APPENDIX 7-43

CRANDALL AND BLIND CANYONS FIELD WATER QUALITY MEASUREMENTS (GENWAL)

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CRANDALL AND BLIND CANYONS FIELD WATER QUALITY MEASUREMENTS (GENWAL)

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER FLUME

DATE: 6/22/89

SAMPLER: Apc

FIELD PARAMETERS:

TEMP. 3.0° C

pH 7.1

COND. 400

FLOW 3.1 gpm

DIS. O_2

WEATHER: Clear

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER FLUME

DATE: 6/22/87

SAMPLER: Apc

FIELD PARAMETERS:

TEMP. 3.5°C

pH 7.4

COND. 450

FLOW 3.0 gpm

DIS. O_2

WEATHER: Clear & warm

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER Flume

DATE: Dec 18 1989

SAMPLER: Nandal

FIELD PARAMETERS:

TEMP. 2.8°C

pH 7.0

COND. 400

FLOW 3.1 gpm

DIS. O_2 Meter probe has been repaired 1/12/90

WEATHER: clear & cold

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER FLUME

DATE: Dec 18 1989

SAMPLER: Nandal

FIELD PARAMETERS:

TEMP. 3.0°C

pH 7.3

COND. 450

FLOW 2.9 gpm

DIS. O_2 Meter probe has been repaired 1/12/90

WEATHER: clear & cold

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER FLUME

DATE: Jan 18 1990

SAMPLER: Jacen Childs Jason Childs

FIELD PARAMETERS:

TEMP. ~~9.0°C~~ 2.9°C

pH 7.0

COND. 400

FLOW ~~2.5~~ 3.5 gpm

DIS. O_2 11.6

WEATHER: snowy & cold

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER FLUME

DATE: Jan 18 1990

SAMPLER: Jacen Childs Jason Childs

FIELD PARAMETERS:

TEMP. ~~7.2°C~~ 3.1°C

pH 7.2°

COND. 450

FLOW 4.5 ~~2.5~~ gpm

DIS. O_2 11.6

WEATHER: snowy & cold

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: Upper flume

DATE: April 14, 1990

SAMPLER: Jason A. Childs

FIELD PARAMETERS:

TEMP: 3.0 °C

pH: 7.0

COND: 400

FLOW: 2 inches on flume gauge

DIS. O2: 19.2

WEATHER: Sunny

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: Lower flume

DATE: April 14, 1990

SAMPLER: Jason A. Childs

FIELD PARAMETERS:

TEMP: 3.2° c

pH: 7.2

COND: 448

FLOW: 2 inches on flume gauge

DIS. O2: 19.1

WEATHER: Sunny

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER FLUME

DATE: 7/23/90

SAMPLER: JASON CHILDS

FIELD PARAMETERS:

TEMP: 3.2° C

pH: 7.1

COND: 410

FLOW: 2" ON FLUME GUAGE

DIS. O2:

WEATHER: HOT & SUNNY

COMMENTS: 900 AM SAMPLE WAS TAKEN

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER FLUME

DATE: 7/23/90

SAMPLER: JASON CHILDS

FIELD PARAMETERS:

TEMP: 3.3°C

pH: 7.2

COND: 448

FLOW: 2¼ ON FLUME GUAGE

DIS. O2:

WEATHER: HOT & SUNNY

COMMENTS: 830 AM was when sample was taken

4th Quarter
1990

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER FLUME

DATE: 11 OCT 1990

SAMPLER: JASON CHILDS

FIELD PARAMETERS:

TEMP: 5.2°

pH: 7.48

COND: 0.3

FLOW: .11 on flume chart

DIS. O2: 6.3

WEATHER: COLD

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER FLUME

DATE: 11 OCT 1990

SAMPLER: JASON CHILDS

FIELD PARAMETERS:

TEMP: 4.8

pH: 7.6

COND: 0.3

FLOW: .09 on flume chart

DIS. O2: 6.4

WEATHER: COLD

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER FLUME

DATE: 12 JAN 1991

SAMPLER: Randal Ralphs

FIELD PARAMETERS:

TEMP: 3.2°C

pH: 8.52

COND: 0.3 ms

FLOW: no accurate

DIS. O2: 5.9

WEATHER: partly cloudy and very cold

COMMENTS: ice inside of flume, could not get an

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER FLUME

DATE: 12 JAN 1991

SAMPLER: Randal Ralphs

FIELD PARAMETERS:

TEMP: 2.8°C

pH: 8.46

COND: 0.3

FLOW: 0.1 on flume scale

DIS. O2: 5.4%

WEATHER: partly cloudy and very cold

COMMENTS: all flume measuring charts and not work due to the cold weather - the scale observed was the vertical one inside the flume.

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: BLIND CANYON FLUME

DATE: 17 JAN 1991

SAMPLER: Randal Ralphs

FIELD PARAMETERS:

TEMP: 4.7° C

pH: 8.58

COND: 6.3 ms

FLOW: no flow could be measured

DIS. O2: 6.2%

WEATHER: partly cloudy and very cold

COMMENTS: flume was completly frozen

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER Flume

DATE: April 4 1991

SAMPLER: Randal Ralphs

FIELD PARAMETERS:

TEMP: 1.3°C

pH: 8.5

COND: 0.2 ms

FLOW: 0.19" on flume scale

DIS. O2: 6.6

WEATHER:

COMMENTS: flume chart recorder unable to function because of ice in flume

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER Flume

DATE: April 4 1991

SAMPLER: Randal Ralphs

FIELD PARAMETERS:

TEMP: 1.4°C

pH: 8.0

COND: 0.4 ms

FLOW: 0.10" on flume scale

DIS. O2: 6.5

WEATHER:

COMMENTS: flume chart recorder unable to function because of ice in flume

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: BLIND CANYON FLUME

DATE: Apr 4 1991

SAMPLER: Dennis Ralph

FIELD PARAMETERS:

TEMP: 6.9°C

pH: 8.5

COND: 0.2 mc

FLOW: [illegible] with ice

DIS. O2: 6.4

WEATHER:

COMMENTS: flume recorder wouldn't function because of ice

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION:

DATE:

SAMPLER:

FIELD PARAMETERS:

TEMP:

pH:

COND:

FLOW:

DIS. O2:

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: Upper Flume

DATE: 21 July 1991

SAMPLER: Randal

FIELD PARAMETERS:

TEMP: 5.1°C

pH: 7.0

COND: 0.5

FLOW: 0.31 on flume guage

DIS. O2: 10.5

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: Lower Flume

DATE: 21 July 1991

SAMPLER: Randal

FIELD PARAMETERS:

TEMP: 4.9°C

pH: 7.2

COND: 0.5

FLOW: 0.23 on flume Guage

DIS. O2: 10.3

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: Blind Canyon Flume

DATE: 21 July 1991

SAMPLER: Randal

FIELD PARAMETERS:

TEMP: 10.5°C

pH: 1.3

COND: 0.6

FLOW: 0.18 on flume guage

DIS. O2: 10.3

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER FLUME

DATE: 11 OCT 1991

SAMPLER: RANDAL

FIELD PARAMETERS:

TEMP: 8°C

pH: 8.5

COND: 0.6 ms

FLOW: 1½ on flume guage

DIS. O2: 13.4%

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER FLUME

DATE: 11 OCT 1991

SAMPLER: RANDAL

FIELD PARAMETERS:

TEMP: 7°C

pH: 8.26

COND: 0.6 ms

FLOW: 1½ on flume guage

DIS. O2: 12.1%

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER FLUME

DATE: 11 OCT 1991

SAMPLER: RANDAL

FIELD PARAMETERS:

~~TEMP:~~ TURBIDITY

~~pH:~~ 1.1

~~COND:~~

~~FLOW:~~

DIS. O2:

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER FLUME

DATE: 11 OCT 1991

SAMPLER: RANDAL

FIELD PARAMETERS:

~~TEMP:~~ TURBIDITY

~~pH:~~ 4.7

~~COND:~~

~~FLOW:~~

DIS. O2:

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: BLIND FLUME

DATE: 11 OCT 1991

SAMPLER: RANDAZ

FIELD PARAMETERS:

TEMP: 7°C

pH: 8.49

COND: 0.6 ms

FLOW: 3/4 on flume gauge

DIS. O2: 12.9%

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION:

DATE:

SAMPLER:

FIELD PARAMETERS:

TEMP:

pH:

COND:

FLOW:

DIS. O2:

WEATHER:

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: LOWER FLUME

DATE: 10 Dec '91

SAMPLER: Randal

FIELD PARAMETERS:

TEMP: 1°C

pH: 6.45

COND: 0.3 ms

FLOW: 0.11 on flume ~~cha~~ gauge

DIS. O2: 10.5%

WEATHER: COLD

COMMENTS:

4th Quarter was resampled becau of a mix up o Parameters at the

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: UPPER FLUME

DATE: 10 Dec '91

SAMPLER: Randal

FIELD PARAMETERS:

TEMP: 0°C

pH: 6.52

COND: 0.2 ms

FLOW: flume was frozen

DIS. O2: 11.6%

WEATHER: COLD

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: BLIND CANYON FLUME

DATE: 10 Dec '91

SAMPLER: Randal

FIELD PARAMETERS:

TEMP: -1°C

pH: 7.69

COND: 0.2 ms

FLOW: flume was frozen

DIS. O2: 12.5%

WEATHER: cold

COMMENTS:

GENWAL COAL COMPANY
WATER SAMPLING FIELD REPORT

LOCATION: SP-30

DATE: 10 Dec '91

SAMPLER: Randal

FIELD PARAMETERS:

TEMP:

pH:

COND: NO FLOW

FLOW:

DIS. O2:

WEATHER:

COMMENTS: