

WPX BWQ Surface Water Monitoring Field Form

Project Information			
Project:	BWQ: KU 11-7	Sample Purpose:	COA 9 - Annual
Site Name (Well Pad):	KU 11-7	Site API:	045-06818
Station Name:	Federal 5595	Sample Date:	12-9-15
COGCC Facility ID:	752709	Start Time:	1220
Field Sample ID:	Yellow Jacket Spg	End Time:	1250
Landowner Name:	Bum CO River Valley Office	Sample Time:	1240
Landowner Address:	2300 River Frontage Rd, Silt	Sample Team:	SLK, NWS
Water Right/Well Owner:	Bum	Observer:	SLK
Water Right/Well Permit:	Yellow Jacket Spring	Lead Signature/Date:	J. KPF 12-16-15

Station Information			
Station Description:	2" poly pipe flowing into stock tank		
Approximate Distance to Well Pad:	4,200 ft		
Station Type:	Stream / <u>Spring</u> / Seep / Pond / Lake / NPDES Outfall / Other:		
Sampling Location:	Bank / <u>Pipe</u> / Wading / Boat / Bridge / Hose bib / Tank / Other: <u>End of pipe</u>		
Sampling Location Description:	Pool / Riffle / Eddy / Backwater / Open / Channel / Braided / Other: <u>End of pipe</u>		
Sampling Location Width:	NA	Sampling Location Depth:	NA
GPS Location:	Zone	x -107.80938	y 39.463996 z 7540 ft

Weather Conditions			
Sky:	Clear / Scattered / <u>Cloudy</u> / Overcast	Estimated Air Temp (deg F):	30
Precipitation:	<u>None</u> / Light / Moderate / Heavy	Precip Type:	<u>None</u> / Rain / Sleet / Hail / Snow
Wind:	<u>Calm</u> / Light / Mod / Strong	Wind Speed/Direction:	0

Field Measurements							
Parameter	Units	Reading	Time	Flag Code	Instrument	In-situ or Container	Comments
Water Temp	deg C	4.51	1314		YSI 556	container	
pH	s.u.	6.95					
Sp. Conductivity	uS/cm	733					
Conductivity	uS/cm	446					
DO Saturation	%	27.9					
DO	mg/L	2.93					
Baro Press	mmHg	576.2					
ORP	RmV	-42.2					
Turbidity	NTU	1.14	1245	AV	microTPI		1.23, 1.14, 1.06
Discharge	gpm	0.145	1257		container/watch		550 ml/min
H2S	mg/L	0.0	1300	AV, E	H2S-C		0.0, 0.0
H2S	mg/L	0.02	1250	AV	Colorimeter		0.02, 0.02
Color:	<u>Clear</u> / White / Yellow / Brown / Green / Blue / Other					<u>Light</u> / Med / Dark	
Odor:	<u>None</u> / Mild / Mod / Strong						
Effervescence:	<u>None</u> / Mild / Mod / Strong			Bubbles:	<u>None</u> / Low / Mod / High		
Sediment:	<u>None</u> / Light / Mod / Heavy			VOA Headspace:	<u>None</u> / ≤ Pea Size / ≥ Pea Size		
Lab Analysis:	Rule 609 / <u>COA 9</u> / COA 22 / Other						
Field Filtered:	Yes / <u>No</u>	Filter Size:	NA	No. Filters used:	NA		

Flag Codes: NM (not measured), E (estimated), N/A (not applicable), I (insufficient sample), Q (uncertain value), Y (calculated value), AV (averaged value), EC (exceeds calibration range), OT (other flag to be defined later), NS (not stabilized), VAR (variable)

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Landowner Comments on water quality:

None

Additional information:

No landowners or WPX representatives present for sampling

Calibration info on Beaver Cr. 2

Calibration Information			Date:		Location:			
Instrument	Parameter	Units	Time	Calibration Standard Value	Calibration Standard Temp (°C)	Instrument Reading of Standard	Adjusted Reading	Comments
	pH	s.u.						
	pH	s.u.						
	pH	s.u.						
	SpC	uS/cm						
	SpC	uS/cm						
	DO	%						
	DO	%						
	ORP	RmV						
	Turbidity	NTU						

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Project Information			
Project:	BWQ: RW 11-7	Sample Purpose:	COA 9 Annual
Site Name (Well Pad):	RW 11-7	Site API:	045-00818
Station Name:	Federal 5595	Sample Date:	1-27-14
COGCC Facility ID:	752709	Start Time:	0940
Field Sample ID:	Yellow Jacket Spg	End Time:	0950
Landowner Name:	Blm CO River Valley Office	Sample Time:	0945
Landowner Address:	2300 River Frontage Rd, Silt	Sample Team:	SLA, NWS
Water Right/Well Owner:	Blm	Observer:	NWS
Water Right/Well Permit:	Yellow Jacket Spring	Lead Signature/Date:	[Signature] 1-28-14

Station Information			
Station Description: 2" poly pipe flowing into stock tank			
Approximate Distance to Well Pad: 4200 ft			
Station Type: Stream / <u>Spring</u> / Seep / Pond / Lake / NPDES Outfall / Other:			
Sampling Location: Bank / <u>Pipe</u> / Wading / Boat / Bridge / Hose bib / Tank / Other:			
Sampling Location Description: Pool / Riffle / Eddy / Backwater / Open / Channel / Braided / Other: <u>End of pipe</u>			
Sampling Location Width: N/A		Sampling Location Depth: NA	
GPS Location:	Zone	x -107.80938	y 39.463996 z 7540 ft

Weather Conditions			
Sky:	Clear / Scattered / Cloudy / Overcast	Estimated Air Temp (deg F): 25°	
Precipitation:	None / Light / Moderate / Heavy	Precip Type: <u>None</u> / Rain / Sleet / Hail / Snow	
Wind:	Calm / <u>Light</u> / Mod / Strong	Wind Speed/Direction: Q	

Field Measurements							
Parameter	Units	Reading	Time	Flag Code	Instrument	In-situ or Container	Comments
Water Temp	deg C	2.27	0945		YSI 556	container	
pH	s.u.	4.73	↓		↓	↓	
Sp. Conductivity	uS/cm	650					
Conductivity	uS/cm	368					
DO Saturation	%	15.9 ↓					
DO	mg/L	2.10 ↓					
Baro Press	mmHg	583.0					
ORP	RmV	83.4 ↓					
Turbidity	NTU	1.19		AV	MicroTPW		1.06, 1.49, 1.02
Discharge	<u>gpm</u>	0.16					1000 ml/min
Color: <u>Clear</u> / White / Yellow / Brown / Green / Blue / Other Light / Med / Dark							
Odor: None / <u>Mild</u> / Mod / Strong							
Effervescence: <u>None</u> / Mild / Mod / Strong				Bubbles: <u>None</u> / Low / Mod / High			
Sediment: <u>None</u> / Light / Mod / Heavy				VOA Headspace: <u>None</u> / ≤ Pea Size / ≥ Pea Size			
Lab Analysis: Rule 609 / COA 9 / COA 22 / Other: <u>Total coliform + ZART</u>							
Field Filtered: Yes / <u>No</u>		Filter Size: <u>NA</u>		No. Filters used: <u>NA</u>			

Flag Codes: NM (not measured), E (estimated), N/A (not applicable), I (insufficient sample), Q (uncertain value), Y (calculated value), AV (averaged value), EC (exceeds calibration range), OT (other flag to be defined later), NS (not stabilized), VAR (variable)

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Landowner Comments on water quality:

None

Additional information:

Analysis for total coliform and BART only.

At least 2 ft of snow on the ground. Pipe was mostly covered in snow but water still flowed at ~0.14 gpm.

No WPX representatives or landowner's present for sampling.

Calibration Information			Date: 1-27-16			Location:		
Instrument	Parameter	Units	Time	Calibration Standard Value	Calibration Standard Temp (°C)	Instrument Reading of Standard	Adjusted Reading	Comments
YSI 556	pH	s.u.	0717	7.0	21.33	7.14	7.00	
	pH	s.u.	0720	10.01	21.33	9.91	10.01	
	pH	s.u.	0727	4.01	21.34	3.96	4.00	
	SpC	uS/cm	0714	8974	21.38	8629	8974	
	SpC	uS/cm						
	DO	%	0730	492mmHg	20.56	73.4	85.4	
	DO	%						
	ORP	RmV						
	Turbidity	NTU						