

## TEP BWQ Surface Water Monitoring Field Form

Project Information			
Project:	TEP BWQ	Sample Purpose:	Annual COA 2024
Site Name (Well Pad):	Em 245-1	Site API:	05-045-18426
Station Name:	Hayes Gulch DWN	Sample Date:	4-16-24
COGCC Facility ID:	755511	Start Time:	1350
Field Sample ID:	Hayes Gulch DWN	End Time:	1430
Landowner Name:	TEP Rocky Mtn LLC	Sample Time:	1420
Landowner Address:	1058 CR 215 Parachute	Sample Team:	Ash TAM
Water Right/Well Owner:	N/A	Sampler:	AB
Water Right/Well Permit:	N/A	Lead Signature/Date:	M 4-16-24

Station Information			
Station Description: Upstream of culvert, 150ft upstream			
Approximate Distance to Well Pad: 1600 FT			
Station Type: <u>Stream</u> / Spring / Seep / Pond / Lake / NPDES Outfall / Other:			
Sampling Location: <u>Bank</u> / Pipe / Wading / Boat / Bridge / Hose bib / Tank / Other:			
Sampling Location Description: Pool / Riffle / Eddy / Backwater / Open / <u>Channel</u> / Braided / Other:			
Sampling Location Width: 2.5 ft		Sampling Location Depth: < 6 inches	
GPS Location:	Zone	x -108.05181	y 39.46574 z

Weather Conditions	
Sky: <u>Clear</u> / Scattered / Cloudy / Overcast	Estimated Air Temp (deg F): 60
Precipitation: <u>None</u> / Light / Moderate / Heavy	Precip Type: None / Rain / Sleet / Hail / Snow
Wind: <u>Calm</u> / Light / Mod / Strong	Wind Speed/Direction: —

Field Measurements							
Parameter	Units	Reading	Time	Flag Code	Instrument	In-situ or Container	Comments
Water Temp	deg C	15.6	1400		YSI	In Situ	
pH	s.u.	8.37	↓		↓	↓	
Sp. Conductivity	uS/cm	933					
Conductivity	uS/cm	765					
DO Saturation	%	91.5					
DO	mg/L	9.02					
Baro Press	mmHg	633.2					
ORP	RmV	267.9					
Turbidity	NTU	1100		AV	MicroTP	cont.	1100, 1100, 1100
Discharge	CFS	0.36	1410	E, AV	Flomate	in situ	Shallow flow, sensor not submerged. Estimated UP + DWN averaged

Color: Clear / White / Yellow / <u>Brown</u> / Green / Blue / Other	Light / Med / Dark
Odor: <u>None</u> / Mild / Mod / Strong	
Effervescence: <u>None</u> / Mild / Mod / Strong	Bubbles: <u>None</u> / Low / Mod / High
Sediment: None / Light / Mod / <u>Heavy</u>	VOA Headspace: <u>None</u> / ≤ Pea Size / ≥ Pea Size

Lab Analysis: Rule 615 / Rule 411 / Other COA	No. Filters used:
Field Filtered: Yes / <u>No</u>	Filter Size:

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), P (probe malfunction), NS (not stabilized), VAR (variable), OT (other flag to be defined later)

## TEP BWQ Surface Water Monitoring Field Form

Notes:

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Additional information:

Discharge - Hayes Gulch DWU

	<u>station (ft)</u>	<u>depth (ft)</u>	<u>velocity (cfs)</u>	<u>Comments</u>
TM	<del>left bank</del>	0.05	<del>0.72, 0.75</del>	<del>shallow</del>
#1	5.5	0.01	0.72, 0.75	shallow
#2	5.2	0.2	0.89, 0.98	
#3	4.8	0.25	1.08, 1.10	
#4	4.4	<del>0.15</del> 0.275	1.48, 1.60	
#5	4.0	0.15	0.68, 0.61	

Left bank	0.05	0.0	station at 5.9 ft
right bank	0.0	0.0	station at 3.4 ft

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.		See	RU 11-7	Quarterly	4/16/24	
	SpC	uS/cm						
	SpC	uS/cm						
	DO	%						
	DO	%						
	ORP	RmV						
	Turbidity	NTU						