

E. D. Appolonia Consulting Engineers, Inc.

TABLES

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TABLE I

HYDRAULIC PRESSURE TEST RESULTS
CUCUMBER RUN

Boring No.	Test Interval Depth (Ft.)	Permeability (cm/sec)
2	7-12	6.7×10^{-3}
	12-17	6.7×10^{-4}
	17-22	6.4×10^{-5}
	22-27	0
	27-32	7.0×10^{-6}
	32-37	2.4×10^{-6}
4	15-20	1.7×10^{-3}
	20-25	6.5×10^{-4}
	25-30	1.1×10^{-3}
	30-35	1.0×10^{-4}
	35-40	1.1×10^{-6}
	40-45	3.0×10^{-6}
5	45-50	0
	26-31	6.0×10^{-5}
	31-36	4.6×10^{-4}
	36-41	0
	41-46	0
	46-51	0
	51-56	9.4×10^{-7}
56-61	8.6×10^{-6}	
6	8-13	0
	13-18	0
	18-23	0
	23-28	3.5×10^{-5}
	28-33	2.7×10^{-6}
	33-38	1.2×10^{-6}
	38-43	1.1×10^{-5}
7	10-15	1.0×10^{-4}
	15-20	0
	20-25	4.3×10^{-6}
	25-30	0
	30-35	4.1×10^{-6}
	35-40	3.0×10^{-6}
	40-45	2.0×10^{-6}
	45-50	4.9×10^{-6}
50-56	3.2×10^{-5}	

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TABLE I

HYDRAULIC PRESSURE
CUCUMBER RUN
(Continued)



Boring No.	Test Interval Depth (Ft.)	
8	23-28	2.0
	30-35	
	35-40	
	40-45	
	45-50	
	50-58	
10	16-21	0

005
12,500
mg/l Sulfares
lb/day
AD

TABLE II

WATER QUALITY AND POLLUTION LOAD
CUCUMBER RUN

Sampling Point	Flow cfs	pH	Acidity		Iron		Sulfates	
			mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
<u>July 2, 1970:</u>								
Cucumber Run at Falls	8.0	3.3	100	4300	1.7	73	290	12,500
North Branch at confluence	2.5	3.0	200	2700	8.3	112	260	3,500
Main Branch at confluence	5.0	3.7	22	590	0.6	16	44	1,200
Main Branch 200' above confluence	5.0	3.8	40	1100	1.6	43	56	1,500
<u>September 5, 1970:</u>								
North Branch at confluence	1.0	2.9	500	2700	37.5	203	1500	8,100
Main Branch at confluence	0.5	4.4	8.0	20	0.2	0.5	56	150

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TABLE III

CONSTRUCTION COST ESTIMATE
MINE SEALING
CUCUMBER RUN WATERSHED

Mobilization	\$50,000
Mine Seals	
Seven Constructed Within the Mine	99,550
Three Constructed Remotely	26,500
Exploratory Drilling	6,400
Grout Curtains	87,150
Piezometers	6,100
Rock Highwall Treatment	96,250
Embankment Mine Seals and Individual Clay Seals	282,000
Revegetation (temporary)	<u>14,000</u>
	\$667,950
Regrading and Revegetation	150,000
Additional Grouting (if required)	300,000 to <u>500,000</u>
TOTAL	\$818,000
	to \$1,318,000