



STATE OF
COLORADO

Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>

RE: Sweet Valley and Bernhardt TR1 - 2nd Adequacy Review letters

1 message

JC York <jcyork@j-tconsulting.com>

Fri, Sep 19, 2025 at 3:00 PM

To: "Gagnon - DNR, Nikie" <nikie.gagnon@state.co.us>

Nikie –

Attached is the updated summary spreadsheet for the Sweet Valley Pit to correct the quarter the testing results/data was completed in. Let me know if you need anything else.

Regards,

J.C.

J.C. York, P.E.

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From: JC York

Sent: Friday, September 19, 2025 2:35 PM

To: 'Gagnon - DNR, Nikie' <nikie.gagnon@state.co.us>

Subject: RE: Sweet Valley and Bernhardt TR1 - 2nd Adequacy Review letters

Sweet Valley Pit Monitor Well Number	Element	Reg 41 Values (mg/l)	2024				2025			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
			Result (mg/l)	Results (mg/l)	Result (mg/l)	Results (mg/l)	Result (mg/l)	Result (mg/l)	Result (mg/l)	Result (mg/l)
1	Fluoride	2	1.2	1.1		1	0.96	1	1	
	Chloride	250	151	156		216	80.7	169	160	
	Sulfate	250	188	179		239	279	206	200	
	Nitrogen, Nitrate (NO3)	10	3.4							
	Nitrogen, Nitrite (NO2)	1	<0.040							
	Nitrogen + Nitrate as Nitrogen	10	3.4	1.7		13.4	6	5.9	4.2	
	Solids, Total Dissolved	X	709	745		910	725	700	850	
	<i>Dissolved Metal Analysis</i>									
	Aluminum	5	<0.1	<0.05		0.0551	<0.05	<0.05	0.42	
	Antimony	0.006	<0.03	<0.0004		<0.0004	<0.0004	<0.0004	0	
	Arsenic	0.01	<0.025	0.00053		0.00071	0.0004	0.00068	0	
	Barium	2	0.062	0.135		0.088	0.0737	0.0992	0.064	
	Beryllium	0.004	<0.01	<0.0002		<0.0002	<0.0002		0	
	Boron	0.75	0.209	0.209		0.222	0.218	0.19	0.2	
	Cadmium	0.005	<0.01	<0.0001		<0.0001	<0.0001	<0.0001	0	
	Chromium	0.1	<0.01	<0.002	Not Available	<0.002	<0.002	<0.002	0	
	Cobalt	0.05	<0.005	0.00044		0.00041	0.00042	<0.0002	0	
	Copper	0.2	<0.01	<0.002		<0.002	0.0026	<0.002	0	
	Iron	0.3	<0.07	<0.02		0.0502	<0.02	<0.02	0.12	
	Lead	0.05	<0.05	<0.0005		<0.0005	<0.0005	<0.0005	0	
	Lithium	2.5	0.0224	0.0261		0.0351	0.0193	0.0206	0.021	
	Manganese	0.05	<0.005	0.0116		0.0175	0.031	0.0096	0.027	
	Mercury	0.002	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	0	
	Molybdenum	0.21	<0.01	0.0033		0.003	0.004	0.0028	0.0051	
	Nickel	0.1	<0.03	0.0024		0.002	0.002	<0.002	0.0015	
	Selenium	0.02	<0.05	0.0014		0.0014	0.0006	0.001	0.0013	
	Silver	0.05	<0.03	<0.0001		<0.0001	<0.0001	<0.0001	0	
	Thallium	0.002	<0.01	<0.0002		<0.0002	<0.0002	<0.0002	0	
	Uranium	0.03	<0.05	0.0072		0.0105	0.0051	0.0039	0.01	
	Vanadium	0.1	<0.01	<0.001		0.0012	<0.001	0.0012	0	
	Zinc	2	<0.03	<0.01		<0.01	<0.01	<0.01	0	

Means meets regulation or Not
Detected (0 was used for ND)

Element	Recommendation
Sulfate	These elements exceeded Reg
Nitrogen + Nitrate	41 thresholds during at least one
Iron	quarter in at least one well,
TDS	therefore they should continue
	to be included in future testing

Sweet Valley Pit Monitor Well Number	Element	Reg 41 Values (mg/l)	2024				2025			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
			Result (mg/l)	Results (mg/l)	Result (mg/l)	Results (mg/l)	Result (mg/l)	Result (mg/l)	Result (mg/l)	Result (mg/l)
2	Fluoride	2	Not Available	1	Not Available	0.57	1	0.9	0.87	
	Chloride	250		194		168	171	161	150	
	Sulfate	250		226		199	201	193	190	
Nitrogen, Nitrate (NO3)	10									
Nitrogen, Nitrite (NO2)	1									
Nitrogen + Nitrate as Nitrogen	10	0.35		4.6		3.8	1.6	2.9		
Solids, Total Dissolved	X	874		727		669	683	740		
Dissolved Metal Analysis										
Aluminum	5	<0.05		0.0545		<0.05	<0.05	0		
Antimony	0.006	<0.0004		<0.0004		<0.0004	<0.0004	0		
Arsenic	0.01	0.00054		0.00027		0.00028	0.00029	0		
Barium	2	0.138		0.0558		0.0442	0.0508	0.089		
Beryllium	0.004	<0.0002		<0.0002		<0.0002		0		
Boron	0.75	0.21		0.203		0.193	0.205	0.2		
Cadmium	0.005	<0.0001		<0.0001		<0.0001	<0.0001	0		
Chromium	0.1	<0.002		<0.002		<0.002	<0.002	0		
Cobalt	0.05	0.00067		0.00025		0.00029	<0.0002	0.00049		
Copper	0.2	<0.002		<0.002		<0.002	<0.002	0.0017		
Iron	0.3	<0.02		0.536		<0.02	<0.02	0.058		
Lead	0.05	<0.0005		<0.0005		<0.0005	<0.0005	0		
Lithium	2.5	0.0266		0.0284		0.0147	0.0138	0.016		
Manganese	0.05	0.0124		0.0053		0.012	0.0083	0.0036		
Mercury	0.002	<0.0001		<0.0001		<0.0001	<0.0001	0		
Molybdenum	0.21	0.0032		0.0015		0.0018	0.0017	0.003		
Nickel	0.1	0.0028		<0.002		<0.002	<0.002	0.0014		
Selenium	0.02	0.0013		0.0011		0.0012	0.0013	0		
Silver	0.05	<0.0001		<0.0001		<0.0001	<0.0001	0		
Thallium	0.002	<0.0002		<0.0002		<0.0002	<0.0002	0		
Uranium	0.03	0.0071		0.0146		0.0132	0.0129	0.0037		
Vanadium	0.1	<0.001		<0.001		<0.001	<0.001	0		
Zinc	2	<0.01		<0.01		<0.01	<0.01	0		

Means meets regulation or Not
Detected (0 was used for ND)

Element	Recommendation
Sulfate	These elements exceeded Reg 41 thresholds during at least one quarter in at least one well, therefore they should continue to be included in future testing
Nitrogen + Nitrate	
Iron	
TDS	

Sweet Valley Pit Monitor Well Number	Element	Reg 41 Values (mg/l)	2024				2025			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
			Result (mg/l)	Results (mg/l)	Result (mg/l)	Results (mg/l)	Result (mg/l)	Result (mg/l)	Result (mg/l)	Result (mg/l)
3	Fluoride	2	0.86	0.83		0.81	1.3	0.99	0.93	
	Chloride	250	165	172		151	153	173	160	
	Sulfate	250	193	192		195	181	212	200	
	Nitrogen, Nitrate (NO3)	10	4							
	Nitrogen, Nitrite (NO2)	1	<0.040							
	Nitrogen + Nitrate as Nitrogen	10	4	0.95		2.9	3.2	8.2	3.3	
	Solids, Total Dissolved	X	723	731		665	639	796	740	
	<i>Dissolved Metal Analysis</i>									
	Aluminum	5	<0.1	<0.05		0.0526	<0.05	<0.05	0.064	
	Antimony	0.006	<0.03	<0.0004		<0.0004	<0.0004	<0.0004	0	
	Arsenic	0.01	<0.025	0.00025		0.00028	0.0005	0.00046	0	
	Barium	2	0.0513	0.0608		0.0477	0.0424	0.0696	0.041	
	Beryllium	0.004	<0.01	<0.0002		<0.0002	<0.0002	<0.0002	0	
	Boron	0.75	0.191	0.2		0.208	0.203	0.219	0.19	
	Cadmium	0.005	<0.01	<0.0001		<0.0001	<0.0001	<0.0001	0	
	Chromium	0.1	<0.01	<0.002	Not Available	<0.002	<0.002	<0.002	0	
	Cobalt	0.05	<0.005	0.00032		0.00029	0.00039	0.00024	0.00032	
	Copper	0.2	<0.01	<0.002		<0.002	0.0078	<0.002	0	
	Iron	0.3	<0.07	<0.02		0.0342	<0.02	<0.02	0.11	
	Lead	0.05	<0.05	<0.0005		<0.0005	<0.0005	<0.0005	0	
	Lithium	2.5	0.0151	0.0183		0.0256	0.0216	0.0235	0.012	
	Manganese	0.05	<0.005	0.0013		0.0076	0.0395	0.0199	0.013	
	Mercury	0.002	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	0	
	Molybdenum	0.21	<0.01	0.0015		0.0014	0.0074	0.0056	0.0014	
	Nickel	0.1	<0.03	<0.002		<0.002	<0.002	<0.002	0.0012	
	Selenium	0.02	<0.05	0.0011		<0.0004	0.0012	0.0013	0.0013	
	Silver	0.05	<0.03	<0.0001		<0.0001	<0.0001	<0.0001	0	
	Thallium	0.002	<0.01	<0.0002		<0.0002	<0.0002	<0.0002	0	
	Uranium	0.03	<0.05	0.0139		0.0153	0.0066	0.0129	0.012	
	Vanadium	0.1	<0.01	<0.001		<0.001	<0.001	<0.001	0	
	Zinc	2	<0.03	<0.01		<0.01	<0.01	<0.01	0	

Means meets regulation or Not Detected (0 was used for ND)	
Element	Recommendation
Sulfate	These elements exceeded Reg 41 thresholds during at least one quarter in at least one well, therefore they should continue to be included in future testing
Nitrogen + Nitrate	
Iron	
TDS	

Sweet Valley Pit Monitor Well Number			2024				2025			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
			Result (mg/l)	Results (mg/l)	Result (mg/l)	Results (mg/l)	Result (mg/l)	Result (mg/l)	Result (mg/l)	Result (mg/l)
Existing Monitor Well (Was also referred to as 4)	Fluoride	2	Not Available	0.83	Not Available	1	1	1	1	
	Chloride	250		124		174	153	154	180	
	Sulfate	250		179		212	201	192	210	
	Nitrogen, Nitrate (NO3)	10								
	Nitrogen, Nitrite (NO2)	1								
	Nitrogen + Nitrate as Nitrogen	10		0.23		8	2.6	2.7	2	
	Solids, Total Dissolved	X		687		808	656	639	700	
	Dissolved Metal Analysis									
	Aluminum	5		<0.05		<0.05	<0.05	0.047		
	Antimony	0.006		<0.0004		<0.0004	<0.0004	0		
	Arsenic	0.01		0.00029		0.0006	0.00027	0.00026	0	
	Barium	2		0.0479		0.052	0.0403	0.035	0.038	
	Beryllium	0.004		<0.0002		<0.0002	<0.0002	<0.0002	0	
	Boron	0.75		0.201		0.207	0.205	0.167	0.18	
	Cadmium	0.005		<0.0001		<0.0001	<0.0001	<0.0001	0	
	Chromium	0.1		<0.002		<0.002	<0.002	<0.002	0	
	Cobalt	0.05		0.00027		0.00037	0.00033	<0.0002	0	
	Copper	0.2		<0.002		<0.002	0.0023	<0.002	0	
	Iron	0.3		<0.02		<0.02	<0.02	<0.02	0.12	
	Lead	0.05		<0.0005		<0.0005	<0.0005	<0.0005	0	
	Lithium	2.5		0.0156		0.0322	0.0119	0.0109	0.011	
	Manganese	0.05		0.0083		0.0476	0.0134	0.0055	0.0058	
	Mercury	0.002		<0.0001		<0.0001	<0.0001	<0.0001	0	
	Molybdenum	0.21		0.0014		0.0032	0.0018	0.0013	0.0015	
	Nickel	0.1		<0.002		<0.002	<0.002	<0.002	0	
	Selenium	0.02		0.00065		0.00093	<0.0004	<0.0004	0	
	Silver	0.05		<0.0001		<0.0001	<0.0001	<0.0001	0	
	Thallium	0.002		<0.0002		<0.0002	<0.0002	<0.0002	0	
	Uranium	0.03		0.0153		0.0089	0.0143	0.0123	0.017	
	Vanadium	0.1		<0.001		<0.001	<0.001	<0.001	0	
	Zinc	2		<0.01		<0.01	<0.01	0.0249	0	

Means meets regulation or Not Detected (0 was used for ND)	
Element	Recommendation
Sulfate	These elements exceeded Reg 41 thresholds during at least one quarter in at least one well, therefore they should continue to be included in future testing
Nitrogen + Nitrate	
Iron	
TDS	