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Automated Report

Technical Report for

Land Resource Associates

Drinking Water

SGS Job Number: DA18767

Sampling Date: 08/20/19

Report to:

**Land Resource Association
9736 Mountain Road
Chipita Park, CO 80809
chipita1@comcast.net**

ATTN: Dave Jones

Total number of pages in report: 33



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Scott Heideman
Laboratory Director

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Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049)
LA (LA150028), TX (T104704511), WY (8TMS-L)

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Test results relate only to samples analyzed.

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Sample Summary

Land Resource Associates

Job No: DA18767

Drinking Water

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

DA18767-1	08/20/19	09:45	DJ	08/21/19	DW	Drinking Water	ROLLIN RIDGE
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DA18767-2	08/20/19	00:00	DJ	08/21/19	DW	Drinking Water TB	BLANKS
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Summary of Hits

Page 1 of 1

Job Number: DA18767
Account: Land Resource Associates
Project: Drinking Water
Collected: 08/20/19

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA18767-1	ROLLIN RIDGE					
Aluminum		0.082	0.050		mg/l	EPA 200.8
Barium		0.029	0.0020		mg/l	EPA 200.8
Calcium		11.4	0.40		mg/l	EPA 200.7
Iron		0.090	0.010		mg/l	EPA 200.8
Manganese		0.0015	0.0010		mg/l	EPA 200.8
Selenium		0.00059	0.00040		mg/l	EPA 200.8
Zinc		0.036	0.010		mg/l	EPA 200.8
Alkalinity, Total as CaCO ₃		40.6	5.0		mg/l	SM 2320B-2011
Chloride		1.0	0.50		mg/l	EPA 300.0
Corrosivity as pH ^a		6.82			su	SW846 7.2/9040C
Hardness, Calcium ^b		28.5	1.0		mg/l	SM 2340B-2011
Nitrogen, Nitrate		0.40	0.010		mg/l	EPA 300.0
Nitrogen, Nitrate + Nitrite ^c		0.40	0.014		mg/l	EPA 300.0
Solids, Total Dissolved		81.0	10		mg/l	SM 2540C-2011
Sulfate		2.1	0.50		mg/l	EPA 300.0
pH ^d		6.82			su	EPA 150.1
Temperature (Field)		20			Deg. C	FIELD

DA18767-2 BLANKS

No hits reported in this sample.

(a) Non Corrosive

(b) Calculated as: (Calcium * 2.497) to convert to Calcium Carbonate

(c) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

(d) Analysis performed after recommended hold time

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-1	Date Received:	08/21/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 524.2		
Project:	Drinking Water		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8V17485.D	1	08/23/19 19:11	DC	n/a	n/a	V8V842
Run #2							

Run #	Purge Volume
Run #1	25.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	0.50	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.50	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.50	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.50	ug/l	
75-25-2	Bromoform	ND		0.50	0.50	ug/l	
74-83-9	Bromomethane	ND		0.50	0.50	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.50	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.50	ug/l	
75-00-3	Chloroethane	ND		0.50	0.50	ug/l	
67-66-3	Chloroform	ND		0.50	0.50	ug/l	
74-87-3	Chloromethane	ND		0.50	0.50	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.50	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.50	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.50	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND		0.50	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit

MCL = Maximum Contamination Level (40 CFR 141)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-1	Date Received:	08/21/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 524.2		
Project:	Drinking Water		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
542-75-6	1,3-Dichloropropene	ND		0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.50	ug/l	
87-68-3	Hexachlorobutadiene	ND		0.50	0.50	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.50	ug/l	
75-09-2	Methylene chloride ^a	ND	5.0	0.50	0.50	ug/l	
91-20-3	Naphthalene	ND		0.50	0.50	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.50	ug/l	
100-42-5	Styrene	ND	100	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.50	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.50	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND		0.50	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.50	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.50	ug/l	
	m,p-Xylene	ND		0.50	0.50	ug/l	
95-47-6	o-Xylene	ND		0.50	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.50	ug/l	
	Total Trihalomethane	ND	80	0.50	0.50	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
460-00-4	4-Bromofluorobenzene	92%		70-130%			
2199-69-1	1,2-Dichlorobenzene-d4	111%		70-130%			

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	
Lab Sample ID:	DA18767-1	Date Sampled: 08/20/19
Matrix:	DW - Drinking Water	Date Received: 08/21/19
Method:	EPA 548.1 EPA 548.1	Percent Solids: n/a
Project:	Drinking Water	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G117748.D	1	08/29/19 19:03	LT	08/27/19	OP18213	E2G1159
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
145-73-3	Endothall	ND	100	5.0	3.6	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 141) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-1	Date Received:	08/21/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 525.2 EPA 525.2		
Project:	Drinking Water		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G144229.D	1	08/27/19 20:29	LT	08/27/19	OP18208	E1G2541
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

EPA 525.2

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
15972-60-8	Alachlor	ND	2.0	0.19	0.19	ug/l	
1912-24-9	Atrazine	ND	3.0	0.095	0.095	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.019	0.019	ug/l	
23184-66-9	Butachlor	ND		0.24	0.24	ug/l	
103-23-1	bis(2-Ethylhexyl)adipate	ND	400	0.57	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	6.0	0.57	0.57	ug/l	
51218-45-2	Metolachlor	ND		0.24	0.24	ug/l	
21087-64-9	Metribuzin	ND		0.24	0.24	ug/l	
1918-16-7	Propachlor	ND		0.24	0.24	ug/l	
122-34-9	Simazine	ND	4.0	0.067	0.067	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	Perylene-d12	98%		70-130%
	Pyrene-d10	88%		70-130%
115-86-6	Triphenyl phosphate	121%		70-130%

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MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	
Lab Sample ID:	DA18767-1	Date Sampled: 08/20/19
Matrix:	DW - Drinking Water	Date Received: 08/21/19
Method:	EPA 504.1 EPA 504.1	Percent Solids: n/a
Project:	Drinking Water	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GEH39256.D	1	08/29/19 23:35	GN	08/29/19	OP18220	GEH1725
Run #2							

	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	0.010	0.0080	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.010	0.0087	ug/l	

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-1	Date Received:	08/21/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 515.4 EPA 515.4		
Project:	Drinking Water		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF36374.D	1	08/27/19 01:20	KSH	08/22/19	OP18188	GEF1500
Run #2							

Run #	Initial Volume	Final Volume
Run #1	40.0 ml	4.0 ml
Run #2		

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	70	0.10	0.10	ug/l	
75-99-0	Dalapon	ND	200	1.0	1.0	ug/l	
1918-00-9	Dicamba	ND		0.30	0.30	ug/l	
88-85-7	Dinoseb	ND	7.0	0.20	0.20	ug/l	
87-86-5	Pentachlorophenol	ND	1.0	0.040	0.040	ug/l	
1918-02-1	Picloram	ND	500	0.10	0.10	ug/l	
93-72-1	2,4,5-TP	ND	50	0.20	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	101%		70-130%
19719-28-9	2,4-DCAA	104%		70-130%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-1	Date Received:	08/21/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 505 EPA 505		
Project:	Drinking Water		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GEH39222.D	1	08/27/19 02:32	GN	08/26/19	OP18205	GEH1724
Run #2							

Run #	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

Primary Drinking Water Pesticide/PCB List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
309-00-2	Aldrin	ND		0.010	0.010	ug/l	
5103-71-9	alpha-Chlordane	ND		0.020	0.020	ug/l	
5103-74-2	gamma-Chlordane	ND		0.020	0.020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.20	0.010	0.010	ug/l	
12789-03-6	Chlordane	ND	2.0	0.20	0.20	ug/l	
60-57-1	Dieldrin	ND		0.010	0.010	ug/l	
72-20-8	Endrin	ND	2.0	0.010	0.010	ug/l	
76-44-8	Heptachlor	ND	0.40	0.020	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.20	0.020	0.020	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.020	0.020	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	50	0.040	0.040	ug/l	
72-43-5	Methoxychlor	ND	40	0.020	0.020	ug/l	
8001-35-2	Toxaphene	ND	3.0	1.0	1.0	ug/l	
12674-11-2	Aroclor 1016	ND	0.50	0.080	0.080	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.10	0.10	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.10	0.10	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.10	0.10	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.10	0.10	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.10	0.10	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.10	0.10	ug/l	
1336-36-3	Total PCBs	ND	0.50	0.10	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		70-140%
877-09-8	Tetrachloro-m-xylene	107%		70-140%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-1	Date Received:	08/21/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 531.1 EPA 531.1		
Project:	Drinking Water		

Run	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	HB116555.D	1	09/06/19 04:14	JB	09/05/19	OP18250	GHB756
Run #2							

Run	Initial Volume	Final Volume
Run #1	10.0 ml	10.0 ml
Run #2		

Carbamate Pesticide

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
116-06-3	Aldicarb	ND		0.50	0.25	ug/l	
1646-88-4	Aldicarb Sulfone	ND		0.50	0.25	ug/l	
1646-87-3	Aldicarb Sulfoxide	ND		0.50	0.25	ug/l	
63-25-2	Carbaryl	ND		0.50	0.25	ug/l	
1563-66-2	Carbofuran	ND	40	0.50	0.25	ug/l	
16655-82-6	3-Hydroxycarbofuran	ND		0.50	0.25	ug/l	
2032-65-7	Methiocarb	ND		0.50	0.25	ug/l	
16752-77-5	Methomyl	ND		0.50	0.25	ug/l	
23135-22-0	Oxamyl	ND	200	0.50	0.25	ug/l	
114-26-1	Propoxur	ND		0.50	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
672-99-1	BDMC	97%		70-130%

(a) Sample was not preserved to a pH < 3.

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-1	Date Received:	08/21/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 547 EPA 547		
Project:	Drinking Water		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HB116539.D	1	08/30/19 20:35	JB	08/29/19	OP18218	GHB755
Run #2							

Run #	Initial Volume	Final Volume
Run #1	10.0 ml	10.0 ml
Run #2		

Glyphosate

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
1071-83-6	Glyphosate	ND	700	5.0	2.5	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	
Lab Sample ID:	DA18767-1	Date Sampled: 08/20/19
Matrix:	DW - Drinking Water	Date Received: 08/21/19
Method:	EPA 549.2 EPA 549.2	Percent Solids: n/a
Project:	Drinking Water	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HA014549.D	1	09/03/19 19:27	NO	08/27/19	OP18209	GHA560
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
85-00-7	Diquat	ND	20	0.40	0.25	ug/l	

ND = Not detected

MDL = Method Detection Limit

MCL = Maximum Contamination Level (40 CFR 141)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-1	Date Received:	08/21/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Project:	Drinking Water		

Total Metals Analysis

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	0.082		0.050	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Antimony	< 0.00040	0.0060	0.00040	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Arsenic	< 0.00080	0.010	0.00080	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Barium	0.029	2.0	0.0020	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Beryllium	< 0.00020	0.0040	0.00020	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Cadmium	< 0.00010	0.0050	0.00010	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Calcium	11.4		0.40	mg/l	1	08/28/19	08/28/19 JM	EPA 200.7 ¹	EPA 200.7 ⁴
Chromium	< 0.0020	0.10	0.0020	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Iron	0.090		0.010	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Manganese	0.0015		0.0010	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Mercury	< 0.00010	0.0020	0.00010	mg/l	1	08/28/19	08/28/19 JM	EPA 245.1 ²	EPA 245.1 ⁶
Selenium	0.00059	0.050	0.00040	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Silver	< 0.00010	0.10	0.00010	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Thallium	< 0.00020	0.0020	0.00020	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵
Zinc	0.036	5.0	0.010	mg/l	1	08/29/19	09/03/19 JM	EPA 200.8 ³	EPA 200.8 ⁵

(1) Instrument QC Batch: MA11735

(2) Instrument QC Batch: MA11739

(3) Instrument QC Batch: MA11750

(4) Prep QC Batch: MP28822

(5) Prep QC Batch: MP28823

(6) Prep QC Batch: MP28824

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 141)

Report of Analysis

Client Sample ID:	ROLLIN RIDGE	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-1	Date Received:	08/21/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Project:	Drinking Water		

General Chemistry

Analyte	Result	MCL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO ₃	40.6		mg/l	1	08/28/19	PV	SM 2320B-2011
Chloride	1.0		mg/l	1	08/21/19 13:13	JB	EPA 300.0
Corrosivity as pH ^a	6.82		su	1	08/22/19 10:30	SK	SW846 7.2/9040C
Corrosivity, Langlier Index	-1.9			1	08/28/19 12:41	JM	SM 203, 1985
Cyanide, Total	< 0.0050	0.20	mg/l	1	08/22/19 14:38	AM	EPA 335.4
Fluoride	< 0.10	4.0	mg/l	1	08/21/19 13:13	JB	EPA 300.0
Hardness, Calcium ^b	28.5		mg/l	1	08/28/19 12:41	JM	SM 2340B-2011
Nitrogen, Nitrate	0.40	10	mg/l	1	08/21/19 13:13	JB	EPA 300.0
Nitrogen, Nitrate + Nitrite ^c	0.40		mg/l	1	08/21/19 13:13	JB	EPA 300.0
Nitrogen, Nitrite	< 0.0040	1.0	mg/l	1	08/21/19 13:13	JB	EPA 300.0
Solids, Total Dissolved	81.0		mg/l	1	08/27/19	AK	SM 2540C-2011
Sulfate	2.1		mg/l	1	08/21/19 13:13	JB	EPA 300.0
pH ^d	6.82		su	1	08/22/19 10:30	SK	EPA 150.1

Field Parameters

Temperature (Field)	20	Deg. C	1	08/28/19	SUB	FIELD
---------------------	----	--------	---	----------	-----	-------

(a) Non Corrosive

(b) Calculated as: (Calcium * 2.497) to convert to Calcium Carbonate

(c) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

(d) Analysis performed after recommended hold time

Report of Analysis

Client Sample ID:	BLANKS	Date Sampled:	08/20/19
Lab Sample ID:	DA18767-2	Date Received:	08/21/19
Matrix:	DW - Drinking Water TB	Percent Solids:	n/a
Method:	EPA 504.1 EPA 504.1		
Project:	Drinking Water		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GEH39269.D	1	08/30/19 05:00	GN	08/29/19	OP18220	GEH1725
Run #2							

Run #	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	0.010	0.0080	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.010	0.0087	ug/l	

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Subcontract Lab Data

Report of Analysis



**industrial
LABORATORIES**

Industrial Laboratories is your independent,
third-party analytical testing laboratory

To : SGS North America
4036 Youngfield St.
Wheat Ridge, CO 80033

Attn : Scott Heideman

Test Report

Report # Rpt-190822072

Date Reported : 8/22/2019

Date Received : 8/21/2019

Client PO : DA18767X

SampleCode	Client Sample ID	Test Method	Result	Units	Date Analyzed
19082113-01A	<u>DA18767X-1, 8/20/19, 9:45 AM</u>				
		*Total Coliforms			NS
		IL-MIC-M-023 / SMEWW 9223 B - Colilert			8/21/2019 15:13
		Coliforms	Absent		

Digitally Signed By:

Nathan Hordyk

Date: 8/22/2019
3:55:08PM MT

Microbiologist

Measurement of Uncertainty for Scope methods are available upon request.

Samples received in good condition unless otherwise noted in case narrative

= Subcontracted Analysis
* = Scope Analysis
‡ = Case Narrative on Sample

Page 1 of 1

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Receipt of analysis acknowledges the terms and conditions, which can be found at www.industriallabs.net

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www.sgs.com/ehsusa

Bottle Order Control #	
SGS Job #	

DA18767X

[illegible]



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

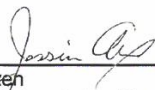
Lab Control ID: 19M02633
Received: Aug 22, 2019
Reported: Sep 12, 2019
Purchase Order No.
DA18767X

Customer ID: 00151Z
Account ID: Z05205

Scott Heideman
SGS North America
4036 Youngfield Street
Wheat Ridge, CO 80033-3862

ANALYTICAL REPORT

*Report may only be copied in its entirety.
Results reported herein relate only to discrete samples
submitted by the client. Hazen Research, Inc. does not warrant
that the results are representative of anything other than the
samples that were received in the laboratory*

By: 
Jessica Axen
Analytical Laboratories Director



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 19M02633
Received: Aug 22, 2019
Reported: Sep 12, 2019
Purchase Order No.
DA18767X

Customer ID: 00151Z
Account ID: Z05205

ANALYTICAL REPORT

Scott Heideman
SGS North America

Lab Sample ID			19M02633-001					
Customer Sample ID			DA18767X					
			sampled on 08/20/19 @ 0945 by DJ					
Parameter	Units	Code	Precision*		Detection	Analysis		Analyst
			Result	+/-	Limit	Method	Date / Time	
Gross Alpha	pCi/L	T	2.0	1.6	0.1	SM 7110 B	9/9/19 @ 0744	SS
Gross Beta	pCi/L	T	<3.8	2.4	3.8	SM 7110 B	9/9/19 @ 0744	SS
Total Solids	mg/L	T	88	-	10	EPA 160.3	8/23/19	TL

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

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

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual (AR) = As Received < = Less Than

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 09/09/2019

Batch QC Summary Form

Analyte: Gross Alpha

Control Standard/LFB: ID: C-11 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C-11 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation:
$$\frac{(55.4) - (1.000) - (0.0)}{57.4} \times 100 = 97\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	x		
Spike Recovery	70 - 130 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap			x

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

19M02707	_____
19M02718	_____
19M02728	_____
19M02729	_____
19M02633	_____
19M02639	_____
19M02583	_____
_____	_____
_____	_____
_____	_____

Evaluator:

Gymea Rockwell _____

09/11/2019
Date _____

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HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 09/09/2019

Batch QC Summary Form

Analyte: Gross Beta

Control Standard/LFB: ID: C-11 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C-11 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: $\frac{(38.4) - (1.000) - (0.0) - (0.200)}{44} \times 100 = 87\%$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	x		
Spike Recovery	80 - 120 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap			x

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

19M02707	_____
19M02718	_____
19M02728	_____
19M02729	_____
19M02633	_____
19M02639	_____
19M02583	_____
_____	_____
_____	_____
_____	_____

Evaluator:

Gymna Rockwell _____

09/11/2019
Date _____

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Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street
Wheat Ridge, CO 80033-3862
303-425-6021; 877-737-4521
FAX: 303-425-6854
www.sgs.com/ehsusa

[illegible]

EHS-A-QAC-0028-00-FORM-Wheel Ridge - DW COC: Rev. Date: 4/10/18

DA18767: Chain of Custody

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CHAIN OF CUSTODY

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4036 Youngfield Street
Wheat Ridge, CO 80033-3862
303-425-6021; 877-737-4521
FAX: 303-425-6854
www.sgs.com/ehsusa

SGS Job #	DA18767
Project Information	
PWSID or Project #:	
System Name:	
System Address:	
City:	State: ZIP:
Contact Person:	
Tel:	Email:

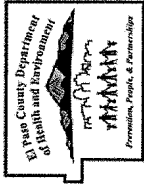
Turn Around Time (Business days)			Drinking Water Analyses (check analysis)																		Subcontracted Analysis		Lab Use Only												
<input checked="" type="checkbox"/> Standard 10 Business Days																				<input type="checkbox"/>															
<input type="checkbox"/> 5 Business Days RUSH																																			
<input type="checkbox"/> 3 Business Days RUSH																																			
<input type="checkbox"/> 2 Business Days RUSH																																			
<input type="checkbox"/> 1 Business Day EMERGENCY																																			
State Form Information																																			
Compliance Samples	Yes <input type="checkbox"/>	No <input type="checkbox"/>																																	
Submit Results to State	Yes <input type="checkbox"/>	No <input type="checkbox"/>																																	
Include State Forms in Report**	Yes <input type="checkbox"/>	No <input type="checkbox"/>																																	
** possible extra charge																																			
Sample Location or ID	Date	Time	No. of Containers	THM 524.2	VOC 524.2	Halocetic Acids 552.2	EDB/DBCP 504.1	Pesticides / PCBs 505	Herbicides 515.4	SOC + OP Pesticides 525.2	Carbamates 531.1	Glyphosate 547	Endothal 548.1	Diquat 549.2	Nitrate-N	Nitrite-N	Fluoride	Alkalinity	Langlier Index	TOC	DOC	SUVA	UV254	11 Inorganic Metals *	Lead & Copper 200.8	Uranium 200.8	Gross-A + Total Solid	Gross- A+B	Ra 226	Ra 228	Total Coliform (p/a)				
Rollin Ridge	8/20/19	9:45	24							X																						01			
																																Blue 02			
Special Instructions:																																			
* Inorganic Metals include: Sb, As, Ba, Be, Cd, Cr, Hg, Ni, Se, Na, Ti																																			
Sample Custody must be documented below each time samples change possession, including courier delivery.																																			
Relinquished by Sampler:		Date/Time:		Received By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Relinquished By:		Date/Time:	
1				1		8-20-19 1630		2				3				3				3				3				3				3			
Received By:		Date/Time:		Relinquished By:		Date/Time:		Received By:		Date/Time:		Relinquished By:		Date/Time:		Received By:		Date/Time:		Relinquished By:		Date/Time:		Received By:		Date/Time:		Relinquished By:		Date/Time:		Received By:		Date/Time:	
2				3				3				3				3				3				3				3				3			
Custody Seal #	Intact <input type="checkbox"/>	Not Intact <input type="checkbox"/>	Absent <input type="checkbox"/>	Preserved where applicable: <input checked="" type="checkbox"/>	Cooler Temp. (°C): 4.0	Therm. ID: 7106	On Ice: <input checked="" type="checkbox"/>	http://www.sgs.com/terms-and-conditions																											

FHS&NAP-0028-001FORM Wheat Ridge - FM/COG Rev. Date 4/20/18

DA18767: Chain of Custody

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EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT

301 SOUTH UNION BLVD. • COLORADO SPRINGS, CO 80910-3123
(719) 578-3199

February 11, 2008

Mr. Mike Hrebenar
Development Services Division
2880 International Circle
Colorado Springs, CO 80910

Dear Mr. Hrebenar,

Please accept this letter as clarification from the El Paso County Department of Health and Environment regarding our requirements for determining water quality sufficiency, and compliance with Section 8.4.7 (10) *Finding of Sufficient Quality* of the El Paso County Land Development Code. More specifically, Section 8.4.7 (10) (b) *Contaminant Levels to Meet Drinking Water Requirements* which states "Maximum permissible contaminant levels shall meet the requirements of the Colorado Primary Drinking Water Regulations."

The Colorado Primary Drinking Water Regulations were adopted by the Colorado Department of Public Health and Environment for "regulated" drinking water systems, and for compliance and inspection purposes of such drinking water systems. However, several parameters, and the maximum contaminant levels (MCL's) within these regulations have been referenced for many years in determining water quality sufficiency for "unregulated" water sources, and sufficiency determinations of drinking water from private individual wells in the development process of proposed subdivisions.

There has been some confusion with the numerous water quality parameters that are listed in the Colorado Primary Drinking Water Regulations for our department to consider for review in order to properly determine sufficiency in terms of water quality under the April 2, 2007, Land Development Code. The El Paso County Department of Health and Environment's intent was never to require sampling of *all* the parameters in the drinking water regulations, but only those that pertain to raw, untreated water intended as a drinking water source obtained from private individual wells in these developments. Many parameters in the drinking water regulations are either associated with drinking water obtained from a surface water supply (stream, river, lake, etc.), or associated with disinfection by-products resulting from the disinfection treatment processes of drinking water within a regulated, community drinking water system, and are not necessary for sampling for our water quality determination.

Therefore, the following water quality parameters are all that have been determined to be required for sampling, and for the proper determination of sufficiency in terms of water quality.

Volatile Organic Chemical Contaminants and MCL (mg/L):

1. Vinyl chloride.....	0.002
2. Benzene.....	0.005
3. Carbon tetrachloride.....	0.005
4. 1,2 Dichloroethane.....	0.005
5. Trichloroethylene.....	0.005
6. 1,4 Dichlorobenzene.....	0.075
7. 1,1 Dichloroethylene.....	0.007
8. 1,1,1 Trichloroethane.....	0.2
9. cis-1,2 Dichloroethylene.....	0.07
10. 1,2 Dichloropropane.....	0.005
11. Ethylbenzene.....	0.7
12. Monochlorobenzene.....	0.1

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13. o-Dichlorobenzene.....	0.6
14. Styrene.....	0.1
15. Tetrachloroethylene.....	0.005
16. Toluene.....	1.0
17. Trans-1,2 Dichloroethylene.....	0.1
18. Xylenes (total).....	10
19. Dichloromethane (methylene chloride).....	0.005
20. 1,2,4 Trichlorobenzene.....	0.07
21. 1,1,2 Trichloroethane.....	0.005

Synthetic Organic Chemical Contaminants and MCL (mg/L):

1. Alachlor.....	0.002
2. Atrazine.....	0.003
3. Carbofuran.....	0.04
4. Chlordane.....	0.002
5. Dibromochloropropane.....	0.0002
6. 2,4 D.....	0.07
7. Ethylene dibromide.....	0.00005
8. Heptachlor.....	0.0004
9. Heptachlor epoxide.....	0.0002
10. Lindane.....	0.0002
11. Methoxychlor.....	0.04
12. Polychlorinated biphenyls.....	0.0005
13. Pentachlorophenol.....	0.001
14. Toxaphene.....	0.003
15. 2,4,5 TP (Silvex).....	0.05
16. Benzo(a)pyrene.....	0.0002
17. Dalapon.....	0.2
18. Di(2-ethylhexyl)sebacate.....	0.4
19. Di(2-ethylhexyl)phthalate.....	0.006
20. Dinoseb.....	0.007
21. Diquat.....	0.02
22. Endosulf.....	0.1
23. Endrin.....	0.002
24. Glyphosate.....	0.7
25. Hexachlorobenzene.....	0.001
26. Hexachlorocyclopentadiene.....	0.05
27. Oxamyl (Vydate).....	0.2
28. Picloram.....	0.5
29. Simazine.....	0.004

Inorganic Chemicals and MCL (mg/L):

1. Antimony.....	0.006
2. Arsenic.....	0.01
3. Barium.....	2.0
4. Beryllium.....	0.004
5. Cadmium.....	0.005
6. Chromium.....	0.1
7. Cyanide (Total*).....	0.2
8. Fluoride.....	4.0
9. Mercury.....	0.002
10. Nitrate.....	10.0 (as Nitrogen)
11. Nitrite.....	1.0 (as Nitrogen)
12. Total Nitrate and Nitrite.....	10.0 (as Nitrogen)
13. Selenium.....	0.05
14. Thallium.....	0.002

*If total cyanide is 0.2 mg/L, then further analysis for free cyanide is required.

Secondary Maximum Contaminants and MCL:

1. Aluminum	0.05 to 0.2 mg/L
2. Chloride	250 mg/l
3. Corrosivity	Non-corrosive
4. Iron	0.3 mg/L
5. Manganese	0.05 mg/L
6. pH	6.5-8.5
7. Silver	0.1 mg/L
8. Sulfate	250 mg/L
9. Total dissolved solids (TDS)	500 mg/L
10. Zinc	5.0 mg/L

Radionuclides:

1. Gross Alpha/Beta-Water

Bacteriological:

1. Total Coliform Absence

Please feel free to contact me with any questions.

Mike McCarthy
Air and Water Quality Program Director
El Paso County Department of Health and Environment
719-578-3131

DA18767: Chain of Custody
Page 5 of 6

SGS Accutest Sample Receipt Summary

Job Number: DA18767

Client: LAND RESOURCE

Project:

Date / Time Received: 8/21/2019 10:30:00 AM

Delivery Method:

Airbill #s: UPS

Cooler Temps (Initial/Adjusted): #1: (4/4):

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Bar Therm; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

DA18767: Chain of Custody

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