



**US Army Corps
of Engineers**
Huntington District

Public Notice

In reply refer to:	Issuance Date:
Public Notice No. 200301234	August 25, 2004
Stream:	Expiration Date:
Mill Branch	September 24, 2004
Address comments to:	US Army Corps of Engineers, Huntington District 502 Eighth Street ATTN: CELRHF Huntington, West Virginia 25701-2070

PUBLIC NOTICE

PUBLIC NOTICE: The purpose of this public notice is to inform you of a proposal for work in which you might be interested. It is also to solicit your comments and information to better enable us to make a reasonable decision on factors affecting the public interest. We hope you will participate in this process.

REGULATORY PROGRAM: Since its early history, the U.S. Army Corps of Engineers (Corps) has played an important role in the development of the nation's water resources. Originally, this involved construction of harbor fortifications and coastal defenses. Later duties included the improvement of waterways to provide avenues of commerce. An important part of our mission today is the protection of the nation's waterways through the administration of the Corps Regulatory Program.

SECTION 10: The Corps is directed by Congress under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) to regulate all work or structures in or affecting the course, condition or capacity of navigable waters of the United States (U.S.). The intent of this law is to protect the navigable capacity of waters important to interstate commerce.

SECTION 404: The Corps is directed by Congress under Section 404 of the Clean Water Act (33 USC 1344) to regulate the discharge of dredged and fill material into all waters of the United States, including wetlands. The intent of the law is to protect the nation's waters from the indiscriminate discharge of material capable of causing pollution and to restore and maintain their chemical, physical and biological integrity.

TO WHOM IT MAY CONCERN: The following application has been submitted for a Department of the Army Permit under the provisions of Section 404 of the Clean Water Act. This notice serves as the Corps of Engineers' request to the West Virginia Department of Environmental Protection to act on Section 401 Water Quality Certification for the following application.

APPLICANT: Laurel Run Mining Company
1800 Washington Road
Pittsburgh, Pennsylvania 15241

LOCATION: The proposed project is located in Mill Branch, Josh Fork, Foundation Fork, Road Branch, and two unnamed tributaries of Big Cub Creek (one of which is referred to as Toler Hollow), approximately 1.5 miles south of Coal Mountain, in Clear Fork District of Wyoming County, West Virginia as depicted on Drawing 1 (**Drawing No. B03-096-B1**). Permit No. S-4026-96 is located in the following watersheds: Mill Branch, Josh Fork, Foundation Fork, Road Branch, and Toler Hollow (an unnamed tributary to Big Cub Creek). Permit No. S-4021-96 is located in the Reedy Branch drainage. All streams exhibit surface water connections to tributary systems of the Guyandot River, a navigable water of the United States. The proposed project areas are located on the Baileysville, Gilbert, Oceana and Mallory USGS quadrangles.

DESCRIPTION OF THE PROPOSED WORK: The applicant proposes to place fill material into waters of the U.S. in conjunction with the construction of nine valley fills and nine sediment ponds associated with the Coal Mountain No. 1 Surface Mine and Coal Mountain Valley Fill No. 2. The applicant also proposes to remove coal seams underlying stream beds and construct a road crossing. The construction of the proposed valley fills would result in the discharge of fill material into approximately 16,234 linear feet or 0.998 acre of intermittent streams and 9,647 linear feet or 0.46 acre of ephemeral streams. Further, approximately 3,630 linear feet or 0.272 acre of intermittent stream channels and 850 linear feet or 0.061 acre of ephemeral stream channels would be temporarily impacted by the construction of the proposed sediment ponds. The proposed road crossing would temporarily impact 30 linear feet or 0.001 acre of intermittent stream channel. Approximately 50 linear feet or 0.005 acre of ephemeral stream channel would be impacted in conjunction with the removal of coal reserves underlying the stream bed of an unnamed tributary of Big Cub Creek (area is known as Toler Hollow). In total, approximately 30,441 linear feet or 1.797 acres of waters of the U.S. would be impacted by the proposed project. **Table A** of this public notice details the proposed mining activities and corresponding information with respect to the proposed impact locations and stream loss (linear feet and acres). All of the proposed valley fills would drain watersheds of less than 250 acres and range from 40.83 acres to 230.2 acres as detailed on the **Table B** of this public notice.

The West Virginia Department of Environmental Protection (WVDEP) approved the applicant's Surface Mining Permit application (S-4020-96 and S-4021-96) pursuant to the Surface Mining Control and Reclamation Act of 1977. Permit No. S-4020-96 proposed to disturb 1,137.46 acres and Permit No. S-4021-96 proposes to disturb 171.04 acres for a total disturbance of 1,308.50 acres.

Mineral removal operations would be conducted using the mountaintop mining method. The mining plan for Coal Mountain No. 1 Surface Mine and Coal Mountain Valley Fill No. 2 necessitates the creation of approximately 109.7 million cubic yards of material (less coal yardage) to be excavated by the mining operation. This excavated material would be less dense than the in situ material and generally occupies 25 percent more space. Therefore, an excess spoil disposal area is necessary for the mining operation to occur. Using a "swell" factor of 25%, a volume of 135.8 million cubic yards of material would be generated and must be disposed. Initially, all material is assumed to be disposed in the mined area as backstack. The backstack of the highwall begins at a point measured from the outer edge of area mined offset by a distance necessary for maintaining a berm, sediment control and travelway. The slope of the backstack regrade is dictated by the strength of the material and associated factor of safety. The steepest backstack is generally a 2(H) horizontal to 1(V) vertical slope. Utilizing this rationale, the volume of material placed in the backstack would be approximately 44.7 million cubic yards. Based on the applicant's alternative analysis, the material placed in the mined area has been maximized. The remaining volume of "excess" spoil, which must be disposed, is nearly 91.1 million cubic yards. The total valley fill storage volume for all fills is approximately 53.8 million cubic yards as provided on **Table C** of this public notice. The remaining "excess" spoil would be disposed in the adjacent Valley Fill No. 2 permit as provided on **Table C** of this public notice. The mining plan would be accomplished in six phases over a ten year period.

According to the applicant, the purpose of the project is to construct valley fills to dispose of excess overburden spoil generated by surface mining operations into waters of the United States in order to achieve optimal recovery of available coal reserves within the project area and to provide the mandatory sediment control and access.

Plans for the proposed valley fills and associated sediment ponds are attached to this public notice.

MITIGATION PLAN: The applicant has submitted a compensatory mitigation plan (CMP) to compensate for permanent and temporary impacts to waters of the U.S. regulated by the Department of the Army, Corps of Engineers. To compensate for stream impacts, the applicant conceptually proposes to mitigate on-site through in-kind establishment and restoration of aquatic resources. Approximately 71,875 linear feet of stream channel would be established in the existing sediment ditches. Of this established channel, approximately 35,775 linear feet would consist of intermittent channel and 36,100 linear feet would consist of ephemeral channel. The applicant proposes to use the excess mitigation credits for future compensatory mitigation projects. The mitigation work for this project would be accomplished in three phases as discussed below.

Phase I – Stream Channel Creation/Restoration

The first phase of natural stream channel creation would begin immediately following approval of the WVDEP to begin the mitigation project, or upon receipt of a Phase II release of the permit area, whichever occurs first. Stream channels would be created to conditions as similar to natural stream channels using Rosgen natural stream techniques.

The stream channel would be constructed in two parts, which would consist of a primary and a secondary channel. The existing sediment ditches would be utilized as the secondary stream channel and a primary channel would be excavated within the secondary channel.

In order to generate a volume for stream bank depths of the primary channel, the primary channels are designed to carry the flow levels of a 2-year, 24-hour precipitation event. The secondary channel would be constructed for a 25-year 24-hour precipitation event.

Tables C and D of this public notice summarize the dimensions for the stream channels to be constructed in the Toler Hollow, Josh Fork, Foundation Fork Branch, Mill Branch, Road Branch and Toller Hollow drainage areas.

Phase II – Reestablishment of vegetation

Reestablishment of vegetation on the riparian areas and vegetation of non-riparian areas would generally comply with the guidelines and recommendations outlined in the NRCS CPS Code 342 for the “Establishment of Vegetation.” Before hydroseeding, the seedbed would be made smooth and firm using tracked earthmoving equipment. Seeds of one of the species or mixture of species and a nurse crop would be applied uniformly. Species composition, density and location within riparian areas would be based upon the guidance provided by the NRCS.

Phase III - Determination of vegetation survival and proper stream flow.

Phase III would involve site visits to ensure the survivability and density of vegetation growth. Phase III would extend for a period of 5 years, or until permit release by the WVDEP and the Army Corps of Engineers. Replanting would occur if greater than 20 percent of plants has not survived. The site would be inspected for signs of surface erosion, vegetative failure, and stream channel failure. A corrective action plan would be implemented as needed.

Additionally, the applicant proposes to perform stream channel restoration in the temporarily disturbed segments affected by sediment pond and access haul road construction upon reclamation of the site. Rosgen natural stream techniques would be used in the design of the restoration sites. A 50-foot vegetated riparian zone would be established along the restoration sites.

WATER QUALITY CERTIFICATION: A Section 401 Water Quality Certification is required for this project. It is the applicant's responsibility to obtain certification from the West Virginia Department of Environmental Protection.

HISTORIC AND CULTURAL RESOURCES: The National Register of Historic Places (NRHP) has been consulted and it has been determined there are no properties currently listed on the register that are in the area affected by the project. A copy of this public notice will be sent to the State Historic Preservation Office for their review. Comments concerning archeological sensitivity of a project area should be based upon collected data.

ENDANGERED/THREATENED SPECIES REVIEW: Two federally listed endangered species, the Indiana bat (*Myotis sodalis*) and Virginia big-eared bat (*Corynorhinus townsendii virginianus*) may occur within the project area. Twelve mist net sites were selected and surveyed between June 20-28, 2004. A total of 143 bats of five species were captured during the 48 net nights. Mist netting activities at MS-10 yielded the most bats, with 29 bats representing 3 species. Big brown bats (*Eptesicus fuscus*) and eastern small-footed bats (*Myotis leibii*) dominated the catch. The big brown bat was the most frequently captured bat, representing 46.2 percent of the total bats captured. The eastern small-footed bat was the second most common bat captured, representing 30.8 percent of the total. The northern bat (*Myotis septentrionalis*) was the next most common bat followed by the eastern red bat (*Lasiurus borealis*) and the eastern pipistrelle (*Pipistrellus subflavus*). No Indiana bats were captured during this survey. Details regarding the captures can be found in the applicant's mist net survey titled "A Summer Survey for the Federally Endangered Indiana Bat (*Myotis sodalis*) for a Proposed Surface Mine and Hollow Fill near Coal Mountain, Wyoming County, West Virginia (Permit No. S-4026-96 and S-4021-96)."

The proposed mine operation site was also surveyed for open, abandoned mine portals. Portals were found and were evaluated for characteristics that may indicate potential use by bats. The USFWS's Criteria for Determining Whether Abandoned Coal Mines Provide Potentially Suitable Bat Habitat was utilized to help in the initial portal evaluation.

Based on the initial survey, 11 portals appeared to have suitable bat habitat characteristics. A Phase I Portal Survey was prepared for each portal by Alliance Consulting, Inc. The Phase I Portal Survey provides the necessary information to determine if bat surveys should be conducted at the mine portals. It was determined the portals may provide suitable habitat for endangered bats and, therefore, mist net surveys or trapping are scheduled to be conducted for both endangered bat species during the accepted survey period (September 15 and October 31, 2004).

At this time, a determination of effect cannot be made based on the fact numerous portals were identified as having suitable bat habitat characteristics and may provide suitable habitat for endangered bats. Therefore, mist net surveys or trapping are scheduled to be conducted for both endangered bat species during the accepted survey period. Upon receipt of the survey, a determination of effect will be made by the Huntington District concerning compliance with Section 7(c) of the Endangered Species Act of 1972 (as amended).

This public notice serves as a request to the U.S. Fish and Wildlife Service for any additional information they may have on whether any listed or proposed to be listed endangered or threatened species may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1972 (as amended).

PUBLIC INTEREST REVIEW AND COMMENT: Any person who has an interest that may be adversely affected by the issuance of a permit may request a public hearing. The request must be submitted in writing to the District Engineer on or before the expiration date of this notice and must clearly set forth the interest which may be adversely affected and the manner in which the interest may be adversely affected by the activity.

This application will be reviewed in accordance with 33 CFR 320-331, the Regulatory Program of the U. S. Army Corps of Engineers (USACE), and other pertinent laws, regulations, and executive orders. Our evaluation will also follow the guidelines published by the U. S. Environmental Protection Agency pursuant to Section 404(b)(1) of the CWA. Interested parties are invited to state any objections they may have to the proposed work. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit that reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors that may be relevant to the proposal will be considered including the cumulative effects thereof; of those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people. Written statements on these factors received in this office on or before the expiration date of this public notice will become a part of the record and will be considered in the final determination. A permit will be granted unless its issuance is found to be contrary to the public interest.

SOLICITATION OF COMMENTS: The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. For accuracy and completeness of the administrative record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

CLOSE OF COMMENT PERIOD: All comments pertaining to this Public Notice must reach this office on or before the close of the comment period listed on page one of this Public Notice. If no comments are received by that date, it will be considered that there are no objections. Comments and requests for additional information should be submitted to Mrs. Teresa Spagna, Project Manager, South Regulatory Section, CELRH-OR-FS, U. S. Army Corps of Engineers Huntington District, 502 Eighth Street, Huntington, West Virginia 25701-2070. Please note names and addresses of those who submit comments in response to this public notice may be made publicly available. Thank you for your interest in our nation's water resources.

If you have any questions concerning this public notice, please call Mrs. Teresa Spagna of the South Regulatory Section at 304-399-5710.


Ginger Mullins, Chief
Regulatory Branch

(W)

Table B
Laurel Run Mining Company
Coal Mountain No. 1 Surface Mine and Coal Mountain Valley Fill 9
Affected Watershed Acreages for Proposed Valley Fills

PROPOSED VALLEY FILL	WATERSHED ACREAGE (ACRES)
Valley Fill 1	123.46 acres
Valley Fill 2	230.2 acres
Valley Fill 3	140.63 acres
Valley Fill 4	75.88 acres
Valley Fill 5	59.84 acres
Valley Fill 6	51.68 acres
Valley Fill 7	72.05 acres
Valley Fill 8	40.83 acres
Valley Fill 9	50.98 acres

Table C
Laurel Run Mining Company
Coal Mountain No. 1 Surface Mine and Coal Mountain Valley Fill 9
Total Fill Volume/Valley Fill Disposal Site

DISPOSAL SITE	FILL VOLUME CUBIC YARDS
Valley Fill 1	13,634,851
Valley Fill 2	37,942,557
Valley Fill 3	14,066,190
Valley Fill 4	7,114,748
Valley Fill 5	5,150,390
Valley Fill 6	3,357,667
Valley Fill 7	5,387,499
Valley Fill 8	2,131,668
Valley Fill 9	2,923,396

Table D. Stream Width and Depth of constructed primary channels of the proposed mitigation areas.

EPHEMERAL CHANNEL MITIGATION AREAS

DITCH / CHANNEL ID NO.	TOTAL DITCH LENGTH, FEET	CHANNEL TOP WIDTH (FEET)	CHANNEL DEPTH (FEET)	CHANNEL BOTTOM WIDTH (FEET)	ACRES CREATED
1	750	7.11	1.7	2	0.12
2	700	7.11	1.7	2	0.11
3	900	9.15	2.4	2	0.19
4	750	9.15	2.4	2	0.16
5	825	9.15	2.4	2	0.17
6	750	9.15	2.4	2	0.16
7	550	7.11	1.7	2	0.09
8	700	7.3	1.8	2	0.12
9	600	7.3	1.8	2	0.10
10	700	7.11	1.7	2	0.11
11	600	9.15	2.4	2	0.13
12	500	9.15	2.4	2	0.11
13	800	9.15	2.4	2	0.17
14	725	7.3	1.8	2	0.12
15	1800	9.15	2.4	2	0.38
16	1650	9.15	2.4	2	0.35
17	550	11.55	2.9	2	0.15
18	650	7.11	1.7	2	0.11
19	825	7.11	1.7	2	0.13
20	350	11.55	2.9	2	0.09
21	500	9.15	2.4	2	0.11
22	500	9.15	2.4	2	0.11
23	450	7.3	1.8	2	0.08
24	900	7.3	1.8	2	0.15
25	400	9.15	2.4	2	0.08
26	650	9.15	2.4	2	0.14
27	500	11.55	2.9	2	0.13
28	450	9.15	2.4	2	0.09
29	375	9.15	2.4	2	0.08
30	375	9.15	2.4	2	0.08
31	600	9.15	2.4	2	0.13
32	575	9.15	2.4	2	0.12
33	400	7.11	1.7	2	0.07
34	725	7.11	1.7	2	0.12
35	425	9.15	2.4	2	0.09
36	900	7.11	1.7	2	0.15
37	750	9.15	2.4	2	0.16
38	725	7.3	1.8	2	0.12
39	650	9.15	2.4	2	0.14
40	400	9.15	2.4	2	0.08
41	700	9.15	2.4	2	0.15
42	300	7.3	1.8	2	0.05
43	1475	9.15	2.4	2	0.31
44	575	7.3	1.8	2	0.10
54	875	7.11	1.7	2	0.14
55	375	7.3	1.8	2	0.06
56	450	7.3	1.8	2	0.08
57	250	9.15	2.4	2	0.05
58	425	7.11	1.7	2	0.07
59	1250	9.15	2.4	2	0.26
60	450	9.15	2.4	2	0.09
61	450	11.55	2.9	2	0.12
62	750	9.15	2.4	2	0.16
63	400	9.15	2.4	2	0.08
64	450	9.15	2.4	2	0.09
TOTAL LENGTH	36100			TOTAL ACRES	7.09

Table D- (Continued)

INTERMITTENT CHANNEL MITIGATION AREAS

DITCH / CHANNEL ID NO.	TOTAL DITCH LENGTH, FT	CHANNEL TOP WIDTH (FEET)	CHANNEL DEPTH (FEET)	CHANNEL BOTTOM WIDTH (FEET)	ACRES CREATED
65	400	9.15	2.4	2	0.08
66	975	9.15	2.4	2	0.20
67	300	9.15	2.4	2	0.06
68	425	9.15	2.4	2	0.09
69	525	9.15	2.4	2	0.11
70	775	7.11	1.7	2	0.13
71	800	9.15	2.4	2	0.17
72	650	7.11	1.7	2	0.11
73	700	7.11	1.7	2	0.11
74	1650	7.3	1.8	2	0.28
75	700	7.3	1.8	2	0.12
76	1000	7.3	1.8	2	0.17
77	325	7.11	1.7	2	0.05
78	375	7.3	1.8	2	0.06
79	250	7.3	1.8	2	0.04
80	550	7.11	1.7	2	0.09
81	500	7.3	1.8	2	0.08
82	1000	9.15	2.4	2	0.21
83	1500	9.15	2.4	2	0.32
84	1700	9.15	2.4	2	0.36
85	750	9.15	2.4	2	0.16
86	1750	9.15	2.4	2	0.37
87	575	7.11	1.7	2	0.09
88	875	9.15	2.4	2	0.18
89	925	9.15	2.4	2	0.19
90	1225	9.15	2.4	2	0.26
91	2300	9.15	2.4	2	0.48
92	750	9.15	2.4	2	0.16
93	300	9.15	2.4	2	0.06
94	600	9.15	2.4	2	0.13
95	1425	9.15	2.4	2	0.30
96	750	7.3	1.8	2	0.13
97	925	9.15	2.4	2	0.19
98	500	9.15	2.4	2	0.11
99	375	9.15	2.4	2	0.08
100	750	9.15	2.4	2	0.16
101	1450	9.15	2.4	2	0.30
102	1150	9.15	2.4	2	0.24
103	1250	9.15	2.4	2	0.26
104	550	7.3	1.8	2	0.09
105	1100	9.15	2.4	2	0.23
106	400	11.55	2.9	2	0.11
TOTAL LENGTH=	35775			TOTAL ACRES	7.12

Table E. Stream Width and Depth of the existing secondary channels (Sediment Ditch), based upon a 25-year 24-hour storm.

EPHEMERAL CHANNEL MITIGATION AREAS								
DITCH / CHANNEL ID NO.	TOTAL DITCH LENGTH, FT	BACK STACK DRAINAGE AREA, AC	DITCH OPTION NUMBER	DITCH BOTTOM WIDTH	DITCH TOP WIDTH	DITCH MINIMUM DEPTH	"FINAL CELL" DESIGN OPTION	ACRES CREATE D
1	750	3.39	3	11	24.21	3.3	A	0.42
2	700	2.93	3	11	24.21	3.3	A	0.39
3	900	3.44	2	13	31.92	4.73	A	0.66
4	750	5.85	2	13	31.92	4.73	B	0.55
5	825	3.56	2	13	31.92	4.73	A	0.60
6	750	7.23	2	13	31.92	4.73	B	0.55
7	550	2.3	3	11	24.21	3.3	A	0.31
8	700	1.15	4	10	21.85	2.96	A	0.35
9	600	0.69	4	10	21.85	2.96	A	0.30
10	700	2.93	3	11	24.21	3.3	A	0.39
11	600	2.41	2	13	31.92	4.73	A	0.44
12	500	2.12	2	13	31.92	4.73	A	0.37
13	800	6.66	2	13	31.92	4.73	B	0.59
14	725	1.89	4	10	21.85	2.96	A	0.36
15	1800	11.99	2	13	31.92	4.73	C	1.32
16	1650	8.61	2	13	31.92	4.73	B	1.21
17	550	10.16	1	25	48.96	5.99	C	0.62
18	650	1.72	3	11	24.21	3.3	A	0.36
19	825	3.27	3	11	24.21	3.3	A	0.46
20	350	5.51	1	25	48.96	5.99	F	0.39
21	500	3.27	2	13	31.92	4.73	A	0.37
22	500	2.87	2	13	31.92	4.73	A	0.37
23	450	0.52	4	10	21.85	2.96	F	0.23
24	900	2.87	4	10	21.85	2.96	A	0.45
25	400	2.07	2	13	31.92	4.73	F	0.29
26	650	5.05	2	13	31.92	4.73	B	0.48
27	500	10.39	1	25	48.96	5.99	C	0.56
28	450	3.56	2	13	31.92	4.73	F	0.33
29	375	3.67	2	13	31.92	4.73	F	0.27
30	375	2.7	2	13	31.92	4.73	F	0.27
31	600	4.88	2	13	31.92	4.73	A	0.44
32	575	3.85	2	13	31.92	4.73	A	0.42
33	400	1.43	3	11	24.21	3.3	F	0.22
34	725	2.93	3	11	24.21	3.3	A	0.40
35	425	2.3	2	13	31.92	4.73	F	0.31
36	900	2.87	3	11	24.21	3.3	A	0.50
37	750	3.04	2	13	31.92	4.73	A	0.55
38	725	2.41	4	10	21.85	2.96	A	0.36
39	650	3.27	2	13	31.92	4.73	A	0.48
40	400	3.44	2	13	31.92	4.73	F	0.29
41	700	3.56	2	13	31.92	4.73	A	0.51
42	300	0.8	4	10	21.85	2.96	F	0.15
43	1475	9.01	2	13	31.92	4.73	B	1.08
44	575	1.15	4	10	21.85	2.96	A	0.29
54	875	3.27	3	11	24.21	3.3	A	0.49
55	375	0.52	4	10	21.85	2.96	F	0.19
56	450	0.98	4	10	21.85	2.96	F	0.23

57	250	1.09	2	13	31.92	4.73	F	0.18
59	1250	6.6	2	13	31.92	4.73	B	0.92
61	450	4.65	1	25	48.96	5.99	F	0.51
63	400	2.7	2	13	31.92	4.73	F	0.29

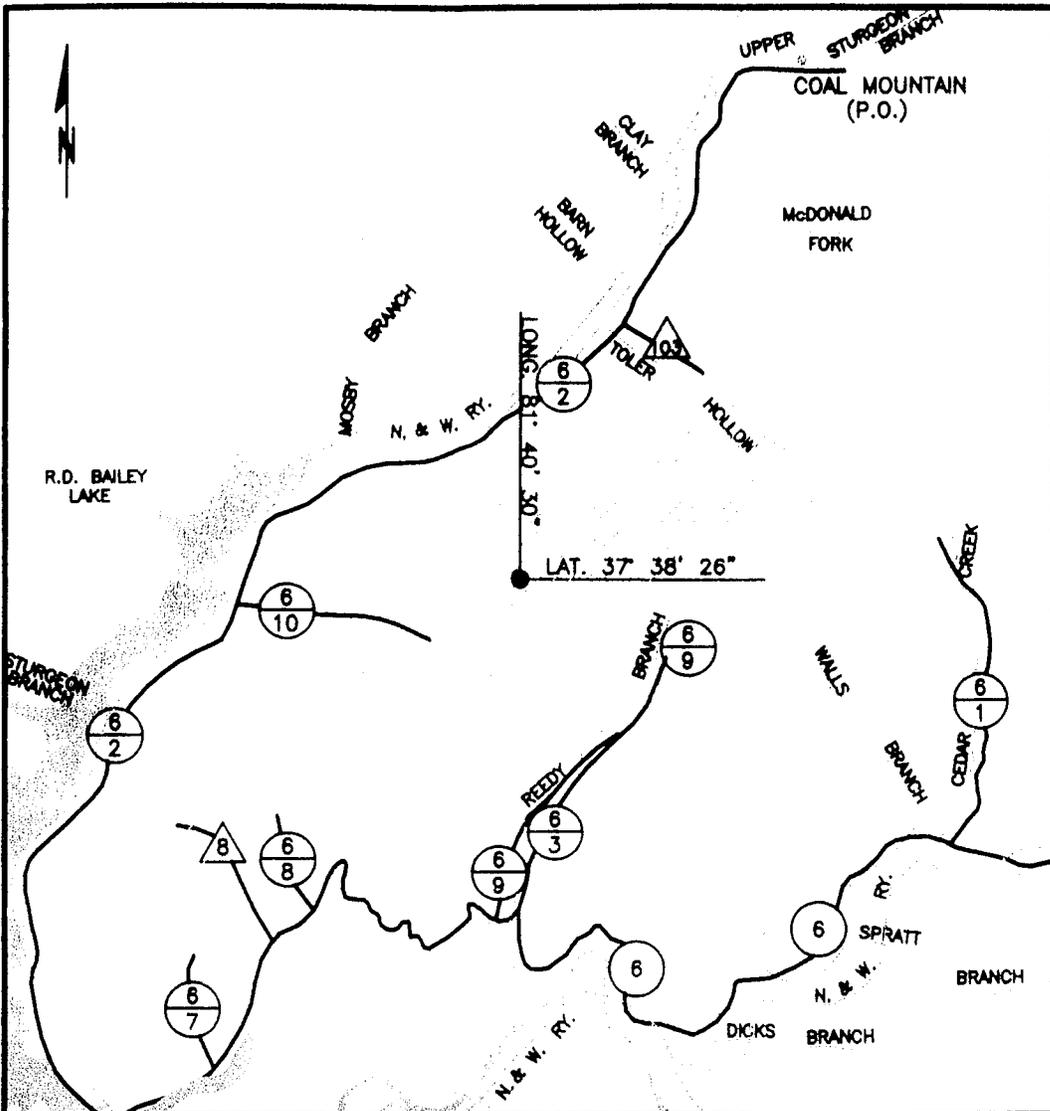
Table E-(Continued)

INTERMITTENT CHANNEL MITIGATION AREAS

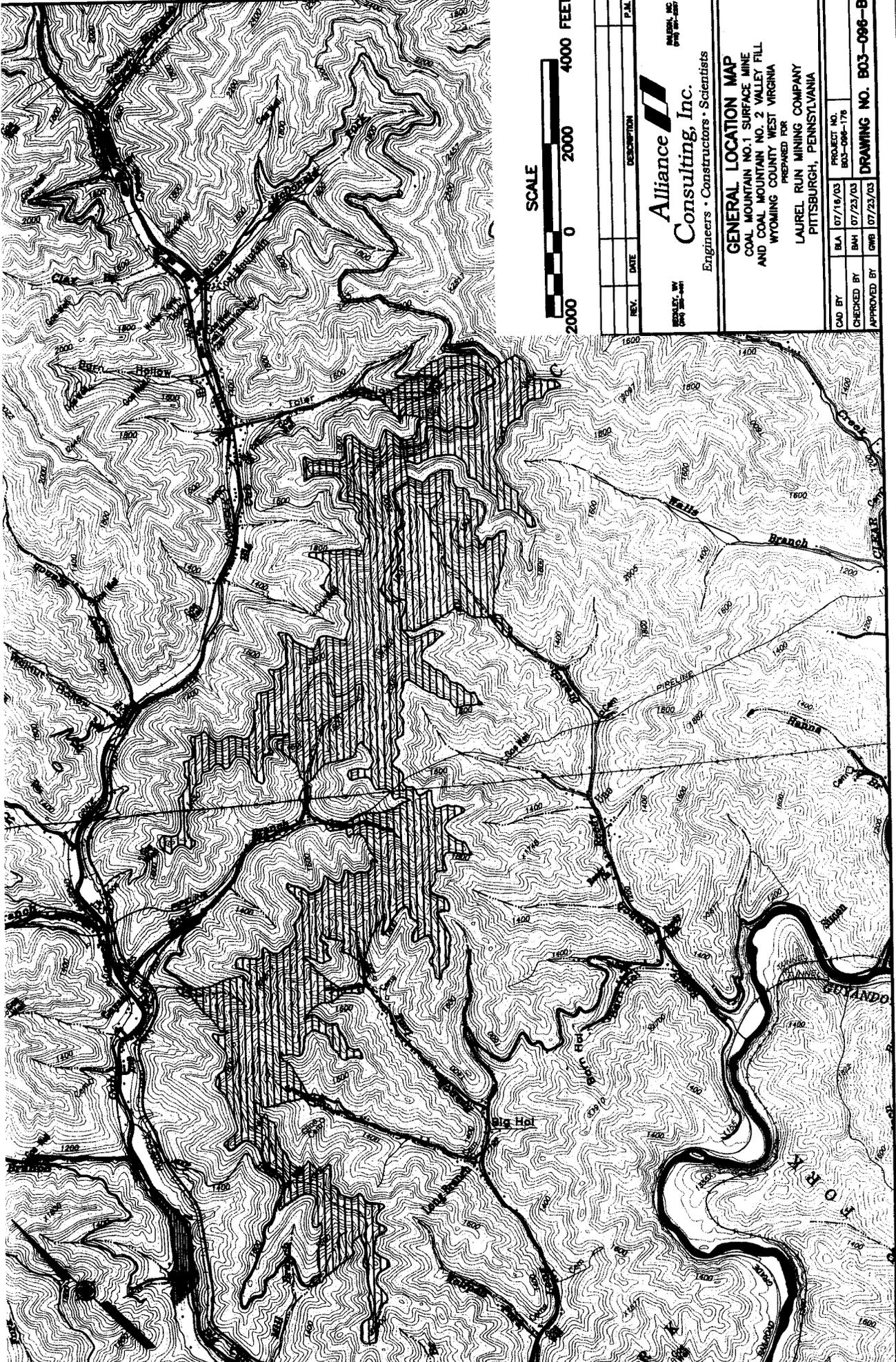
DITCH / CHANNEL ID NO.	TOTAL DITCH LENGTH, FT	BACK STACK DRAINAGE AREA, AC	DITCH OPTION NUMBER	DITCH BOTTO M WIDTH	DITCH TOP WIDTH	DITCH MINIMUM DEPTH	"FINAL CELL" DESIG N OPTIO N	ACRES CREATED
65	400	2.87	2	13	31.92	4.73	F	0.29
66	975	6.66	2	13	31.92	4.73	B	0.71
67	300	2.07	2	13	31.92	4.73	F	0.22
68	425	2.7	2	13	31.92	4.73	F	0.31
69	525	4.25	2	13	31.92	4.73	A	0.38
70	775	3.1	3	11	24.21	3.3	A	0.43
71	800	4.88	2	13	31.92	4.73	A	0.59
72	650	2.12	3	11	24.21	3.3	A	0.36
73	700	2.75	3	11	24.21	3.3	A	0.39
74	1650	5.17	4	10	21.85	2.96	B	0.83
75	700	2.3	4	10	21.85	2.96	A	0.35
76	1000	3.1	4	10	21.85	2.96	A	0.50
77	325	0.92	3	11	24.21	3.3	F	0.18
78	375	0.92	4	10	21.85	2.96	F	0.19
79	250	0.8	4	10	21.85	2.96	F	0.13
80	550	1.95	3	11	24.21	3.3	A	0.31
81	500	0.69	4	10	21.85	2.96	A	0.25
82	1000	4.99	2	13	31.92	4.73	A	0.73
83	1500	8.44	2	13	31.92	4.73	B	1.10
84	1700	9.24	2	13	31.92	4.73	B	1.25
85	750	3.67	2	13	31.92	4.73	A	0.55
86	1750	10.39	2	13	31.92	4.73	C	1.28
87	575	1.95	3	11	24.21	3.3	A	0.32
88	875	5.68	2	13	31.92	4.73	B	0.64
89	925	6.14	2	13	31.92	4.73	B	0.68
90	1225	6.6	2	13	31.92	4.73	B	0.90
91	2300	15.73	2	13	31.92	4.73	D	1.69
92	750	4.02	2	13	31.92	4.73	A	0.55
93	300	1.78	2	13	31.92	4.73	F	0.22
94	600	3.9	2	13	31.92	4.73	A	0.44
95	1425	7.75	2	13	31.92	4.73	B	1.04
96	750	1.43	4	10	21.85	2.96	A	0.38
97	925	4.71	2	13	31.92	4.73	A	0.68
98	500	1.89	2	13	31.92	4.73	A	0.37
99	375	2.41	2	13	31.92	4.73	F	0.27
100	750	5.05	2	13	31.92	4.73	B	0.55
101	1450	13.14	2	13	31.92	4.73	C	1.06
102	1150	5.62	2	13	31.92	4.73	B	0.84
103	1250	5.68	2	13	31.92	4.73	B	0.92
104	550	0.92	4	10	21.85	2.96	A	0.28
105	1100	7	2	13	31.92	4.73	B	0.81
106	400	1.95	1	25	48.96	5.99	F	0.45
TOTAL LENGTH=	35775			AVERAGE WIDTH	29.31		TOTAL ACRES	24.40

Table A

Proposed Mining Activity	Stream Location	Permanent Impacts (linear feet/acres)		Temporary Impacts (linear feet/acres)	
		Intermittent	Ephemeral	Intermittent	Ephemeral
Valley Fill 1	U/T Big Cub Creek (Toler Hollow)	3169/0.301	250/0.012		
Sediment Pond 1	U/T Big Cub Creek (Toler Hollow)			400/0.058	
Mined Through Stream Channel	U/T Big Cub Creek (Toler Hollow)				50/0.005
Valley Fill 2	Reedy Branch	3930/0.224	445/0.018		
Sediment Pond 2	Reedy Branch			1150/0.096	
Valley Fill 3	Road Branch	2815/0.124	2605/0.107		
Sediment Pond 3	Road Branch			450/0.014	
Valley Fill 4	Road Branch	1600/0.084	1100/0.056		
Sediment Pond 4	Road Branch			450/0.029	
Valley Fill 5	Fountain Fork	990/0.049	1310/0.082		
Sediment Pond 5	Fountain Fork				400/0.030
Valley Fill 6	Fountain Fork	690/0.050	910/0.040		
Sediment Pond 6	Fountain Fork				450/0.031
Valley Fill 7	Josh Fork	260/0.012	2090/0.085		
Sediment Pond 7	Josh Fork			450/0.022	
Valley Fill 8	Mill Branch	1500/0.063	200/0.0075		
Sediment Pond 8	Mill Branch			300/0.015	
Access Road Construction	Mill Branch			30/0.001	
Valley Fill 9	Unnamed Tributary of Big Cub Creek	1280/0.091	737/0.050		
Sediment Pond 9	Unnamed Tributary of Big Cub Creek			400/0.038	
		16,234'/0.998 acre	9,647'/0.46 acre	3,660'/0.273 acre	900'/0.066 acre



LOCATION MAP - PERMIT NO. S-4020-96
 WV DEPT. OF HIGHWAYS
 CLEAR FORK DISTRICT OF WYOMING COUNTY, WV
 OCEANA (NO. 518), MALLORY (NO. 454),
 BAILEYSVILLE (NO. 228), AND GILBERT (NO. 363)
 QUADRANGLES SCALE : 1" = 1 MILE



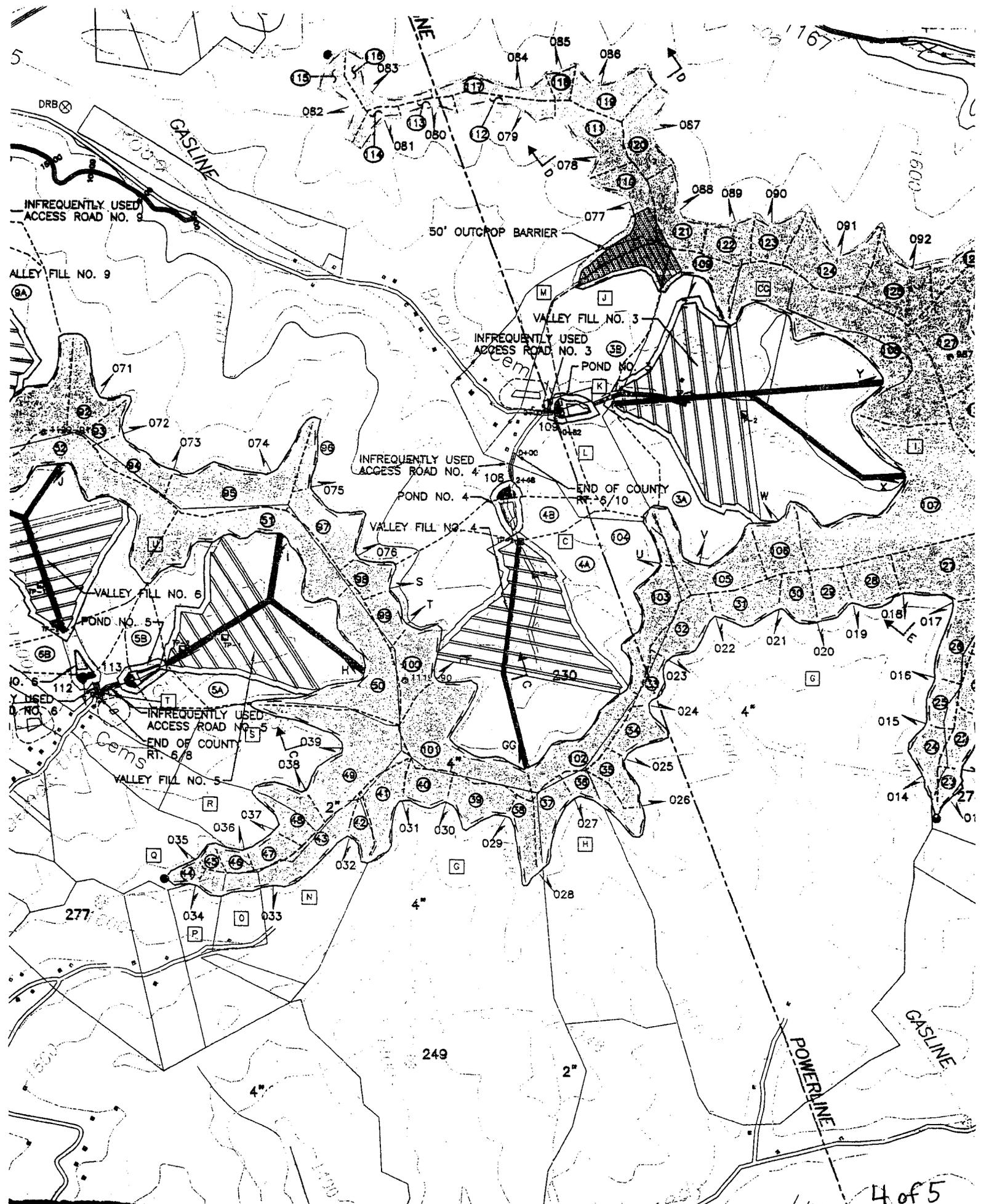
Alliance Consulting, Inc.
 Engineers • Constructors • Scientists

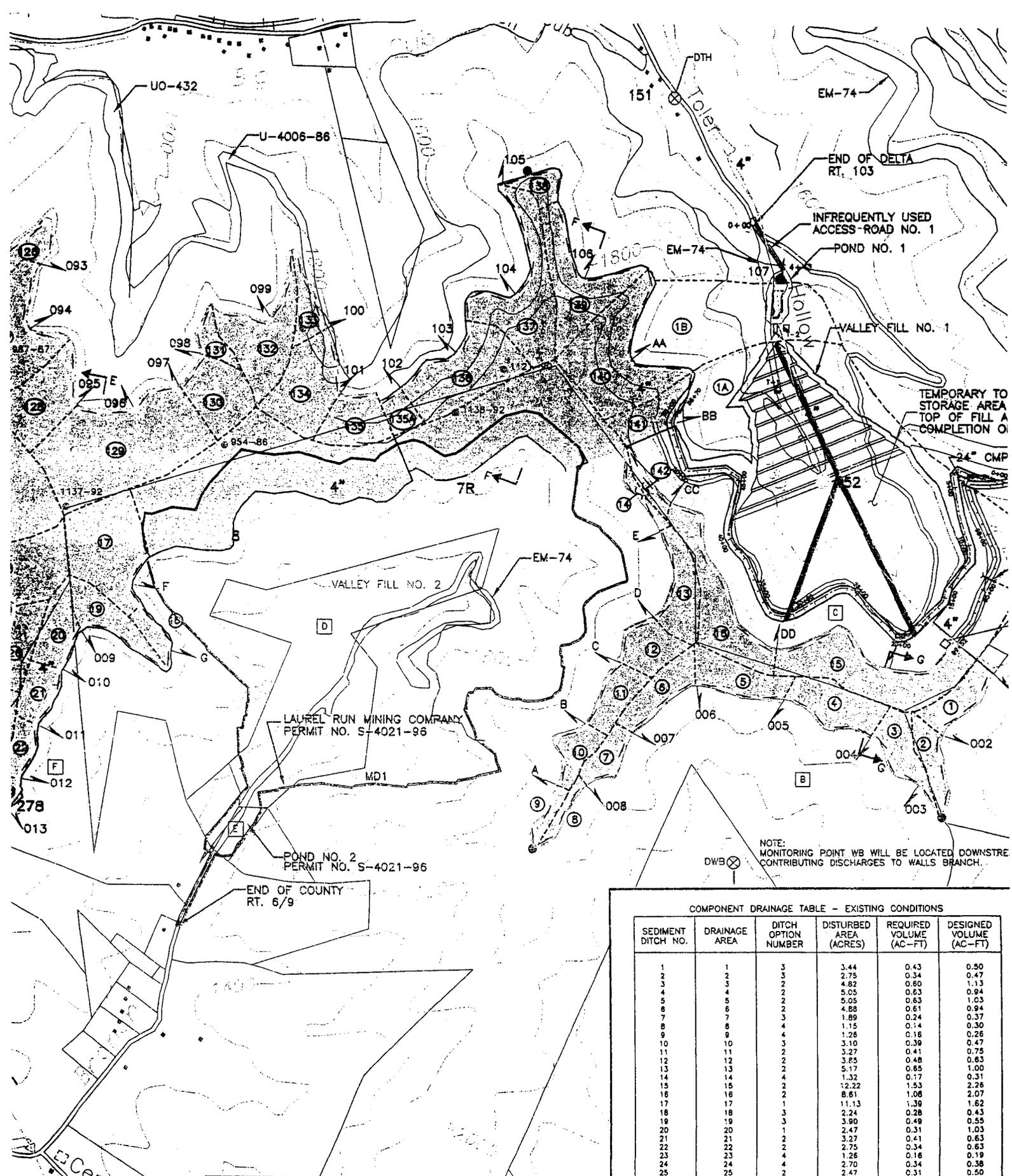
GENERAL LOCATION MAP
 COAL MOUNTAIN NO. 1 SURFACE MINE
 AND COAL MOUNTAIN NO. 2 VALLEY FILL
 WYOMING COUNTY WEST VIRGINIA
 PREPARED FOR
LAUREL RUN MINING COMPANY
 PITTSBURGH, PENNSYLVANIA

REV.	DATE	DESCRIPTION	P.M.

CAD BY	BLA	07/18/03	PROJECT NO.	803-096-176
CHECKED BY	BAH	07/23/03	DRAWING NO. 803-096-81	
APPROVED BY	CMR	07/23/03		

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COMPONENT DRAINAGE TABLE - EXISTING CONDITIONS

SEDIMENT DITCH NO.	DRAINAGE AREA	DITCH OPTION NUMBER	DISTURBED AREA (ACRES)	REQUIRED VOLUME (AC-FT)	DESIGNED VOLUME (AC-FT)
1	1	3	3.44	0.43	0.50
2	2	3	2.75	0.34	0.47
3	3	2	4.82	0.80	1.13
4	4	2	5.05	0.63	0.94
5	5	2	5.05	0.63	1.03
6	6	2	4.88	0.61	0.94
7	7	3	1.89	0.24	0.37
8	8	4	1.15	0.14	0.30
9	9	4	1.28	0.16	0.25
10	10	3	3.10	0.39	0.47
11	11	2	3.27	0.41	0.75
12	12	2	3.85	0.48	0.63
13	13	2	5.17	0.65	1.00
14	14	4	1.32	0.17	0.31
15	15	2	2.22	0.34	2.26
16	16	2	8.61	1.08	2.07
17	17	1	11.13	1.36	1.62
18	18	3	2.24	0.28	0.43
19	19	3	3.90	0.49	0.55
20	20	1	2.47	0.31	1.03
21	21	2	3.27	0.41	0.63
22	22	2	2.75	0.34	0.63
23	23	4	1.28	0.16	0.19
24	24	4	2.70	0.34	0.38
25	25	2	2.47	0.31	0.50
26	26	2	4.65	0.58	0.81
27	27	1	10.04	1.26	1.47
28	28	2	3.10	0.39	0.47
29	29				
30	30				
31	31				
32	32				

PROPERTY OWNERS		
TRACT	SURFACE	MINERAL
A	LAUREL RUN MINING COMPANY	ALL MINERAL IS OWNED BY GEORGIA PACIFIC CORP
B	ETTINGER, ET. AL. (FEE)	
C		