

## WPX BWQ Surface Water Monitoring Field Form

Project Information			
Project:	RMV 108-4 BWQ	Sample Purpose:	Rule 609 Subsequent 1
Site Name (Well Pad):	RMV 108-4	Site API:	05-045-07194
Station Name:	Mackley Garden Spring 906	Sample Date:	10-7-14
COGCC Facility ID:	752712	Start Time:	0915
Field Sample ID:	RMV 108-4-Garden Spg	End Time:	1015
Landowner Name:	Arnold + Darleen Mackley	Sample Time:	0940
Landowner Address:	4031 CR 320, Rifle, CO 81650	Sample Team:	NWS / SLK
Water Right/Well Owner:	Arnold Mackley	Observer:	NWS
Water Right/Well Permit:	Garden Spring	Lead Signature/Date:	<i>[Signature]</i> 10-8-14

Station Information			
Station Description: Hose connection near green gate to shop			
Approximate Distance to Well Pad: 1035 FT			
Station Type: Stream / Spring / Seep / Pond / Lake / NPDES Outfall / Other:			
Sampling Location: Bank / Pipe / Wading / Boat / Bridge / Hose bib / Tank / Other:			
Sampling Location Description: Pool / Riffle / Eddy / Backwater / Open / Channel / Braided / Other: Hose bib			
Sampling Location Width: N/A		Sampling Location Depth: N/A	
GPS Location:	Zone	x -107.88599	y 39.471508 z 5736

Weather Conditions			
Sky:	Clear / Scattered / Cloudy / Overcast	Estimated Air Temp (deg F): 45	
Precipitation:	None / Light / Moderate / Heavy	Precip Type: None / Rain / Sleet / Hail / Snow	
Wind:	Calm / Light / Mod / Strong	Wind Speed/Direction: NM	

Field Measurements							
Parameter	Units	Reading	Time	Flag Code	Instrument	In-situ or Container	Comments
Water Temp	deg C	12.41	10010		YSI 550	CONTAINER	
pH	s.u.	7.04	↓		↓	↓	
Sp. Conductivity	uS/cm	741					
Conductivity	uS/cm	563					
DO Saturation	%	70.3					
DO	mg/L	7.54					
Baro Press	mmHg	620.3					
ORP	RmV	257.9					
Turbidity	NTU	0.52		AV			MICROTURB
Discharge	gpm	115.10.6	VAR	BUCKET + WATCH			
H2S	mg/L	N/A					
Color:				Clear / White / Yellow / Brown / Green / Blue / Other		Light / Med / Dark	
Odor:				None / Mild / Mod / Strong			
Effervescence:				None / Mild / Mod / Strong		Bubbles: None / Low / Mod / High	
Sediment:				None / Light / Mod / Heavy			
VOA Headspace:				None / ≤ Pea Size / ≥ Pea Size			
Lab Analysis: Rule 609 / COA 9 / COA 22 / Other							
Field Filtered:		Yes / No		Filter Size: N/A		No. Filters used: N/A	

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:

Mr. Mackley ~~the~~ mentioned that he blew out the line yesterday to this spring. Made discharge faster than previously.

Additional information:

1013: Discharge:  $3.2 \frac{\text{gal}}{\text{sec}} / 18.14 \text{ sec} = 10.6 \text{ gpm}$

Gary Reed + Arnold Mackey present for sampling.

Calibration Information			Date: 10/7/14			Location: wwl office		
Instrument	Parameter	Units	Time	Calibration Standard Value	Calibration Standard Temp (°C)	Instrument Reading of Standard	Adjusted Reading	Comments
YSI 550	pH	s.u.	0618	7.0	21.01	7.12	7.00	
	pH	s.u.	0620	10.01	21.09	9.93	10.01	
	pH	s.u.	0622	4.01	21.12	3.75	3.97	
	SpC	uS/cm	0615	2070	20.73	2047	2070	
	SpC	uS/cm						
	DO	%	0631	142.4 mmHg	21.21	69.7	84.5	
	DO	%						
	ORP	RmV						
Micro-TPW	Turbidity	NTU	0632	1000, 10, 0.02			1100, 10, 0.02	