

POOR ORIGINAL

RIVER WATER SAMPLE ANALYSIS
January 1980

	<u>U-NAT</u>	<u>Th230</u>	<u>Ra226</u>	<u>Gross Beta - Gam</u>
Above mill	.00004 x 10 ⁻⁵ uc/ml	.0058 x 10 ⁻⁶ uc/ml	.036 x 10 ⁻⁸ uc/ml	same as background
¼ mi. below mill	.00002 x 10 ⁻⁵ uc/ml	.0035 x 10 ⁻⁶ uc/ml	.10 x 10 ⁻⁸ uc/ml	same as background
½ mi. below mill	.00001 x 10 ⁻⁵ uc/ml	.0083 x 10 ⁻⁶ uc/ml	.06 x 10 ⁻⁸ uc/ml	same as background
1 mile below	nil	.0049 x 10 ⁻⁶ uc/ml	.12 x 10 ⁻⁸ uc/ml	same as background
5 miles below	nil	.0047 x 10 ⁻⁶ uc/ml	.07 x 10 ⁻⁸ uc/ml	same as background
10 miles below	nil	.0029 x 10 ⁻⁶ uc/ml	.16 x 10 ⁻⁸ uc/ml	same as background

February 1980

	<u>U-NAT</u>	<u>Th230</u>	<u>Ra226</u>	<u>Gross Beta - Gam</u>
Above mill	nil	.0051 x 10 ⁻⁶ uc/ml	.028 x 10 ⁻⁸ uc/ml	same as background
¼ mi. below mill	nil	.0074 x 10 ⁻⁶ uc/ml	.10 x 10 ⁻⁸ uc/ml	same as background
½ mi. below mill	nil	.0075 x 10 ⁻⁶ uc/ml	.093 x 10 ⁻⁸ uc/ml	same as background
1 mile below	nil	.0056 x 10 ⁻⁶ uc/ml	.049 x 10 ⁻⁸ uc/ml	same as background
5 miles below	nil	.0038 x 10 ⁻⁶ uc/ml	.065 x 10 ⁻⁸ uc/ml	same as background
10 miles below	nil	.0032 x 10 ⁻⁶ uc/ml	.11 x 10 ⁻⁸ uc/ml	same as background

March 1980

	<u>U-NAT</u>	<u>Th230</u>	<u>Ra226</u>	<u>Gross Beta - Gam</u>
Above mill	.00034 x 10 ⁻⁵ uc/ml	.0063 x 10 ⁻⁶ uc/ml	.10 x 10 ⁻⁸ uc/ml	same as background
¼ mi. below mill	.00018 x 10 ⁻⁵ uc/ml	.0037 x 10 ⁻⁶ uc/ml	.091 x 10 ⁻⁸ uc/ml	same as background
½ mi. below mill	nil	.0039 x 10 ⁻⁶ uc/ml	.14 x 10 ⁻⁸ uc/ml	same as background
1 mile below	nil	.0056 x 10 ⁻⁶ uc/ml	.10 x 10 ⁻⁸ uc/ml	same as background
5 miles below	nil	.0028 x 10 ⁻⁶ uc/ml	.08 x 10 ⁻⁸ uc/ml	same as background
10 miles below	nil	.0037 x 10 ⁻⁶ uc/ml	.06 x 10 ⁻⁸ uc/ml	same as background

April 1980

	<u>U-NAT</u>	<u>Th230</u>	<u>Ra226</u>	<u>Gross Beta - Gam</u>
Above mill	nil	.0028 x 10 ⁻⁶ uc/ml	.064 x 10 ⁻⁸ uc/ml	same as background
¼ mi. below mill	nil	.0014 x 10 ⁻⁶ uc/ml	.512 x 10 ⁻⁸ uc/ml	same as background
½ mi. below mill	nil	.0023 x 10 ⁻⁶ uc/ml	.27 x 10 ⁻⁸ uc/ml	same as background
1 mile below	nil	.0014 x 10 ⁻⁶ uc/ml	.022 x 10 ⁻⁸ uc/ml	same as background
5 miles below	nil	.0029 x 10 ⁻⁶ uc/ml	.07 x 10 ⁻⁸ uc/ml	same as background
10 miles below	nil	.0011 x 10 ⁻⁶ uc/ml	.067 x 10 ⁻⁸ uc/ml	same as background

May 1980

	<u>U-NAT</u>	<u>Th230</u>	<u>Ra226</u>	<u>Gross Beta - Gam</u>
Above mill	nil	.0037 x 10 ⁻⁶ uc/ml	.12 x 10 ⁻⁸ uc/ml	same as background
¼ mi. below mill	nil	.0020 x 10 ⁻⁶ uc/ml	.47 x 10 ⁻⁸ uc/ml	same as background
½ mi. below mill	nil	.0017 x 10 ⁻⁶ uc/ml	.068 x 10 ⁻⁸ uc/ml	same as background
1 mile below	nil	.0035 x 10 ⁻⁶ uc/ml	.058 x 10 ⁻⁸ uc/ml	same as background
5 miles below	nil	.0028 x 10 ⁻⁶ uc/ml	.62 x 10 ⁻⁸ uc/ml	same as background
10 miles below	nil	.0012 x 10 ⁻⁶ uc/ml	.059 x 10 ⁻⁸ uc/ml	same as background

June 1980

	<u>U-NAT</u>	<u>Th230</u>	<u>Ra226</u>	<u>Gross Beta - Gam</u>
Above mill	nil	.0035 x 10 ⁻⁶ uc/ml	.17 x 10 ⁻⁸ uc/ml	same as background
¼ mi. below mill	nil	.0031 x 10 ⁻⁶ uc/ml	.32 x 10 ⁻⁸ uc/ml	same as background
½ mi. below mill	nil	.0038 x 10 ⁻⁶ uc/ml	.099 x 10 ⁻⁸ uc/ml	same as background
1 mile below	nil	.0044 x 10 ⁻⁶ uc/ml	.17 x 10 ⁻⁸ uc/ml	same as background
5 miles below	nil	.0041 x 10 ⁻⁶ uc/ml	.14 x 10 ⁻⁸ uc/ml	same as background
10 miles below	nil	.0037 x 10 ⁻⁶ uc/ml	.16 x 10 ⁻⁸ uc/ml	same as background

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Continuous Air Samples
1st Quarter 1980

MPC		<u>U-NAT</u>	<u>Pb-210</u>	<u>RN-222</u>
		2×10^{-12} uci/ml	4×10^{-12} uci/ml	30×10^{-10} uci/ml
Location	Month	Sample Assays		
#1	Jan.	$.0046 \times 10^{-11}$ uci/ml	4.48×10^{-14} uci/ml	$4.2 \pm .15 \times 10^{-10}$ uci/ml
#2	Jan.	$.0023 \times 10^{-11}$ uci/ml	3.47×10^{-14} uci/ml	$2.0 \pm .13 \times 10^{-10}$ uci/ml
#3	Jan.	$.00094 \times 10^{-11}$ uci/ml	2.46×10^{-14} uci/ml	$5.8 \pm .18 \times 10^{-10}$ uci/ml
#4	Jan.	$.00069 \times 10^{-11}$ uci/ml	3.58×10^{-14} uci/ml	$.55 \pm .22 \times 10^{-10}$ uci/ml
#1	Feb.	$.0052 \times 10^{-11}$ uci/ml	3.59×10^{-14} uci/ml	$2.7 \pm .18 \times 10^{-10}$ uci/ml
#2	Feb.	$.0029 \times 10^{-11}$ uci/ml	2.87×10^{-14} uci/ml	$4.0 \pm .18 \times 10^{-10}$ uci/ml
#3	Feb.	$.0019 \times 10^{-11}$ uci/ml	5.15×10^{-14} uci/ml	$2.9 \pm .22 \times 10^{-10}$ uci/ml
#4	Feb.	$.0009 \times 10^{-11}$ uci/ml	2.51×10^{-14} uci/ml	$1.5 \pm .15 \times 10^{-10}$ uci/ml
#1	March	$.0044 \times 10^{-11}$ uci/ml	3.7×10^{-14} uci/ml	$4.2 \pm .13 \times 10^{-10}$ uci/ml
#2	March	$.0032 \times 10^{-11}$ uci/ml	2.2×10^{-14} uci/ml	$2.4 \pm .20 \times 10^{-10}$ uci/ml
#3	March	$.0012 \times 10^{-11}$ uci/ml	1.5×10^{-14} uci/ml	$6.5 \pm .16 \times 10^{-10}$ uci/ml
#4	March	$.0011 \times 10^{-11}$ uci/ml	2.3×10^{-14} uci/ml	$1.8 \pm .20 \times 10^{-10}$ uci/ml

		<u>Ra-226</u>	<u>Th-230</u>
		Sample Assays	
#1		1.64×10^{-12} uci/ml	$.1209 \times 10^{-14}$ uci/ml
#2		$.211 \times 10^{-12}$ uci/ml	$.13 \times 10^{-14}$ uci/ml
#3		1.02×10^{-12} uci/ml	$.13 \times 10^{-14}$ uci/ml
#4		$.038 \times 10^{-12}$ uci/ml	$.11 \times 10^{-14}$ uci/ml

RIVER & MONITOR WELL WATERS

1st Quarter 1980

MONITOR WELL #1

Gross Beta & Gamma	= $.408 \times 10^{-6}$ uci/ml	SO ₄	= 833 ppm
U NAT	= $.036 \times 10^{-5}$ uci/ml	NO ₃	= 37 NO ₃ /L
Ra 226	= $.88 \times 10^{-8}$ uci/ml	Fe	= <.1 ppm
Th 230	= $.0045 \times 10^{-12}$ uci/ml	Mn	= 3.7 ppm
Pb 210	= 0.0×10^{-9} uci/ml	As	= <.01 ppm
Po 210	= .029 pci/ml	Se	= <.1 ppm
K ⁺	= 210 ppm	TDS	= 22,023 ppm
Na ⁺	= 6300 ppm	Conductivity	= 29,400 micromhos
Cl ⁻	= 3152 ppm	Ph	= 7.4
		Cu	= <.1 ppm

MONITOR WELL #2

Gross Beta & Gamma	= 2.50×10^{-6} uci/ml	SO ₄	= 450 ppm
U NAT	= $.207 \times 10^{-5}$ uci/ml	NO ₃	= 24 NO ₃ /L
Ra 226	= 1.31×10^{-8} uci/ml	Fe	= <.1 ppm
Th 230	= $.014 \times 10^{-12}$ uci/ml	Mn	= 4.5 ppm
Pb 210	= 2.1×10^{-9} uci/ml	As	= <.01 ppm
Pl 210	= .021 pci/ml	Se	= <.1 ppm
K ⁺	= 100 ppm	TDS	= 5416 ppm
Na ⁺	= 970 ppm	Conductivity	= 7200 micromhos
Cl ⁻	= 1255 ppm	Ph	= 7.4
		Cu	= <.1 ppm

MONITOR WELL #3

Gross Beta & Gamma	= 2.02×10^{-6} uci/ml	SO ₄	= 397 ppm
U NAT	= $.043 \times 10^{-5}$ uci/ml	NO ₃	= 4 NO ₃ /L
Ra 226	= $.50 \times 10^{-8}$ uci/ml	Fe	= <.1 ppm
Th 230	= $.0044 \times 10^{-12}$ uci/ml	Mn	= 2.6 ppm
Pb 210	= 0.0×10^{-9} uci/ml	As	= <.01 ppm
Po 210	= .013 pci/ml	Se	= <.1 ppm
K ⁺	= 150 ppm	TDS	= 5563 ppm
Na ⁺	= 975 ppm	Conductivity	= 7400 micromhos
Cl ⁻	= 2457 ppm	Ph	= 7.4
		Cu	= <.1 ppm

nil = same as background

RIVER & MONITOR WELL WATERS

RIVER 1 MILE BELOW MILL

~~Gross Beta & Gamma~~ = _____
~~U NAT~~ = _____
~~Ra 226~~ = _____
~~Th 230~~ = _____
 Pb 210 = 3.9×10^{-9} uci/ml
 Po 210 = .00064 pci/ml
 K⁺ = 4.6 ppm
 Na⁺ = 135 ppm
 Cl⁻ = 31.91 ppm

SO₄ = 8 ppm
 NO₃ = 4 NO₃/L
 Fe = <.1 ppm
 Mn = <.1 ppm
 As = <.01 ppm
 Se = <.1 ppm
 TDS = 790 ppm
 Conductivity = 1050 micromhos
 Ph = 8.0
 Cu = <.1 ppm

RIVER 5 MILES BELOW MILL

~~Gross Beta & Gamma~~ = _____
~~U NAT~~ = _____
~~Ra 226~~ = _____
~~Th 230~~ = _____
 Pb 210 = 0.0×10^{-9} uci/ml
 Po 210 = .00064 pci/ml
 K⁺ = 4.6 ppm
 Na⁺ = 135 ppm
 Cl⁻ = 31.91 ppm

SO₄ = 10 ppm
 NO₃ = 4 NO₃/L
 Fe = <.1 ppm
 Mn = <.1 ppm
 As = <.01 ppm
 Se = <.1 ppm
 TDS = 786 ppm
 Conductivity = 1050 micromhos
 Ph = 8.0
 Cu = <.1 ppm

RIVER 10 MILES BELOW MILL

~~Gross Beta & Gamma~~ = _____
~~U NAT~~ = _____
~~Ra 226~~ = _____
~~Th 230~~ = _____
 Pb 210 = 3.3×10^{-9} uci/ml
 Po 210 = .00064 pci/ml
 K⁺ = 4.6 ppm
 Na⁺ = 135 ppm
 Cl⁻ = 31.91 ppm

SO₄ = 20 ppm
 NO₃ = 4 NO₃/L
 Fe = <.1 ppm
 Mn = <.1 ppm
 As = <.01 ppm
 Se = <.1 ppm
 TDS = 829 ppm
 Conductivity = 1100 micromhos
 Ph = 8.0
 Cu = <.1 ppm

RIVER & MONITOR WELL WATERS

RIVER ABOVE MILL

Gross Beta & Gamma	=	_____
U NAT	=	_____
Ra-226	=	_____
Th-230	=	_____
Pb 210	=	0.0×10^{-9} uci/ml
Po 210	=	nil
K ⁺	=	5.7 ppm
Na ⁺	=	135 ppm
Cl ⁻	=	21.28 ppm

SO ₄	=	12 ppm
NO ₃	=	4 NO ₃ /L
Fe	=	<.1 ppm
Mn	=	<.1 ppm
As	=	<.01 ppm
Se	=	<.1 ppm
TDS	=	757 ppm
Conductivity	=	1000 micromhos
Ph	=	7.9
Cu	=	<.1 ppm

RIVER 1/4 MILE BELOW MILL

Gross Beta & Gamma	=	_____
U NAT	=	_____
Ra-226	=	_____
Th-230	=	_____
Pb 210	=	0.0×10^{-9} uci/ml
Po 210	=	.006 pci/ml
K ⁺	=	5 ppm
Na ⁺	=	135 ppm
Cl ⁻	=	21.28 ppm

SO ₄	=	2 ppm
NO ₃	=	4 NO ₃ /L
Fe	=	<.1 ppm
Mn	=	<.1 ppm
As	=	<.01 ppm
Se	=	<.1 ppm
TDS	=	1100 ppm
Conductivity	=	1400 micromhos
Ph	=	7.9
Cu	=	<.1 ppm

RIVER 1/2 MILE BELOW MILL

Gross Beta & Gamma	=	_____
U NAT	=	_____
Ra-226	=	_____
Th-230	=	_____
Pb 210	=	3.1×10^{-9} uci/ml
Po 210	=	.0014 pci/ml
K ⁺	=	4.6 ppm
Na ⁺	=	135 ppm
Cl ⁻	=	31.91 ppm

SO ₄	=	20 ppm
NO ₃	=	4 NO ₃ /L
Fe	=	<.1 ppm
Mn	=	<.1 ppm
As	=	<.01 ppm
Se	=	<.1 ppm
TDS	=	806
Conductivity	=	1100 micromhos
Ph	=	7.9
Cu	=	<.1 ppm

Continuous Air Samples
2nd Quarter 1980

Location	Month	<u>U-NAT</u>	<u>Pb-210</u>	<u>RN-222</u>
		2×10^{-12} uci/ml	4×10^{-12} uci/ml	30×10^{-10} uci/ml
Sample Assays				
#1	April	.0092 x 10 ⁻¹¹ uci/ml	5.3 x 10 ⁻¹⁴ uci/ml	3.6 $\frac{+}{-}$.16 x 10 ⁻¹⁰ uci/ml
#2	April	.0060 x 10 ⁻¹¹ uci/ml	2.4 x 10 ⁻¹⁴ uci/ml	1.1 $\frac{+}{-}$.20 x 10 ⁻¹⁰ uci/ml
#3	April	.0022 x 10 ⁻¹¹ uci/ml	2.2 x 10 ⁻¹⁴ uci/ml	2.4 $\frac{+}{-}$.20 x 10 ⁻¹⁰ uci/ml
#4	April	.0014 x 10 ⁻¹¹ uci/ml	2.2 x 10 ⁻¹⁴ uci/ml	.7 $\frac{+}{-}$.13 x 10 ⁻¹⁰ uci/ml
#1	May	.0086 x 10 ⁻¹¹ uci/ml	4.3 x 10 ⁻¹⁴ uci/ml	4.4 $\frac{+}{-}$.18 x 10 ⁻¹⁰ uci/ml
#2	May	.0034 x 10 ⁻¹¹ uci/ml	1.7 x 10 ⁻¹⁴ uci/ml	1.5 $\frac{+}{-}$.16 x 10 ⁻¹⁰ uci/ml
#3	May	.0026 x 10 ⁻¹¹ uci/ml	2.1 x 10 ⁻¹⁴ uci/ml	4.5 $\frac{+}{-}$.22 x 10 ⁻¹⁰ uci/ml
#4	May	.0016 x 10 ⁻¹¹ uci/ml	1.2 x 10 ⁻¹⁴ uci/ml	1.6 $\frac{+}{-}$.22 x 10 ⁻¹⁰ uci/ml
#1	June	.032 x 10 ⁻¹² uci/ml		5.1 x 10 ⁻¹⁰ uci/ml
#2	June	.029 x 10 ⁻¹² uci/ml		3.1 x 10 ⁻¹⁰ uci/ml
#3	June	.016 x 10 ⁻¹² uci/ml		3.6 x 10 ⁻¹⁰ uci/ml
#4	June	.009 x 10 ⁻¹² uci/ml		2.0 x 10 ⁻¹⁰ uci/ml

Location	<u>Ra-226</u>	<u>Th-230</u>
	Sample Assays	
#1	.008 x 10 ⁻¹² uci/ml	.97 x 10 ⁻¹⁴ uci/ml
#2	.001 x 10 ⁻¹² uci/ml	.47 x 10 ⁻¹⁴ uci/ml
#3	.004 x 10 ⁻¹² uci/ml	.47 x 10 ⁻¹⁴ uci/ml
#4	.001 x 10 ⁻¹² uci/ml	.42 x 10 ⁻¹⁴ uci/ml

2nd Quarter 1980

MONITOR WELL #1

Gross Beta & Gamma	=	1.90×10^{-6} uci/ml
U NAT	=	$.031 \times 10^{-5}$ uci/ml
Ra 226	=	1.77×10^{-8} uci/ml
Th 230	=	$.0017 \times 10^{-12}$ uci/ml
Pb 210	=	
Po 210	=	.024 pci/ml
K ⁺	=	175 PPM
Na ⁺	=	5500 PPM
Cl ⁻	=	4230.38 PPM

SO ₄	=	856 PPM
NO ₃	=	10.35 g NO ₃ /l
Fe	=	<.1 PPM
Mn	=	1.65 PPM
As	=	<.01 PPM
Se	=	<.1 PPM
TDS	=	34200 PPM
Conductivity	=	45,000 micromhos
Ph	=	7.3
Cu	=	<.1 PPM

MONITOR WELL #2

Gross Beta & Gamma	=	3.53×10^{-6} uci/ml
U NAT	=	$.14 \times 10^{-5}$ uci/ml
Ra 226	=	2.09×10^{-8} uci/ml
Th 230	=	$.0020 \times 10^{-12}$ uci/ml
Pb 210	=	
Pl 210	=	.0099 pci/ml
K ⁺	=	120 PPM
Na ⁺	=	725 PPM
Cl ⁻	=	1347.48 PPM

SO ₄	=	434 PPM
NO ₃	=	1.37 g NO ₃ /l
Fe	=	<.1 PPM
Mn	=	3.80 PPM
As	=	<.01 PPM
Se	=	<.1 PPM
TDS	=	10486 PPM
Conductivity	=	14,000 micromhos
Ph	=	7.3
Cu	=	<.1 PPM

MONITOR WELL #3

Gross Beta & Gamma	=	1.30×10^{-6} uci/ml
U NAT	=	$.042 \times 10^{-5}$ uci/ml
Ra 226	=	$.62 \times 10^{-8}$ uci/ml
Th 230	=	$.0031 \times 10^{-12}$ uci/ml
Pb 210	=	
Po 210	=	.0049 pci/ml
K ⁺	=	120 PPM
Na ⁺	=	865 PPM
Cl ⁻	=	2726.57 PPM

SO ₄	=	403 PPM
NO ₃	=	.13 g NO ₃ /l
Fe	=	<.1 PPM
Mn	=	1.65 PPM
As	=	<.01 PPM
Se	=	<.1 PPM
TDS	=	11324 PPM
Conductivity	=	15,000 micromhos
Ph	=	7.4
Cu	=	<.1 PPM

RIVER & MONITOR WELL WATERS

RIVER 1 MILE BELOW MILL

Gross Beta & Gamma	=	_____	SO ₄	=	2.00 PPM
U NAT	=	_____	NO ₃	=	.0082 g NO ₃ /l
Ra 226	=	_____	Fe	=	<.1 PPM
Th 230	=	_____	Mn	=	<.1 PPM
Pb 210	=	_____	As	=	<.01 PPM
Po 210	=	.0014 pci/ml	Se	=	<.1 PPM
K ⁺	=	3.10 PPM	TDS	=	380 PPM
Na ⁺	=	4.05 PPM	Conductivity	=	500 micromhos
Cl ⁻	=	88.65 PPM	Ph	=	7.9
			Cu	=	<.1 PPM

RIVER 5 MILES BELOW MILL

Gross Beta & Gamma	=	_____	SO ₄	=	2.64 PPM
U NAT	=	_____	NO ₃	=	.0083 g NO ₃ /l
Ra 226	=	_____	Fe	=	<.1 PPM
Th 230	=	_____	Mn	=	<.1 PPM
Pb 210	=	_____	As	=	<.01 PPM
Po 210	=	.0014 pci/ml	Se	=	<.1 PPM
K ⁺	=	3.10 PPM	TDS	=	380 PPM
Na ⁺	=	4.05 PPM	Conductivity	=	500 micromhos
Cl ⁻	=	88.65 PPM	Ph	=	8.0
			Cu	=	<.1 PPM

RIVER 10 MILES BELOW MILL

Gross Beta & Gamma	=	_____	SO ₄	=	2.23 PPM
U NAT	=	_____	NO ₃	=	.0083 g NO ₃ /l
Ra 226	=	_____	Fe	=	<.1 PPM
Th 230	=	_____	Mn	=	<.1 PPM
Pb 210	=	_____	As	=	<.01 PPM
Po 210	=	.00064 pci/ml	Se	=	<.1 PPM
K ⁺	=	3.10 PPM	TDS	=	380 PPM
Na ⁺	=	4.05 PPM	Conductivity	=	500 micromhos
Cl ⁻	=	88.65 PPM	Ph	=	8.0
			Cu	=	<.1 PPM

RIVER ABOVE MILL

Gross Beta & Gamma	=	_____
U NAT	=	_____
Ra 226	=	_____
Th 230	=	_____
Pb 210	=	_____
Po 210	=	.00064 pci/ml
K ⁺	=	3.10 PPM
Na ⁺	=	4.05 PPM
Cl ⁻	=	88.65 PPM

SO ₄	=	3.85 PPM
NO ₃	=	.0082 g NO ₃ /l
Fe	=	<.1 PPM
Mn	=	<.1 PPM
As	=	<.01 PPM
Se	=	<.1 PPM
TDS	=	396 PPM
Conductivity	=	525 micromhos
Ph	=	8.1
Cu	=	<.1 PPM

RIVER 1/4 MILE BELOW MILL

Gross Beta & Gamma	=	_____
U NAT	=	_____
Ra 226	=	_____
Th 230	=	_____
Pb 210	=	_____
Po 210	=	.0014 pci/ml
K ⁺	=	3.10 PPM
Na ⁺	=	4.05 PPM
Cl ⁻	=	88.65 PPM

SO ₄	=	2.12 PPM
NO ₃	=	.0083 g NO ₃ /l
Fe	=	<.1 PPM
Mn	=	<.1 PPM
As	=	<.01 PPM
Se	=	<.1 PPM
TDS	=	420 PPM
Conductivity	=	550 micromhos
Ph	=	7.9
Cu	=	<.1 PPM

RIVER 1/2 MILE BELOW MILL

Gross Beta & Gamma	=	_____
U NAT	=	_____
Ra 226	=	_____
Th 230	=	_____
Pb 210	=	_____
Po 210	=	.0013 pci/ml
K ⁺	=	3.10 PPM
Na ⁺	=	4.05 PPM
Cl ⁻	=	88.65 PPM

SO ₄	=	2.06 PPM
NO ₃	=	.0083 g NO ₃ /l
Fe	=	<.1 PPM
Mn	=	<.1 PPM
As	=	<.01 PPM
Se	=	<.1 PPM
TDS	=	420 PPM
Conductivity	=	550 micromhos
Ph	=	8.0
Cu	=	<.1 PPM

1/17/80 08:00

speed - 1 mph
direction - out of the south 180°

1/17/80 15:00

speed - 1 mph
direction - out of the southwest 210°

1/18/80 08:30

speed - 2 mph
direction - out of the southeast 140°

1/18/80 15:00

speed - 3 mph
direction - out of the southeast 120°

1/19/80 08:30

speed - 2 mph
direction - out of the south 190°

1/19/80 15:30

speed - 8 mph
direction - out of the west 250°

1/20/80 08:00

speed - 15 mph
direction - out of the southeast 150°

1/20/80 15:00

speed - 4½ mph
direction - out of the south 170°

1/21/80 08:00

speed - 4½ mph
direction - out of the south 150°

1/21/80 15:30

speed - 4½ mph
direction - out of the south 150°

1/22/80 08:00

speed - 4½ mph
direction - out of the south 180°

1/22/80 15:00

speed - 4½ mph
direction - out of the south 180°

1/23/80 08:00

speed - $4\frac{1}{2}$ mph
direction - out of the south 160°

1/23/80 15:30

speed - $4\frac{1}{2}$ mph
direction - out of the south 200°

1/24/80 08:30

speed - 3 mph
direction - out of the southwest 230°

1/24/80 15:00

speed - 3 mph
direction - out of the east 100°

1/25/80 08:00

speed - 1 mph
direction - out of the northwest 330°

1/25/80 15:00

speed - $2\frac{1}{2}$ mph
direction - out of the southeast 120°

1/26/80 08:30

speed - 1 mph
direction - out of the north 360°

1/26/80 15:30

speed - 2 mph
direction - out of the west 250°

1/27/80 08:30

speed - 1 mph
direction - out of the southeast 150°

1/27/80 15:30

speed - $1\frac{1}{2}$ mph
direction - out of the east 90°

1/28/80 08:30

speed - 1 mph
direction - out of the southeast 140°

1/28/80 15:30

speed - 1 mph
direction - out of the east 100°

1/29/80 08:00

speed - 4 mph
direction - out of the southwest 250°

2/1/80 08:00

speed - 1 mph
direction - out of the southwest 200°

2/1/80 15:00

speed - 1½ mph
direction - out of the south 180°

2/2/80 08:00

speed - 1 mph
direction - out of the south 180°

2/2/80 15:00

speed - 1 mph
direction - out of the south 180°

2/3/80 08:00

speed - 1 mph
direction - out of the west 270°

2/3/80 15:00

speed - 7 mph
direction - out of the east 90°

2/4/80 08:00

speed - 5 mph
direction - out of the south 180°

2/4/80 15:00

speed - 4 mph
direction - out of the southeast 120°

2/5/80 08:00

speed - 3 mph
direction - out of the south 180°

2/5/80 15:00

speed - 3 mph
direction - out of the southwest 210°

2/6/80 08:00

speed - 1 mph
direction - out of the south 180°

2/6/80 15:00

speed - 3½ mph
direction - out of the east 90°

2/7/80 08:00

speed - 15 mph
direction - out of the southeast 150°

2/7/80 15:30

speed - 6 mph
direction - out of the south 170°

2/8/80 08:30

speed - 7 mph
direction - out of the southwest 240°

2/8/80 15:00

speed - 3 mph
direction - out of the north 340°

2/9/80 08:00

speed - 9 mph
direction - out of the southeast 140°

2/9/80 15:00

speed - 5 mph
direction - out of the southeast 170°

2/10/80 08:30

speed - 3 mph
direction - out of the west 270°

2/10/80 15:00

speed - 3 mph
direction - out of the west 270°

2/11/80 08:00

speed - 3 mph
direction - out of the west 270°

2/11/80 15:00

speed - 3 mph
direction - out of the west 270°

2/12/80 08:00

speed - 3 mph
direction - out of the west 270°

2/12/80 15:00

speed - 3 mph
direction - out of the west 270°

2/13/80 08:00 chart repaired

speed - 3 mph
direction - out of the west 250°

2/13/80 15:00 chart repaired

speed - 2 mph
direction - out of the southwest 230°

2/14/80 08:00

speed - 2 mph
direction - out of the north 90°

changed chart

3/14/80 08:30

speed - 4 mph
direction - out of the southwest 210°

3/14/80 15:00

speed - 1.5 mph
direction - out of the west 290°

3/15/80 08:00

speed - 4 mph
direction - out of the west 270°

3/15/80 15:00

speed - 7 mph
direction - out of the west 320°

3/16/80 08:00

speed - 5 mph
direction - out of the north 360°

3/16/80 15:30

speed - 3 mph
direction - out of the north 360°

3/17/80 08:30

speed - 2 mph
direction - out of the east 100°

3/17/80 15:00

speed - 1 mph
direction - out of the east 110°

3/18/80 09:00

speed - 2 mph
direction - out of the south 150°

3/18/80 15:00

speed - 2 mph
direction - out of the south 180°

3/19/80 08:00

speed - 1 mph
direction - out of the east 80°

3/19/80 15:30

speed - 1 mph
direction - out of the east 80°

3/20/80 08:30

speed - 3 mph
direction - out of the north 10°

3/20/80 15:30

speed - 4.5 mph
direction - out of the northeast 50°

3/21/80 08:30

speed - 10 mph
direction - out of the south 170°

3/21/80 15:30

speed - 7 mph
direction - out of the south 170°

3/22/80 08:00

speed - 2 mph
direction - out of the southwest 210°

3/22/80 15:30

speed - 2 mph
direction - out of the southwest 210°

3/23/80 08:30

speed - 3 mph
direction - out of the west 250°

3/23/80 17:00

speed - 3 mph
direction - out of the west 260°

3/24/80 08:00

speed - 3 mph
direction - out of the north 350°

3/24/80 15:30

speed - 3 mph
direction - out of the north 350°

3/25/80 08:30

speed - 3 mph
direction - out of the north 350°

3/25/80 15:30

speed - 3 mph
direction - out of the north 350°

3/26/80 08:30

speed - 3 mph
direction - out of the north 350°

3/26/80 15:30

speed - 3 mph
direction - out of the north 350°

3/27/80 09:00

speed - 3 mph
direction - out of the north 350°

3/27/80 14:30

speed - 3 mph
direction - out of the north 350°

4/11/80 08:00
speed - 8 mph
direction - out of the northwest 340°

4/11/80 15:00
speed - 8 mph
direction - out of the north 360°

4/12/80 08:00
speed - 2 mph
direction - out of the north 360°

4/12/80 15:00
speed - 6 mph
direction - out of the north 350°

4/13/80 08:00
speed - 3 mph
direction - out of the northeast 30°

4/13/80 15:30
speed - 3 mph
direction - out of the south 180°

4/14/80 08:30
speed - 1 mph
direction - out of the northeast 60°

4/14/80 15:00
speed - 1 mph
direction - out of the southeast 150°

4/15/80 08:00
speed - 1 mph
direction - out of the east 90°

4/15/80 15:00
speed - 2 mph
direction - out of the southeast 130°

4/16/80 08:00
speed - 1 mph
direction - out of the southeast 150°

4/16/80 15:30
speed - 3 mph
direction - out of the northwest 200°

4/17/80 08:00
speed - 1 mph
direction - out of the southeast 150°

4/17/80 15:30
speed - 2 mph
direction - out of the southwest 250°

4/18/80 08:00
speed - 1 mph
direction - out of the east 90°

4/18/80 15:30
speed - 2 mph
direction - out of the northwest 290°

4/19/80 08:30
speed - 1 mph
direction - out of the northeast 50°

4/19/80 15:00
speed - 3 mph
direction - out of the northeast 40°

4/20/80 08:00
speed - 1 mph
direction - out of the northeast 80°

4/20/80 15:00
speed - 9 mph
direction - out of the southeast 150°

4/21/80 08:00
speed - 2 mph
direction - out of the south 180°

4/21/80 15:30
speed - 8 mph
direction - out of the southeast 150°

4/22/80 08:30
speed - 1½ mph
direction - out of the northeast 60°

4/22/80 15:00
speed - 16 mph
direction - out of the southeast 160°

4/23/80 08:00
speed - 4 mph
direction - out of the southwest 140°

4/23/80 15:30
speed - 2 mph
direction - out of the northwest 270°

4/24/80 08:00
speed - 1 mph
direction - out of the southeast 150°

4/24/80 15:30
speed - 2 mph
direction - out of the southeast 160°

5/7/80 09:00
speed - 3 mph
direction - out of the northeast 60°

5/7/80 15:00
speed - 3 mph
direction - out of the north 30°

5/8/80 08:00
speed - 1 mph
direction - out of the east 80°

5/8/80 15:30
speed - 1 mph
direction - out of the northeast 40°

5/9/80 08:00
speed - 4 mph
direction - out of the northeast 40°

5/9/80 15:00
speed - 15 mph
direction - out of the southeast 150°

5/10/80 08:00
speed - 5 mph
direction - out of the southeast 150°

5/10/80 15:00
speed - 6 mph
direction - out of the southeast 150°

5/11/80 08:30
speed - 6 mph
direction - out of the southeast 150°

5/11/80 15:30
speed - 6 mph
direction - out of the southeast 150°

5/12/80 08:00
speed - 7 mph
direction - out of the southeast 150°

5/12/80 15:00
speed - 4 mph
direction - out of the southwest 240°

5/13/80 08:00
speed - 1 mph
direction - out of the east 90°

5/13/80 15:30
speed - 2 mph
direction - out of the northeast 60°

5/14/80 08:00
speed - 1 mph
direction - out of the northeast 40°

5/14/80 15:00
speed - 3 mph
direction - out of the northeast 50°

5/15/80 08:30
speed - 1 mph
direction - out of the northeast 50°

5/15/80 15:00
speed - 8 mph
direction - out of the southeast 140°

5/16/80 08:00
speed - 1 mph
direction - out of the northeast 60°

5/16/80 15:00
speed - 8 mph
direction - out of the southeast 150°

5/17/80 08:00
speed - 3 mph
direction - out of the southeast 150°

5/17/80 15:30
speed - 4 mph
direction - out of the southeast 140°

5/18/80 08:00
speed - 6 mph
direction - out of the southeast 110°

5/18/80 15:00
speed - 3 mph
direction - out of the northeast 60°

5/19/80 08:00
speed - 1 mph
direction - out of the northeast 60°

5/19/80 15:00
speed - 3 mph
direction - out of the southeast 140°

5/20/80 08:00
speed - 1 mph
direction - out of the southeast 150°

5/20/80 15:00
speed - 2 mph
direction - out of the north 360°

6/12/80 08:30
speed - 1 mph
direction - out of the east 100°

6/12/80 15:00
speed - 1 mph
direction - out of the east 90°

6/13/80 08:00
speed - 1 mph
direction - out of the east 80°

6/13/80 15:00
speed - 4 mph
direction - out of the east 90°

6/14/80 08:00
speed - 1 mph
direction - out of the northwest 330°

6/14/80 15:00
speed - 3 mph
direction - out of the southeast 150°

6/15/80 08:00
speed - 1 mph
direction - out of the west 290°

6/15/80 15:00
speed - 15 mph
direction - out of the southeast 150°

6/16/80 08:00
speed - 1 mph
direction - out of the east 90°

6/16/80 15:00
speed - 11 mph
direction - out of the southeast 130°

6/17/80 08:30
speed - 1 mph
direction - out of the northeast 60°

6/17/80 15:00
speed - 5 mph
direction - out of the southeast 150°

6/18/80 09:00
speed - 7 mph
direction - out of the south 180°

6/18/80 15:00
speed - 1 mph
direction - out of the southeast 140°

6/19/80 08:30
speed - 9 mph
direction - out of the south 180°

6/19/80 15:30
speed - 4 mph
direction - out of the southeast 150°

6/20/80 08:00
speed - 1 mph
direction - out of the northeast 50°

6/20/80 15:00
speed - 4 mph
direction - out of the southeast 140°

6/21/80 08:30
speed - 3 mph
direction - out of the northeast 50°

6/21/80 15:30
speed - 10 mph
direction - out of the southeast 150°

6/22/80 08:30
speed - 1 mph
direction - out of the northwest 340°

6/22/80 15:00
speed - 1 mph
direction - out of the southeast 120°

6/23/80 08:30
speed - 1 mph
direction - out of the southeast 120°

6/23/80 15:30
speed - 2 mph
direction - out of the south 180°

6/24/80 08:00
speed - 1 mph
direction - out of the southeast 130°

6/24/80 15:00
speed - 3 mph
direction - out of the southeast 150°

6/25/80 09:00
speed - 8 mph
direction - out of the southwest 240°

6/25/80 15:00
speed - 4 mph
direction - out of the north 360°