



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF MINING AND RECLAMATION
108 S. Claude A. Lord Blvd., Room 2A
Pottsville, PA 17901-3695
717/621-3118

March 15, 1989

CERTIFIED MAIL #P737064721

The General Crushed Stone Company
P.O. Box 231
1609 Sullivan Trail
Easton, PA 18042

RE: MDP #7974SML(C)
Rock Hill Quarry Operation
Municipality of East Rockhill Township
County of Bucks

Gentlemen:

Please find enclosed the referenced permit.

Please complete the enclosed Acceptance Form - Special Conditions document and return.

This action of the Department may be appealable to the Environmental Hearing Board, 101 South Second Street, Suites Three - Five, Harrisburg, PA 17101, (717-787-3483) by any aggrieved person pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514; and the Administrative Agency Law, 2 Pa. C.S., Chapter 5A. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the regulations governing practice and procedure before the Board may be obtained from the Board. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

If you have any questions, please contact Gerald W. Wascavage, Chief, Technical Services, Pottsville District Office.

Very truly yours,


Roger J. Romberger
District Mining Manager

RJH:GW:TDO:djp
Enclosures

cc: Jonas Carpenter, MCI
John Reedy, Consultant
Municipality of East Rockhill Township
County of Bucks
File
CPT-75



Department of Environmental Resources

MINE DRAINAGE PERMIT

No. 7974SM1(C)

A. Permittee: (Name and Address)
The General Crushed Stone Company
P.O. Box 231
Easton, PA 18042

B. Project Location
Municipality East Rockhill Twp.
County Bucks

C. Type of Mine
Diabase Quarry

D. Name of Mine
Rock Hill Quarry

E. This Permit approves the plans for construction of Industrial Wastes Treatment Facilities for the operation of a Surface Mine whose maximum surface area to be affected shall not exceed 103.2 acres with drainage to Unnamed Run to Tohickon Creek to Delaware River.

NOTE: This permit hereby corrected to approve NPDES #PA0013684 renewal application dated January 11, 1988 and to establish Special Permit Condition itemized in F3.

F. You are hereby authorized to construct, operate or discharge, as indicated above, provided that you comply with the following:

- All representations regarding operation, construction, maintenance and closing procedures as well as all other matters set forth in your application and its supporting documents (Application No. 7974SM1 Dated February 1, 1974 and ~~Amendments Dated~~ Correction application dated February 16, 1979 and February 15, 1980; NPDES renewal application dated January 11, 1988.

Such application, its supporting documents and amendments are hereby made a part of this permit.

- Title 25, Chapter 77, Subchapter D, Rules & Regulations, Department of Environmental Resources, for coal mines.
- Title 25, Chapter 77, Subchapter E, Rules & Regulations, Department of Environmental Resources, for non-coal mines.

2. Conditions numbered _____

of the _____ M.D. Standard

Conditions dated 3/31/67, which conditions are attached hereto and are made a part of this permit.

3. Special Condition(s) numbered 2 - 3, 10 - 11, 14 - 16

which are attached hereto and are made a part of this permit.

G. The authority granted by this permit is subject to the following further qualifications:

- If there is a conflict between the application or its supporting documents and amendments and the standard or special conditions, the standard or special conditions shall apply.
- Failure to comply with the rules and regulations of the Department of Environmental Resources or the terms or conditions of this permit shall void the authority given to the permittee by the issuance of the permit.
- This permit is issued pursuant to the clean streams law, the act of June 22, 1937, P. L. 1987, as amended. Issuance of this permit shall not relieve the permittee of any responsibility under any other law.

Permit Issued

Dated March 15, 1989

By Roger J. Hornberger *Guw*
Department of Environmental Resources
Roger J. Hornberger
District Mining Manager

SPECIAL CONDITIONS FOR MINE DRAINAGE PERMITS

1. Prior to activation of the mining operation, the applicant shall construct treatment facilities and settling basins in accordance with Chapter 102, Erosion Control, and the specifications contained in the mine drainage application. All facilities shall be inspected and approved by the District Surface Mine Conservation Inspector prior to the activation of mining.
- ✓ 2. If in the course of mining, the District Surface Mine Conservation Inspector deems the established blasting practices are insufficient to insure adequate protection regarding health and safety procedures, existing adjacent land use, or adjacent stream use, blasting shall cease until a corrected blasting plan is approved by the Pottsville District Office.
- ✓ 3. If during the course of mining the permittee pollutes, degrades or in any manner destroys the water quality in Unnamed Tributary of Tohicken Creek, mining shall cease until the pollution caused by the permittee has been abated. Mining shall resume only when the District Surface Mine Conservation Inspector and the Pottsville District Office is satisfied that the permittee has successfully and permanently abated the source of pollution.
4. Should field inspection show, after operation has started, that geologic conditions are such as to require a change in the operator's plan of mining in order to prevent pollution, the permittee shall change the plan as required by the Pottsville District Office.
5. No mine drainage shall be discharged by gravity or pumping through existing deep mine workings.
6. A solid barrier of undisturbed earth and coal, one hundred twenty-five (125) feet in radius, shall be maintained around all gas wells.
7. Prior to the initiation of any quarry dewatering operations, the permittee shall apply for an amendment to the Mine Drainage Permit detailing the dewatering system. A discharge will not be allowed until such time as an amended permit is issued.
8. Prior to the construction of any mineral wet processing facility, the permittee shall apply for an amendment to the Mine Drainage Permit. Construction shall not commence until such time as an amended permit is issued.
9. This permit is approved for the following method of reclamation:
 - a. _____ approximate original contour
 - b. _____ terrace
 - c. _____ water impoundment
 - d. _____ other
- ✓ 10. The permittee shall identify this operation during its lifetime by constructing and maintaining a weather resistant sign with a minimum size of 2' x 3' to be located immediately adjacent to the intersection of closest public highway, and the access road to the operation. The sign shall be painted with a light background and, in a contrasting color, the name of the permittee, "Mine Drainage Permit No." and the permit mining number under which the operation is being conducted. The letters and numbers shall have a minimum height of 1 1/2". The sign is to be clearly visible at all times.

- ✓ 11. Discharges of water from areas disturbed by surface mining and reclamation operations must meet all applicable Federal and State Laws and Regulations, and at a minimum, the following numerical effluent limitations:

Effluent Limitations, in Milligrams per liter, mg/l, except for pH

<u>Effluent Characteristics</u>	<u>Maximum Allowable</u>	<u>Average of Daily Values For 30 Day Consecutive Discharge Days</u>
Iron, Total		
Manganese, Total		
Total Suspended Solids	70	35
pH	Between 6.0 and 9.0	

Any overflow from facilities designed, constructed, and operated to treat to the applicable limitations; the precipitation and runoff resulting from a 10 year, 24 hour precipitation event shall not be subject to the limitations of this section.

Where the application of neutralization and sedimentation treatment technology results in an inability to comply with the manganese limitation, the Department may allow the pH level in the final effluent to be exceeded to a small extent in order that the manganese limitation be achieved.

- 12. There shall be no discharge of process generated waste water pollutants.
- 13. The information contained in the Industrial Waste Application (I.W. Modules), which is submitted in support of the mineral preparation facility, is hereby made part of this permit as well as conditions # of the "Standard Conditions Relating to Industrial Waste" (October 1, 1971) which are attached.
- ✓ 14. The only discharge authorized by this permit is that resulting from quarry dewatering activity.
- ✓ 15. The quarry dewatering outfall point at the receiving stream shall be maintained to prevent any "scouring" of the receiving stream channel by either pump volume and/or velocity.
- ✓ 16. Reclamation shall be accomplished as set forth in revised reclamation plan numbered sheets 5 of 6 and 6 of 6 dated January 19, 1975. The information contained on these maps shall replace any conflicting data set forth in the reclamation narrative originally submitted with the application.

IN ORDER FOR YOUR PERMIT TO BE VALID, YOU MUST SIGN AND RETURN THE ENCLOSED ACCEPTANCE FORM TO THE DEPARTMENT OF ENVIRONMENTAL RESOURCES, BUREAU OF MINING AND RECLAMATION, MOTOR LOAN BLDG, ROOM 2-A, 108 S. CLAUDE A. LORD BLVD., POTTSVILLE, PA. 17901.

ACCEPTANCE FORM - SPECIAL CONDITIONS

I (WE) UNDERSTAND AND HEREBY ACCEPT AND AGREE TO ABIDE BY THE SPECIAL ADDED CONDITIONS INCORPORATED INTO AND MADE A PART OF THE PERMIT IDENTIFIED AS FOLLOWS:

APPLICATION - PERMIT NO. 7974SM1(C)

TOWNSHIP East Rockhill

COUNTY Bucks

The General Crushed Stone Company
P. O. Box 231, Sullivan Trail
Easton, PA 18042
(Name of Permittee)

By *[Signature]*
(Signature and Title)

Date March 27, 1989

File
M.C.I. Jonas Carpenter

NOTICE MUST BE
 OBTAINED BY A
 CHECK FOR \$25.00
 GIVEN TO THE ORDER
 OF "COMMONWEALTH
 OF PENNSYLVANIA"

ER-MR-10

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES
 BUREAU OF SURFACE MINE RECLAMATION
 HARRISBURG, PENNSYLVANIA

FOR AGENCY USE ONLY

Application No:
7974SM/C
 Operator No. (New)

Application for Permit
 Approving Discharge of Industrial
 Wastes and Mine Drainage Pursuant
 To "The Clean Streams Law"

AND

Application for Permit
 Approving Mining and Reclamation
 Plan Pursuant to "The Surface Mining
 Conservation and Reclamation Act"

1/14/88 \$250.00 - #283554 FOR SURFACE MINING

(A) Applicant: The General Crushed Stone company (B) Mailing Address: P. O. Box 231
 1609 Sullivan Trail
 Easton, PA 18042

(C) Type Ownership: INDIVIDUAL PARTNERSHIP CORPORATION OTHER
 (D) Status: ORIGINAL APPLICATION AMENDMENT (PA 0013684) NPDES RENEWAL
 (F) Existing Application Number: IP - 198
 (I) Mine Name: Rock Hill
 (M) Date Mine Opened: 1900
 (E) Location: Distance in inches from Lower Right Hand Corner
 USGS QUAD (15' or 7 1/2') North: 5 5/16 West: 6 7/8
 (G) County: Bucks (H) Municipality: E. Rock Hill Twp.
 (J) Type: Pit Quarry Strip Other
 (K) License No.: 3-00733 (L) License Fee: \$50 \$300 \$500

(N) Raw Material(s) Mined: Diabase (O) Yield Tons/Day: 1600 (P) Drainage: Unnamed tributary of
 Tohickon Creek (Q) Tributary To: Tohickon Creek
 (R) Geologic Data: GROUP OR FORMATION None MEMBER None (S) Area Mined Prior to 1-1-72 (Acres) 40

(T) Bonding Data:		(U) ACREAGE TO BE AFFECTED:	(V) NAME OF LANDOWNER:	(W) TOWNSHIP:	(X) COUNTY:	Department Use Only AMOUNT OF BOND
AFFECTED AREA BONDED (ACRES)	<u>103.2</u>	<u>Acres</u>	<u>General Crushed Stone Company</u>	<u>E. Rock Hill</u>	<u>Bucks</u>	
INITIAL OR PREVIOUS	<u>95</u>	THIS AMENDMENT	<u>N/A</u>			

(Y) Type of Bond: Surety Collateral Other, Specify _____
 (Z) Check: Supplemental "C" Included Not filing "C" Lease Agreement Prior to 1-1-72, Copy Attached Supplemental "C" Filed Under Original Permit

THE FOLLOWING SUPPORTING DOCUMENTS ARE SUBMITTED IN TRIPLICATE AS PART OF THIS APPLICATION.

(1) Maps: Portion of USGS Map (2) Plans: _____ (3) Reports: _____ (4) Aerial Photos: _____ (5) Other: _____
 (6) Documents Prepared By: _____ (7) Telephone: See Below
 (8) Name and Address of Responsible Person to be Contacted: J. A. Reedy, Asst. Safety/Env. Dir. Telephone: (215) 253-4271
P. O. Box 231, Sullivan Trail, Easton, PA 18942

AFFIDAVIT:
 COMMONWEALTH OF PENNSYLVANIA:
 COUNTY OF Northampton SS:
 SWORN AND SUBSCRIBED TO BEFORE ME THIS
11th DAY OF JAN 1988
Suzanne M. Chagler
 NOTARY PUBLIC
 MY COMMISSION EXPIRES Apr 13 1989

(10) Print or Type Name to be Signed: Bernard E. Elmer (11) Date: _____
 I, Bernard E. Elmer BEING DULY SWORN, ACCORDING TO LAW, DEPOSE AND SAY THAT I (AM THE APPLICANT) (AM AN OFFICER OR OFFICIAL OF THE APPLICANT) (HAVE THE AUTHORITY TO MAKE THIS APPLICATION) AND THAT THE DOCUMENTS AND STATEMENTS SUBMITTED AS PART OF THIS APPLICATION ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 SIGNATURE Bernard E. Elmer

BUREAU

Bucks County, PA.

NOTICE

Notice is hereby given that **The General Crushed Stone Company**, Post Office Box 231, Easton, Pennsylvania, has made application to the Department of Environmental Resources, Pottsville, PA, for a renewal of their National Pollutant Discharge Elimination System permit No. (PA 0013684) pursuant to their existing Mine Drainage Permit No. 7974SMI to discharge clear quarry pump-out water (this is not plant process water) into an unnamed tributary of Tohickon Creek from a surface mining operation located in East Rock Hill Township in the County of Bucks. This application for permit is made under the provisions of the Act of June 22, 1937, P.L. 1987 as amended.

Written comments and objections may be submitted to the District Mining Manager, Bureau of Mining and Reclamation, 108 S. Claude A. Lord Blvd., Pottsville, PA 17901, up to and including March 4, 1988.

4(1) 13, 20, 27, F 3

..... Robert Mayer being duly affirmed according to law, deposes and says that he is the Assistant General Manager.....

(Manager or Designated Agent)

of the CALKINS NEWSPAPERS INCORPORATED, Publisher of the Intelligencer/Record, a daily newspaper of general circulation, published and having its place of business at Doylestown, Bucks County, Pa. and Horsham, Montgomery County, Pa.; that said newspaper was established in 1886; that securely attached hereto is a printed notice which is exactly as printed and published in said newspaper on
.....January 13, 20, 27 & February 3, 1988.....

.....
and is a true copy thereof; and that this affiant is not interested in said subject matter or advertising; and that all of the allegations in this statement as to the time, place and character of publication are true.

Robert Mayer
.....

Affirmed and subscribed to before me

this 3rd day of February

A.D. 19 88

John R. Steuffer

My Commission Expires November 19, 1990
Notary Public, Doylestown Boro, Bucks Co.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF MINING AND RECLAMATION

DA0594121
7974SM1
880425

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
APPLICATION FOR PERMIT TO DISCHARGE - SHORT FORM C - SUPPLEMENT

Four copies of this supplement, Short Form C and maps must be submitted when applying for an NPDES Permit.

1. Name of applicant The General Crushed Stone Company
2. If applicable, existing Mine Drainage Permit/Application number for the permit application area MDP 7974 SMI
3. If applicable, Mining Safety and Health Administration (MSHA) Identification number and date the number was assigned

MSHA I.D. No. 3600090 (Number reassigned during 1979 MSHA registration)

4. Recent 7 1/2 minute USGS Topographic Maps must be submitted. An outline of the permit application area and subareas must be plotted on these maps. Identify each point of discharge with the corresponding longitude and latitude on the map and provide the following information:

<i>Discharge Point</i>	<i>Source of Discharge (i.e., treatment facilities, sedimentation pond, etc.)</i>	<i>Receiving Stream</i>	<i>Latitude</i>	<i>Longitude</i>
001	Quarry Dewatering	Unnamed tributary of Tohickon Creek	40°-24'-19"	75°-18'-16"

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
APPLICATION FOR PERMIT TO DISCHARGE - SHORT FORM C**

FOR
AGENCY
USE

APPLICATION NUMBER		
110594/21		
DATE RECEIVED		
8	10	25
YEAR	MO.	DAY

To be filed only by persons engaged in manufacturing and mining

Do not attempt to complete this form before reading accompanying instructions
Please print or type

1. Name, address, location, and telephone number of facility producing discharge

A. Name The General Crushed Stone Company

B. Mailing address

1. Street address P. O. Box 195

2. City Perkasie 3. State Pennsylvania

4. County Bucks 5. ZIP 18944

C. Location:

1. Street Quarry Road

2. City Sellersville 3. County Bucks

4. State Pennsylvania

D. Telephone No. 215 536-0440

Area
Code

2. SIC

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(leave blank)

(This site is presently a non-operational quarry.

3. Number of employees 4
This site is used by our Rock Hill Construction group for their office and equipment maintenance and garage. All entries are based on the best of your knowledge you are not required to obtain a discharge permit, previous quarry operations.)
If all your waste is discharged into a publicly owned waste treatment facility and proceed to item 4. Otherwise proceed directly to item 5.

4. If you meet the condition stated above, check here and supply the information asked for below. After completing these items, please complete the date, title, and signature blocks below and return this form to the proper reviewing office without completing the remainder of the form.

A. Name of organization responsible for receiving waste n/a

B. Facility receiving waste:

1. Name _____

2. Street address _____

3. City _____ 4. County _____

5. State _____ 6. ZIP _____

5. Principal product, raw material (Check one) Diabase

6. Principal process Quarry currently inactive/Valid Mining Permit is held and material is sold from

7. Maximum amount of principal product produced or raw material consumed per (Check one) stripping operations and stock piles in compliance with PA la

Basis	Amount							
	1-99 (1)	100-199 (2)	200-499 (3)	500-999 (4)	1000-4999 (5)	5000-9999 (6)	10,000- (7)	50,000 or more (8)
A. Day								
B. Month								
C. Year				X				

8. Maximum amount of principal product or raw material consumed, reported in 7 above, is measured in (Check one):
- A. pounds B. tons C. barrels D. bushels E. square feet
 F. gallons G. pieces or units H. other, specify _____
9. (a) Check here if discharge occurs all year , or *(Quarry dewatering only, no process or waste water will be discharged)
 (b) Check the month(s) discharge occurs: _____
 1. January 2. February 3. March 4. April 5. May 6. June
 7. July 8. August 9. September 10. October 11. November 12. December
 (c) Check how many days per week: 1. 1 2. 2-3 3. 4-5 4. 6-7
10. Types of waste water discharged to surface waters only (check as applicable)

Discharge per operating day	Flow, gallons per operating day					Volume treated before discharging (percent)				
	0.1-999 (1)	1000-4999 (2)	5000-9999 (3)	10,000-49,999 (4)	50,000-- or more (5)	None (6)	0.1-29.9 (7)	30-64.9 (8)	65-94.9 (9)	95-100 (10)
A. Sanitary, daily average										
B. Cooling water, etc. daily average										
C. Process water, daily average										
D. Maximum per operating day for total discharge (all types)										

11. If any of the three types of waste identified in item 10, either treated or untreated, are discharged to places other than surface waters, check below as applicable.

Waste water is discharged to:	Average flow, gallons per operating day				
	0.1-999 (1)	1000-4999 (2)	5000-9999 (3)	10,000-49,999 (4)	50,000 or more (5)
A. Municipal sewer system					
B. Underground well					
C. Septic tank			X		
D. Evaporation lagoon or pond					X
E. Other, specify *Quarry Dewatering (see below)					X

12. Number of separate discharge points: A. 1 B. 2-3 C. 4-5 D. 6 or more
13. Name of receiving water or waters Unnamed tributary of Tohickon Creek
14. Does your discharge contain or is it possible for your discharge to contain one or more of the following substances *added* as a result of your operations, activities, or processes: ammonia, cyanide, aluminum, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, zinc, phenols, oil and grease, and chlorine (residual).
 A. yes B. no

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete, and accurate.

Bernard E. Elmer
 Printed Name of Person Signing

January 11, 1988
 Date Application Signed

President & General Manager
 Title

Bernard E. Elmer
 Signature of Applicant

18 U.S.C. Section 1001 provides that:
 Whoever, in any matter within the jurisdiction of any department or agency of the United States knowingly and wilfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious, or fraudulent statements or representations; or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years, or both.
 EPA Form 7550-8 (Rev. 3-74) (Reverse)

* No process or waste water is discharged from our facility. Discharged water is clean, clear quarry pump-out.

JAN 12 1988

- (d) If your operation is upstream from a public or private water supply or if the stream is subject to recreational use, what other steps will be taken to protect these uses?

Water discharged is quarry dewatering; clean, clear spring water. No process water is discharged.

II. Ground Water

(a) General Data

1. What is the highest ground water elevation in this area? 510 Feet.
2. What is the direction of ground water movement in the affected area?

Southwesterly

3. In consolidated material, what are the orientations of the major fractures or joint sets?
 - Strike N50E, Dip to S.E. @ 80° (major joint set)
 - N30E, Dip to S.E. @ 80° (major joint set)

- (b) Will ground water be encountered during the course of mining (including any perched, regional or artesian flow). yes. If yes;

1. How will this water be handled?

If quarry dewatering (clear, spring water) is not needed in the plant it can be diverted directly from the quarry to Tohickon Creek. No contact with process water.

2. Will the method explained in 1. result in discharge from the operation? yes. If yes;

- a. Will the water be passed through collection basins for settling and neutralization (if necessary) prior to discharging? no. If not, describe in detail methods for handling and monitoring the effluent to ensure the discharge standards of the receiving stream at this point are met.

- b. If the discharge in a. requires treatment, how will this be accomplished?

III. Data to be Submitted for Settling Basins:

(a) Surface Water Erosion Control

1. Pit or strip area

- a. Maximum length of highwall or open cut N/A.

- b. Maximum width of cut N/A
- c. Maximum area between the highwall and surface water diversion ditch
N/A
- d. Maximum area of that portion of the stripped area that will drain to strip cut
N/A

2. Other Area (or if 1. is not applicable to this type of operation)

- a. Maximum surface area to be drained by the basin(s) 56.71 acres.
- b. Maximum disturbed area to be drained by the basin(s) 18.90 acres.
- c. Minimum retention time 8 hours.

* Plant equipped with series of six (6) settling basins.

(b) Quarry Dewatering

1. The maximum anticipated discharge is 216 GPM;
MGD
2. Minimum retention time in the pit sump or settling basin(s) 1
hours.

- (c) Will sludge be removed from settling basins? Yes If yes; Describe the method and frequency of sludge removal and disposal (Locate disposal site on plan map)
As needed, sludge or settlings will be removed to accomodate proper retention times. This material will be used for the building of sight and sound barriers, or pond wall reinforcement.
- (d) If sludge is not to be removed, describe method to be used to cover settling basins after reaching their design capacity.

(e) Existing Discharges:

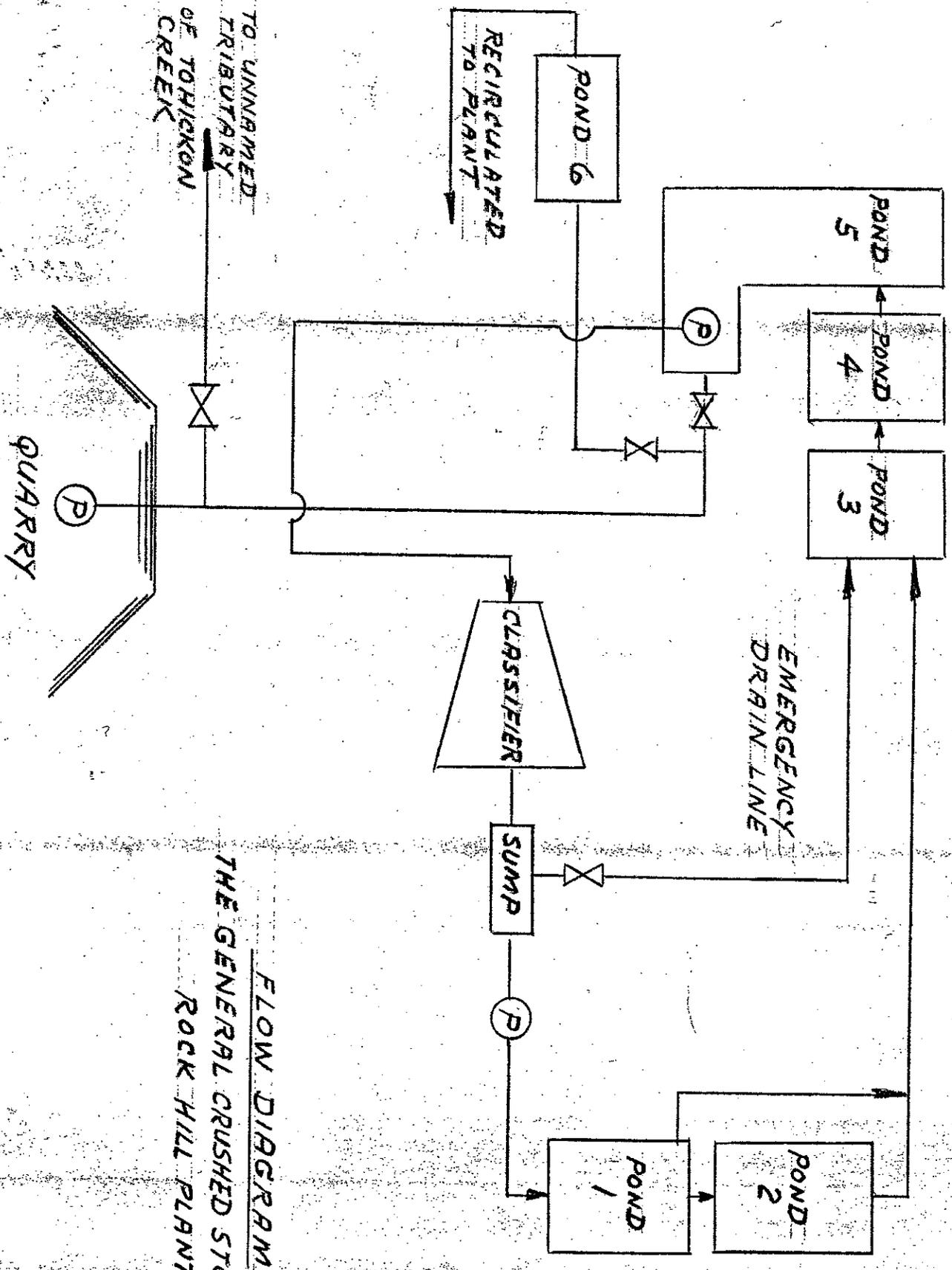
Discharge characteristics During previous plant operation, all permit conditions were complied with.

pH	Alkalinity	Acidity	Iron	Total Solids	Suspended Solids
6-9	N/A	N/A	N/A	30-60 mg/l	N/A

- (f) Attach both cross-sectional and plan views of the proposed settling basin(s) (or pit sump) and specify the length, width, depth, slope ratios and sludge storage capacity.

Previously submitted (1973) with application for Mine Drainage and Surface Mining Permit

Prepared by Skelly and Loy



FLOW DIAGRAM
 THE GENERAL CRUSHED STONE CO.
 ROCK HILL PLANT

QUAKERTOWN QUADRANGLE
PENNSYLVANIA—BUCKS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 QUAKERTOWN 15' QUADRANGLE

