0072

Rev. 3/82 Field No. 1

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

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

Date Recd.: _____ Received By: _____

UTAH STATE DEPARTMENT HEALTH
ENVIRONMENTAL HEALTH
WATER ANALYSES

84-440

Sample No. 701

Storet No. 702 | Water Syst. No. Source No. 703 704 | Date Collected 714 (yr. mo. dy.) 840605 | Time Collected 716 (24-hour clock) 1430 | Water Rights No. 707

Exact Description of sampling Point 646: VALLEY CAMP OF UTAH BELINA MINE #4 POND DISCHARGE

Supply Owned by 712 | Sample Type 710

Sample Collected by 713: KEN WYATT

SEND REPORT TO: Phone 533-5771

715: DIV OIL GAS & MINING
648: 4241 STATE OFFICE BLDG
717: SALT LAKE CITY UT 84114 (zip code)

Sample Source 715: 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: 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: Y
Proposed use 709: Y

1. Culinary
2. Agriculture
3. Industrial
4. Other

Cost Code 770: 900 B

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
[X] Tot. Sus. Solids	53 787	C.O.D.	777	M.P.N. Fecal Coliforms/100ml	657
NO_2+NO_3,N	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

3 Filtered / Unfiltered

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

[ ] Sp. Cond. µmhos/cm. 835 762
[X] TDS @ 180°C 614 786

4 CHEMICAL ANALYSIS

pH, units

me/l	ANIONS	mg/l
	Bicarbonate	758
	Carbon Dioxide	759
	Carbonate	760
	Chloride	763
	CO_3 Solids	
	Fluoride	765
	Hydroxide	767
	Nitrate as N	605
	Nitrite as N	606
	Phosphorus, Ortho as P	607
	Silica, dissolved as SiO_2	750
	Sulfate	772
	TOTAL ANIONS	
	GRAND TOTAL	
	Tot. Phosphorus	785
	Total Alk. as $CaCO_3$	752
	T. Hdns. as $CaCO_3$	754
	Surfactant as MBAS	773
	Turbidity, as NTU	757
	Sp. Gravity	608

TOTAL METALS ANALYSIS

5 CATIONS

CATIONS	mg/l	ug/l (ppb)
Aluminum		800
Arsenic		660
Barium		661
Beryllium		801
Cadmium		662
Chromium		663
Cobalt		804
Copper		664
Gold		700
Iron	755	
Lead		665
Manganese		666
Mercury		739
Molybdenum		802
Nickel		667
Selenium		668
Silver		669
Uranium		601
Vanadium		803
Zinc		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: RE Date: 840716

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 (BGLB)					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.

_____ _____