WYOMING DEPARTMENT OF AGRICULTURE ANALYTICAL SERVICES

1174 Snowy Range Road, Laramie, WY 82070

Phone: (307) 742-2984

Internet: http://wyagric.state.wy.us/divisions/asl

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City of Worland 101 Grace Ave Worland, WY 82401 Sample ID : AA15834

Date Collected : 10/25/2016 10:00 **Date Received** : 10/26/2016 11:14

Date Validated : 04/05/2017

Sample Collector : BEN KALLA ROB KOCH

Phone: 307-347-8978 ext 12(Email: water_operator@yahoo.com

Official or Service : Official

Sample Description : East Tank

Sample Comments:

Analyte	Method	Units	Results	Comments	Analyst Date Completed
Alkalinity	- 2320 B	mg/L	170		K OOLMAN
Antaninty	2020 B	mg/L	170		11/04/2016
Bicarbonate	- 2320 B	mg/L	170		K OOLMAN
bicarbonate	- 2320 B	IIIg/L	170		11/04/2016
Carbonate	- 2320 B	mg/L	< 2.0		K OOLMAN
Carbonate	- 2320 B	IIIg/L	< 2.0		11/04/2016

Analyte	Method	Units	Results	Comments	Analyst Date Completed
Conductivity	- 2510 B	uS/cm	360	Conductivity test results are an estimation only due to	K OOLMAN 11/04/2016
				the quality control indicating a high bias.	

Analyte	Method	Units	Results	Comments	Analyst Date Completed
Нα	- 4500-H+ B		7 7		K OOLMAN
ρ	1000 11. B		1.1		11/04/2016

Sample Number: AA15834 Page 1 of 3

I hereby certify that the above sample was analyzed by myself or my analyst:

L MURFITT 04/05/2017

4/5/2017 4:09:45P Mountain Standard Time Supervisor

Supervisor Date

Arsenic 200.7 ppm < 0.131 GCAMPBELL 0124/2017	Analyte	Method	Units	Results	Comments	Analyst
Arsenic 200.7 ppm < 0.131 01724/2017 Barium 200.7 ppm 0.053	-					
Barium 200.7 ppm 0.053 G CAMPBELL 01/24/2017	Arsenic	200.7	ppm	< 0.131		
Banum 200.7 ppm 0.053 01/24/2017						01/24/2017
Boron 200.7 ppm < 0.039 G CAMPBELL 01/24/2017	Parium	200.7	nnm	0.052		G CAMPBELL
Cadmium 200.7 ppm < 0.039 01124/2017	Danum	200.7	ррпі	0.053		01/24/2017
Cadmium 200.7 ppm < 0.006 G CAMPBELL 01/24/2017	Daran	200.7		< 0.030		G CAMPBELL
Cadmium 200.7 ppm 36.2 G CAMPBELL 01/24/2017 CAMPBELL 01/24/20	BOIOII	200.7	ррп	< 0.039		01/24/2017
Calcium 200.7 ppm 36.2 G CAMPBELL 01/24/2017	Cadmium	200.7	nnm	< 0.006		G CAMPBELL
Calcium 200.7 ppm 36.2 01/24/2017 Chromium 200.7 ppm < 0.018 01/24/2017 G CAMPBELL 01/24/2017 Copper 200.7 ppm < 0.043 01/24/2017 G CAMPBELL 01/24/2017 Copper 200.7 ppm < 0.079 01/24/2017 G CAMPBELL 01/24/2017 Copper 200.7 ppm < 0.032 01/24/2017 G CAMPBELL 01/24/2017 Copper 200.7 ppm 18.7 01/24/2017 G CAMPBELL 01/24/2017 Copper 200.7 ppm < 0.006 01/24/2017 Copper 200.7 ppm < 0.090 01/24/2017 Copper 200.7 ppm 20	Caumum	200.7	ррпі	< 0.000		01/24/2017
Chromium 200.7 ppm < 0.018 G CAMPBELL 01/24/2017	Optoinus	000.7		20.0		G CAMPBELL
Chromium 200.7 ppm < 0.018 01/24/2017	Calcium	200.7	ppm	36.2		01/24/2017
Chromium 200.7 ppm < 0.018 01/24/2017						C CAMPRELL
Copper 200.7 ppm < 0.043 G CAMPBELL 01/24/2017	Chromium	200.7	ppm	< 0.018		
Copper 200.7 ppm < 0.043 01/24/2017						
Iron 200.7 ppm < 0.079 G CAMPBELL 01/24/2017	Copper	200.7	ppm	< 0.043		
Lead 200.7 ppm < 0.079 01/24/2017			''			01/24/2017
Lead 200.7 ppm < 0.032 G CAMPBELL 01/24/2017 Magnesium 200.7 ppm 18.7 G CAMPBELL 01/24/2017 Manganese 200.7 ppm < 0.006 G CAMPBELL 01/24/2017 Mercury 200.7 ppm < 0.090 G CAMPBELL 01/24/2017 Potassium 200.7 ppm 1.07 G CAMPBELL 01/24/2017 Selenium 200.7 ppm < 0.037 G CAMPBELL 01/24/2017 Sodium 200.7 ppm < 0.037 G CAMPBELL 01/24/2017 Sodium 200.7 ppm 2.37 G CAMPBELL 01/24/2017 Zinc 200.7 ppm < 0.019 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL	Iron	200.7	nnm	< 0.070		G CAMPBELL
Magnesium 200.7 ppm 18.7 G CAMPBELL 01/24/2017 Manganese 200.7 ppm < 0.006 G CAMPBELL 01/24/2017 Mercury 200.7 ppm < 0.090 G CAMPBELL 01/24/2017 Potassium 200.7 ppm 1.07 G CAMPBELL 01/24/2017 Selenium 200.7 ppm < 0.037 G CAMPBELL 01/24/2017 Sodium 200.7 ppm < 0.037 G CAMPBELL 01/24/2017 Sodium 200.7 ppm 2.37 G CAMPBELL 01/24/2017 Zinc 200.7 ppm < 0.019 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 Zinc 200.7 ppm < 0.019 G CAMPBELL	lion	200.7	ррш	V 0.079		01/24/2017
Magnesium 200.7 ppm 18.7 G CAMPBELL 01/24/2017 Manganese 200.7 ppm < 0.006 G CAMPBELL 01/24/2017 Mercury 200.7 ppm < 0.090 G CAMPBELL 01/24/2017 Potassium 200.7 ppm 1.07 G CAMPBELL 01/24/2017 Selenium 200.7 ppm < 0.037 G CAMPBELL 01/24/2017 Sodium 200.7 ppm 2.37 G CAMPBELL 01/24/2017 Sodium 200.7 ppm 2.37 G CAMPBELL 01/24/2017 Zinc 200.7 ppm < 0.019 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 C CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017 C CAMPBELL 01/24/2017 G CAMPBELL 01/24/2017	Lead	200.7	nnm	< 0.032		G CAMPBELL
Magnesium 200.7 ppm 18.7 01/24/2017 Manganese 200.7 ppm < 0.006	Lodd	200.7	βριιι	0.002		01/24/2017
Manganese 200.7 ppm < 0.006 G CAMPBELL	Magnesium	200.7	nnm	18 7		G CAMPBELL
Manganese 200.7 ppm < 0.006 01/24/2017 Mercury 200.7 ppm < 0.090	Magnesiani	200.7	βριιι	10.7		01/24/2017
Mercury 200.7 ppm < 0.090 G CAMPBELL 01/24/2017	Manganoso	200.7	nnm	< 0.006		G CAMPBELL
Mercury 200.7 ppm < 0.090	Manganese	200.7	ррпі	< 0.000		01/24/2017
Potassium 200.7 ppm 1.07 G CAMPBELL 01/24/2017	Morouny	200.7	nnm	< 0.000		G CAMPBELL
Potassium 200.7 ppm 1.07 01/24/2017 Selenium 200.7 ppm < 0.037 G CAMPBELL 01/24/2017 Sodium 200.7 ppm 2.37 G CAMPBELL 01/24/2017 Zinc 200.7 ppm < 0.019 G CAMPBELL	ivier cury	200.7	ррпп	V 0.090		01/24/2017
Selenium 200.7 ppm < 0.037 G CAMPBELL 01/24/2017 Sodium 200.7 ppm 2.37 G CAMPBELL 01/24/2017 Zinc 200.7 ppm < 0.019	Dotoccium	200.7	nnm	1.07		G CAMPBELL
Selenium 200.7 ppm < 0.037 01/24/2017	Potassium	200.7	ppm	1.07		01/24/2017
Sodium 200.7 ppm 2.37 G CAMPBELL 01/24/2017 Zinc 200.7 ppm < 0.019	Salenium	200.7	nnm	< 0.037		G CAMPBELL
Sodium 200.7 ppm 2.37 01/24/2017 Zinc 200.7 ppm < 0.019 G CAMPBELL	Seletiluiti	200.7	βρίτι	\ \ 0.031		01/24/2017
Zinc 200.7 ppm < 0.019 G CAMPBELL	Sodium	200.7	nnm	2 37		G CAMPBELL
ZINC 200.7 ppm < 0.019	Godium	200.7	βρίτι	2.51		01/24/2017
01/24/2017	Zinc	200.7	nnm	< 0.010		G CAMPBELL
	ZIIIC	200.7	μριτι	\ 0.018		01/24/2017

Sample Number: AA15834 Page 2 of 3

I hereby certify that the above sample was analyzed by myself or my analyst:

L MURFITT

04/05/2017

Analyte	Method	Units	Results	Comments	Analyst Date Completed
					K OOLMAN
Total Hardness	2340 B	mg/L	170		04/04/2017
					04/04/2017
	1				Analyst
Analyte	Method	Units	Results	Comments	Date Completed
					K OOLMAN
TDS by ROE 180C	2540 C	mg/L	182		11/04/2016
					11/04/2016
	1				Analyst
Analyte	Method	Units	Results	Comments	
	+				Date Completed K OOLMAN
Chloride	300	mg/L	< 1.0		
					10/28/2016
Fluoride	300	ma/l	0.3		K OOLMAN
riuoriue	300	mg/L	0.3		10/28/2016
					K OOLMAN
Nitrate (as N)	300	mg/L	0.53		10/28/2016
Nitrate + Nitrite - N	300	mg/L	0.53		K OOLMAN
Williate Finance IV		mg/L	0.55		10/28/2016
Nitrita (aa NI)	200		< 0.05		K OOLMAN
Nitrite (as N)	300	mg/L	< 0.05		10/28/2016
					K OOLMAN
Sulfate	300	mg/L	12		10/28/2016
					10/20/2010
					Analyst
Analyte	Method	Units	Results	Comments	Date Completed
					G CAMPBELL
Silica	WC.004	ppm	12.2		03/30/2017
					00/00/2017
					Analyst
Analyte	Method	Units	Results	Comments	Date Completed
					G CAMPBELL
Silver	WC.004 / 200.8	ppm	< 0.00002		03/28/2017
aboratory will only maint					
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Supervisor

Date