Sampling from TEMPEST Aquifer Well at GCReW

Date: 09-04-2025

Analyte	Method	Filter?	Fixed?	Storage	Application	
Suspended sediment / TSS	GFF Filter	NA	Filter carboy in lab	NA	Addresses whether system needs a particle filter	
Conductivity	Conductivity meter	NA	NA	NA	Salinity	
рН	Electrode	NA	NÁ	NA	Protons	
SO4	Ion chromatography	0.45 um Whatman syringe filter	Fix with 5% ZnAc, 5mL sample, 500uL ZnAc, Eppendorf tube	Fridge	Key terminal electron acceptor	
Fe, Mn, Ca	ICP	0.45 um Whatman syringe filter	Scintillation vial, prepped with TCM HCl (50%, 75uL)	Yes	Key terminal electron acceptor, Ca: indicator of salts	
DOC	TOC analyzer	0.2 micron filter	Muffled 24mL amber vials, filter, fridge until run	Yes	Electron donor	
NO3, NH4, PO4	SEAL	0.45 um Whatman syringe filter	Filter with 0.45 um and freeze in falcon tubes	Yes	Key terminal electron acceptor and nutrients	
DOC	TOC analyzer	0.2 micron filter	EPA clean 40mL amber vials, filter, fridge until run	Yes	Electron donor	

SAMPLED: 12:30, 13:00, 14:00 PM 09-04-25

W THE 1300 MARK GOT SOME MORE BROWN WATER

TEMPEST – Aquifer Well Samples

Location: TEMPEST WILL FUNL!

Date: 09-04-25

Team: AS+ SW

Sample Info	Conductivity	Salinity (ppt)	рН	DO (mg/L)	temp	TOS	
A 12:28	274 us/em	0.0			21.4		probl
B 12:30	249	0.0			24.2	3.1	PROBL
C 12:33	257	0-0			246		PROBE
A 12:35	146.5 us/m	0.069	6.978	0.363			AQ600
12:51	181.0 us/a	0.091	7.237	1.502	16.90		AQ600
A 1300	236	0.0			25.6		PRobe
B 1300	246	0.0	V		22.6		Probe
13:20	202.045km	0.096	7.570	0.182 +	16.55	0.132 ppt	AQ600
13:30 3:55	189.3	0.090	7.652	Q. 0.074	16,92	0.122	AQ600
A 14:00	234	0.0		•	ZU-Q		Pken
B 14:00	218	0.0			24.0		
C14:00	224	0.0					
					-		

Notes:

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TEMPEST – Aquifer Well Discrete Samples

Location: TEMPEST FW Well / GCKeW

Date: 09-04-25
Team: AS+8W

	Sample Info	SO4/H2S/CI	DIC	DOC	FE	NUTR	Filtered	Raw	TSS		
A	12:25	/	✓	✓	V	V	/	~			
B	12:30	✓	✓	V	/	V	~		1	say 12:25	1abe
C	12:30	✓	/	/	/	V			-	say 12:25 say 12:25 on	lase
A	13:00	V	V	/	/	/	/		V		
B	13:00	✓	V			1		_	_		
C	13:00	V	/	/	/		1	-	2 —3		
A	14:00	√	V	V	V	/	/	1	/		
B	14:00	/			V	/	_		1		
C	14'.00		/	V		V		1	_		
	4			10							

Notes:

DATE:	TIN 3	PRL TIN+ FILTER	POST DRIED FILTER +TIN	POST ZHR LATER DRIED FILTER + TIN	VOLUME PUTERED:
TEMP. WELL 12:30 # 0086	1.81022	1.99738	2.00113	2.001019	1000 mb qs0ml
TEMP WELL 13:00 # 008\$7	1.79589	1.98429	1.019866	1.99887g	1105 ml
# 0088	1.74867	1.94640	1.95921	1.95923	1060 ml
EXTRA	1.81108	2.00673 9	2.00571 g	2.00567g	980 ml