

TEP BWQ Surface Water Monitoring Field Form

Project Information			
Project:	TEP 317B	Sample Purpose:	317B Baseline
Site Name (Well Pad):	SD 22-12 RU 52-12	Site API:	05-045-07369
Station Name:	BC 10	Sample Date:	8-1-17
COGCC Facility ID:	755848	Start Time:	1200
Field Sample ID:	BC 10	End Time:	1300
Landowner Name:	Yuberg Beaver Cr Ranch	Sample Time:	1205
Landowner Address:	215 S 10th St, Sac City, IA	Sample Team:	NWS, SLG
Water Right/Well Owner:	N/A	Observer:	SLG
Water Right/Well Permit:	N/A	Lead Signature/Date:	<i>[Signature]</i> 8-2-17

Station Information			
Station Description: Small clearing upstream of culvert			
Approximate Distance to Well Pad: 1.240 ft			
Station Type: <u>Stream</u> / Spring / Seep / Pond / Lake / NPDES Outfall / Other:			
Sampling Location: <u>Bank</u> / Pipe / <u>Wading</u> / Boat / Bridge / Hose bib / Tank / Other:			
Sampling Location Description: <u>Pool</u> / <u>Riffle</u> / Eddy / Backwater / Open / Channel / Braided / Other:			
Sampling Location Width: ~ 5.5 ft		Sampling Location Depth: ~ 0.8 ft	
GPS Location:	Zone 18S	x -107.831501	y 39.45802 z ~ 7080'

Weather Conditions			
Sky:	<u>Clear</u> / Scattered / Cloudy / Overcast	Estimated Air Temp (deg F): 80	
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: Q	

Field Measurements							
Parameter	Units	Reading	Time	Flag Code	Instrument	In-situ or Container	Comments
Water Temp	deg C	11.84	1210		550	In-Situ	
pH	s.u.	7.63					
Sp. Conductivity	uS/cm	243					
Conductivity	uS/cm	182					
DO Saturation	%	99.5					
DO	mg/L	10.74					
Baro Press	mmHg	599.2					
ORP	RmV	200.8					
Turbidity	NTU	5.14		AV		Container	5.97, 5.08, 5.94
Discharge	CFS	2.31	1215		Marsh McBrierty	In-situ	
Color:	<u>Clear</u> / White / Yellow / Brown / 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:	<u>None</u> / Light / Mod / Heavy			VOA Headspace: <u>None</u> / ≤ Pea Size / ≥ Pea Size			
Lab Analysis:	Rule 609 / COA 9 / COA 22 / Other 317B Baseline						
Field Filtered:	<u>Yes</u> / <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:

Beaver Creek ~70 ft upstream of divert. Bottom of channel is comprised of gravel, cobble, & small boulder. Banks of channel have large boulders. lots of veg.

No TEP representatives or landowners present for sampling.

Calibration info on RW 11-7 MW2

Calibration Information			Date: 8-1-17			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						

