

01/23/2000 12:06:19 AM

Laboratory Report For  
Mining And Reclamation

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Sample ID: 4117 054 01/11/2000

Status: COMPLETED

Collector: John W Davidson  
County: Washington  
Municipality: Smith Twp  
Facility/Permit ID: 63860104  
Facility: PENNBALT 3 SITE  
Permittee Name: PENNBALT INC  
MP ID: CV4 (17626)  
\* Alias ID Project/Facility

State: PA

FIX ID: 258025

MP Type: Stream

JB-2

* Alias ID	Project/Facility	Washington	/Smith
CV4	63860103	Washington	/Smith
* CV4	63860104	Washington	/Smith

\* - Indicates the sample was taken for this project/facility

Location: NOT INDICATED  
Reason: Routine Sampling

Field Tests

pH By Color 3.6 pH

(Flow Rates) Initial: 91.2 Final: 91.2 Units: Gal/Min E/M/C: M  
Laboratory Sample ID: I2000001459 COMPLETED  
Standard Analysis: 420 Mine Drainage - Routine + Suspended Solids

Test/CAS# - Description	Reported Results	Completed
00403 pH	3.6 pH units	01/12/2000
00530A T SUSP SOLID	8.0 MG/L	01/13/2000
00945A SULFATE T	911.0 MG/L	01/20/2000
01045Z IRON T	70600.000 UG/L	01/13/2000
01055Z MANGANESE T	4570.000 UG/L	01/13/2000
01105Z ALUMINUM T	11500.000 UG/L	01/13/2000
00929Z SODIUM T	36.800 MG/L	01/13/2000
70508 HOT ACIDITY	232.00 MG/L	01/13/2000
00410 ALKALINITY	0.0 MG/L	01/13/2000

Acid 254 lbs/day  
 Alk 0 lbs/day  
 Fe 78 lbs/day 14.2 Ton/year  
 Mn 5 lbs/day  
 Al 13 lbs/day  
 SO<sub>4</sub> 1002 lbs/day

JB2

SAMPLE DATE	SAMPLE NUMBER	MONITORING POINT NO.	LAB pH	ALKALINITY mg/l	ACIDITY mg/l	IRON mg/l	MANGANESE mg/l	ALUMINUM mg/l	SULFATES mg/l	TSS mg/l	IDS mg/l	FLOW gpm	SURFACE ELEVATION	SAMPLE POINT DESCRIPTION
1-23-97		CV4	3.6	0	278	64.7	4.98	13.5	1183	<3	-	37.85		
2-25-97		CV4	3.7	0	236	62.5	5.02	12.2	1010	<3	-	69		
3-24-97		CV4	3.8	0	208	50.6	4.8	10.4	831	8	-	45		
4-28-97		CV4	3.8	0	232	53.2	4.47	9.48	826	8	-	75.2		
5-21-97		CV4	3.8	0	236	58.4	4.63	9.5	1015	<3	-	108		
6-24-97		CV4	3.8	0	202	52.9	4.79	9.33	775	<3	-	109		
7-14-97		CV4	4.0	0	246	61	5.17	8.98	892	<3	-	158		
8-25-97		CV4	3.8	0	242	66.8	4.8	8.81	940	<3	-	109		
9-18-97		CV4	3.8	0	246	78.3	4.88	9.7	935	<3	-	98.4		
10-22-97		CV4	3.7	0	280	75.2	4.78	11.3	841	<3	-	84.3		
11-12-97		CV4	3.8	0	260	68.4	4.48	11.1	881	<3	-	84.3		
1-28-98		CV4	3.7	0	210	57.9	5.41	10.5	952	<3	-	91.2		
2-11-98		CV4	3.8	0	186	55.5	4.87	9.46	897	<3	-	91.2		
3-24-98		CV4	4.0	0	146	47.7	4.62	8.73	820	14	-	149		
4-16-98		CV4	4.1	5.4	192	57.2	5.12	9.11	868	<3	-	122		
5-20-98		CV4	4.0	3	154	46.2	4.65	7.91	870	8	-	200		



JB 2

Date	Flow (GPM)	Acidity Load	Fe Load	Mn Load	Al Load	SO <sub>4</sub>	
1-23-97	37.85	126.48	29.4	2.27	6.14	538	
2-25-97	69	195.7	51.8	4.16	10.1	837	
3-24-97	45	112.5	27.3	2.6	5.6	449	
4-28-97	75.2	209.7	47.9	4	8.5	743	
5-21-97	108	306.4	75.9	6.0	12.4	1320	
6-24-97	109	264.7	69.3	6.3	12.2	1015	
7-14-97	158	467	115.9	9.82	17.1	1695	
8-25-97	109	317	87.5	6.3	11.5	1231	
9-18-97	98.4	291	86.5	5.8	11.4	1103	
10-22-97	84.3	283.7	76	4.8	11.4	849	
11-12-97	84.3	263	69	4.5	11.2	890	
1-28-98	91.2	230	63.7	5.95	11.6	1047	
2-11-98	91.2	205	61.1	5.36	10.4	987	
3-24-98	149	261.5	85.4	8.27	15.6	1468	
4-16-98	122						

Note: All load values to be reported in pounds per day (concentration in mg/l x flow in gallons/minute x 0.01202 = load in lbs./day).

**Notes:**

<sup>1</sup>All sample analysis results must be included in Module 8.1(A).

<sup>2</sup>For weir, specify type, flow equation and measuring point; for stream, include rating curve where applicable; for culverts, include equation and reference.