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 AUTH. NAME AUTHOR AFFILIATION
 FIELDS, J.S. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 LAMEREAUX, D.J. Pennsylvania, Commonwealth of,

SUBJECT: Submits application for demolition waste disposal, Mod 5,
 Phases I & II. W/one oversize drawing, Aperture card available
 in PDR.

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	NRR/DE/EHEB		1	1	NRR/DE/SAB	07	1	1
	NRR/DSI/METB		1	1	NRR/DSI/RAB	09	1	1
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NOTES:			3	3				

Aperture card dist.

Drawings to:
 R. Perch, LB #2

THE UNITED STATES OF AMERICA
 DISTRICT COURT OF THE DISTRICT OF COLUMBIA
 IN RE: [Illegible Name]
 Debtor
 Chapter 11
 Case No. [Illegible]

The undersigned, being duly qualified, do hereby certify that the following is a true and correct copy of the [Illegible] filed in the above entitled case.

Dated this [Illegible] day of [Illegible] 19[Illegible].
 [Illegible Signature]

[Illegible text, possibly a signature or title]

Case No.	Case Name	Case Type	Case Status	Case Date	Case Location
1	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]
2	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]
3	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]
4	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]
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17	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]
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20	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]

[Illegible handwritten notes or signatures]



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

October 15, 1984

Mr. David J. Lamereaux, Supervisor
Solid Waste Management
Pennsylvania Department of Environmental Resources
90 E. Union Street, Second Floor
Wilkes-Barre, PA 18701-3296

SUSQUEHANNA STEAM ELECTRIC STATION
DEMOLITION WASTE DISPOSAL SITE #2 PERMIT APPLICATION
CCN 741326 FILE 012
PLE- 6003

Dear Mr. Lamereaux:

Attached for the Pennsylvania Department of Environmental Resources review and approval is one original and six (6) copies of an application for "Demolition Waste Disposal, Module 5, Phases I and II." Silt and sediment generated during annual maintenance activities at the Susquehanna Steam Electric Station's intake structure will be disposed of on this proposed site.

If you have any questions, please call me at (215) 770-7889.

Respectfully yours,

Jerome S. Fields
Jerome S. Fields
Sr. Environmental Scientist-Nuclear

DAS/dml

daslth001701o

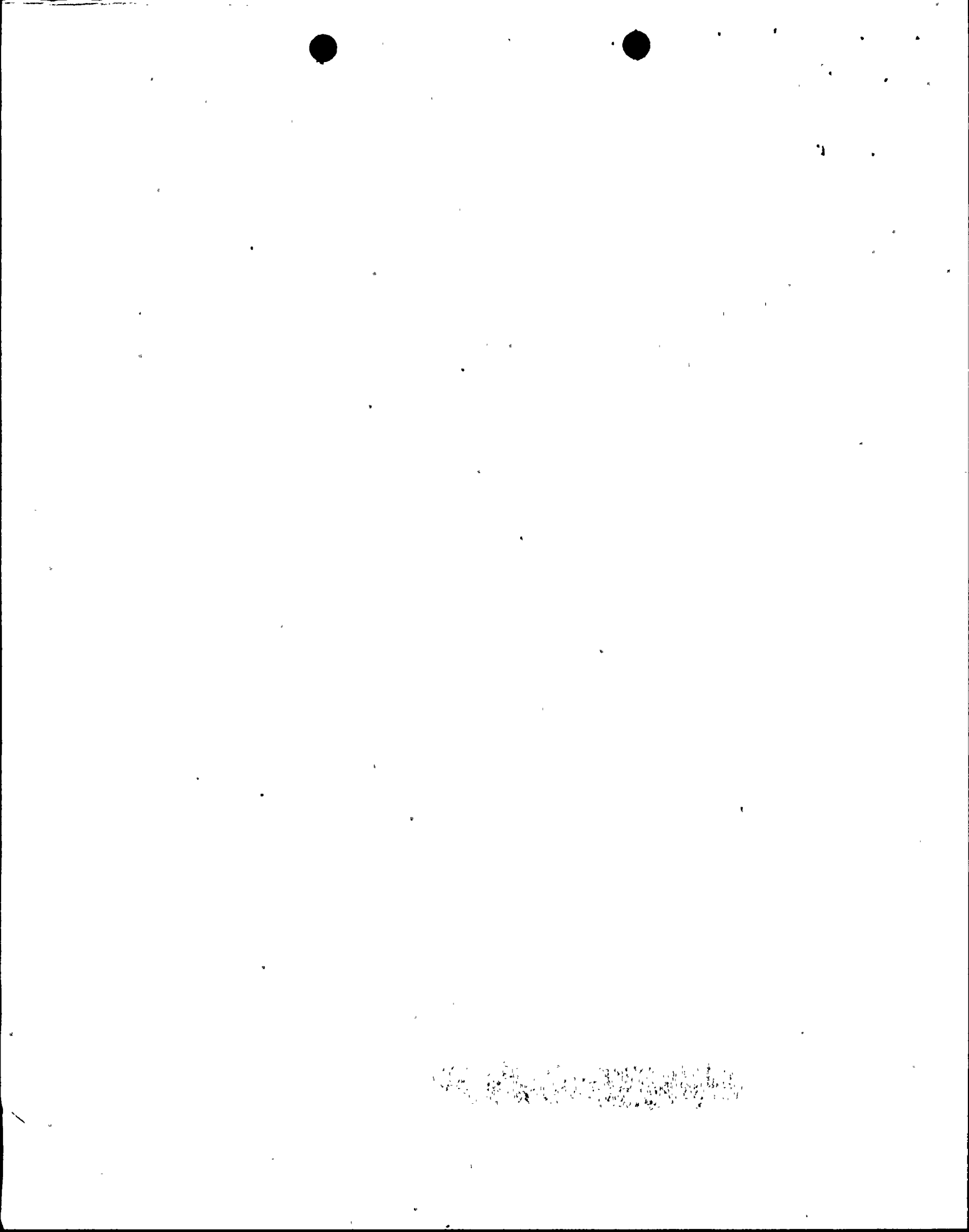
cc: ~~A. Schwencer~~ NRC w/a
A. Snelson Pa. DER w/a

P. J. Koval Pa. DER w/a

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05000388

8410310189 841015
PDR ADOCK 05000387
P PDR

*Aperture
Cond. Dist
Cool
11
Disassembly
To: R. Berch
LB#2*



Date Prepared:
10/10/84

APPLICATION FOR PERMIT FOR SOLID WASTE DISPOSAL and/or PROCESSING FACILITIES

Form No. 1
PHASE NO. 1

DEPARTMENT USE ONLY
ID #

1. Applicant (Name and Address)

Pennsylvania Power & Light Co.
Two North Ninth Street
Allentown, PA 18101

Telephone Number: (215) 770-5151

2. Application for: New Facility

Permit Modification

Module 1 Waste Approval

Additional Acreage

Design/Operational Change

New Permittee/Operator

3. Property Owner(s) (Name and Address)

Pennsylvania Power & Light Co.
Two North Ninth Street
Allentown, PA 18101

Telephone Number: (215) 770-5151

4. Name of Facility Solid Waste Disposal Site #2

Address of Facility Susquehanna Steam Electric Station

P.O. Box 467, U.S. Rt. 11

(Include Access Road Name and Legislative Number)

Berwick, PA Zip 18603

City-Borough-Township Salem Township

County Luzerne

5. U.S.G.S. Map Location of Facility

7.5' Map Name Berwick, PA - Rev. 1976

Map Number N4100-W7607.5/7.5

Center of Facility:

LATITUDE 1411° 1051' 1271"

LONGITUDE 1716° 1071' 1514"

6. Type of Operation:

Class I Construction & Demolition

Waste Disposal Site

7. General Information:

Number of New Acres Proposed for Permit

1 1 1 1 1 1.5/01

Total Acres of the Property

1 112110.0/01

Number of Previously Permitted Acres

1 1 1 1 1 101

8. Documents Prepared By: (Name and Address)

Jerome S. Fields, Sr. Environ. Scientist-Nuc.
Pennsylvania Power & Light Co.
Two North Ninth Street, A2-4
Allentown, PA 18101
Telephone Number: (215) 770-7889

9. AFFIDAVIT:

COMMONWEALTH/STATE OF Pennsylvania

COUNTY OF Lehigh SS:

Sworn and subscribed to before me this 15th
day of October 19 84

Jean A. Smolick
NOTARY PUBLIC

My Commission Expires:

JEAN A. SMOLICK, Notary Public

Allentown, Lehigh County, Pa.

My Commission Expires May 14, 1993

PRINT OR TYPE Name to be Signed:

Date:

I, Jack R. Calhoun being
duly sworn according to law, depose and say that I (am the
applicant) or (am an officer or official of the applicant) and
that the documents and statements submitted as part of this
application are true and correct to the best of my know-
ledge and belief.

Signature Jack R. Calhoun

Title Sr. Vice President-Nuclear 10-15-84

DATE PREPARED
10/10/84DEMOLITION WASTE DISPOSAL
MODULE NO. 5

IDENTIFICATION NO.

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PHASE I

A. *Classification of Waste:*

1. Describe the waste by origin, composition and quantity. (Attach Narrative)
2. Classify waste as Class I, Class II or Class III. Class I

B. Submit Solid Waste Form No. 1 and the following data:

1. Describe proposed operating procedures.
2. Describe borrow area(s).
3. Provide large scale map: 1" = 200' with 10' Contour Interval.
4. Provide U.S.D.A. Soil Conservation Service Soils Map.
5. Describe proposed restoration plan.
6. For Class III Waste, submit Solid Waste Module No. 2 after consultation with the Regional Solid Waste Manager to determine extent of data required for Phase I.

PHASE II

A. *Class I Waste:*

1. Provide plan indicating limits of site work; show erosion and sedimentation controls; cross sections indicating volumes, final grading plan, access controls, and restoration procedures.
2. Provide time frames for site operation and filling through to closure.

B. *Class II Waste:*

1. Same as Class I Waste.
2. Same as Class I Waste.
3. Provide description of soils and describe ground water conditions at the site (backhoe pits, borings, etc.).
4. Flooding frequency of site. _____
5. Obtain additional soils and geology data requirements from Regional Solid Waste Manager.
6. Fire protection, accident prevention, and safety narrative.

C. *Class III Waste:*

1. Submit Solid Waste Form No. 2.
2. Submit those plans, data, designs, and facilities as have been determined necessary as a result of the Phase I evaluation.
3. Submit Solid Waste Form No. 7, Bonding Requirements.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

IDENTIFICATION NO.

DATE PREPARED
10/10/84

DEMOLITION WASTE DISPOSAL
MODULE NO. 5

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NAME AND ADDRESS OF GEOLOGIST SUPPLYING DATA FOR MODULE 2:

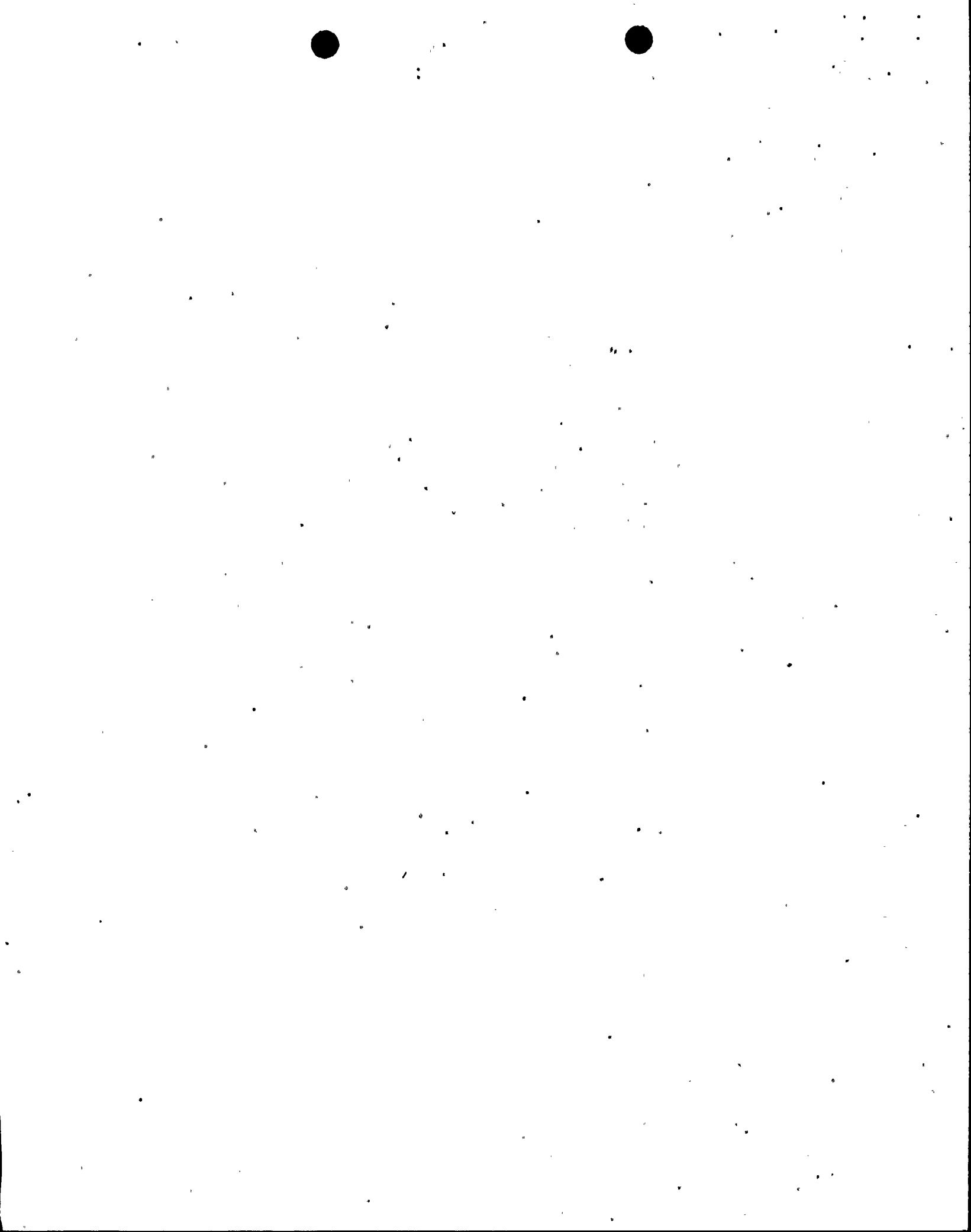
Name _____
Street _____
City and State _____ Zip _____
Telephone Number & Area Code _____

NAME AND ADDRESS OF ENGINEER RESPONSIBLE:

Name JOHN D. PETERS
Registration Number PE-031699-E
Street P.O. BOX 284
City and State BERWICK PA. Zip 18603
Telephone Number & Area Code (717) 864-3537

John D. Peters
10/10/84

SEAL



Phase I

A. Classification of Waste

1. Waste Description

On an annual basis, the Pennsylvania Power and Light Company (PP&L) plans to perform maintenance on the intake structure at the Susquehanna Steam Electric Station (Susquehanna SES). This maintenance activity consists of dredging and removing river silt and sediment which has accumulated inside and in front of the Susquehanna SES intake structure. PP&L plans to dispose of this silt and sediment on the floodplain in the vicinity of the intake structure.

It is estimated that this dredging activity will produce approximately 500 cubic yards (cy) of silt and sediment to be disposed of per year. Soil analyses performed on samples of this silt and sediment show this material to be classified as a loamy sand. Results of these analyses are presented in Table 1. Additionally, the material will be wet since it will be placed on the disposal site immediately after dredging.

2. Waste Classification

According to Section 75.33(b) of the Pa. Department of Environmental Resources (Pa. DER) Solid Waste Management Rules and Regulations, the silt and sediment described above is classified as a Class I Construction and Demolition Waste.

B. Site Description and Operating Procedures

1. Operating Procedures

Little site preparation (i.e., grubbing or clearing) will be required at this disposal site since the site is a relatively flat, cleared, grassy area. Prior to the start of dredging each year, portions of the site will be graded to build temporary berms which will contain the dredged material until it dries.

As described in Section A, PP&L will dispose of river silt and sediment dredged from inside and in front of the intake structure on this site. Dredging will be conducted from shore using a 75-ton American Crane with a 100-foot boom and a 1/2 or 3/4-yard clam basket. This material will then be hauled to the site for disposal. These dredging operations will occur once annually, during the summer or fall, and may last for 2-3 weeks.

During the dredging operations, the silt and sediment will be deposited on the disposal site and immediately spread within the boundaries of the berms to facilitate drying. After the silt and

sediment is dry, the area will be regraded as necessary to approach or to achieve final grades and seeded.

2. Borrow Areas

A separate borrow area will not be required to supply cover soils for the proposed disposal site. Only silt and sediment will be applied to this site; no cover soils will be used. As described in the waste description in Section A of this permit application and in Table 1, the texture of the silt and sediment is suitable to support vegetative growth. Additionally, from PP&L's past experience, this type of dredged material has proved adequate to produce a good quality cover crop.

3. Maps

Figure 1 provides a site map showing the location of the intake structure and the proposed disposal site. Figure 3 provides a detailed map of the proposed disposal site, including original and final planned contours.

4. Soils Map

A soil survey was conducted by the U.S.D.A. Soil Conservation Service on the Susquehanna SES site and included in the Susquehanna SES 1972 Environmental Report-Construction Permit Stage. A map showing the soils found on the proposed disposal site is presented in Figure 2. Table 2 provides additional information regarding these soils.

The proposed disposal site is located on the floodplain on Tioga series soils. These soils have developed from loamy floodplain sediments. They are deep, well-drained acid soils which are nearly level to gently sloping and have a moderately permeable subsoil.

5. Restoration Plan

As stated in Section I.B.1., emplacement of silt and sediment on the proposed disposal area will occur annually for a duration of 2-3 weeks. After the silt and sediment has been allowed to drain and dry, it shall be regraded as necessary to approach or achieve final grades.

Vegetation shall be established by following PP&L's standard procedure for planting coarse lawns. This procedure was followed and proved successful in revegetating the Western Spoils Area, a spoils disposal area used during previous site construction activities. Ground limestone shall be applied and worked into the soil prior to seeding at a rate of 100 pounds per 1000 square feet. A standard commercial fertilizer (10-6-4 of nitrogen, phosphorous, and potash, respectively) shall also be applied and worked into the soil prior to seeding at a rate of 20 pounds per 1000 square feet. The area shall be seeded with a mixture of 60% Kentucky 31 Tall Fescue, 20% Chewings Red Fescue, and 20% Annual Rye Grass at a rate of 6 pounds per 1000 square feet. The seed shall be sown evenly by an approved



mechanical seeder, by hand or by hydroseeding. After seeding, the area shall be protected by mulching with straw. This mulch shall be anchored with an asphalt emulsion tack. Following the initial planting, the disposal site shall be checked for the adequacy of vegetative cover and any unstable areas shall be reseeded.

Although this proposed disposal site is located on the floodplain, PP&L considers it suitable for disposal of silt and sediment. Soils found on the site are essentially the same as, or have developed from, the type of silt and sediment which PP&L proposes to dispose of here. Additionally, flooding of the proposed disposal site is extremely remote. The 100-year flood level in the vicinity of the Susquehanna SES is 513.6' above mean sea level (MSL). The elevation of this site ranges from 511-520' above MSL. Finally, the only time when the area will not be stabilized is during the summer or fall when disposal operations are occurring; extreme flooding at that time of year is very remote.

Phase II - Class I Waste

A. Operational Plan

Figure 3 provides a final grading plan for the proposed disposal site. The total area of the site to be impacted by filling is approximately 1.5 acres and final planned elevation of the site is 520 to 517 feet above MSL. This provides a total site capacity of approximately 5200 cy. Assuming that approximately 500 cy of silt and sediment will be disposed of per year, this capacity will allow the site to be operated for approximately 10 years. Figure 3 also provides cross sections showing the original ground surface, depth of fill, and proposed final grades.

As stated previously, temporary berms will be built to contain the wet material when it is placed on the site and to reduce erosion. Erosion will also be minimized by grading and seeding the site as soon as the newly-deposited silt and sediment is sufficiently dry. Erosion from this site should not be a problem due to the measures listed above, since the site is relatively flat, and since the site will be covered with vegetation except for 2-3 weeks annually.

Access to this disposal site will be via the macadam road shown on Figures 1 and 3. Gravel roads also border the site on the north and southwest. No physical barrier will be constructed to prevent access to the proposed disposal site. The site is well within PP&L property boundaries, which are clearly marked with "No Trespassing" signs. Additionally, security personnel patrol the macadam road immediately adjacent to the proposed site on an hourly basis.

After each yearly application of silt and sediment to the site, the area will be revegetated as described in Phase I. After 10 years when the sediment applied to the site reaches the final proposed elevation, the area will be permanently seeded using these same revegetation procedures.

B. Time Frame of Site Operation

The first application of silt and sediment to the site will occur in the summer or fall of 1985. Filling will occur on an annual basis in the summer or fall for a period of 10 years until 1994, when the site will be permanently revegetated and closed, using the revegetation procedures described in Phase I.

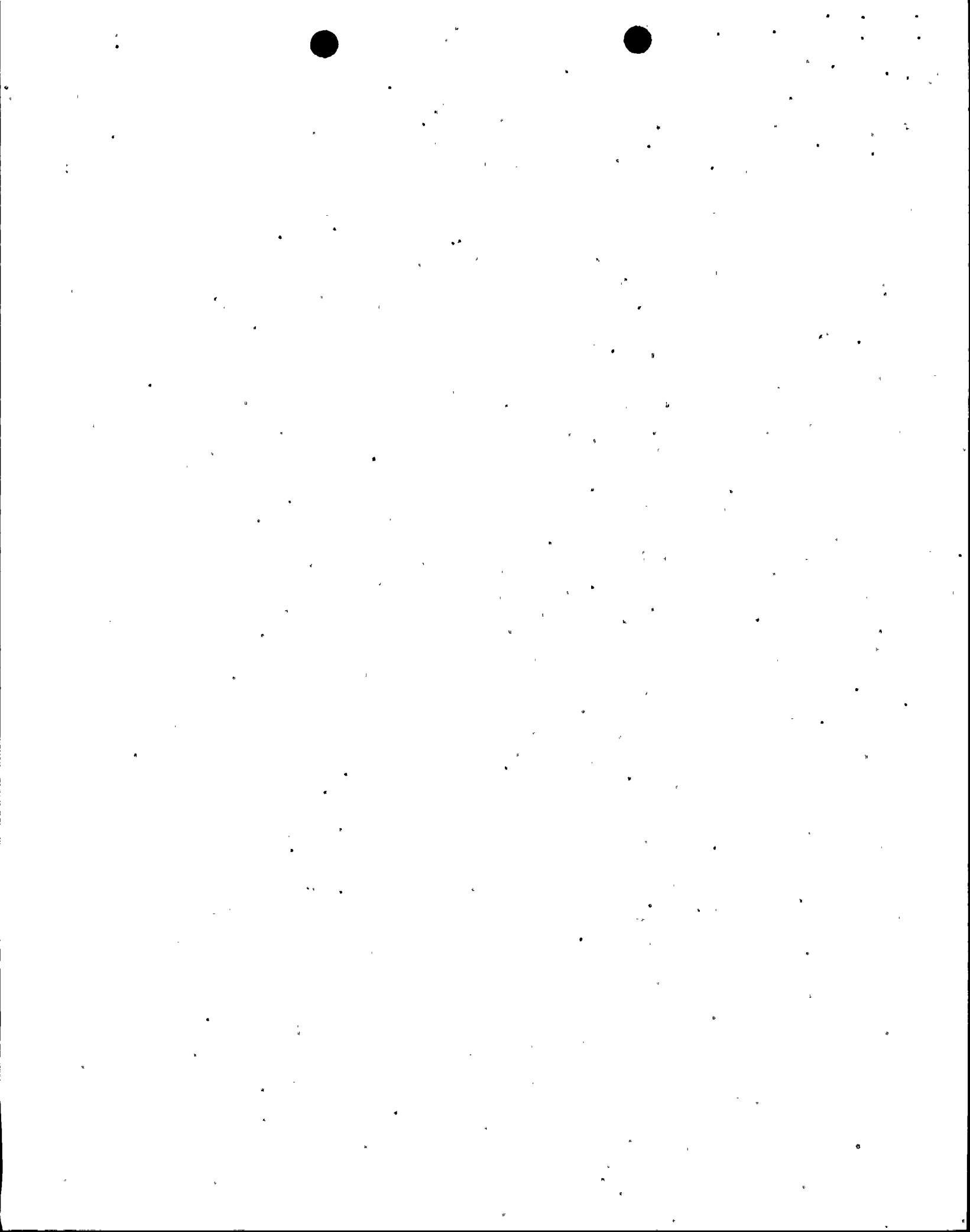


TABLE 1
SOILS ANALYSIS

(River )

SOIL TEST REPORT FOR:

DAVID A STONER
TWO N NINTH ST-A2-4
ALLENTOWN PA 18101

THE PENNSYLVANIA STATE UNIVERSITY
SOIL & FORAGE TESTING
MERKLE LABORATORY
COLLEGE OF AGRICULTURE
UNIVERSITY PARK, PENNSYLVANIA 16802

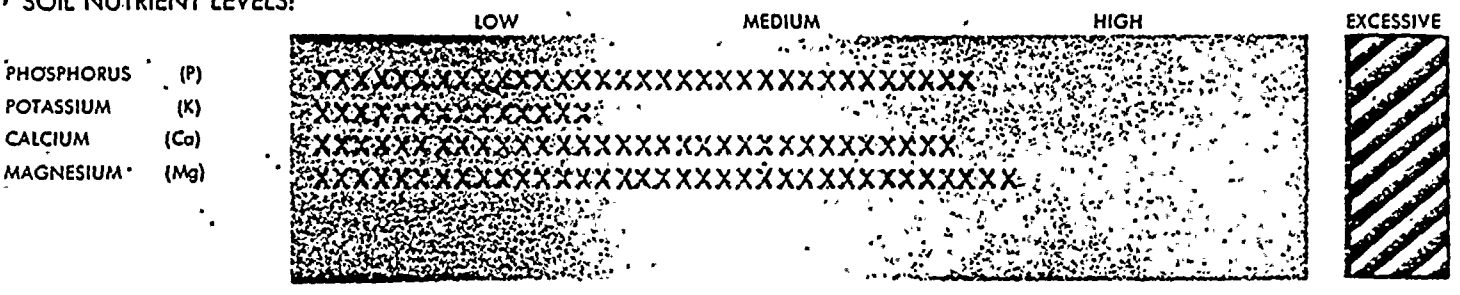
LABORATORY RESULTS:

6.7	7.3	98	0.11	0.9	5.0	8.0	1.4	11.5	62.1
pH SOIL	pH BUFFER	P (lbs/A)	K	Mg (meq per 100 gm.)	Ca	CEC	K	Mg % Saturation	Ca

SCL-SALTS = 18 - LOW
NO POTENTIAL INJURY INDICATED

OTHER:

SOIL NUTRIENT LEVELS:



LIMESTONE RECOMMENDED IS GIVEN AS CALCIUM CARBONATE EQUIVALENT (CCE).
ADJUST LIMING RATE USING ENCLOSED LIMING MATERIALS CONVERSION TABLE.

LIMESTONE AND FERTILIZER RECOMMENDATIONS FOR RECLAMATION OF DISTURBED AREAS
 ***FERTILIZER-APPLY 120- 50-200 LBS PER ACRE - NITROGEN-PHOSPHATE-POTASH
 ***LIMESTONE-APPLY 2000 LBS OF CALCIUM CARBONATE EQUIVALENT PER ACRE.
 FOR OTHER CROPS, SEE LEAFLET ST-2, FERTILIZER TABLE, COLUMN 4

Date 6/29/84

SAMPLE REPORT

County _____

Type of sample Dredged material (River Silt) Sample Identification 2

PARTICLE SIZE ANALYSIS

Sand 85.4 %
Silt 8.5 %
Clay 6.1 %

Soil Textural Class loamy sand

FERTILIZER APPLIED _____

TOTAL COST/ACRE _____

TABLE 2

SSES

SOIL LIMITATIONS

For
Estimated Soil Properties Significant to Engineering
Luzerne County, Pennsylvania

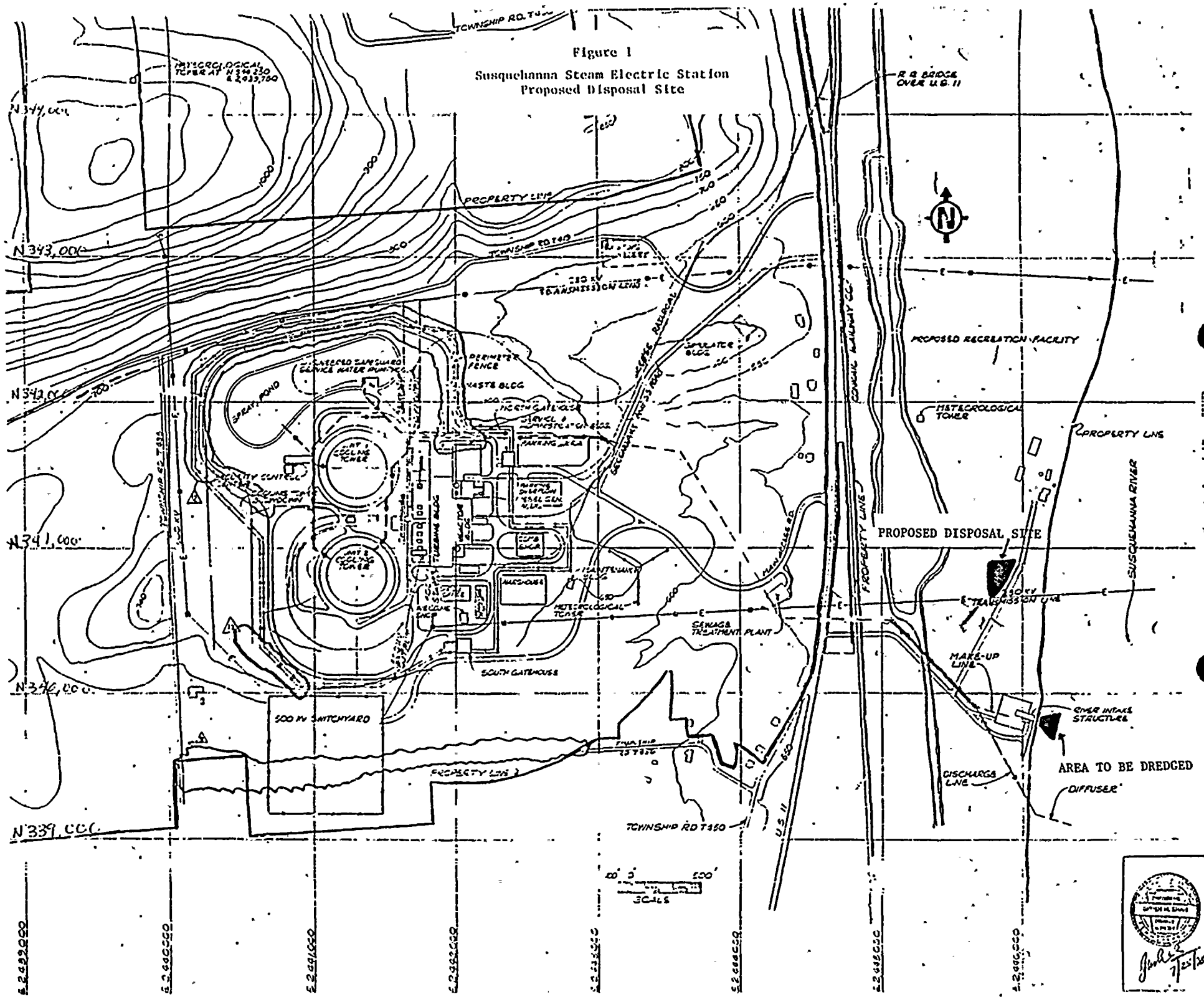
Soils and Mapping Symbols		Depth to		Depth From Surface (typical profile) (inches)	Available Moisture Capacity (in. per in. Depth)	U.S.D.A. Texture (typical profile)	1 Permeability	1 Shrink-swell Potential	1 Corrosion Potential Steel/Concrete	1 Drainage
		Seasonal High Water Table (feet)	Bedrock							
Atherton Silt Loam	At	At Surface	6+	0-10 10-30 30-60	.14-.18 .08-.13 .04-.12	Silt loam Silt loam to fine sandy loam Stratified sand and gravel	Moderately slow Slow Moderately rapid	Moderate Moderate Low	High/High High/High High/Moderate	Poorly to very poorly drained
Basber Soils	Bf	1-3	6+	0-10 10-36 36-50	.18-.22 .18-.22 .18-.22	Silt loam to loam Silt loam to fine sandy loam Sandy loam to silt loam	Moderately rapid Moderate Moderate	Low Low Low	Moderate/Moderate Moderate/Moderate Moderate/Moderate	Moderately well to somewhat poorly drained.
Braceville Gravelly Loam	Br B	1½-3	10+	0-10 10-36 36-60	.15-.18 .15-.18 .03-.08	Gravelly loam Gravelly loam and fine sandy loam Stratified sand and gravel	Moderate Moderately slow Moderately rapid	Low Low Low	Moderate/Moderate Moderate/Moderate Moderate/Moderate	Moderately well drained.
Chenango Gravelly Sandy Loam	Ch B Ch C Ch D	5+	10+	0-10 10-20 20-60	.13-.15 .08-.12 .06-.10	Gravelly loam to gravelly sandy loam Gravelly loam to gravelly sandy loam Stratified sand and gravel	Moderately rapid+ Moderately rapid+ Rapid+	Low Low Low	Low/Moderate Low/Moderate Low/Moderate	Well drained.
Holly Silt Loam	Ho	At Surface	6+	0-8 8-24 24-60	.13-.17 .08-.12 .05-.07	Silt loam Silt loam to very fine sandy loam Stratified silt, sand and gravel	Moderate Moderately slow Moderate	Low Low Low	High/Moderate High/Moderate High/Moderate	Somewhat poorly to poorly drained.
Quaga and Lordstown Channery Silt Loam	Ol B Ol D	3+	2-4	0-5 5-22 22-40	.12-.18 .08-.12 .08-.12	Silt loam Silt loam, channery silt loam Loam	Moderately rapid Moderately rapid Moderately rapid	Low Low Low	Low/High Low/High Low/High	Well drained.
Quaga and Lordstown Very Stony Silt Loam	Op B Op D Op F	3+	2-4	0-5 5-22 22-40	.12-.18 .08-.12 .08-.12	Silt loam Silt loam, channery silt loam	Moderately rapid Moderately rapid Moderately rapid	Low Low Low	Low/High Low/High Low/High	Well drained.
Papakating Soils	Pk	At Surface	5+	0-10 10-28 28-36	.18-.23 .16-.19 .08-.11	Silt loam to silty clay loam Silt loam to silty clay loam Clay loam	Moderate Moderately slow Moderately slow	Moderate Moderate Moderate	High/Moderate High/Moderate High/Moderate	Very poorly drained.
Red Hook Soils	Rd B	0-1½	6+	0-8 8-35 35-60	.16-.18 .15-.17 .08-.10	Loam Gravelly loam Gravelly fine sandy loam	Moderate Moderately slow Moderately rapid	Moderate Moderate Low	High/High High/High High/High	Somewhat poorly to poorly drained
2 Tioga Soils	Tbb	3+	6+	0-45 45-60	.10-.14 .06-.10	Silt loam to fine sandy loam Stratified silt, sand, and gravel	Moderate Moderate to moderately rapid	Low Low	High/Moderate High/Moderate	Well Drained

1 Terms used in these columns are explained in the glossary (of the soil survey).

2 These soils are found on PP&L's proposed disposal site.

Figure 1

Susquehanna Steam Electric Station
Proposed Disposal Site













7/25/78

FIGURE 2

Soil Series Found On The
Susquehanna SES Site

LEGEND

	BASHER SERIES		PAPAKATING SERIES
	BRASEVILLE SERIES		RED HOOK SERIES
	CHENANGO SERIES		TIOGA SERIES
	HOLLY SERIES		ALLUVIAL
	OQUAGA SERIES		POND

