloroetha		3.51	ug/L	0.50	70	63	120			
1,1,2-Trichloroetha		4.52	ug/L	0.50	90	78	124			
Trichlorofluoromet		3.29	ug/L	0.50	66	72	120			S
1,2,3-Trichloroprop	ane	3.90	ug/L	0. <del>5</del> 0	78	64	138			
Vinyl Acetate		4.00	ug/L	1.0	80	31	124			

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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:	R27539
Lab ID: b17021110-001bms	Sample Matrix	< Spike			Run: 5971	A.I_170224A		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			
Lab ID: b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 5971,	A.I_170224A		02/24	/17 18:50
Acetone	44.0	ug/L	20	88	55	144	8.5	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	128	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	76	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	3.76	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	81	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	
			0.50	85	76	149	6.6	20	
trans-1,3-Dichloropropene	4.24	ug/L	0.00	00	70	143	0.0	20	

**Qualifiers:** 

RL - Analyte reporting limit.



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:	R275391
Lab ID: b17021110-001bmsd	Sample Matrix	Spike Duplicate			Run: 5971/	A.I_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	
Methyi 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	5.56	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-Trichioroethane	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.

S - Spike recovery outside of advisory limits.



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								Bato	h: 107004
Lab ID:	MB-107004	Method Blank				Run: SV59	73N2.I_170227B		02/27	7/17 18:24
Acenaphthe	ane	ND	ug/L	10			_			
Acenaphthy	lene	ND	ug/L	10						
Anthracene		ND	ug/L	10						
Azobenzen	e	ND	ug/L	10						
Benzo(a)an	thracene	ND	ug/L	10						
Benzo(a)py	rene	ND	ug/L	10						
Benzo(b)flu	oranthene	ND	ug/L	10						
Benzo(g,h,i	)perylene	ND	ug/L	10						
Benzo(k)fiu	oranthene	ND	ug/L	10						
4-Bromoph	enyl phenyl ether	ND	ug/L	10						
Butylbenzyl	phthalate	ND	ug/L	10						
4-Chloro-3-	methylphenol	ND	ug/L	10						
bis(-2-chlore	ethoxy)Methane	ND	ug/L	10						
bis(-2-chlore	oethyl)Ether	ND	ug/L	10						
bis(2-chloro	isopropyi)Ether	ND	ug/L	10						
2-Chlorona	ohthalene	ND	ug/L	10						
2-Chloroph	enol	ND	ug/L	10						
4-Chlorophe	enyl phenyl ether	ND	ug/L	10						
Chrysene		ND	ug/L	10						
Diethyl phth	alate	ND	ug/L	10						
Di-n-butyl p	hthalate	ND	ug/L	10						
1,2-Dichloro	benzene	ND	ug/L	10						
1,3-Dichloro	benzene	ND	ug/L	10						
1,4-Dichlord	benzene	ND	u <b>g</b> /L	10						
3,3'-Dichlor	obenzidine	ND	ug/L	10						
2,4-Dichioro	phenol	ND	ug/L	10						
Dimethyl ph	thalate	ND	ug/L	10						
Di-n-octyl pl	nthalate	ND	ug/L	10						
Dibenzo(a,h	)anthracene	ND	ug/L	10						
2,4-Dimethy	iphenol	ND	ug/L	10						
4,6-Dinitro-2	-methylphenol	ND	ug/L	50						
2,4-Dinitrop	henol	ND	ug/L	50						
2,4-Dinitroto	luene	ND	ug/L	10						
2,6-Dinitroto		ND	ug/L	10						
bis(2-ethylh	exyl)Phthalate	ND	ug/L	10						
Fluoranthen	e	ND	ug/L	10						
Fluorene		ND	ug/L	10						
Hexachlorot		ND	ug/L	10						
Hexachlorob		ND	ug/L	10						
	cyclopentadiene	ND	ug/L	10						
Hexachioroe		ND	ug/L	10						
Indeno(1,2,3	l-cd)pyrene	ND	ug/L	10						
Isophorone		ND	ug/L	10						

#### Qualifiers:

RL - Analyte reporting limit.



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 I	Jnits	RL %REG	C Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batc	h: 107004
Lab ID: MB-107004	Method Blank			Run: SV59	73N2.I_170227B		02/27	7/17 18:24
n-Nitrosodimethylamine	ND u	ıg/L	10		_			
n-Nitroso-di-n-propylamine	ND t	ıg/L	10					
n-Nitrosodiphenylamine	ND i	ig/L	10					
2-Nitrophenol	ND t	ıg/L	10					
4-Nitrophenol	ND U	ıg/L ÷	50					
Naphthalene	ND u	<b>/g/</b> ∟	10					
Nitrobenzene	ND U	ıg/∟	10					
Pentachlorophenol	ND t	ıg/L i	50					
Phenanthrene	ND t	ig/L	10					
Phenol	ND t	ıg/∟	10					
Pyrene	ND u	ıg/L ʻ	10					
1,2,4-Trichlorobenzene	ND U	ıg/L ʻ	0					
2.4,6-Trichlorophenol	ND L	ig/L ·	10					
Surr: 2-Fluorobiphenyl		· ·	0 55	5 28	107			
Surr: 2-Fluorophenol			0 36	5 20	56			
Surr: Nitrobenzene-d5		1	10 58	32	94			
Surr: Phenol-d5		1	0 35	5 19	45			
Surr: Terphenyl-d14		li i	0 77	32	122			
Surr: 2,4,6-Tribromophenol		1	0 58	3 21	130			
Lab ID: LCS-107004	Laboratory Contro	ol Sample		Run: SV59	73N2.I_170227B		02/27	/17 18:55
Acenaphthene	81.2 L	ig/L 1	0 81	58	99			
Acenaphthylene	76.5 U	ig/L 1	0 77	57	96			
Anthracene	79.5 0	ig/L 1	0 80	60	107			
Azobenzene	79.3 u	ig/L 1	0 79	56	100			
Benzo(a)anthracene	84.1 u	ig/L 1	0 84	62	114			
Benzo(a)pyrene	80.1 u	ig/L 1	0 80	62	108			
Benzo(b)fluoranthene	88.6 u	g/L 1	0 89	48	127			
Benzo(g,h,i)perylene	81.6 u	ig/L 1	0 82	62	121			
Benzo(k)fluoranthene	79.2 u	g/L 1	0 79	55	111			
4-Bromophenyl phenyl ether	63.0 u	g/L 1	0 83	58	105			
Butylbenzylphthalate	91.6 u	g/L 1	0 92	60	113			
4-Chloro-3-methylphenol	65.7 u	g/L 1	0 66	53	92			
bls(-2-chloroethoxy)Methane	73.9 u	g/L 1	0 74	50	92			
bis(-2-chloroethyl)Ether	63.4 u	g/L 1	0 63	44	82			
bis(2-chloroisopropy!)Ether	61.2 u	g/L 1	0 61	56	87			
2-Chloronaphthalene		-	0 75		95			
2-Chlorophenol		g/L 1	0 60	47	76			
4-Chlorophenyl phenyl ether	75.8 u	g/L 1	0 76	58	99			
Chrysene	81.9 u	g/L 1	0 82	63	106			
onajoono					400			
Diethyl phthalate	78.6 u	g/L 1	0 79	58	103			
		-	0 79 0 88		103			

**Qualifiers:** 

RL - Analyte reporting limit.



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								Batc	h: 107004
Lab ID: LCS-107004	Laboratory Cor	trol Sample			Run: SV59	73N2.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'-Dichlorobenzídine	68.6	ug/L	10	69	51	93			
2,4-Dichlorophenol	64.7	ug/L	10	65	49	90			
Dimethyl phthalate	76.4	u <b>g</b> /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-Dimethylphenoi	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	83.8	ug/L	10	84	63	110			
Fiuorene	77.4	ug/L	10	77	60	99			
Hexachlorobenzene	78.2	ug/L	10	78	57	103			
Hexachlorobutadiene	67.5	ug/L	10	67	39	83			
Hexachlorocyclopentadiene	68.4	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			
Pentachiorophenol	70.6	ug/L	50	71	53	109			
Phenanthrene	80.5	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	19	45			
Surr: Terphenyl-d14			10	87	32	122			
Surr: 2,4,6-Tribromophenol			10	70	21	130			
Lab ID: B17021688-001CMS	ID: B17021688-001CMS Sample Matrix Spike				Run: SV597	3N2.I_170227B		02/27/	17 20:29
Acenaphthene	86.4	ug/L	10	86	58	99			

#### **Qualifiers:**

RL - Analyte reporting limit.



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								Batc	h: 107004
Lab ID:	B17021688-001CMS	Sample Matrix	k Spike			Run: SV59	73N2.I_170227B		02/27	/17 20:29
Acenaphth	ylene	83.0	ug/L	10	83	57	96			
Anthracene	2	86.4	ug/L	10	86	60	107			
Azobenzen	e	84.3	ug/L	10	84	56	100			
Benzo(a)ar	nthracene	90.3	ug/L	10	90	62	114			
Benzo(a)py	/rene	80.9	ug/L	10	81	62	108			
Benzo(b)flu	Joranthene	80.4	ug/L	10	80	48	127			
Benzo(g,h,i		80.5	ug/L	10	81	62	121			
Benzo(k)flu		83.5	ug/L	10	83	55	111			
	enyl phenyl ether	80.4	ug/L	10	80	58	105			
Butylbenzy		99.7	ug/L	10	100	60	113			
-	methyiphenol	77.0	ug/L	10	77	53	92			
	oethoxy)Methane	77.3	ug/L	10	77	50	92			
-	oethyl)Ether	66.7	ug/L	10	67	44	82			
-	pisopropyi)Ether	66.6	ug/L	10	67	56	87			
2-Chlorona		79.8	ug/L	10	80	56	95			
2-Chloroph	•	64.1	ug/L	10	64	47	76			
-	enyl phenyl ether	84.5	ug/L	10	85	58	99			
Chrysene	engi priorigi e urei	85.9	ug/L	10	86	63	106			
Diethyl pht	halate	85.4	ug/L	10	85	58	103			
Di-n-butyl p		96.0	ug/L	10	96	61	110			
1,2-Dichlor		66.1	ug/L	10	66	43	81			
1,3-Dichlor		61.9	ug/L	10	62	41	79			
1,4-Dichlor		61.8	ug/L	10	62	42	79			
3,3'-Dichlor		69.1	ug/L	10	69	51	93			
2,4-Dichlor		68.4	ug/L	10	68	49	90			
Dimethyl pl	•	81.4	ug/L	10	81	58	104			
Di-n-octyl p		90.6	ug/L	10	91	56	110			
	h)anthracene	80.0	ug/L	10	80	61	111			
• •	•	69.2		10	69	45	87			
2,4-Dimethy	2-methylphenol	58.9	ug/L	50	59	45 37	105			
		56.9 54.8	ug/L	50	55	27	81			
2,4-Dinitrop		82.5	ug/L	10	83	63	110			
			ug/L				107			
2,6-Dinitrote		80.8	ug/L	10	81	60 56	108			
Fluoranther	exyl)Phthalate	92.0	ug/L	10	92	56				
	le	88.0	ug/L	10	88	63	110			
Fluorene	<b>.</b>	80.1	ug/L	10	80	60	99			
Hexachloro		82.5	ug/L	10	83	57	103			
Hexachioro		69.0	ug/L	10	69	39	83			
	cyclopentadiene	68.1	ug/L	10	68	39	91			
Hexachioro		65.6	ug/L	10	66	37	75			
-	3-cd)pyrene	82.3	ug/L	10	82	59	109			
Isophorone		71.3	ug/L	10	71	42	102			
n-Nitrosodir	methylamine	41.5	ug/L	10	41	20	45			

**Qualifiers:** 

RL - Analyte reporting limit.



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								Batch:	107004
Lab ID: B17021688-	001CMS Sample Matr	ix Spike			Run: SV59	73N2.I_170227B		02/27/1	7 20:29
n-Nitroso-di-n-propylamin	e 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			
Pentachtorophenol	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	89			
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-Tribromophe	enol		10	75	21	130			
Lab ID: B17021688-	003CMS Sample Matr	ix Spike			Run: SV59	73N2.I_170227B		02/27/1	7 21:3
Acenaphthene	89.8	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)perviene	78.5	ug/L	10	79	62	121			
Benzo(k)fluoranthene	83.1	ug/L	10	83	55	111			
4-Bromophenyl phenyl ett	ner 78.1	ug/L	10	78	58	105			
Butylbenzylphthalate	92.9	ug/L	10	93	60	113			
4-Chioro-3-methylphenol	69.5	ug/L	10	69	53	92			
bis(-2-chloroethoxy)Metha		ug/L	10	70	50	92			
bis(-2-chloroethyl)Ether	58.4	ug/L	10	58	44	82			
bis(2-chlorolsopropyl)Ethe	F 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 eth		ug/L	10	83	58	89			
Chrysene	82.0	ug/L	10	82	63	106			
Diethyl phthalate	80.2	ug/L	10	80	<del>5</del> 8	103			
	86.9	ug/L	10	87	61	110			
Di-n-butyl phthalate	00.0	~ <del>.</del>							
Di-n-butyl phthalate 1,2-Dichlorobenzene	61.5	ug/L	10	62	43	81			

**Qualifiers:** 

RL - Analyte reporting limit.



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	701 12 0	LOW LINK	High Limit	KPU	RPDLimit	Qual
Method: E625			······					Batcl	n: 107004
Lab ID: B17021688-003CMS	Sample Matro	( Spike			Run: SV59	73N2.I_170227B		02/27	/17 21:31
1,4-Dichlorobenzene	57.9	ug/L	10	58	42	79			
3,3'-Dichlorobenzidine	52.9	u <b>g</b> /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	105			
2,4-Dinitrophenol	30.1	ug/L	50	30	27	81			
2,4-Dinitrotoluene	86.9	ug/L	10	87	63	110			
2,6-Dinitrotoluene	75.9	ug/L	10	76	60	107			
bls(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			
Narobenzene	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	00.0	agre	10	45	28	107			
Surr: 2-Fluorophenol			10	37	20	56			
Sur: 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: SV597	3N2.I_170228A		02/28/	17 12:11
Benzidine	ND	ug/L	10						

**Qualifiers:** 

RL - Analyte reporting limit.



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		Resuit L	Inits	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E625								Batcl	h: 107004
Lab ID: Benzidine	LCS-107004	Laboratory Contro 63.4 u	bi Sample ⊧g/L	10	63	Run: SV59 10	73N2.I_170228A 100		02/28	/17 12:42
Lab ID: Benzidine	B17021688-001CMS	Sample Matrix Sp 25.8 u	oike Ig/L	20	26	Run: SV59 10	73N2.I_170228A 100		02/28	/17 14:16
Lab ID: Benzidine	B17021688-003CMS	Sample Matrix Sp 28.5 u	i <b>ke</b> g/L	20	28	Run: SV59 10	73N2.I_170228A 100		02/28	/17 15:18



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	· · · · · · · · · · · · · · · · · · ·					· · · · · ·	Ar	alytical Run:	R275528
Lab ID: 27-Feb-17_CCV_2	Continuing Ca	libration V	erification Standa	ard				02/27	7/17 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	106	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-chloroethyi)Ether	80,8	ug/L	10	108	80	120			
bls(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.



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		·····					Ar	alytical Run:	R275528
Lab ID: 27-Feb-17_CCV_2	Continuing Ca	libration Verific	ation Standa	rd				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			
Pentachiorophenol	73.3	ug/L	50	98	80	120			
Phenanthrene	74.0	ug/L	10	99	80	120			
Phenoi	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-Fluorobiphenyi		_	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			
Method: E625							An	alytical Run:	R275577
Lab ID: 28-Feb-17_CCV_2	Continuing Ca	libration Verific	ation Standa	rd				02/28	/17 11:39
Benzidine	89.5	ug/L	10	119	80	120			

**Qualifiers:** 

RL - Analyte 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

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:	SW8260M							/	Analytical Rur	1: 107003
Lab ID:	CCV-107003	Continuing Cal	Ibration Verificatio	n Standa	rd					/17 08:30
1,4-Dioxane		105	ug/L	1.0	105	80	120		GEIZI	/17 00.00
Method:	SW8260M								Batch	n: 107003
Lab (D:	LCS-107003	Laboratory Cor	ntrol Sample			Run: VOA5	973A.I_170227A			/17 09:22
1,4-Dioxane		106	ug/L	1.0	106	70	130			
Lab ID:	MB-107003	Method Blank				Run: VOA5	973A.I_170227A		02/27	(17 09:44
1,4-Dioxane		ND	ug/L	1.0			-			
Lab ID:	C17020566-001BMS	Sample Matrix	Spike			Run: VOA5	973A.I_170227A		02/27/	17 11:37
1,4-Dioxane		200	ug/L	2.0	100	70	130			
Lab iD:	C17020566-001BMSD	Sample Matrix	Spike Duplicate			Run: VOA5	973A.I_170227A		02/27/	17 11:59
1,4-Dioxane		206	ug/L	2.0	103	70	130	3.0	20	



Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

C17020566

# **Work Order Receipt Checklist**

# Colorado Analytical Laboratories Inc

Login completed by:	Dorian Quis		Date	Received: 2/21/2017
Reviewed by:	Kasey Vidick		Re	ceived by: dcq
Reviewed Date:	2/21/2017		Car	rier name: Ground
Shipping container/cooler in	good condition?	Yes 🗹	No 🔄	Not Present
Custody seals intact on all sh	hipping container(s)/cooler(s)?	Yes	No 🗌	Not Present
Custody seals intact on all sa	imple bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🛄	
Chain of custody signed whe	n relinquished and received?	Yes 🖌	No 🗌	
Chain of custody agrees with	sample labels?	Yes 🔽	No 🗌	
Samples in proper container/	bottle?	Yes 🗸	No 📋	
Sample containers intact?		Yes 🗸	No 🗌	
Sufficient sample volume for i	indicated test?	Yes 🔽	No 🗌	
All samples received within he (Exclude analyses that are co such as pH, DO, Res CI, Suit	nsidered field parameters	Yes 🗹	No 📋	
Temp Blank received in all sh	ipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temper	ature:	6.8°C Blue ice		
Water - VOA vials have zero I	neadspace?	Yes 🗸	No 🗌	No VOA vials submitted
Water - pH acceptable upon r	eceipt?	Yes	No 📋	Not Applicable

### 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

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Report To Information	Bill To Information (If different from report to)	Project Name	Colorado Anal Ara
Company Name: Colorado Analytical	Company Name: Same As Report To	170217005	Laboratories, inc.
Contact Name: Stuart Niclson	Contact Name:	Lfh-1 Co-0121724	Brighton Lab 240 South Main Street
Address: 240 S. Main St.	Address:	Task Number (Lab Use Only)	Brighton, CO 80601 Lakewood Lab
			12860 W. Cedar Dr. Suite 100A
ļ			87700 DO DOD MONHON
City Brighton State CO Zip80601	CityState Zip		Phone: 303-659-2313
Phone:3036592313 Fax:3036592315	Phone: Fax:		Fax: 303-659-2315
Email: stuartnicison@coloradolab.com	Email:	Disposal Date(Lab Use Only)	WWW.coloradolab.com
Sample Collector: Stephanie Schwenke	PO No.:		

<u>Brighton Lab</u> 240 South Main Street Brighton, CO 80601 <u>Lakewood Lab</u> 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

C MONDAL					
	625 SOCs				CS Charge
	Grab or (Check One Only) Composite 624 VOC Long List				ia: Relinquished By:
	Plant Tissue Other Other Drinking Water			CIS Info	Date/Time: Reling
NAME AND ADDRESS					Received By:
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	te Water	2/16/17 17/02/		Instructions. Send viz UPS to Energy Labs	3, A Relinquished By: DADAMA

v Public Water System)       Section JI (Sumplied or Completed or Completed or Completed or Completed or Completed or Completed fragmenton)         Information       Laboratory ID: CO 0015         Phone #: 719-227-0072       Laboratory Namc: Colorado Analytical Laboratory Namc: Colorado Analytical Laboratory Namc: Contract Person: Customer Service         Do Samples Need to be       Contract Person: Customer Service         Do Samples Need to be       Comments:         Section III (Supplied or Completed by Public Water System)       Section III (Supplied or Completed by Certified Laboratory)         Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Analytical Laboratory)         Analyte Name       TAB	Colorado Deparaceut		Inor 4300 Fax	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	emicals Certified Laboratory Report Form WQCD - Drinking Water CAS Creek Drive South, Denver, CO 80246-1530 58-1398; cdphe.drinkingwater@state.co.us	orm 1530 1.us		Revise	Revised 6/13/2014
Public Water System Information       04     Laboratory II       105     Laboratory N       105     Renth MD       105     Phone #: 719-227-0072       105     Contact Person       106     Samples Need to be       107     Contact Person       108     Composited BY THF LAB?       108<	Section	I (Supplied or	r Completed by Public	Water System)	Section JI (Sur	plied or Completed b	v Certified 1	shoratory	
14     Iaboratory ID: C0 0015       nrg Ranch MD     Laboratory Name: Colorado Analytical Labor       k Volle     Phone #: 719-227-0072     Contact Person: Customer Service       composited BY THE LAB?     Contact Person: Customer Service       Collector: Stephanie Schwe Facility ID     Section III (Supplied or Completed by Public Water System)       Section IV Inorganic Chemicals (Completed by Certified I aboratory)     Analysis       Date     Iab Sample ID     Analyte Name       Date     170324007-01     Fluoride		Public W	ater System Information	tion	Ŭ	rtified Laboratory I	nformation		
ng Ranch MD k Volle k VVolle k VV	PWSID#: C0012172				Laboratory ID: CO 0015	a franciska har fan anti-			
*k Volle       Phone #: 719-227-0072       Contact Person: Customer Service         Do Samples Need to be Composited BY THE LAB?       Do Samples Need to be Comments:       Comments:         Section III Composited BY THE LAB?       Section III (Supplied or Completed by Public Water System)       Section III (Supplied or Completed by Public Water System)         Analysis       Lab Sample ID       New Well       Sample Pt ID (On Schodule): New Well         Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Mathod       Mathod         Date       170324007-01       Fluoride       Total Aoratory)	System Name: Sterlir	ng Ranch MD			Laboratory Name: Colorado	Analytical Laborato	L.		
Do Samples Need to be Composited BY THF LAB?     Do Ruments:       Composited BY THF LAB?     Comments:       Composited BY THF LAB?     Section III (Suppled or Completed by Public Water System)       Section III (Suppled or Completed by Public Water System)       Analysis     Lab Sample P1 ID (On Schedule): New Well       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Date     Analytical       10324017     170324007-01	Contact Person: Marl	k Volle			Contact Person: Customer 5		Phone: 303-659-2313	-2313	
Collector:     Section III (Suppled or Completed by Public Water System)       Collector:     Section III (Suppled or Completed by Public Water System)       Analysis     Eacility ID (On Schedule):       Nalysis     Lab Sample P1 ID (On Schedule):       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       Date     Analysis       12401     T0324007-01	Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
Section III (Supplied or Completed by Public Water System)       Collector: Stephanie Schwe Facility ID (On Schedule): New Well       Section IV Inorganic Chemicals (Completed by Certified Laboratory)       b Analysis     Lab Sample ID       Date     CAS No       Analysis     Constant Construction       Analysis     Constant Constant Completed by Certified Laboratory)       Date     CAS No       Analyte Name     CAS No       Method     Cm								-	
Collector:     Stephanic Schwe     Facility ID (On Schedule):     New Well     Sample P1 ID (On Schedule):       Section IV Inorganic Chemicals (Completed by Certified Laboratory)     Section IV Inorganic Chemicals (Completed by Certified Laboratory)     Mailyical     Mailyical       Date     1324017     170324007-01     Fluoride     7681.40.4     Fluoride				Section III (Supplied or Comp	leted by Public Water System				
Section IV Inorganic Chemicals (Completed by Certified Laboratory)           Lab Sample ID         Analytical         Mathematicals         Completed by Certified Laboratory)           1 ab Analysis         Lab Sample ID         Analytical         M           1 bate         3/24/17         170324007-01         Fluoride         7691.40.4         PAN 200.0	Sample Date: 3/23/17	Collec	tor: Stephanie Schwe	Facility ID (On Schedule): ]		ole Pt ID (On Schedu	le): New Well	Vell	
Lab Analysis     Lab Sample ID     Analyse Name     CAS No.     Analysical       Date     3/24/17     170324007-01     Filuride     7681.40.4     PDA 200.0			Sec	tion IV Inorganic Chemicals (C	ompleted by Certified Labora	torv)			
3/24/17 170324007-01 Fluoride 7681-40-4 PDA 200-0		Analysis Date	Lab Sample (D	Analyte Name	CAS No.		MCL (me/l.)	Lab MRL.	Result
		1/24/17	170324007-01	Flunride	7681-49-4	EPA 300.0	4	0.09	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

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Analytical	LABORATORIES, INC.	Brighton Fah	240 South Main Street	Brighton, CO 80601	Lakewood Lab		Lakewood CO 80228	Frome: 303-659-2313 Fax: 303-659-2315	www.coloradolab.com			analysis) Subcontract Analyses	()	ircle) ircle)	528 526 529 724 724 724 724 72 72 72 72 72 72 72 72 72 72 72 72 72	A, DV A, UV A, UV Z, MU Z, MU	Alk. Alk. Gros Coros Coros Coros Coros Coros Coros Coros Coros Coros Coros											Seals Present Yes No Headspace Yes No	ce Sampl	Neceived By: Date/Lime:
page 2 of 2	State Form / Project Information		System Name:	Service Parcy MY	Address: A start A start A start A		15 N. C. 942	E D'		Compliance Samples: Yes N No L		PHASE I, II, V Drinking Water Analyses (check analysis)		יזנ	phosa ndotha iquat FHMs AA5s AA5s	1.1 En 2 D 2 L 	Nitr 2524 5524 5524 5524 549												CS Charge L	
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	Report To Information	Company Name: JDS-14cdrc (cnxul lands)	Contact Name: Mark Volle		WISHS E. PILLERE AND	Sune 300	City CS Star CZID & CAS	e-911.ª	Email: MVolleCidehydre, Com	Sampler Name: Action of Muserker PO No.		CAL Task No.	170324007	Ра	ARF ARF	w Date   Time   Client Sample [D / EP Code		117 1018 22-5	C   # +10°	× 1 3	117 PC:S		1)0117	17	8177 65-8	1/ 8/12 #19	OCT beis .	Instructions:	Relinquished By Date/Time:	1:200 1:200 1:200

8 500 Drinking Water Chain

Colorado

		Inorg	Inorganic Chemicals Certified Laboratory Report Form	d Laboratory Rep	ort Form			Revise	Revised 4/13/2015
Colorado Denorman	I Ħ	Subm	WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login	ng Water CAS wqcdcompliance.	com/login				IOC
of Public Health and Environment			e	(	)				)
S	ection I (Sumplied	Section I (Sumlied or Completed by Public Water Syst	Water System)	Section	Section II (Supplied or Completed by Certified Laboratory)	Completed by	Certified L	aboratory)	
	Public	<b>Public Water System Information</b>	tion		Certified L	<b>Certified Laboratory Information</b>	Iformation		
PWSID#: C00121724	121724			Laboratory ID: CO 0015					
System Name:	System Name: Sterling Ranch MD	9		Laboratory Name: Colorado Analytical Laboratory	olorado Analyti	cal Laboratory			
Contact Person: Mark Volle	: Mark Volle		Phone #:	Contact Person: Customer Service	omer Service	Phot	Phone: 303-659-2313	-2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:			-		
			Section III (Supplied or Compl	(Supplied or Completed by Public Water System)	System)				
Sample Date: 3/23/17		Collector: Stephanie Schwe   Facility II		New Well	Sample Pt ID (On Schedule):	(On Schedule	c): New Well	Vell	
			Section IV Inorganic Chemicals (C	ganic Chemicals (Completed by Certified Laboratory)	Laboratory)				
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	No.	Analytical Method	MCL.	Lab MRI.	Result (mu/T)
3/24/17	3/29/17	170324007-01A	Antimony	7740-36-0	36-0	FPA 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	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	V/N	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	V/N	0.1	52.8
3/24/17	3/29/17	170324007-01A	l'hallium	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 luss than (<) may also used.

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

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Colorado Analytical		Brighton Lab	Brighton, CO 80601	Lakewood Lab 12860 W. Cedar Dr.	Phone: 303-659-2313	Fax: 303-659-2315	v.col			(	eloriO) 4	የያ እሀ	אאט:											No.	5	+	
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	Report To Information	Company Name: JDS-H-dro Cerrout Hards	Contact Name:	Address: J. S. S.		Phone: 119-337-007 Pax:	Email:	Sampler Name: Sechante	CAL	170			ite	3-23				Τ			Τ			Instructions: No	with the both shipment.	Relinquish	Å
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Colorado Analytical	LABORATORIES, INC. Brighton Lab 240 South Main Street	Brighton, CO 80601	12860 W. Cedar Dr, Suite 100A Lakewood CO 80228			www.coloradolab.com		Inalysis) Subcontract Analyses	(	3. Index OC (Circle 254 (Circle Dia/Beta	Fluoride Inorganic Alk./Lang Gross Alg Gross Alg Radium 2 Radium 2 Radium 2 Radium 2	×				×				Seals Present Yes 🗌 No 🗍 Headspace Yes 🗍 No 🗍	Temn. "C floe Samula Pres Vec 🗆 No 🗍	ceived By:
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ater Chain of Custody	Bill To Information (If different from report to) Company Name: SR_Warker-		MACH TEXM	Statt DZIP 20103	Fax:	~3870@asl.com	2	PHASE I, I	d	Cs-Pest	252'5 20 212'4 HG 202 Le2 204'1 EI								×	C/S lbfo:	Delive	Date/Time: Rei
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	Report To Information Company Name: JDS-1-Higher Consul Hands	S. P.V.		CS state zin 80903	119-327-0073	Email: MVolle@jdshydro.com	Sampler Name: Kichenke Schusenke PO No.:	CAL Task No.	170324007	ARF	Time Client Sample ID / EP Code	8101 #11	6:mm #13		2:40 ALL	+·1)0117	キレ	814 6:8	004 beis			eid By Date/Time:
	Report To Infor Company Name: Contact Name:	CHC PA		City	Phone:	Email:	Sampler	CALTa	17032	Page 3	c o	3-23	-							Instructions:		Reinquished by



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

TASK NO: 170324007

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 CaCO3	SM 2320-B	0.1	3/28/17	VDB
Calcium as CaCO3	2.5 mg/L	SM 3111-B	0.1	3/30/17	MBN
Carbonate	< 0.1 mg/L as CaCO3	SM 2320-B	0.1	3/28/17	VDB
Langelier Index	-1.23 units	SM 2330-B		3/31/17	LJG
рН	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 CaCO3	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 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 3

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	Report To Information	Company Name: JDS-H-drs Cavoul Kavts	Contact Name:	Addresside E.	City	Phone: 119-337-0079ax:	Email:	Sampler Name: Stechante					Date	3-23								1		Instructions:	with the bothe shipment. Sample #8 and seen	Relinquish	.to
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Colorado Analytical	LABORATORIES, INC.	Rrichton I ab	240 South Main Street	Brighton, CO 80601	Lakewood Lab	12860 W. Cedar Dr, Suite 100A		r none: 303-659-2315 Fax: 303-659-2315	www.coloradolab.com		Citheensteerst A selence		2	1 228 1 228 7 1 228 7 1 2 7 2 7 2 7 1 2 7	Ava Cva Cva Cross Cross Radiun Radiun Radiun Radiun	×				>						Seals Present Yes 🗌 No 🗍 Headspace Yes 🗍 No 🗍	ce Sampl	: Date/Time:	
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	ttion	Company Name: JDS-1-44chre Consul Hards	Mark Volle		E. PikesPeakAve	Suite 200	starLCzip 80903	119-337-0073	Email: M volle@jdshydre.com	Sampler Name: Konchank Schusenke PONO.					Client Sample ID / EP Code	411			414	#15	HIP (1,4 Diana	#17	814	#19	064		Date/Time:	A 3-23 (1:30am	
	Report To Information	Company Name:	Contact Name:		542 C		City CS	Phone: 719-3	Email: MVO	Sampler Name:	CAL Task No.	170324007		9 <u>9</u> 0	Date	3-23 8:01	6 :00 en		3:36	8:18		2 2	Cerk	1/ 8/19	beis .	Instructions:	 <b>Relinquished By</b>	The line	

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Submit Online at http://www.wgcdcompliancc.com/login         Section I (Sumolied or Completed by Public Water System)         Section I (Sumolied or Completed by Public Water System)         Section I (Sumolied or Completed by Public Water System)         Section I (Sumolied or Completed by Public Water System)         Contractor I (Sumolied or Completed by Public Water System)         Section II (Sumolied or Completed by Public Water System)         Contractor Parson: Control of Completed by Public Water System)         Laboratory ID: CO 0015         System Name: Stering Ranch MD         Contact Person: Mark Volic         Contact Person: Mark Volic         Contact Person: Mark Volic         Contact Person: Mark Volic         Contact Person: Constoner Service       Phonee: 303-659-2313         Contact Person: Mark Volic         Contact Person: Contact Person: Customer Service       Phonee: 303-659-2313         Contact Person: Mark Volic         Contact Person: Contact Person: Customer Service       Phonee: 303-659-2313         Contact Person: Mark Volic       District Person: Customer Service       Phonee: 303-659-2313         Contact Person: Customer Service       Phone				Nitrate and Nitrite		Nitrogen (	Certified L	as Nitrogen Certified Laboratory Report Form	sport Form			Revised	Revised 4/13/2015
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Public Water System InformationCertified Laboratory InformationC0121724Laboratory ID: C0 0015Laboratory ID: C0 0015me: Sterling Ranch MDLaboratory Name: Colorado Analytical LaboratoryLaboratory Name: Colorado Analytical Laboratoryrson: Mark VollePhone #: 719-227-0072Contact Person: Customer ServicePhone: 303-659-23rson: Mark VolleSample Pr DConfirmaton'Lab AnalysisLaboratoryrson ScheduleSample Pr DConfirmaton'Lab AnalysisLaboratoryrson ScheduleSample Pr DConfirmaton'Lab AnalysisLaboratoryrson ScheduleNew WellNew WellNew WellNew WellNew WellNew Mellrson ScheduleNew WellNew WellNew WellNew WellNew WellNew Mellrson ScheduleNew WellNew WellNew WellNew WellNew WellNew Mell		Section I (	Supplied or Complet	ed hy Public W	ater System)			Section II (S	upplied or Com	pleted by Cer	rtified Lab	oratory)	
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rson: Kerling Ranch MD rson: Mark Volle rson: Mark Volle Interson: Customer Service Phone: 303-659-23 Contact Person: Customer Service Phone: 303-659-23 Network Person Phone Phone Phone Phone Phone: 303-659-23 Network Person Phone Ph	PWSID#: CO	0121724					Laborato	ry ID: CO 0015					
Image: Solution: Mark Volle     Phone #: 719-227-0072     Contact Person: Customer Service     Phone: 303-659-23       Image: Solution: Supplied or Completed by Public Water System)     Comments:     Contact Person: Customer Service     Phone: 303-659-23       Image: Solution: Supplied or Completed by Public Water System)     Section IV (Supplied or Completed by Certified Laboratory)     Malysis     Laboratory)       Image: Solution: New Well     New Well     New Well     New Well     Method       Image: Solution: Schwenk     New Well     New Well     New Well     New Well     Nethod       Image: Schwenk     New Well     New Well     New Well     New Well     S00.0     10	System Name:	:: Sterling	Ranch MD				Laborato	ry Name: Colori	do Analytical L	aboratory			
III (Supplied or Completed by Public Water System)       Comments:         Collector       Facility ID On Schedule       Sample Pt ID       Confirmation*       Lab Analysis       Laboratory       Analytical       MCL         Date       Date       Date       Date       Sample ID #       Method       Method       Method         hanic Schwenk       New Well       New Yell       New Y	Contact Perso	on: Mark V	/olle	P		-227-0072	Contact F	erson: Custome	r Service	Phone:	303-659-2	313	
mpletcd by Public Water System)     Section IV (Supplied or Completed by Certified Laboratory)       On Schedule     Sample Pt ID     Confirmation <sup>0</sup> Lab Receipt     Lab Analysis     Laboratory     Analyte     Analyte     Analytical     MCL       On Schedule     New Well     0     324/17     170324007-01     Nitrate Nitrogen     EPA 300.0     10       New Well     0     3/24/17     3/24/17     170324007-01     Nitrate Nitrogen     EPA 300.0     10	Comments:						Commen	its:					
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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

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PWSID#: C00121724	1	A TT ALCO SYSTEM LIMULING		Laboratory ID: CO 00063	CETTURED LADOFATORY INTORMATION	Information		
System Name: S	Sterling Ranch MD	MD		Laboratory Name: Colorado /	Colorado Analytical Laboratory	ſJ		
Contact Person: Mark Volle	Mark Volle		Phone #: 719-227-0072	Contact Person: Customer Service		Phone: 303-659-2313	-2313	
Comments:			Do Samples Need to be Composited BY THE LAB?	Comments:				
PWSID#: CO0121724	724		Section V (Supplied or Compl	(Supplied or Completed by Public Water System)				
Sample Date: 3/23/17	717	Collector: Stephanie Schwenk Facil	hwenk Facility ID (On Schedule):	New Well Sample	Sample Pt ID (On Schedule):	: New Well	0	
		Section VI Sy	inthetic Organic Chemicals (Sur	leted by C	I Laboratory)			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical Method	MCL (us/L)	Lab MRL (us/L)	Result (uo/1.)
3/24/17	4/3/17	170324007-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
3/24/17	3/29/17	170324007-01G	2,4D	94-75-7	EPA 515.4	70	0.1	BDL
3/24/17	3/29/17	170324007-01G	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
3/24/17	3/31/17	170324007-011	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
3/24/17	3/31/17	170324007-011	Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL
3/24/17	3/31/17	170324007-011	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
3/24/17	3/31/17	170324007-011	Carbofuran	1563-66-2	EPA 531.1	40	6.0	BDL
11/4/15	3/30/17	170324007-01F	Chlordanc	57-74-9	FPA 505	7	0.2	BDL
11/1-7/5	11/67/5	11/032400/-011	Dalapon	75-99-0	EPA 515.4	200	-	BDL
111-710	11/12/2	170324007-011	Dil 2-cuny incxy i batic	103-23-1	EPA 525.2	400	9.6	BDL
2111-210	11/10/2	11/02/24/00/-01/	LJN(2-ctrtyIncxyI)prtnalate	117-81-7	EPA 525.2	9	0.6	BDI,
11/47/2	LIKTIC	010-/0020001	Diposch	85-85-7	EPA 515.4	7	0.2	BDL
114710	3/24/17	710-/0072001	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
3/24/1/	3/29/17	170324007-01K	Endothall	145-73-3	EPA 548.1	100	6	BDL
11/47/2	3/30/1/	1/032400/-015	Endrin	72-20-8	EPA 505	2	0.01	BDL
3/24/17	4/3/17	170324007-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
3/24/1/	3/31/17	170324007-011	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
3/24/1/	3/30/17	170324007-01F	Hentachlor epoxide	1024-57-3	HPA 505	0.2	0.02	BDL
NT: Not Tested ug/L:	Micrograms per l	Liter MCL: Maximum Contamir	nant Level BDL Below Laboratory MI	NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used	xt.		170324007-01	N 1/2 4/21/17

Page 1 of 4

PWSID#: CO0121724	21724		Section V (Supplied or Completed	(Supplied or Completed by Public Water System)				
Sample Date: 3/23/17	23/17	Collector: Stephanie S	Stephanie Schwenk Facility ID (On Schedule):	New Well Sample ]	Sample Pt ID (On Schedule):	New Well		
		Section VI 5	Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)	d or Completed by Certified	Laboratory)			
Lab Receipt	Lab Analysis	Lab Sample ID	Analyte Name	CAS No	Analytical	MCL	Lab MRL	Result
LUate	Date				Method	("I/an)	(ng/L)	(/T/20)
3/24/17	3/30/17	170324007-01F	Hexachlorobenzene	118-74-1	EPA 505	1	0.1	RDI.
3/24/17	3/30/17	170324007-01F	Hexachlorocyclopentadiene	77-47-4	EPA 505	50	6	BUL
3/24/17	3/30/17	170324007-01F	Lindane	58-89-9	EPA 505	0.2	2010	BDL
3/24/17	3/30/17	170324007-01F	Methoxychlor	72-43-5	EPA 505	40	10	IUN
3/24/17	3/31/17	170324007-01J	Oxamyl	23135-22-0	EPA 531.1	200	-	BUI
3/24/17	3/29/17	170324007-01G	Pentachlorophenol	87-86-5	EPA 515.4	-	104	IUI
3/24/17	3/29/17	170324007-01G	Picloram	1918-02-1	EPA 515.4	500	10	IUI
3/24/17	3/30/17	170324007-01F	Polychlorinated biphenyl's	1336-36-3	EPA 505	0.5	0.1	RNL
3/24/17	3/31/17	170324007-011	Simazine	122-34-9	EPA 525.2	4	0.07	RDI.
3/24/17	3/30/17	170324007-01F	Toxaphene	8001-35-2	EPA 505	3	-	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.

170324007-01 N 2/2 4/21/17

Page 2 of 4

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	Report To Information	Company Name: JDS-H-Caroli Lavis	Contact Name:_	Addressing 6		ð	Phone: 119-337-0079ax	Email: M V> 16 ( jashindre Com	Sampler Name: Sechante	CAL	170			Date	3-23										Instructions:	with the bothe shipment.	Relinquish	A
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Colorado Anolytical LABORATORIES, INC.	Brighton Lab 240 South Main Street		Lakewood Lab 12860 W. Cedar Dr. Snite 100A			Fax: 303-659-2315	www.coloradolab.com		k analysis) Subcontract Analyses	(	(Circle) (Circle) <b>JC</b> /Beta	m n 228 n 228 y phys y								×			Seals Present Yes No Readspace Yes No	Temp. °C/Ice Sample Pres. Yes 🗌 No 🗍	Received By: Date/Time:
page 2 of 2 oject Information	Hellei	AW YR	Leer Creen		Statto Ziporto 3	0	Yes 🚺 No 🗆	Kes 🗆 No. 🕎	r Analyses (checl	,   ,		c Cobbe	552.2 Lead/ Nitrate Nitrate								_		_	C/S Charge	Date/Time:
Page 20	HELIE 10 CO: UISMA	System name: Ser line Ranch MS	Address: Bruider Crewit		City (S	County: El Paso	Compliance Samples: Yes 🚺 No 🗌	Send Forms to State: Yes No. W	PHASE 1, 11, V Drinking Water Analyses (check analysis)		ihall tt	onqvi Endor Bique	254°5 248°1 248°1 248°1										ioj	Delivered Via:	Relinquished By:
Drinking Water Chain of Custody Bill To Information (If different from report to)	Company Name: SR Wader	Davied	and der Cresent	AL COAL	Stat DZip 20"103	Fax:	38706021.00	2	PHASE I, I		s-Pest	ROC	2.25.2 2.15.4 2.15.4 1.502 1.502				*					×	C/S Info:	 Ă	Date/Time: Rel
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uoi	Company Name: JDS-14 color Consul Hards		E. PikesPeak Ave	10 000 V	Statt UZIP NU IU S	37-00 (at	Email: M Volle Cjdshydro, com	Sampler Name: Konenke PO No.:					Client Sample ID / EP Code	#11	61# -		オレ	#15	4 16 (1,4 Dionan	. 1 -	110	Unt A		1	- ZDAn
Report To Information	Company Name: J		540 E.	V		Phone: 1/9-7-00 (3	Email: MVol	Sampler Name:	CAL Task No.	170324007		Jave 4 of	Date	3-23 8,01	6:00		3:26	8:12		2		60.8	Instructions:	 Dalinaniahad D.	A Cherry

			Radion	uclides C	Certified I	aboratory	Radionuclides Certified Laboratory Report Form			Revision	Revision 6/13/2014
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Colocado Department		43	00 Chei	ry Creek	Drive Sou	uth; Denver	4300 Cherry Creek Drive South; Denver, CO 80246-1530				
of Public Health and Environment		μ.	Fax: (30:	3) 758-13	98; cdphe.	.drinkingwa	(303) 758-1398; cdphe.drinkingwater@state.co.us				
	Section	Section I (Supplied or Completed by Public		Water System)			Section II (Supplied or Completed by Certified Laboratory)	ed or Completed	by Certified I	aboratory)	
	4	Public Water System Information	1				Certified L	Certified Laboratory Information	nation		
PWS ID: C00121724	21724				Lab	Laboratory ID: CO 00008	00008				
System Name:	System Name: Sterling Ranch MD	Ą			Lab	oratory Name:	Laboratory Name: Hazen Research, Inc.				
Contact Person:			Phone #:		Con	Contact Person: Jessica Axen	ssica Axen		Phone #: 303-279-4501	279-4501	
Comments:			Do Samp Composi	Do Samples Need to be Composited <u>BY THE LAB?</u>		Comments:					
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Sample Date: 03/23/2017	03/23/2017	Collector:	Facility	Facility ID (On Schedule):	hedule):	Samp	Sample Pt ID (On Schedule):				
			Section	IV Radionu	iclides (Suppl	lied or Comply	Section IV Radionuclides (Supplied or Completed by Certified Laboratory)	lory)			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID		Analyte ?	Analyte Name (Code)		CAS No.	Analytical Method	MCL	Lab MRL	Result
03/24/2017	04/18/2017	C27017-001	Gross	Alpha Inclu	Gross Alpha Including Uranium (4002)	um (4002)	12587-46-1	SM 7110 B	N/A.	1.5	0.0(±1.5)
				Combined (	Combined Uranium (4006)	06)	7440-61-1	D2907-97	30 ug/L		
03/24/2017	04/07/2017	C27017-001		Radium	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	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 E	Gross Beta (4100)		12587-47-2	SM 7110 B	50 pCi/L*	2.1	0.0(±2.0)
			T.	otal Dissolv	Total Dissolved Solids (1930)	930)		EPA 160.3	N/A		
*The MCL fo	r Gross Beta F	*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.	ar. Since l	there is no s	simple conve	ersion betwee	in mrem/year and pCi/L	EPA considers 2	50 pCi/L to b	e the level o	of concern.
			Sei	tion V Calc	Section V Calculated Values	99					
	~	N/A	Gross /	Alpha Exch	Gross Alpha Excluding Uranium (4000)	am (4000)	Calculated Value	alue	15 pCi/L	N/A	
			Combin	led Radium	Combined Radium {-226 & -228} (4010)	28} (4010)	Calculated Value	alue	5 pCi/L	N/A	
IN	NT: Not Tested						ug/L: Micrograms per Liter	15 per Liter			
La	MRL: Labor	Lab MRL: Laboratory Minimum Reporting Level	svel				pCi/L: Picocuries per Liter	s per Liter			

BDL: Below Laboratory MRL. A less than sign (<) may also be used

pUtL: Picocuries per Liter MCL: Maximum Contaminant Level

Drinking	
Water	
Chain	
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Custody	

Bill To Information (If different from report to)       State Form / Project         Company Name: same       PWSID: CO01217         Contact Name:       System Name: Sterili         Address:       System Name: Sterili         City:       State:       Zip:         City:       State:       Zip:         Phone:       Fax:       County: El Paso         Email:       Compliance Samples         PO No.:       Send Forms to State	Sampler Name:	2	Email: stuartnielson@coloradolab.com	Phone:303-659-2313 Fax:303-659-2315	City: Brighton State: CO Zip: 80601	Address: P.O. Box 507	Contact Name: Stuart Nielson	Company Name: Colorado Analytical Labs	Report To Information
State Form / Project Information         PWSID: CO0121724         System Name: Sterling Ranch MD         System Address:         20 Boulder Crescent         City: Colo Spgs       State: CO Zip: 8090         County: El Paso         Compliance Samples: Yes X No         Send Forms to State: Yes No	PO No.:		Email:	Phone:	State:	Address:	Contact Name:	Company Name: same	Bill To Information (If different from report to)
	Send Forms to State: Yes V No X		Compliance Samples: Yes 🛛 No 🗌	County: El Paso	City: Colo Spgs State: CO Zip: 80903	System Address: 20 Boulder Crescent	System Name: Sterling Ranch MD	PWSID: C00121724	State Form / Project Information

ILING Colle	Relinquished By:	>	Please print results o						3/23/17 08:03	Date Time	ARF	170324007	CAL Task No.
1150	Daye/Timf: Re		Please print results on Colorado State form but do not submit to CDPHE. Thank you.						170324007 Sterling Ranch MD	Client Sample ID / EP Code			
	Received By:		submit i			 		 	6	No. c	f Containers		
	<u>у</u> :		** Combined Radium -226 & -228. abmit to CDPHE. Thank you.							(mg/l	lual Chlorine L) Samples Only		
			Thar							Tota	l Coliform H	9/A	
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Colorado Analytical

<u>Brighton Lab</u> 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



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

TASK NO: 170324007

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

> Facility ID: New Well Sample Point ID: New Well

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
Chloride	1.3 mg/L	EPA 300.0	0.1 mg/L	3/24/17	LIG
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 = Microgrems Per Liter or PPB mpn/100 m/s = Most Probable Number Index/ 100 m/s Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 1 of 4



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

# **Analytical Results**

TASK NO: 170324007

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

Task No.: 170324007 Client PO: Client Project: Sterling Ran	ch MD CO0121724		Received: 3/24/1 Reported: 4/21/1 Matrix: Water	7	
Customer Sample ID Sterli Sample Date/Time: 3/23/ Lab Number: 17032			Facility Sample Point	ID: New Well ID: New Well	
est	Result	Method	ML	Date Analyzed	Analyzed By
<u>otal</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 mpr/100 mis = Most Probable Number Index/ 100 mis Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315 Page 2 of 4

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			eet	<u>Lakewood Lab</u> 12860 W. Cedar Dr. Suite 100A	20	*)			itrac				uibeA						×					Seals Present Yes 🗆 No 🗸 Headspace Yes 🖸 No 🕅	2	Date/Time:	
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# 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 Re	ceive Date	Matrix	Test
C17030850-001	170324007 Sterling Ranch MD	03/23/17 8:03 0	03/28/17	Groundwater	Azeotropic Distilation 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:

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

ENERGY CABODATORIES	Trust our People. Trust our Data. www.energylab.com	Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 886.686.7175 • Helena, MT 877.472.0711
CLIENT:	Colorado Analytical Laboratories Inc	Report Date: 04/06/17
Project:	170324007 Sterling Ranch MD	Report Date. 04/00/17
Work Order:	C17030850	CASE NARRATIVE

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: Project: Lab ID: Client Sample (D:	Colorado Analytical Lab 170324007 Sterling Rar C17030850-001 170324007 Sterling Rar	ich MD	s inc				Collec	Received:	03/23/17 08:03
Analyses		Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analy	/sis Date / By
VOCS BY AZEOTR	OPIC DISTILLATION								
1,4-Dioxane		ND	ug/L		1.0		SW8260	A 04/08	6/17 09:34 / eli-b
<ul> <li>Analysis by direct a quantitate the 1,4-Direct</li> </ul>	queous injection of the sample of oxane and account for any variat	istillate. A ions in the	deuterated analysis or	version of 1,4-Dio	xane was	added to th	ie sample pi	ior to distillati	on and used to
VOLATILE ORGAN	IIC COMPOUNDS								
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 / ell-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
Bromochioromethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
Fromodichloromethan	e	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
iromoform		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
romomethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
arbon disulfide		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
arbon tetrachloride		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
hlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
hlorodibromomethan	e	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
hloroethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eil-b
-Chloroethyl vinyl eth	er	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
-Chlorotoluene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
-Chlorotoluene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
2-Dibromoethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
libromomethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / ell-b
2-Dichlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
,3-Dichlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
4-Dichlorobenzene		ND	ug/L		1.0		E624	03/31	/17 16:09 / ell-b
ichlorodifiuorom ethal	ne	ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
1-Dichloroethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
2-Dichloroethane		ND	ug/L		1.0		E624	03/31	/17 16:09 / eli-b
1-Dichloroethene			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
s-1,2-Dichioroethene	1		ug/L		1.0		E624	03/31	/17 16:09 / eli-b
ans-1,2-Dichloroethe	ne		ug/L		1.0		E624	03/31	/17 16:09 / eli-b
2-Dichloropropane			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
3-Dichloropropane			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
,2-Dichloropropane			ug/L		1.0		E624	03/31	/17 16:09 / ell-b
1-Dichloropropene			ug/L		1.0		E624	03/31	/17 16:09 / eli-b
is-1,3-Dichloroproper	6	ND			1.0		E624		/17 16:09 / eli-b
ans-1,3-Dichioroprop			ug/L		1.0		E624		/17 16:09 / eli-b
thylbenzene		ND	-		1.0		E624		/17 16:09 / ell-b

Report Definitions:

RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### LABORATORY ANALYTICAL REPORT Prepared by Casper, WY Branch

Client:Colorado Analytical Laboratories IncProject:170324007 Sterling Ranch MDLab ID:C17030850-001Client Sample ID:170324007 Sterling Ranch MD

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

Analyses         Result         Units         Qualifiers         RL         QCL         Method         Analysis Date / i           VOLATILE ORGANIC COMPOUNDS           Methyl tert-butyi ether (MTBE)         ND         ug/L         2.0         E624         03/31/17 16:09 /           Methyl tert-butyi ether (MTBE)         ND         ug/L         20         E624         03/31/17 16:09 /           Methyl tert-butyi ether (MTBE)         ND         ug/L         10         E624         03/31/17 16:09 /           Methyl tert-butyi ketone         ND         ug/L         10         E624         03/31/17 16:09 /           Methyl isobutyi ketone         ND         ug/L         10         E624         03/31/17 16:09 /           Methylene chloride         ND         ug/L         0.50         E624         03/31/17 16:09 /           Naphthalene         ND         ug/L         1.0         E624         03/31/17 16:09 /           Styrene         ND         ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17 16:09 /	20
Methyl tert-butyl ether (MTBE)         ND         ug/L         2.0         E624         03/31/17         16:09 /           Methyl ethyl ketone         ND         ug/L         20         E624         03/31/17         16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17         16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17         16:09 /           Methyl isobutyl ketone         ND         ug/L         10         E624         03/31/17         16:09 /           Methylene chloride         ND         ug/L         1.0         E624         03/31/17         16:09 /           Naphthalene         ND         ug/L         0.50         E624         03/31/17         16:09 /           Styrene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0	28
Methyl ethyl ketone         ND ug/L         20         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND ug/L         10         E624         03/31/17 16:09 /           Methyl isobutyl ketone         ND ug/L         10         E624         03/31/17 16:09 /           Methyl ene chloride         ND ug/L         1.0         E624         03/31/17 16:09 /           Naphthalene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 / <t< td=""><td></td></t<>	
Methyl isobutyl ketone         ND ug/L         10         E624         03/31/17 16:09 /           Methylene chloride         ND ug/L         1.0         E624         03/31/17 16:09 /           Naphthalene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	eli-b
Methylene chloride         ND         ug/L         1.0         E624         03/31/17         16:09 /           Naphthalene         ND         ug/L         0.50         E624         03/31/17         16:09 /           Styrene         ND         ug/L         0.50         E624         03/31/17         16:09 /           Styrene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Tetrachloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1-Trichloroethane         ND         ug/L         1.0         E624         03	eli-b
Naphthalene         ND ug/L         0.50         E624         03/31/17 16:09 /           Styrene         ND ug/L         1.0         E624         03/31/17 16:09 /           Tetrachloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /	eli-b
Styrene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Tetrachloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624<	eli-b
Tetrachloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2,2-Tetrachloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           Toluene         ND         ug/L         1.0         E624         03/31/17         16:09 /           Trichloroethene         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,1-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0         E624         03/31/17         16:09 /           1,1,2-Trichloroethane         ND         ug/L         1.0	eli-b
Instruction         Instruction	eli-b
1,1,2,2-Tetrachloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichlorofiuoromethane         ND ug/L         1.0         E624         03/31/17 16:09 /	ell-b
Toluene         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichloroethene         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichlorofiuoromethane         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 /           1,1,1-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichlorofiuoromethane         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 /           1,1,2-Trichloroethane         ND ug/L         1.0         E624         03/31/17 16:09 /           Trichlorofiuoromethane         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 /           Trichlorofluoromethane         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
	eli-b
4 D D Triphionenene	ell-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 /	∋lí-b
Surr: Toluene-d8 92.0 %REC 80-123 E624 03/31/17 16:09 / 6	ali-b
SEMI-VOLATILE ORGANIC COMPOUNDS	
Acenaphthene ND ug/L 10 E625 03/30/17 17:14 / 0	
Acenaphthylene ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
Anthracene ND ug/L 10 E625 03/30/17 17:14 / 0	
Azobenzene ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
Benzidine ND ug/L 10 E625 03/30/17 17:14 / 0	
Benzo(a)anthracene ND ug/L 10 E625 03/30/17 17:14 / 0	eli <b>-b</b>
Benzo(a)pyrene ND ug/L 10 E625 03/30/17 17:14 / 0	eli-b
Benzo(b)fluoranthene ND ug/L 10 E625 03/30/17 17:14 / 6	eli-b
Benzo(g,h,i)perylene ND ug/L 10 E625 03/30/17 17:14 / 6	elí-b
Benzo(k)fluoranthene ND ug/L 10 E625 03/30/17 17:14 / 6	eli <b>-b</b>
4-Bromophenyl phenyl ether ND ug/L 10 E625 03/30/17 17:14 / 6	eli <b>-b</b>
Butylbenzylphthalate ND ug/L 10 E625 03/30/17 17:14 / 6	
4-Chloro-3-methyiphenoi ND ug/L 10 E625 03/30/17 17:14 / e	eli-b
bis(-2-chloroethoxy)Methane ND ug/L 10 E625 03/30/17 17:14 / 6	li-b
bis(-2-chloroethyl)Ether ND ug/L 10 E625 03/30/17 17:14 / e	li-b
bis(2-chloroisopropyl)Ether ND ug/L 10 E625 03/30/17 17:14 / 6	li-b
2-Chloronaphthalene ND ug/L 10 E625 03/30/17 17:14 / e	d b
2-Chlorophenol ND ug/L 10 E625 03/30/17 17:14 / e	-11-12

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### 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 DateReceived: 03/28/17 Matrix: Groundwater

					MCL/	
Analyses	Result	Units	Qualifiers	RL	QCL Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS	,					
4-Chlorophenyl phenyl ether	ND	ug/L		10	E625	03/30/17 17:14 / ell-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-butyi phthalate	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
1.2-Dichlorobenzene	ND			10	E625	03/30/17 17:14 / ell-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
		_		10	E625	03/30/17 17:14 / eli-b
2,4-Dichlorophenol	ND	ug/L				
Dimethyl phthaiate	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 / ell-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 / ell-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 / ell-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 / ell-b
n-Nitrosodimethylamine	ND	ug/L		10	E625	03/30/17 17:14 / ell-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 / ell-b
4-Nitrophenol	ND	ug/L		50	E625	03/30/17 17:14 / eli-b
	ND	-		10	E625	03/30/17 17:14 / eli-b
Naphthalene		ug/L		10	E625	03/30/17 17:14 / eli-b
Nitrobenzene	ND	ug/L				03/30/17 17:14 / eli-b
Pentachiorophenol	ND	ug/L		50	E625	
Phenanthrene	ND	ug/L		10	E625	03/30/17 17:14 / eli-b
Phenoi		ug/L		10	E625	03/30/17 17:14 / eli-b
Pyrene		ug/L		10	E625	03/30/17 17:14 / eli-b
1,2,4-Trichlorobenzene		ug/L		10	E625	03/30/17 17:14 / eli-b
2,4,6-Trichlorophenol		ug/L		10	E625	03/30/17 17:14 / ell-b
Surr: 2-Fluorobiphenyl		%REC		28-107	E625	03/30/17 17:14 / eli-b
Surr: 2-Fluorophenol		%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: Phenoi-d5	27.0	%REC		1 <b>9-4</b> 5	E625	03/30/17 17:14 / eli-b

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.



### 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 DateReceived: 03/28/17 Matrix: Groundwater

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



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							Ar	alytical Run	R277281
Lab ID: ccv033117	Continuing Ca	libration Verit	fication Standa	ard				03/31	1/17 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-Chiorotoluene	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			
cls-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.



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							Ar	alytical Run:	R277281
Lab ID: ccv033117	Continuing Ca	libration Verif	ication Stands	ard				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-Tetrachlorcethane	4.72	ug/L	0.50	94	70	130			
1,1,2,2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130			
Toluene	4.76	ug/L	0.50	95	70	130			
Trichlorcethene	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			
Trichiorofluoromethane	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: [cs033117	Laboratory Co	ntrol Comple			Bue: 5071/	A.I_170331A			/17 09:19
	56.0	ug/L	20	112	55	144		60101.	111 00.10
Acetone Acetonitrile	56.8	-	20	114	55 54	144			
Acrolein	42.4	ug/L	20	85	54 16	233			
	48.4	ug/L	20	97	76	127			
Acrylonitrile	40.4	ug/L	20 0.50		78				
Benzene		u <b>g/L</b>		98		122			
Bromobenzene	4.96	ug/L	0.50	99	74	129			
Bromochloromethane	5.16	ug/L	0.50	103	66	120			
Bromodichioromethane	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 disuifide	5.36	ug/L	0.50	107	46	145			
Carbon tetrachloride	5.72	ug/L	0.50	114	75	125			
Chiorobenzene	4.64	ug/L	0.50	93	80	123			
Chiorodibromomethane	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.



Prepared by Billings, MT Branch

#### Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

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

Analyte	<b>Result</b>	Jnits	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624								Batch:	R277281
Lab ID: Ics033117	Laboratory Contr	ol Sample			Run: 5971/	A.I_170331A		03/31	/17 09:19
1,2-Dichlorobenzene	4.96 1	ıg/L	0.50	99	74	124			
1,3-Dichlorobenzene	5.12 0	ig/L	0.50	102	77	122			
1,4-Dichlorobenzene	4.96 (	ig/L	0.50	99	76	126			
Dichlorodifluoromethane	5.60 i	ıg/L	0.50	112	56	146			
1,1-Dichloroethane	4.72	íg/L	0.50	94	74	133			
1,2-Dichloroethane	5.76 เ	íg/L	0.50	<b>115</b>	75	129			
1,1-Dichloroethene	5.16 i	ig/L	0.50	103	74	132			
cis-1,2-Dichloroethene	4.88 i	ıg/L	0.50	98	81	122			
trans-1,2-Dichloroethene	5.12 (	ig/L	0.50	102	79	143			
1,2-Dichloropropane	4.60 (	ıg/L	0.50	92	75	126			
1,3-Dichloropropane	4.68 เ	ig/L	0,50	94	71	136			
2,2-Dichloropropane	5.68 נ	ig/L	0.50	114	68	142			
1,1-Dichloropropene	5.00 u	ig/L	0.50	100	70	131			
cis-1,3-Dichloropropene	4.40 (	ıg/L	0.50	88	74	135			
trans-1,3-Dichloropropene	4.84 (	ıg/L	0.50	97	76	149			
Ethylbenzene	4.96 (	ıg/L	0.50	99	72	130			
Methyl tert-butyl ether (MTBE)	5.12 u	ig/L	0.50	102	72	120			
Methyl ethyl ketone	52.0 L	ig/L	20	104	45	130			
Methyl isobutyl ketone	50.8 L	ig/L	20	102	58	135			
Methylene chloride	6.08 L	ig/L	0.50	122	66	142			
Naphthalene	5.60 L	ig/L	0.50	112	69	124			
Styrene	4.56 L	ig/L	0.50	91	80	124			
Tetrachloroethene	4.72 u	ig/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane		g/L	0.50	93	78	124			
1,1,2,2-Tetrachloroethane		lg/L	0.50	95	68	137			
Toluene		ig/L	0.50	95	72	135			
Trichloroethene		ig/L	0.50	96	85	126			
1,1,1-Trichloroethane	5.40 u	ig/L	0.50	108	63	120			
1,1,2-Trichloroethane		ig/L	0.50	90	78	124			
Trichlorofluoromethane		g/L	0.50	90	72	120			
1,2,3-Trichloropropane		g/L	0.50	94	64	138			
Vinyl Acetate		g/L	1.0	95	31	124			
Vinyi chloride		g/L	0.50	95	58	140			
m+p-Xylenes		g/L	0.50	91	67	139			
o-Xylene		g/L	0.50	90	74	135			
Xylenes, Total	13.6 u	g/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: bik033117	Method Blank				Run: 5971A			03/31	17 10:18
Acetone	ND u	g/L	20						
Acetonitrile	ND u	g/L	20						

**Qualifiers:** 

RL - Analyte reporting limit.



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 Hig	ih Limit	RPD	RPDLimit	Quai
Method: E624							Batch:	R277281
Lab (D: bik033117	Method Blank			Run: 5971A.I_1	70331A		03/31	/17 10:18
Acrolein	ND	ug/L	20	_				
Acrylonitrile	ND	ug/L	20					
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-Chiorotoluene	ND	ug/L	0.50					
4-Chiorotoluene	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					
Dichlorodifiuoromethane	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					
	ND	-	0.50					
2,2-Dichloropropane	ND	ug/L	0.50					
1,1-Dichloropropene		ug/L						
cis-1,3-Dichloropropene	ND	ug/L	0.50					
trans-1,3-Dichloropropene	ND	ug/L	0.50					
Ethylbenzene Mathyl tart hutul athen (MTRE)	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.



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								Batch:	R27728
Lab (D: bik033117	Method Blank	t			Run: 5971/	A.I_170331A		03/31	/17 10:18
1,1,1,2-Tetrachloroethau	ne ND	ug/L	0.50						
1,1,2,2-Tetrachloroetha	ne ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
I,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
richlorofluoromethane	ND	u <b>g/L</b>	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						
/inyl Acetate	ND	ug/L	1.0						
/inyl chloride	ND	ug/L	0.50						
n+p-Xylenes	ND	ug/L	0.50						
-Xylene	ND	ug/L	0.50						
(yienes, Total	ND	ug/L	0.50						
Surr: 1,2-Dichloroetha	ane-d4	-	0.50	105	71	139			
Surr: p-Bromofluorob			0.50	104	80	127			
Surr: Toluene-d8			0.50	92	80	123			
ab  D: b1703187	5-001dms Sample Matrix	x Spike			Run: 5971/	A.I_170331A		03/31	/17 14:1:
cetone	378	u <b>g/L</b>	100	109	55	144			
cetonitrile	274	ug/L	100	110	54	142			
lenzene	24.6	ug/L	2.5	98	73	122			
romobenzene	24.8	ug/L	2.5	99	74	129			
romochloromethane	25.2	ug/L	2.5	101	66	120			
romodichloromethane	26.2	ug/L	2.5	105	74	128			
Bromoform	27.0	ug/L	2.5	108	66	128			
Iromomethane	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			
chiorobenzene	22.8	ug/L	2.5	91	80	123			
hlorodibromomethane	26.8	ug/L	2.5	107	74	125			
Chloroethane	20.2	ug/L	2.5	81	59	142			
Chieroform	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			
-Chlorotoluene	25.8	ug/L	2.5	103	74	129			
,2-Dibromoethane	24.0	ug/L	2.5	96	76	124			
Dibromomethane	26.2	ug/L	2.5	105	77	125			
,2-Dichlorobenzene	24.6	ug/L	2.5	98	74	124			
,3-Dichlorobenzene	24.6	ug/L	2.5	98	77	122			
,4-Dichlorobenzene	24.6	ug/L	2.5	98	76	126			
) Dichlorodifiuoromethane		ug/L	2.5	108	56	146			
,1-Dichloroethane	24.2	ug/L	2.5	97	74	133			
-	29.2	ug/L	2.5	117	75	129			

Qualifiers:

RL - Analyte reporting limit.



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								Batch:	R277281
Lab ID: b17031875-001dms	Sample Matri	k Spike			Run: 5971	A.I_170331A		03/31	/17 14:12
1,1-Dichloroethene	26.6	ug/L	2.5	106	74	132			
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-Dichioropropene	25.2	ug/L	2.5	101	70	131			
cis-1,3-Dichloropropene	22.2	ug/L	2.5	89	74	135			
trans-1,3-Dichloropropene	24.6	ug/L	2.5	98	76	149			
Ethylbenzene	23.6	ug/L	2.5	94	72	130			
Methyl tert-butyl ether (MTBE)	25.6	ug/L	2.5	102	72	120			
Methyl ethyl ketone	268	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	69	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-Tetrachioroethane	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	26.8	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: 5971/	.I_170331A		03/31	/ <b>17 15:1</b> 1
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	28.4	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.



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	RPOLimit	Qual
Method:	E624								Batch:	R27728
Lab ID:	b17031875-001dmsd	Sample Matrix	c Spike Duplicate			Run: 5971/	A.I_170331A		03/31	/17 15:11
Carbon dis	ulfide	25.6	ug/L	2.5	102	46	145	3.1	20	
Carbon tet	rachloride	28.6	ug/L	2.5	114	75	125	1.4	20	
Chlorobena	zene	23.6	ug/L	2.5	94	80	123	3.4	20	
Chlorodibro	omomethane	28.0	ug/L	2.5	112	74	125	4.4	20	
Chloroetha	ine	20.6	ug/L	2.5	82	59	142	2.0	20	
Chloroform	1	33.6	ug/L	2.5	111	68	124	1.2	20	
Chlorometi	hane	19.3	ug/L	2.5	77	53	146	3.8	20	
2-Chloratol	luene	26.4	ug/L	2.5	106	75	131	6.2	20	
4-Chlorotol	uene	27.2	ug/L	2.5	109	74	129	5.3	20	
1.2-Dibrom	oethane	24.0	ug/L	2.5	96	76	124	0.0	20	
Dibromome	ethane	26.8	ug/L	2.5	107	77	125	2.3	20	
1,2-Dichlor		25.8	ug/L	2.5	103	74	124	4.8	20	
1,3-Dichlor		26.0	ug/L	2.5	104	77	122	5.5	20	
1,4-Dichior		25.4	ug/L	2.5	102	76	126	3.2	20	
	luoromethane	25.8	ug/L	2.5	103	56	146	4.5	20	
1,1-Dichlor		24.8	ug/L	2.5	99	74	133	2.4	20	
1,2-Dichlor		29.2	ug/L	2.5	117	75	129	0.0	20	
1,1-Dichlor		26.8	ug/L	2.5	107	74	132	0.7	20	
•	hloroethene	25.2	ug/L	2.5	101	81	122	3.2	20	
	lichloroethene	26.4	ug/L	2.5	106	79	143	2.3	20	
1,2-Dichlor		23.6	ug/L	2.5	94	75	126	2.6	20	
1,3-Dichlor	• •	23.8	ug/L	2.5	95	71	136	6.1	20	
2,2-Dichlor		28.6	ug/L	2.5	114	68	142	2.1	20	
1,1-Dichlor		25.8	ug/L	2.5	103	70	131	2.4	20	
•	hloropropene	23.2	ug/L	2.5	93	74	135	4.4	20	
	lichloropropene	25.4	ug/L	2.5	102	76	149	3.2	20	
Ethylbenze		25.0	ug/L	2.5	100	72	130	5,8	20	
	-buty! ether (MTBE)	26.6	ug/L	2.5	106	72	120	3.8	20	
Methyl ethy		292	ug/L	100	117	45	130	8.6	20	
	putyl ketone	286	ug/L	100	114	43 58	135	10	20	
		31.4		2.5	126	66	142	2.5	20	
Methylene Naphthaler		27.8	ug/L	2.5	111	69	142	0.7	20	
	16	27.8	ug/L	2.5	91		124	1.8	20	
Styrene	- the		ug/L			80				
		23.8	ug/L	2,5 2.5	95 93	72 78	131 124	4.3 0,9	20 20	
	rachloroethane	23.2	ug/L							
	rachloroethane	27.4	ug/L	2.5	110	68	137	5.2	20	
Toluene Trick(croot)		24.4	ug/L	2.5	95 100	72	135	0.0	20	
Trichloroeti		25.0	ug/L	2.5	100	85	126	4.9	20	
	loroethane	27.4	ug/L	2.5	110	63	120	2.2	20	
1,1,2-Trich		24.8	ug/L	2.5	99	78	124	5.8	20	
	oromethane	22.4	ug/L	2.5	90	72	120	5.5	20	
	loropropane	26.8	ug/L	2.5	107	64	138	2.3	20	
Vinyl Aceta	te	24.4	ug/L	5.0	98	31	124	0.0	20	

**Qualifiers:** 

RL - Analyte reporting limit.



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								Batch:	R277281
Lab ID:	b17031875-001dmsd	Sample Matrix	k Spike Duplicate			Run: 5971/	A.I_170331A		03/31	/17 15:11
Vinyl chlo	ride	22.8	ug/L	2.5	91	58	140	0.9	20	
m+p-Xyler	nes	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, 1	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: To	oluene-d8			2.5	93	80	123			



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								Bato	h: 107942
Lab ID:	MB-107942	Method Blank				Run: SV59	73N2.I_170330B		03/30	0/17 16:12
Acenaphthe	ene	ND	ug/L	10						
Acenaphth)	/lene	ND	ug/L	10						
Anthracene		ND	ug/L	10						
Azobenzen	e	ND	ug/L	10						
<b>Benzidine</b>		ND	ug/L	10						
Benzo(a)an	thracene	ND	ug/L	10						
Benzo(a)py	rene	ND	ug/L	10						
Benzo(b)fiu	oranthene	ND	ug/L	10						
Benzo(g,h,i	)perylene	ND	ug/L	10						
Benzo(k)flu	oranthene	ND	ug/L	10						
4-Bromophe	enyl phenyl ether	ND	ug/L	10						
Butylbenzyl	phthalate	ND	ug/L	10						
4-Chloro-3-	methylphenol	ND	ug/L	10						
bis(-2-chior	oethoxy)Methane	ND	ug/L	10						
bis(-2-chlore	pethyl)Ether	ND	ug/L	10						
bis(2-chloro	isopropyl)Ether	ND	ug/L	10						
2-Chlorona	ohthalene	ND	ug/iL	10						
2-Chloroph	BNO	ND	ug/L	10						
4-Chlorophe	anyl phenyl ether	ND	ug/L	10						
Chrysene		ND	ug/L	10						
Diethyl phth	alate	ND	ug/L	10						
Di-n-butyl p	hthalate	ND	ug/L	10						
1,2-Dichloro	benzene	ND	ug/L	10						
1,3-Dichlord	benzene	ND	ug/L	10						
1,4-Dichlord	benzene	ND	ug/L	10						
3,3'-Dichlor	obenzidine	ND	ug/L	10						
2,4-Dichloro	phenol	ND	ug/L	10						
Dimethyl ph		ND	ug/L	10						
Di-n-octyl pl		ND	ug/L	10						
	i)anthracene	ND	ug/L	10						
2,4-Dimethy	•	ND	ug/L	10						
	2-methylphenol	ND	u <b>g</b> /L	50						
2,4-Dinitrop		ND	ug/L	50						
2,4-Dinitroto		ND	ug/L	10						
2,6-Dinitroto		ND	ug/L	10						
	exyl)Phthalate	ND	ug/L	10						
Fluoranthen	e	ND	ug/L	10						
Fluorene		ND	ug/L	10						
Hexachlorol		ND	ug/L	10						
Hexachlorol		ND	ug/L	10						
	cyclopentadiene	ND	ug/L	10						
Hexachloroe		ND	ug/L	10						
Indeno(1,2,	3-cd)pyrene	ND	ug/L	10						

#### **Qualifiers:**

RL - Analyte reporting limit.



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 U	nits Ri	. %REC	Low Limit	High Limit	RPD	RPDLimit	Quai
Method: E625							Batcl	n: <b>10794</b> 2
Lab ID: MB-107942	Method Blank			Run: SV59	73N2.I_170330B		03/30	/17 16:12
Isophorone	ND uş	g/L 10						
n-Nitrosodimethylamine	ND ug	g/L 10						
n-Nitroso-di-n-propylamine	ND uş	g/L 10						
n-Nitrosodiphenylamine	ND uş	g/L 10						
2-Nitrophenol	ND uş	<b>j/L 1</b> 0						
4-Nitrophenol	ND uş	g/L 50						
Naphthalene	ND uş	g/L 10						
Nitrobenzene	ND uş	g/L 10						
Pentachlorophenol	ND uş	g/L 58						
Phenanthrene	ND uş	g/L 10						
Phenol	ND ug	g/L 10						
Pyrene	ND uç	g/L 10						
1,2,4-Trichlorobenzene	ND uş	g/L 10						
2,4,6-Trichlorophenol	ND ug	g/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	i Sample		Run: SV59	73N2. _170330B		03/30	/17 16:43
Acenaphthene	89.1 ug	g/L 10		58	99			
Acenaphthylene	<b>84.2</b> ug	g/L 10		57	96			
Anthracene	75.6 ug	g/L 10		60	107			
Azobenzene	78.0 ug	g/L 10		56	100			
Benzidine	53.1 ug	g/L 10	53	10	100			
Benzo(a)anthracene	86.4 ug	g/L 10		62	114			
Benzo(a)pyrene	84.7 ug	g/L 10		62	108			
Benzo(b)fluoranthene	gu 8.68	g/L 10		48	127			
Benzo(g,h,i)perylene	87.2 ug	g/L 10		62	121			
Benzo(k)fluoranthene	84.0 ug	g/L 10		55	111			
4-Bromophenyl phenyl ether	87.1 uç	g/L 10	87	58	105			
Butylbenzylphthalate	90.8 ug	g/L 10	91	60	113			
4-Chloro-3-methyiphenoi	74.6 ug	g/L 10		53	92			
bis(-2-chloroethoxy)Methane	69.9 ug	g/L 10		50	92			
bis(-2-chloroethyl)Ether	72.1 ug	g/L 10		44	82			
bis(2-chloroisopropyl)Ether		g/L 10		56	87			
2-Chloronaphthalene		g/L 10		56	95			
2-Chlorophenol		J/L 10		47	76			
4-Chlorophenyl phenyl ether		g/L 10		58	99			
Chrysene		g/L 10		63	106			
Diethyl phthalate	84.6 ug	y/L 10	85	58	103			

**Qualifiers:** 

RL - Analyte reporting limit.



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								Batc	h: 107942
Lab ID: LCS-107942	Laboratory Con	trol Sample			Run: SV59	73N2.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			
Hexachiorobutadiene	71.7	ug/L	10	72	39	83			
Hexachiorocyclopentadlene	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	49	98			
n-Nitrosodiphenyiamine	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			
Pentachiorophenol	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: Phenoi-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.



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								Batcl	h: 107942
Lab (D:	C17030850-001CMS	Sample Matri	k Spike			Run: SV59	73N2.I_1703308	ł	03/30	/17 17:45
Acenaphthe	ene	86.7	ug/L	10	87	58	99			
Acenaphth	ylene	75.5	ug/L	10	76	57	96			
Anthracene	)	81.6	ug/L	10	82	60	107			
Azobenzen	e	84.6	ug/L	10	85	56	100			
Benzidine		122	ug/L	20	122	10	100			S
Benzo(a)an	thracene	83.4	ug/L	10	83	62	114			
Benzo(a)py	rene	78.4	ug/L	10	78	62	108			
Benzo(b)flu	oranthene	79.9	ug/L	10	80	48	127			
Senzo(g,h,i	)perylene	83.2	ug/L	10	83	62	121			
Benzo(k)flu	oranthene	84.5	ug/L	10	84	55	111			
4-Bromoph	enyl phenyl ether	79.5	u <b>g</b> /L	10	79	58	105			
Butylbenzyl	phthalate	89.2	ug/L	10	89	60	113			
4-Chloro-3-	methylphenol	78.3	ug/L	10	78	53	92			
bis(-2-chlor	oethoxy)Methane	77.9	ug/L	10	78	50	92			
bis(-2-chlor	oethyl)Ether	71.5	ug/L	10	71	44	82			
bis(2-chloro	bisopropyl)Ether	58.4	ug/L	10	58	56	87			
2-Chlorona	phthalene	77.6	ug/L	10	78	56	95			
2-Chloroph	enol	63.7	ug/L	10	64	47	76			
4-Chiorophe	enyi phenyi ether	81.0	ug/L	10	81	58	99			
Chrysene		85.9	ug/L	10	86	63	106			
Diethyl phth	nalate	84.0	ug/L	10	84	58	103			
Di-n-butyl p	hthalate	87.0	ug/L	10	87	61	110			
1,2-Dichlord	obenzene	67.3	ug/L	10	67	43	81			
1,3-Dichloro	obenzene	66.0	ug/L	10	66	41	79			
1,4-Dichloro	obenzene	66.7	u <b>g</b> /L	10	67	42	79			
3,3'-Dichlor	obenzidine	131	ug/L	10	131	51	93			S
2,4-Dichlord	-	70.0	ug/L	10	70	49	90			
Dimethyl ph		79.3	ug/L	10	79	58	104			
Di-n-octyi pi		81.8	ug/L	10	82	56	110			
	i)anthracene	80.1	ug/L	10	80	61	111			
2,4-Dimethy		70.7	ug/L	10	71	45	87			
	2-methylphenol	53.1	ug/L	50	53	37	105			
2,4-Dinitrop		43.0	ug/L	50	43	27	81			
2,4-Dinitroto		85.6	ug/L	10	86	63	110			
2,6-Dinitroto		81.5	ug/L	10	81	60	107			
	exyl)Phthalate	77.5	ug/L	10	77	56	108			
Fluoranthen	e	84.0	ug/L	10	84	63	110			
Fluorene		80.0	ug/L	10	80	60	89			
Hexachlorot		78.2	ug/L	10	78	57	103			
Hexachlorob		69.1	ug/L	10	69	39	83			
	cyclopentadiene	69.0	u <b>g</b> /L	10	69	39	91			
Hexachloroe		62. <del>6</del>	ug/L	10	63	37	75			
Indeno(1,2,3	3-cd)pyrene	76.3	ug/L	10	7 <del>6</del>	59	109			

**Qualifiers:** 

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



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								Batc	n: 107942
Lab ID: C17030850-001CMS	Sample Matrix	c Spike			Run: SV59	73N2.I_170330B		03/30	/17 17:45
lsophorone	71.4	ug/L	10	71	42	102			
n-Nitrosod/methylamine	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	36			
Naphthalene	75.6	ug/L	10	76	48	96			
Nitrobenzene	75 <b>.6</b>	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			



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			-				Ana	alytical Run:	R277253
Lab ID: 30-Mar-17_CCV_11	Continuing Ca	libration V	erification Standa	Ird				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,l)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	u <b>g</b> /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	u <b>g</b> /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 2,6-Dinitrotoluene	79.8	ug/L	10	106	80	120			
	80.8	ug/L	10	108	80	120			
bis(2-ethylhexyl)Phthalate Fluoranthene	77.3	ug/L	10	103	80	120			
Fluorene	76.8 82.8	ug/L	10	102	80 80	120			
Hexachiorobenzene	82.8 74.2	ug/L	10	110	80	120			
Hexachlorobutadiene	74.2	ug/L	10	99	80 80	120			
Hexachiorocyclopentadiene	73.0	ug/L	10	97 106	80 80	120			
Hexachloroethane	74.4	ug/L	10 10	106	80	120			
Indeno(1,2,3-cd)pyrene	73.3	ug/L		99 08	80 80	120			
	f 3.3	ug/L	10	98	80	120			

**Qualifiers:** 

RL - Analyte reporting limit.



-

# **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							Ar	aiytical Run:	R277253
Lab ID: 30-Mar-17_CCV_11	Continuing Ca	libration Verific	cation Standa	urd				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-Trichiorobenzene	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			



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:	SW8260M							1	Analytical Ru	n: 108173
Lab ID:	CCV-108173	Continuing Ca	libration Verificatio	n Standa	ırd				04/06	/17 08:29
1,4-Dioxane		95.7	ug/L	1.0	96	80	120			
Method:	SW8260M								Batcl	h: 108173
Lab ID:	LCS-108173	Laboratory Control Sample			Run: VOA5973A.I_170406A			04/06/17 08:51		
1,4-Dioxane		87.5	ug/L	1.0	88	70	130			
Lab ID:	MB-108173	Method Blank				Run: VOA5	5973A.I_170406A		04/06	/17 09:12
1,4-Dioxane		ND	ug/L	1.0						
Lab ID:	C17030850-001AMS	Sample Matrix			Run: VOA5973A.I_170406A			04/06	/17 09:55	
1,4-Dioxane		194	ug/L	2.0	97	70	130			
Lab (D:	C17030850-001AMSD	0-001AMSD Sample Matrix Spike E			Run: VOA5973A.I_170406A			04/06	/17 10:17	
1,4-Dioxane		206	ug/L	2.0	103	70	130	6.0	20	



C17030850

# Work Order Receipt Checklist

# Colorado Analytical Laboratories Inc

Login completed by:	Corinne Wagner		Date	Received: 3/28/2017				
Reviewed by:	Kasey Vidick		Received by: ckw					
Reviewed Date:	3/29/2017		Carrier name: Ground					
Shipping container/cooler in	Yes 🔽	No 🗌	Not Present					
Custody seals intact on all sh	Yes	No 🗌	Not Present 🗹					
Custody seals intact on all sa	Yes	No 🗌	Not Present					
Chain of custody present?		Yes 🗹	No					
Chain of custody signed whe	Yes 🗸	No 🗌						
Chain of custody agrees with	Yes 🗹	No 🗌						
Samples in proper container/	Yes 🖌	No 🗌						
Sample containers intact?		Yes 🗸	No 🗌					
Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌					
Ail samples received within h (Exclude analyses that are co such as pH, DO, Res Cl, Sul	onsidered field parameters	Yes 🗹	No 🗌					
Temp Blank received in all sh	Yes 🗌	Na 🗸	Not Applicable					
Container/Temp Blank temperature:		6.6°C On Ice -	From Field					
Water - VOA vials have zero	Yes 🗹	No 🗌	No VOA vials submitted					
Water - pH acceptable upon i	receipt?	Yes	No 🗌	Not Applicable				

### **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

	Latorado Analytical	Brighton Lab	240 South Main Street Brighton, CO 80601	Lakewood Lab	Lakewood CO 80228	L Phone: 303-659-2313 Fax: 303-659-2315	www.coloradolab.com			UTABOSO				· · · · · · · · · · · · · · · · · · ·							Seals Present Yes D No D U.S. O	Temp. 0 0. Clice YCS Sample Pres. Yes □ No □	Received By: Date/Time:	NDSA ZANA
	Project Name	170324007	Sterling Ranch MD	Task Number (Lab Use Only)	CAL Task No. CS-1	ţ	ARF 10 10	Disposal Date(Lab Use Only)					oid-	2005 : 1007 ; 10104	¢79 978						Seals P	C/S Charge [] Temp.		Y. 11 1
Chain of Custody Form	Bill To Information (If different from report to)	Company Name: Same	Contact Name:	Address:		City State Zip	Phone: Fax:		PO No.:			Tissue	k Ou		or (						C/S Info:	Deliver Via:	Date/Time:	
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	Report To Information	Company Name: Color	Contact Name: Stuart Nielson	Address: B O Box 507	240 S Main St		Phone:303-659-2313	Email: stuarmielson@coloradolab.com	Sample Collector:		の現代では、おけんは、自己の意思	Waste Water	Ground Water 🛛	Surface Water		3/23/17 08:03					Instructions:UPS to Energy Labs		Refinquished By:	1-11-Carcien

Appendix D

### SUBDIVISION IMPROVEMENTS AGREEMENT HOMESTEAD AT STERLING RANCH FILING NO. 2, a Replat of Tract E, Sterling Ranch Filing No. 1

THIS AGREEMENT, made between SR LAND, L.L.C., (the "Subdivider") STERLING RANCH METROPOLITAN DISTRICT NO. 1 (the "District"), ELITE PROPERTIES OF AMERICA, INC. ("Elite"), and EL PASO COUNTY, by and through the Board of County Commissioners of El Paso County, Colorado (the "County"), shall become effective the date of approval of the Final Plat by the Board of County Commissioners.

#### WITNESSETH:

WHEREAS, the Subdivider, as a condition of approval of the final plat of Homestead at Sterling Ranch Filing No. 2 Subdivision ("Homestead No. 2"), and the District wish to enter into a Subdivision Improvements Agreement, as provided for by Section 30-28-137 (C.R.S.), Chapter 5 of the El Paso County Engineering Criteria Manual and Chapter 8 of the El Paso County Land Development Code incorporated herein; and

WHEREAS, pursuant to the same authority, the Subdivider is obligated to provide security or collateral sufficient in the judgment of the Board of County Commissioners to make reasonable provision for completion of certain public improvements set forth on Exhibit A attached hereto and incorporated herein; and

WHEREAS, the Subdivider wishes to provide collateral to guarantee performance of this Agreement, including construction of the above-referenced improvements, by means of a letter of credit; and

WHEREAS, Elite wishes to provide the collateral required to secure performance of the Subdivider's and the District's obligations to complete the wastewater connection to the Meridian System (as defined in paragraph 5c. hereof) (the "Meridian System Connection"), as described in this Agreement; and

**WHEREAS**, Homestead No. 2 is replat of Tract E, Sterling Ranch Filing No. 1, located within Sterling Ranch, a 1,443-acre master planned community; and

**WHEREAS**, the parties hereto desire to set forth their understanding and agreement with regard to the construction and installation of the improvements set forth on Exhibit A attached hereto.

**NOW, THEREFORE**, in consideration of the following mutual covenants and agreements, the Subdivider, the District and the County agree as follows:

1. **Responsibility to Construct**: The Subdivider and District agree to construct and install, at their sole expense, all of those improvements as set forth on Exhibit A attached hereto. Such obligation shall be joint and several unless otherwise set forth herein. To secure and guarantee performance of their obligations as set forth herein, the Subdivider agrees to provide collateral to remain in effect at all times until the improvements are completed and accepted in accordance with Chapter 5 of the ECM. Security and collateral for the Briargate Pavement improvements identified in Exhibit A shall be posted in the form of a letter of credit issued by Integrity Bank & Trust in the amount of \$260,355.56. Security and collateral for all other improvements identified in Exhibit A shall be posted in the form of a letter of a letter of credit issued by Integrity Bank & Trust in the amount of \$260,355.56.

With respect to the Meridian System Connection only, the financial assurance estimate for which is attached hereto as Exhibit B and incorporated herein, and to secure and guarantee performance of the Subdivider's and the District's obligations for the installation and construction of the Meridian System Connection only, Elite agrees to provide collateral to remain in effect at all times until the Meridian System Connection improvements are completed and accepted in accordance with Chapter 5 of the ECM. Security and collateral for the Meridian System Connection shall be posted in the form of a Subdivision Bond issued by Philadelphia Insurance Companies in the amount of \$618,300 (the "Meridian System Connection Collateral").

- 2. **Renewal of Collateral**: Subdivider and Elite are responsible for providing any renewals of their respective collateral to ensure that there is never a lapse in security coverage. Subdivider and Elite shall procure renewal/extension/replacement collateral at least fifteen (15) days prior to the expiration of the original or renewal/extension/replacement collateral then in effect. Failure to procure renewal/extension/replacement collateral within this time limit shall be a default under this Agreement and shall allow the County to execute on the collateral. In addition, if Subdivider or Elite allows collateral to lapse at any time, no lots in the subdivision may be sold, conveyed or transferred, whether by Deed or Contract, after the expiration date of such collateral until the improvements identified on Exhibits A and B have been completed and final acceptance is received from the County. If replacement collateral is used for renewal, approval by the Board of County Commissioners is required.
- 3. **Construction of Improvements or Collateral**: No lots in the subdivision shall be sold, conveyed or transferred, whether by Deed or by Contract, nor shall building permits be issued until and unless the required improvements for the subdivision have been constructed and completed in accordance with the approved construction plans and preliminary acceptance is received from the County. In the alternative, lots within the subdivision may be sold, conveyed or transferred and/or have building permits issued upon receipt of collateral acceptable to the County, pursuant to this Agreement, which is sufficient to guarantee construction of the improvements in the attached Exhibits A and B.
- 4. **Design Standards**: The Subdivider and District agree that all of the public improvements to be completed as identified in <u>Exhibit A</u> shall be constructed in compliance with the following:
  - a. All laws, resolutions and regulations of the United States, State of Colorado, El Paso County and its various agencies, affected special districts and/or servicing authorities.
  - b. Such other designs, drawings, maps, specifications, sketches and other matter submitted to and approved by any of the above-stated- governmental entities.

# 5. **Timing of Construction and Acceptance**:

a. **General**. All improvements, with the exception of the Homestead No. 2 Drainage Improvements, the Channel Improvements (as defined in subsection 5.b. herein below), and the Meridian System, including the Meridian System Connection, shall be completed by the Subdivider, meeting all applicable standards for preliminary acceptance, within 24 (twenty-four) months from the date of notice to proceed in the Construction Permit for the Subdivision.

### b. Drainage Improvements and Channel Improvements.

The drainage ways, detention ponds and bank stabilization (i.e., soil, riprap, and turf reinforcement matting along embankment toes and slopes) associated with this Subdivision (collectively, the "Homestead No. 2 Drainage Improvements") shall be completed by the Subdivider, meeting all applicable standards for preliminary acceptance, within twelve (12) months of recording the final plat.

The drainage improvements in Tract D, Sterling Ranch Filing No. 1, located in the Sand Creek Channel, which improvements consist of drop structures, check structures and similar stabilization or protection improvements (collectively, the "Channel Improvements"), shall be completed by the District within the time frames set forth in subsection 6.b. of the *Subdivision Improvements Agreement for Sterling Ranch Filing No. 1*, dated May 30, 2018, and recorded in the real property records for El Paso County, Colorado at reception number 218061175.

If the Subdivider determines that the completion date needs to be extended, the Subdivider shall submit a written request for a change in the completion date to the ECM Administrator at least 90 days in advance of the completion date. The request shall include the reasons for the requested change in completion date, the proposed new completion date, and prove collateral is in place to cover the extension time requested. The completion date for the Subdivision may be extended one time, for a period no longer than 6 months at the discretion of the ECM Administrator. Any additional request for extension of the completion date will be scheduled for hearing by the Board of County Commissioners. The ECM Administrator or the Board of County Commissioners may require an adjustment in the amount of collateral to take into account any increase in cost due to the delay including inflation.

- c. Vollmer Road. As more particularly described in the Subdivision Improvements Agreement for Sterling Ranch Filing No. 1, the parties agree that the addition of two lanes to the existing two-lane cross section of Vollmer Road shall be completed no later than May 30, 2021, three years from the date of recording of Filing No. 1. In the event that any portions of the four lane cross section of Vollmer Road are not completed within the three year period, collateral sufficient in the opinion of the County to assure completion of the improvements must be posted by the Subdivider and a deadline by which such road improvements shall be completed shall be established by written agreement.
- d. **Wastewater Treatment**. The District has an intergovernmental agreement, dated on or about September 11, 2014, with Meridian Service Metropolitan District for the provision of wastewater treatment services (the "Meridian System"). The District has also entered into an intergovernmental agreement with the City of Colorado Springs and Colorado Springs Utilities which

provides for temporary wastewater treatment services while the District completes its connection to the Meridian System. The agreement with the City provides for interim treatment services for a period of up to one year from the execution of the agreement, or August 12, 2020.

Subdivider shall provide construction drawings for the Meridian System Connection, including the sewer line and lift station, that have been signed by the Meridian Service Metropolitan District, as well as Financial Assurance Estimates for the completion of such improvements (the "Meridian Line Collateral") to the County prior to final plat recording. As set forth in section 1 above, Elite shall provide collateral to assure the completion of the Meridian System Connection. It is agreed by the parties hereto that if the Meridian System Connection is not substantially completed by June 30, 2020, or if the City of Colorado Springs has not by that date extended the interim wastewater agreement beyond the August 12, 2020 date, the County may draw on the Meridian System Connection Collateral to complete the Meridian System Connection. It is understood by the parties hereto that, should it become necessary for the County to draw on the Meridian System Connection Collateral to complete the c Meridian System Connection, the County intends to authorize and designate Elite Properties of America, Inc. as the appropriate entity to complete said connection. A copy of an agreement between the Subdivider and Elite addressing this potential work has been provided to the County. Finally, it is agreed that, should it become necessary for the County to draw on the Meridian System Connection Collateral to complete the connection, the County may impose a moratorium on the issuance of additional building permits on lots located in all recorded final plats at Sterling Ranch until the Meridian System Connection is completed.

- e. **Briargate Parkway**. The following roadways shall be completed and ready for preliminary acceptance no later than six (6) months following final plat recording:
  - i. the southerly two lanes of Briargate Parkway from Vollmer Road to Wheatland Drive, in accordance with the Briargate Parkway "Interim" Street Improvement Plans (approved by the County in connection with Sterling Ranch Filing No. 1), a copy of which is attached hereto as Exhibit A-1; and
  - ii. Wheatland Drive from Briargate Parkway to Dines Boulevard, as identified on the Sterling Ranch Dines Boulevard and Wheatland Drive Street Improvement Plans (approved by the County in connection with Sterling Ranch Filing No. 1) a copy of which is attached hereto as Exhibit A-2.
- 6. **Construction Criteria**: The Subdivider and District agree, and the parties acknowledge that the construction of the improvements identified and guaranteed through this Subdivision Improvements Agreement shall follow the inspection and acceptance process that is identified in Chapter 5 of the County's Engineering Criteria Manual. This is to include among other things, a Preliminary Acceptance process, posting of appropriate

Warranty collateral at that time, and a 2-year warranty period prior to final acceptance. Where any inconsistency exists between Chapter 5 of the Engineering Criteria Manual and the Land Development Code with respect to these inspections, collateral and acceptance processes, the Engineering Criteria Manual is the controlling document.

- 7. **Plat Restriction Remedy**: It is mutually agreed pursuant to the provisions of Section 30-28-137(3) C.R.S. that the County or any purchaser of any lot, lots, tract or tracts of land subject to a plat restriction which is the security portion of a Subdivision Improvements Agreement shall have the authority to bring an action in any District Court to compel the enforcement of any Subdivision Improvements Agreement on the sale, conveyance, or transfer of any such lot, lots, tract or tracts of land or of any other provision of Article 28 of Title 30, Colorado Revised Statutes. Such authority shall include the right to compel rescission of any sale, conveyance, or transfer of any lot, lots, tract or tracts of land contrary to the provisions of any such restrictions set forth on the plat or in any separate recorded instrument, but any such action shall be commenced prior to the issuance of a building permit by the County where so required or other otherwise prior to commencement of construction on any such lot, lots, tract or tracts of land.
- 8. **Releases**: It is further mutually agreed that, pursuant to the provisions of Section 30-28-137 (2) C.R.S., and Chapter 5 of the County's Engineering Criteria Manual, as improvements are completed, the Subdivider may apply to the Board of County Commissioners for a release of part or all of the collateral deposited with said Board. Upon inspection and approval, the Board shall release said collateral. The County agrees to respond to an inspection request in a reasonable time upon receipt of the request. If the Board determines that any of such improvements are not constructed in substantial compliance with specifications it shall furnish the Subdivider and District a list of specific deficiencies and shall be entitled to withhold collateral sufficient to ensure such substantial compliance.

If the Board of County Commissioners determines that the Subdivider or District will not construct any or all of the improvements in accordance with all of the specifications and the provisions of this Agreement, the Board of County Commissioners may withdraw and employ from the deposit of collateral such funds as may be necessary to construct the improvements in accordance with the specifications.

In addition, and with respect to the Meridian System Connection only, either as an alternative to the withdrawal of collateral or in connection therewith, at the County's sole discretion, the County may request Elite to complete the Meridian System Connection in accordance with the approved plans and specifications for such connection set forth in Exhibit A-3. If the County draws on the posted collateral and Elite thereafter completes the improvements, the County shall reimburse Elite for such work in the amount of the collateral withdrawn or the cost of such work, whichever is less. If Elite declines to complete the Meridian System Connection, the deposit of collateral such funds as may be necessary to complete the Meridian System Connection in accordance with the specifications.

9. **Title Insurance**: The Subdivider agrees to provide the County with a title insurance commitment at time of final platting evidencing that fee simple title of all lands in the subdivision is vested with the Subdivider.

- 10. Plat Approval: The County agrees to approval of the final plat of the Homestead at Sterling Ranch Filing No. 2 Subdivision subject to the terms and conditions of this Agreement.
- 11. Amendment: Parties hereto mutually agree that this Agreement may be amended from time to time provided that such amendment be in writing and signed by all parties hereto.
- 12. Effective Date: This Agreement shall take effect on the date of approval of the Final Plat by the Board of County Commissioners.
- Traffic Impact Fees: The Subdivider agrees for itself and its successors and assigns that 13. Subdivider and/or its said successors and assigns shall be required to pay traffic impact fees in accordance with the El Paso County Road Impact Fee Program at or prior to the time of building permit application. This fee obligation, if not paid in full at final plat recording, shall be documented on plat notes and all sales documents to ensure that a title search would reveal such fee. The Subdivider agrees to the inclusion of Homestead at Sterling Ranch Filing No. 2 into the El Paso County Public Improvement District No. 2.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals the day and year below written.

## **BOARD OF COUNTY COMMISSIONERS OF EL PASO COUNTY, COLORADO**

(Date Final Plat Approved)

ATTEST:

County Clerk and Recorder

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

By: \_\_\_

James Morley, President

By:\_\_\_\_\_, Chair

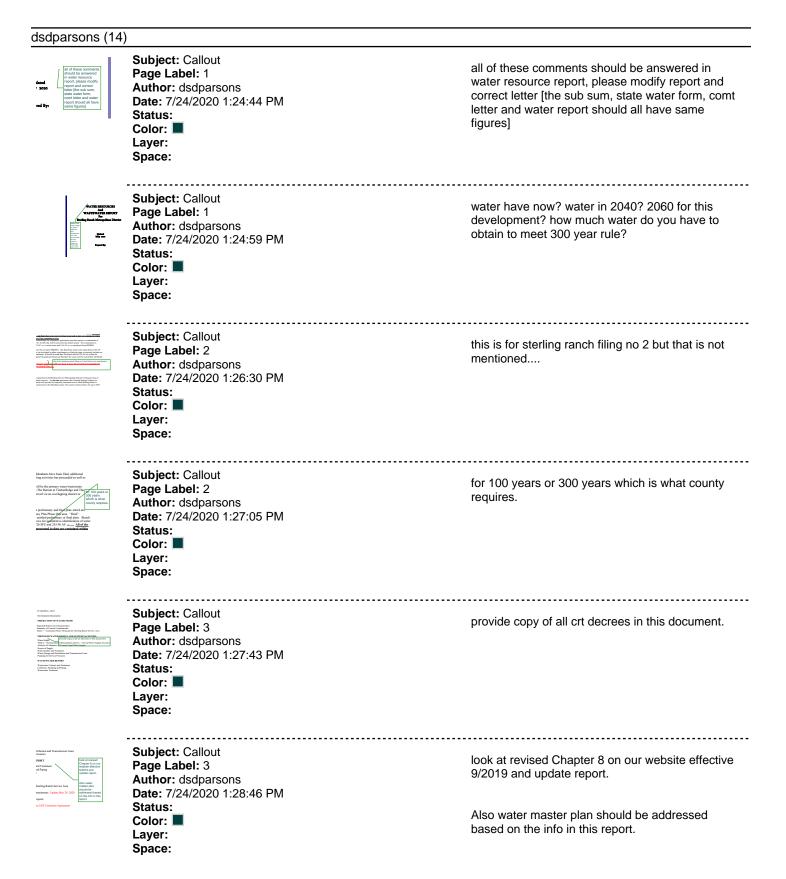
# SR LAND, LLC

By: \_\_\_\_\_\_ James Morley, Manager

# **ELITE PROPERTIES OF AMERICA, INC.**

Ву:	
Name:	
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