

TEP BWQ Surface Water Monitoring Field Form

Project Information			
Project:	TEP Gm 245-1 BWQ	Sample Purpose:	Annual COA
Site Name (Well Pad):	Gm 245-1	Site API:	05-045-18426
Station Name:	Hayes Gulch DWQ	Sample Date:	4-11-19
COGCC Facility ID:	75511	Start Time:	1030
Field Sample ID:	Hayes Gulch DWQ	End Time:	1100
Landowner Name:	TEP Rocky Mtn LLC	Sample Time:	1050
Landowner Address:	PO Box 330, Gainesville, TX	Sample Team:	SLG, NWS
Water Right/Well Owner:	NA	Observer:	NWS
Water Right/Well Permit:	NA	Lead Signature/Date:	[Signature] 4-12-19

Station Information			
Station Description:	slightly upstream of culvert, west side of road		
Approximate Distance to Well Pad:	1595 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:		
Sampling Location Width:	2.5'	Sampling Location Depth:	0.3'
GPS Location:	Zone	x - 108.05181	y 39.46574 z 5219

Weather Conditions			
Sky:	Clear / Scattered / Cloudy / Overcast	Estimated Air Temp (deg F):	40
Precipitation:	None / Light / Moderate / Heavy	Precip Type:	None / Rain / Sleet / Hail / Snow
Wind:	Calm / Light / Mod / Strong	Wind Speed/Direction:	Q

Field Measurements								
Parameter	Units	Reading	Time	Flag Code	Instrument	In-situ or Container	Comments	
Water Temp	deg C	6.1	1050		YSI P10	M-SHO		
pH	s.u.	6.58	↓		↓	↓		
Sp. Conductivity	uS/cm	1083						
Conductivity	uS/cm	692						
DO Saturation	%	87.9						
DO	mg/L	10.85						
Baro Press	mmHg	625.5						
ORP	RmV	217.4						
Turbidity	NTU	144.7		AV	micro		147.8, 142.0, 144.4	
Discharge	CFS	2						
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:

None

Additional information:

No TEP representatives present for sampling.

Calibration Information			Date: <u>4-11-19</u>			Location: <u>Field</u>		
Instrument	Parameter	Units	Time	Calibration Standard Value	Calibration Standard Temp (°C)	Instrument Reading of Standard	Adjusted Reading	Comments
<u>YSi Pro</u>	pH	s.u.	<u>1008</u>	<u>7.00</u>	<u>15.1</u>	<u>6.69</u>		
	pH	s.u.	<u>1023</u>	<u>10.01</u>	<u>15.7</u>	<u>10.02</u>		
	pH	s.u.	<u>1032</u>	<u>4.01</u>	<u>15.7</u>	<u>4.28</u>	<u>4.13</u>	
	SpC	uS/cm	<u>1002</u>	<u>413</u>	<u>16.0</u>	<u>1500</u>	<u>1415</u>	
	SpC	uS/cm						
	DO	%	<u>1043</u>	<u>25.1mmHg</u>	<u>12.0</u>	<u>79.8</u>	<u>81.4</u>	
	DO	%						
	ORP	RmV						
	Turbidity	NTU						