RECEIVED
MAR 26 1986
DIVISION OF OIL, GAS & MINING

Rev. 3/82

Field No. _____

[1] TC [1] TM [ ] Nut
[ ] PC [ ] PM [ ] BOD

[ ] Pest. [ ] Rad. [ ] Bact. [ ] Spec.

Date Recd.: _____
Received By: _____

UTAH STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH
WATER ANALYSES

Sample No. 701 [0860541]

Storet No. [ ]

Water Syst. No. Source No. [ ] 703 704

Date Collected 702: 06 20 06 (yr. mo. dy.) 714

Time Collected: 1500 (24-hour clock) 610

Water Rights No. [ ] 707

Exact Description of sampling Point: DOWNSTREAM-SILVER REEF MINE #7 646

Supply Owned by: SM CORPORATION 712

Sample Type [ ] 710

Sample Collected by: TOM MUNSON 713

SEND REPORT TO: Phone 538 5340
TOM MUNSON 715
DIV. OF OIL GAS & MINING 648
TRIAD CENTER SLC 717
zip code

Sample Source 719: 05
01 Spring, 02 Well, 03 Stream, 04 Lake, 06 Dist. syst., 07 Effluent, 08 Storm sewer, 14 Other, 15 Tunnel, 18 Artesian well, 19 Swimming pool

County 611: 27
01 Beaver, 02 Box Elder, 03 Cache, 04 Carbon, 05 Daggett, 06 Davis, 07 Duchesne, 08 Emery, 09 Garfield, 10 Grand, 11 Iron, 12 Juab, 13 Kane, 14 Millard, 15 Morgan, 16 Piute, 17 Rich, 18 Salt Lake, 19 San Juan, 20 Sanpete, 21 Sevier, 22 Summit, 23 Tooele, 24 Uintah, 25 Utah, 26 Wasatch, 27 Washington, 28 Wayne, 29 Weber

Current use [ ] 708
Proposed use [ ] 709
1. Culinary
2. Agriculture
3. Industrial
4. Other

Cost Code 350 B 770

1 FIELD TESTS

Temperature (°C)	792	CO_2, mg/l	572
D.O., mg/l	793	Depth, m	609
Sp. Cond. µ mhos	653	Cl Resid., mg/l	753
pH	651	Flow, MGD	652
Sp. Gravity	608	Flow, GPM	604
Transparency, m	649	Flow, cfs	659

2 WASTEWATER ANALYSIS

Temperature (°C) [ ] 650 pH [ ] 782 BACT. LAB. No. [ ]

	mg/l		mg/l		
B.O.D.$_5$	794	T.O.C.	671	M.P.N. Total Coliforms/100ml	658
✓ Tot. Sus. Solids	< 3 787	C.O.D.	777	M.P.N. Fecal Coliforms/100ml	657
✓ NO_2+NO_3,N	< .01 602	Cyanide	775	Fecal Strep C/100ml.	656
T.K.N.	778	Phenolics	783	M.F. Total Coliforms/100ml.	654
Oil & Grease	780	Sulfide	672	M.F. Fecal Coliforms/100ml.	655
				Plate Count-Org./ml.	599

No sample

3 Filtered / Unfiltered

me/l	CATIONS	mg/l	ug/l (ppb)
	Ammonia as N	< .01	722
	Arsenic		723
	Barium		724
	Boron		725
	Cadmium		727
5.5	Calcium	110	728
	Chromium		729
	Chromium, Hex. as Cr	< .5	730
	Copper		732
	Iron, dissolved		733
	Lead		734
5.3	Magnesium	65	737
	Manganese		738
	Nickel		740
1.14	Potassium	45	742
	Selenium		743
	Silver		744
608	Sodium	140	745
	Zinc		749
18.	TOTAL CATIONS	360	

✓ Sp. Cond. µmhos/cm. 1600 762
TDS @ 180°C 1078 786

4 CHEMICAL ANALYSIS

pH, units 8.1

me/l	ANIONS	mg/l	
	Bicarbonate	244	758
	Carbon Dioxide	3	759
	Carbonate	0	760
5.64	Chloride	200	763
4.00	CO_3 Solids	120	
	Fluoride	.52	765
	Hydroxide	.00	767
	Nitrate as N	< .01	605
	Nitrite as N	< .01	606
	Phosphorus, Ortho as P	.01	607
	Silica, dissolved as SiO_2	31	750
7.27	Sulfate	349	772
17.			
	TOTAL ANIONS	700	
	GRAND TOTAL	1060	
✓	Tot. Phosphorus		785
✓	Total Alk. as $CaCO_3$	200	752
✓	T. Hdns. as $CaCO_3$	540	754
	Surfactant as MBAS		773
	Turbidity, as NTU	.03	757
	Sp. Gravity		608

TOTAL METALS ANALYSIS

5 CATIONS	mg/l	ug/l (ppb)
Aluminum		800
Arsenic		660
Barium	.05	661
Beryllium		801
Cadmium	<	662
Chromium	< .5	663
Cobalt		804
Copper	< .20	664
Gold		700
Iron	.05	755
Lead	< .5	665
Manganese	< .10	666
Mercury	< .1	739
Molybdenum		802
Nickel		667
Selenium	.10	668
Silver	< .2	669
Uranium,		601
Vanadium		803
Zinc	.15	670

6 RADIOLOGICS

	pc/l-g		pc/l-g	
Alpha, gross		621	^{89}Sr	633
Beta, gross		623	^{131}I	635
Tritium, ^3H		625	^{134}Cs	637
^{226}Radium		627	^{137}Cs	639
^{228}Radium		629		
^{90}Sr		631		

Analyses Approved By: RED Date: 860306

INTERPRETATION OF ANALYSES:
Remarks:

Based on State Standards, this sample was:

	Satisfactory	Conditional	Unsatisfactory
B.O.D.$_5$			
Tot. Sus. Solids			
M.P.N. Total Coliform.			
M.P.N. Fecal Coliform.			

By _____
ENVIRONMENTAL HEALTH

INSTRUCTIONS FOR COLLECTING WASTEWATER SAMPLES

1. Select point where sample will be representative and where foreign material will not be brushed into supply while sample is taken.

2. Remove cap from bottle carefully.

3. Collect sample by submerging the bottle and pushing forward with a slow, even motion so that the sample will be collected in a single stroke. If the bottle is more than 2/3 full, the excess should be removed before replacing the cap. This can best be done by flipping the water from the bottle.

4. Replace cap.

NOTE: Bottles contain a liquid or white powder (sodium thiosulfate). Do Not Rinse.

DO NOT TOUCH inside of bottle cap or top of bottle neck.

FOR LABORATORY USE ONLY

Date Rec'd _____ Date Rept'd _____

RESULTS OF ANALYSIS

	volume	Presumptive		Confirmed (BGLBB)					Fecal at 44.5°C		
	ml.	24	48	24	48	24	48	T	24	24	T
☐	10.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	1.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-1	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-2	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-3	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-4	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-5	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-6	/5	/5	/	/	/	/	/5	/	/	/5

M P N Coliforms per 100 ml. M P N Fecal Coliforms per 100 ml.

_____ _____