0002

Document Information Form

Mine Number: C/007/006

File Name: Incoming

To: DOGM

From:

Person

Company Bishops gate Coal Corp.

Date Sent: N/A

Explanation:

ENVIRONMENTAL HEALTH

WATER ANALYSES

cc:

File in:
C/007/006, 1982, **Incoming**
Refer to:
- ☐ **Confidential**
- ☐ **Shelf**
- ☐ **Expandable**

Date _____ For additional information

0002

CEP/007/006

Rev. 3/82

Field No. 1

☐ TC ☐ TM ☐ Nut ☐ Pest. ☐ Rad. ☐ Bact. ☐ Spec.

☐ PC ☐ PM ☐ BOD

Date Recd.:

Received By:

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH

WATER ANALYSES

0 218 825219

Sample No. 701

Storet No. 702

Water Syst. No. Source No. 703 704

Date Collected 821020 (yr. mo. dy.) 714

Time Collected 1105 (24-hour clock) 610

Water Rights No. 707

Exact Description of sampling Point 646

COAL EXP BISHOP GATE
SITE 81-5-1P WEST
MVD PIT

Supply Owned by ~~JOHN WHITEHEAD~~ 712

Sample Type 710

Sample Collected by JOHN WHITEHEAD 713

SEND REPORT TO: Phone 537571

DIV OIL GAS MINING 715
4241 STATE OFFICE BL 648
SLC UTAH 84114 717

zip code

Sample Source 719

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 — 04

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 999 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
X Tot. Sus. Solids	530 787	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			

4 CHEMICAL ANALYSIS

pH, units 7.5

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
X	Turbidity, as NTU	50	757
	Sp. Gravity		608

TOTAL METALS ANALYSIS

5

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

☐ Sp. Cond. µmhos/cm. 762

X TDS @ 180°C 2625 786

File in:
☐ Confidential
☐ Shelf
☐ Expandable

Refer to Record No. 0002 Date N/A

In C/007/006, 1982, Incoming

For additional information

0002

CEP 1007/006

Rev. 3/82

Field No. 1

☐ TC ☐ TM ☐ Nut ☐ Pest. ☐ Rad. ☐ Bact. ☐ Spec.

☐ PC ☐ PM ☐ BOD

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH

WATER ANALYSES

Sample No. 0 2 1 8 7 8 2 5 2 1 9 (701)

Storet No. (702)

Water Syst. No. Source No. (703) (704)

Water Rights No. (707)

Date Collected 8 2 1 0 2 0 (714) (yr. mo. dy.)

Time Collected 1 1 0 5 (610) (24-hour clock)

Exact Description of sampling Point (646)

COAL EXP BISHOP GATE
SITE 81-5-1P WEST
MUD PIT

Supply Owned by (712)

~~JOHN WHITEHEAD~~

Sample Type (710)

Sample Collected by (713)

JOHN WHITEHEAD

SEND REPORT TO: Phone 5 3 3 5 7 7 1

DIV OIL GAS MINING (715)
4241 STATE OFFICE BL (648)
SLC UTAH 8 4 1 1 4 (717)

zip code

Sample Source (719): 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): 04

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 9 9 9 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
X Tot. Sus. Solids 5 3 0	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.	762	
X TDS @ 180°C	786	2 4 7 5

4 CHEMICAL ANALYSIS

pH, units 7.5

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	
X Turbidity, as NTU	757	5 0 6
Sp. Gravity	608	

TOTAL METALS ANALYSIS

5

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: REG Date: 821109

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

CEP 1007/1006

Rev. 3/82

Field No. 2

☐ TC ☐ TM ☐ Nut ☐ Pest.
☐ PC ☐ PM ☐ BOD ☐ Bact. ☐ Rad. ☐ Spec.

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH
WATER ANALYSES

Sample No. 8825220 (701)

Storet No. (702)

Water Syst. No. (703) Source No. (704)

Date Collected 82 10 20 (714) (yr. mo. dy.)

Time Collected 1100 (610) 24-hour clock

Water Rights No. (707)

Exact Description of sampling Point (646)
COAL EXP. BISHOP GATE
SITE 81-5-1P EAST
MUD PIT

Supply Owned by (712)

Sample Type (710)

Sample Collected by (713)
JOHN WHITEHEAD

SEND REPORT TO: Phone 573 5771 (715)
DIV OIL GAS & MINING (648)
4241 STATE OFFICE BL (717)
SLC UTAH 84114 zip code

Sample Source (719): 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): 04
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

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Proposed use (709)

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

Cost Code 999 (770) 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
☒ Tot. Sus. Solids 250	787	C.O.D.	777
NO_2+NO_3,N	602	Cyanide	775
T.K.N.	778	Phenolics	783
Oil & Grease	780	Sulfide	672

M.P.N. Total Coliforms/100ml	658
M.P.N. Fecal Coliforms/100ml	657
Fecal Strep C/100ml.	656
M.F. Total Coliforms/100ml.	654
M.F. Fecal Coliforms/100ml.	655
Plate Count-Org./ml.	599

3 ☐ Filtered ☐ Unfiltered

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	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. 762

☒ TDS @ 180°C 2332 786

4 CHEMICAL ANALYSIS

(pH, units) 816

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 182	757
Sp. Gravity	608

TOTAL METALS ANALYSIS

5

CATIONS	mg/l	ug/l (ppb)
Aluminum		800
Arsenic		660
Barium	661	
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Cadmium		662
Chromium		663
Cobalt		804
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Manganese		666
Mercury		739
Molybdenum		802
Nickel		667
Selenium		668
Silver		669
Uranium,		601
Vanadium		803
Zinc		670

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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: REL Date: 82/10/9

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