

BEDWAVE WATERS

1

BNW-1

ELEMENT CONCENTRATION (PPM)

NA		235
K		21
CA		10
MG		1
FE		0.07
AL	<	0.625
SI02		152
TI	<	0.125
F	<	0.625
SR		0.20
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN	<	0.125
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W	<	0.125
LI		1.33
BE	<	0.005
B		2.1
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50

TDS 850

SD4 113

CI 54

F 14

BEDWAVE WATERS

2

BNW-2

ELEMENT CONCENTRATION (PPM)

NA		245
K		20
CA		13
MG		1
FE		0.07
AL	<	0.625
SI02		172
TI	<	0.125
P	<	0.625
SR		0.28
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN	<	0.125
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W		0.2
LI		1.44
BE	<	0.005
B		2.1
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50

TDS	936
SO4	105
Cl	37
F	15

BEDWAVE WATERS

3

BNW-3

ELEMENT CONCENTRATION (PPM)

NA		35
K		7
CA		35
MG		9
FE		0.10
AL	<	0.625
SI02		73
TI	<	0.125
F	<	0.625
SR		0.25
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN	<	0.125
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W	<	0.125
LI		0.05
BE	<	0.005
B	<	0.125
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50
TDS		266
SO4		22
Cl		41
F		1.0

BEDWAVE WATERS

12

BNW-12

ELEMENT CONCENTRATION (PPM)

NA		238
K		27
CA		5
MG		1
FE		0.06
AL	<	0.625
SI02		139
TI	<	0.125
P	<	0.625
SR		0.04
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN		0.2
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W		0.2
LI		1.15
BE	<	0.005
B		2.1
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50
TDS		782
SO4		126
Cl		59
F		16

BEOVAWE WATERS

4

BNW-4

ELEMENT CONCENTRATION (PPM)

NA		335
K		36
CA		9
MG		1
FE		0.67
AL	<	0.625
SI02		111
TI	<	0.125
P	<	0.625
SR		0.09
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN		0.1
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W	<	0.125
LI		1.68
BE	<	0.005
B		2.9
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50

TDS 1018

SO4 118

Cl 66

F 21

BEOUWAWE WATERS

5

BNW-5

ELEMENT CONCENTRATION (PPM)

NA		266
K		18
CA		1
MG	<	0.500
FE	<	0.025
AL	<	0.625
SI02		269
TI	<	0.125
P	<	0.625
SR		0.01
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN	<	0.125
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
RI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W	<	0.125
LI		1.18
BE	<	0.005
B		2.2
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50
TDS		1046
SO4		102
Cl		59
F		18

BEOUWAE WATERS

6

BNW-6

ELEMENT CONCENTRATION (PPM)

NA		245
K		18
CA		2
MG	<	0.500
FE		0.04
AL	<	0.625
SI02		321
TI	<	0.125
P	<	0.625
SR		0.02
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN	<	0.125
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W	<	0.125
LI		1.09
BE	<	0.005
B		2.0
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50
TDS		948
SO4		99
Cl		51
F		16

BEOVAWE WATERS

7

BNW-7

ELEMENT CONCENTRATION (PPM)

NA		226
K		36
CA		3
MG	<	0.500
FE		0.05
AL	<	0.625
SI02		126
TI	<	0.125
P	<	0.625
SR		0.01
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN	<	0.125
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W		0.2
LI		1.05
BE	<	0.005
B		2.7
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50
TDS		848
SO4		137
Cl		54
F		17

BEDWAVE WATERS

8

BNW-8

ELEMENT CONCENTRATION (PPM)

NA		220
K		20
CA		1
MG	<	0.500
FE		0.05
AL	<	0.625
SI02		160
TI	<	0.125
P	<	0.625
SR		0.01
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN	<	0.125
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN		0.3
W		0.1
LI		0.96
BE	<	0.005
B		2.2
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50

TDS	848
SO4	110
Cl	52
F	18

BEOVAWE WATERS

9

BNW-9

ELEMENT CONCENTRATION (PPM)

NA		179
K		20
CA		3
MG	<	0.500
FE		0.11
AL	<	0.625
SI02		281
TI	<	0.125
P	<	0.625
SR		0.03
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN	<	0.125
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W		0.2
LI		0.83
BE	<	0.005
B		1.7
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50
TDS		782
SO4		111
Cl		55
F		13

BEOVAWE WATERS

10

BNW-10

ELEMENT CONCENTRATION (PPM)

NA		77
K		14
CA		26
MG		3
FE		0.23
AL	<	0.625
SI02		150
TI	<	0.125
P	<	0.625
SR		0.15
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN		0.2
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W	<	0.125
LI		0.21
BE	<	0.005
B		0.5
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50
TDS		440
SO4		46
Cl		42
F		3.2

BEOVAWE WATERS

11

BNW-11

ELEMENT CONCENTRATION (PPM)

NA		37
K		6
CA		38
MG		11
FE		0.17
AL	<	0.625
SI02		63
TI	<	0.125
P	<	0.625
SR		0.25
BA	<	0.625
V	<	1.25
CR	<	0.050
MN	<	0.250
CO	<	0.025
NI	<	0.125
CU	<	0.063
MO	<	1.25
PB	<	0.250
ZN		1.5
CD	<	0.063
AG	<	0.050
AU	<	0.100
AS	<	0.625
SB	<	0.750
BI	<	2.50
U	<	6.25
TE	<	1.25
SN	<	0.125
W	<	0.125
LI	<	0.050
BE	<	0.005
B	<	0.125
ZR	<	0.125
LA	<	0.125
CE	<	0.250
TH	<	2.50
TDS		326
SO4		38
Cl		50
F		0.5

BNW-1

SAMPLED BY: Bullett/Sibbett

DATE: 6-2-82

TIME: 3:33

Hot/warm flowing

SAMPLE TYPE: (check one)

Well _____

Spring _____

Other _____

SAMPLE LOCATION:

Nearest Town or City: Dumphy Quad 15'

State: Nevada

County: Eureka

1/4 Section SE 1/4 Section SE Section 8

Township 31N Range 48E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear _____

Cloudy _____

Sediments present Difficult to filter

Vegetation present _____

Rotten eggs odor _____

Other _____

45°C under about 6"-8" of top soil removed 30' away

TEMPERATURE: (please measure with thermometer) 42°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION:

Grass covered Sinter area with spring flowing out slow

Depth _____

Standing water level _____

Flow rate (if artesian) _____

Well diameter _____

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 7.6

NH₃ =

Alkalinity = 332

SO₄ =

H₂S =

EARTH SCIENCE LABORATORY

SAMPLE SUBMITTAL SHEET

BNW-2

SAMPLED BY: BULLETT / SIBBETT

DATE: 6-2-82

TIME: 4:30

Warm Seepage

SAMPLE TYPE: (check one)

Well

Spring

Other

SAMPLE LOCATION:

Nearest Town or City:

State: Nevada

County: Eureka

1/4 Section SE1 1/4 Section SE Section 8

Township 31N Range 48E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear

Cloudy with little cutters swimming

Sediments present

Vegetation present Heavy growth

Rotten eggs odor

Other ponds with tadpoles/flyes, muscatoes

TEMPERATURE: (please measure with thermometer) 32°C down about 40' from

SPRING FLOW RATE: (slow) moderate, fast) In gallons per minute, if known.

WELL INFORMATION:

Depth _____

Standing water level _____

Flow rate (if artesian) _____

Well diameter _____

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 8.25

NH3 =

Alkalinity = 299

SO4 =

H2S =

SAMPLE SUBMITTAL SHEET

§ BNW-3 Windmill

SAMPLED BY: Bullett (Sibbett)

DATE: 6-3-82

TIME: 8:30

SAMPLE TYPE: (check one)

Well _____

Spring _____

Other _____

sampled from watering holding tank - windmill not pumping - stock watering -

galvanized pipe and steel holding tank

some plant growth in holding tank -

SAMPLE LOCATION:

Nearest Town or City:

State: Nevada

County: Eureka

1/4 Section SW

1/4 Section SW

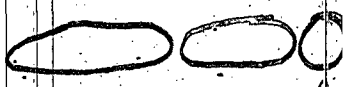
Section 32

Township 32N

Range 48E

(2) 4' x 10' tanks

2 1/2' high



SAMPLE CHARACTERISTICS: (check where appropriate)

Clear

Cloudy _____

Sediments present _____

Vegetation present _____

Rotten eggs odor _____

Other No smells

TEMPERATURE: (please measure with thermometer) 12°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION:

Depth _____

Standing water level _____

Flow rate (if artesian) _____

Well diameter _____

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 8.1

Alkalinity = 123

H₂S =

NH₃ =

SO₄ =

SAMPLE SUBMITTAL SHEET

SAMPLED BY: BNW-4
Bullett/Sibbett

DATE: 6-3-82

TIME: 9:45

SAMPLE TYPE: (check one)

Well

Spring

Other

Cold
Sampled from spring seep
area - 15' area - marshy area
with standing water only - heavy
vegetation growth - frogs, mosquito
bags -
very hard to filter

SAMPLE LOCATION:

Nearest Town or City:

State:

County:

1/4 Section SE 1/4 Section SE Section 8

Township 31N Range 48E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear

Cloudy

Sediments present

Vegetation present

Rotten eggs odor

Other

TEMPERATURE: (please measure with thermometer) 16°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION:

Depth

Standing water level

Flow rate (if artesian)

Well diameter

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 7.65

NH₃ =

Alkalinity = 485

SO₄ =

H₂S =

SAMPLE SUBMITTAL SHEET

SAMPLED BY: Bullett / Sibbett BWW-5 - Geysers Spring

DATE: 6-3-82

TIME: 11:00

SAMPLE TYPE: (check one)

sampled from geyser vent - eruption lasted 3 minutes - sampled right after. Blowing only steam 5 minutes after.

Well shot 5-7' into the air steam/water
Spring _____
Other _____

SAMPLE LOCATION:

Geysers water

Nearest Town or City:

State: Nevada

County: Eureka

1/4 Section NW

1/4 Section NW

Section 17

Township 31 N

Range 48 E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear

Cloudy _____

Sediments present _____

Vegetation present No

Rotten eggs odor

Other _____

TEMPERATURE: (please measure with thermometer) 48°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION:

Depth _____

Standing water level _____

Flow rate (if artesian) _____

Well diameter _____

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 8.9

NH₃ =

Alkalinity = 357

SO₄ =

H₂S =

SAMPLE SUBMITTAL SHEET

BW-6

SAMPLED BY: Bullett (Sibbett)

DATE: 6-3-82

TIME: 1:00

SAMPLE TYPE: (check one)

Well _____

Spring _____

Other _____

Sampled from geyser pond when it was flowing over sinter lip. Bubbling (boiling) Water in pond would rise and drop about 1'.

SAMPLE LOCATION:

Nearest Town or City:

State:

County:

1/4 Section NW 1/4 Section NW Section 17
Township 31 N Range 48 E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear

Cloudy _____

Sediments present _____

Vegetation present _____

Rotten eggs odor

Other _____

TEMPERATURE: (please measure with thermometer) 89°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION:

Depth _____

Standing water level _____

Flow rate (if artesian) _____

Well diameter _____

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 8.65

NH₃ =

Alkalinity = 333

SO₄ =

H₂S =

BMW-7

SAMPLED BY: Bulet (Sibbett)

DATE: 6-3-82

TIME: 2:00

SAMPLE TYPE: (check one)

Well _____

Spring Cold

Other _____

sampled in long drainage ditch just west of center terrace water flowing/seeping very slowly

SAMPLE LOCATION:

Nearest Town or City:

State: Nevada

County: Lander Co.

Dunphy 15' Quad

1/4 Section SW

1/4 Section NW

Section 17

Township 31 N

Range 48 E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear _____

Cloudy ✓

Sediments present ✓

Vegetation present _____

Rotten eggs odor _____

Other _____

To hard to filter keeps clogging up 10 mm pre filter only 1 1/2 hr

TEMPERATURE: (please measure with thermometer) 33°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION:

Depth _____

Standing water level _____

Flow rate (if artesian) _____

Well diameter _____

Phenol phthalein pink - 76 drops to colorless

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 9.4

Alkalinity =

H₂S =

NH₃ =

SO₄ =

SAMPLE SUBMITTAL SHEET

SAMPLED BY: BNW-8
Bullett / Sibbett

DATE: 6-3-82

TIME: 3:00

*sampled from 3' vent
which flowed into pond.
Flow is from a crack in
center terrace material*

SAMPLE TYPE: (check one)

Well _____
Spring _____
Other _____

SAMPLE LOCATION:

Nearest Town or City:

State: Nevada 1 1/2' Dunphy Quail

County: Lander

1/4 Section SW 1/4 Section NW Section 17
Township 31N Range 48E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear _____
Cloudy _____
Sediments present _____
Vegetation present _____
Rotten eggs odor _____
Other _____

TEMPERATURE: (please measure with thermometer) 89°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.
Good flow rate

WELL INFORMATION:

Depth _____
Standing water level _____
Flow rate (if artesian) _____
Well diameter _____

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 8.75 NH₃ = _____
Alkalinity = 297 SO₄ = _____
H₂S = _____

SAMPLE SUBMITTAL SHEET

SAMPLED BY: BNM-9 Drill Pad

DATE: Bulletin/Sibbett

TIME: 6-4-82

SAMPLE TYPE: (check one)

Well _____

Spring

Other _____

Sampled from drill hole pad area. Seepage from cut area.

SAMPLE LOCATION:

Seepage from cut

Nearest Town or City:

State: Nevada

County: Lander Co.

15' Dunphy

1/4 Section NE

1/4 Section SE

Section 18

Township 31 N

Range 48 E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear

Cloudy _____

Sediments present led algae growth around

Vegetation present _____

Rotten eggs odor no odor

Other _____

TEMPERATURE: (please measure with thermometer) 77°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION: flow rate is slow

Depth _____

Standing water level _____

Flow rate (if artesian) _____

Well diameter _____

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 8.45

NH3 =

Alkalinity = 232

SO4 =

H2S =

SAMPLE SUBMITTAL SHEET

SAMPLED BY: BNW-10DATE: Bullett (Sublett)
6-3-82TIME: 4:00

SAMPLE TYPE: (check one)

Well Spring Other Bottle # 2Sampled from spring
in marsh area

SAMPLE LOCATION:

Nearest Town or City:

State: NevadaCounty: Lander15' Dunphy Quad. $\frac{1}{4}$ Section SE $\frac{1}{4}$ Section NESection 18Township 31 NRange 48 E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear Cloudy Sediments present Vegetation present Rotten eggs odor Other TEMPERATURE: (please measure with thermometer) 44°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION:

Flow rate is slow but steady.

Depth Standing water level Flow rate (if artesian) Well diameter

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 7.25NH₃ =Alkalinity = 146SO₄ =H₂S =

SAMPLE SUBMITTAL SHEET

SAMPLED BY: BWW-11 Windmill
Bullett/Sibbett

DATE: 6-4-82

TIME: 9:30

SAMPLE TYPE: (check one)

Well

Spring

Other

~~Sampled from stock watering trough 2 1/2 x 4 x 10' long tank full.~~

Sampled from galvanized pipe while wind was blowing and windmill pumping -

SAMPLE LOCATION:

Nearest Town or City:

State: Nevada

County: Lander

15' Dunphy ^{Qal} Quad.

1/4 Section NW

1/4 Section NW

Section 26

Township 31 N

Range 47 E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear

Cloudy

Sediments present

Vegetation present

Rotten eggs odor NO

Other

There is an 8" casing about 100' away, NE dir. Water at about 50-70' (Dropped rocks down hole and could hear them hit water)

TEMPERATURE: (please measure with thermometer) 14°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION:

Depth _____

Standing water level _____

Flow rate (if artesian) _____

Well diameter _____

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 7.55

NH₃ =

Alkalinity = 106

SO₄ =

H₂S =

SAMPLE SUBMITTAL SHEET

SAMPLED BY: BNW-12 Cold Spring
Bullett / Subbett

DATE: 11:15

TIME: 6-4-82

SAMPLE TYPE: (check one)

Well _____
Spring Cold
Other _____

*Sampled from slow flow
Spring. (at high area)*

SAMPLE LOCATION:

Nearest Town or City:

State: Nevada

County: Elveka

151 Dunshij Quad.

1/4 Section SE 1/4 Section SW Section 8
Township 31 N Range 48 E

SAMPLE CHARACTERISTICS: (check where appropriate)

Clear

Cloudy _____

Sediments present

Vegetation present frogs, tadpoles, mosquito

Rotten eggs odor _____

Other _____

TEMPERATURE: (please measure with thermometer) 20°C

SPRING FLOW RATE: (slow, moderate, fast) In gallons per minute, if known.

WELL INFORMATION: very slow but steady

Depth _____

Standing water level _____

Flow rate (if artesian) _____

Well diameter _____

ARE THERE OTHER WELLS OR SPRINGS NEARBY? DRAW SKETCH MAP IF NECESSARY.

COMMENTS: Field pH = 8.15 NH₃ =
Alkalinity = 277 SO₄ =
H₂S =

Dates from Beowawe, NV. (for Bruce Sibbett)

Sample No.	Unit	Material Dated	Weight (gms)	%K	Moles/gm Ar ⁴⁰ _{Rad} (X10 ¹¹)	%Ar ⁴⁰ _{atm}	Age(m.y., ±1σ)
BN-5	--	Whole Rock	1.06373	0.93	2.727	90	16.8±2.5
BN-7	--	Plagioclase	1.00882	0.88	2.149	74	14.0±0.8

Constants Used:

$$\lambda_{\beta} = 4.962 \times 10^{-10} / \text{yr.}$$

$$\lambda_{\epsilon} = 0.581 \times 10^{-10} / \text{yr.}$$

$$K^{40} / K_{\text{Tot.}} = 1.167 \times 10^{-4} \text{ Mole/Mole}$$

Sample from Beowawe, NV dated for Bruce Sibbett

Sample No.	Unit	Material Dated	Weight (gms)	%K	Moles/gm Ar ⁴⁰ Rad (X10 ¹¹)	%Ar ⁴⁰ atm	Age(m.y., ±1σ)
BN-13B/AH-112	--	Whole Rock	1.00936	1.32	3.740	82	16.3±1.6

Constants Used:

$$\lambda_{\beta} = 4.962 \times 10^{-10} / \text{yr.}$$

$$\lambda_{\epsilon} = 0.581 \times 10^{-10} / \text{yr.}$$

$$K^{40} / K_{\text{Tot.}} = 1.167 \times 10^{-4} \text{ Mole/Mole}$$

SIBBETT

Near Barite mine
Ov- alt-

3

BN-4

ELEMENT

CONCENTRATION

NA	% OX.		0.247
K	% OX.		0.338
CA	% OX.		0.761
MG	% OX.		0.120
FE	% OX.		6.55
AL	% OX.		2.64
SI	% OX.	<	1.60
TI	% OX.		0.206
F	% OX.		0.044
SR	PPM		98
BA	% OX.		0.021
V	PPM	<	250
CR	PPM		32
MN	% OX.		0.006
CO	PPM		82
NI	PPM	<	5.00
CU	PPM		20
MO	PPM	<	50.0
PB	PPM	<	10.0
ZN	PPM		6
CD	PPM	<	5.00
AG	PPM	<	2.00 0.96
AU	PPM	<	4.00 0.43
AS	PPM	<	25.0
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		17
BE	PPM		0.9
B	PPM	<	400
ZR	PPM		97
LA	PPM		5
CE	PPM	<	10.0
TH	PPM	<	150
Hg	PPM		1.4
TOTAL			12.533

SIRBETT

2

BN-2

White Canyon alt.

ELEMENT

CONCENTRATION

NA	% OX.		0.914
K	% OX.		5.30
CA	% OX.		0.282
MG	% OX.		0.055
FE	% OX.		5.25
AL	% OX.		11.07
SI	% OX.	<	1.60
TI	% OX.		0.710
P	% OX.		0.276
SR	PPM		934
BA	% OX.		0.179
V	PPM	<	250
CR	PPM	<	2.00
MN	% OX.		0.002
CO	PPM		31
NI	PPM	<	5.00
CU	PPM	<	5.00
MO	PPM	<	50.0
PB	PPM		12
ZN	PPM	<	5.00
CD	PPM	<	5.00
AG	PPM	<	2.00
AU	PPM	<	4.00
AS	PPM		32
SB	PPM	<	30.0
BI	PPM	<	100
U	PPM	<	2500
TE	PPM	<	50.0
SN	PPM	<	5.00
W	PPM	<	1200
LI	PPM		11
BE	PPM		2.6
B	PPM	<	400
ZR	PPM		314
LA	PPM		38
CE	PPM		55
TH	PPM	<	150
Hg	PPM		19.8
TOTAL			25.646

0.84
0.44