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7b 1:12
Cytec "PAR"

October 30, 2006

Doug Slayton
P/A Associates
33 Flying Point Road
Suite 105
Southampton, NY 11968

James Murray
Panattoni Development Corporation
180 Raritan Center
Edison, NJ 08818

Re: **Draft Preliminary Assessment Report for Cytec Property**
iPort 12 Redevelopment Project
Carteret Landfill Site
Carteret, New Jersey
Our file number: 773901

Dear Doug and Jim:

Enclosed please find a copy of the Draft Preliminary Assessment Report dated October 27, 2006 prepared by SESI Consulting Engineers for the Cytec property located in Carteret, New Jersey.

Please review the report and contact me with your comments at your earliest convenience.

Regards,

Lawrence F. Jacobs
LFJ:kml
Enclosure

SESI
CONSULTING
ENGINEERS

Geotechnical & Foundations
Land Planning
Structural
Environmental
Water Resources

Principals:

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DRAFT

October 27, 2006
P-6747

Lawrence F. Jacobs, Esq.
Farer Fersko
600 South Avenue, P.O.Box 580
Westfield, NJ 07091

RE: Preliminary Assessment Report - Draft
for Cytec Property (Block 9.03, Lot
21; Block 10, Lots 8-10 & 12-21;
Block 11.01, Lots 8, 10-14 & 28)
Carteret Borough, N.J.
SESI Project No. 6747

Dear Mr. Jacobs:

SESI Consulting Engineers has completed the Preliminary Assessment of the Cytec Property, located in Carteret, New Jersey. A copy of the Preliminary Assessment Report documenting the results of the assessment has been enclosed.

If you have any questions, or need any further assistance in this project or if you have any other environmental or civil engineering needs, please call.

Sincerely,

SESI CONSULTING ENGINEERS

Suresh Puppala, Ph.D., P.E.
Senior Project Engineer

Christopher F. Zwingle, P.E.
Principal

enclosure: Preliminary Assessment Report

12 Maple Avenue • Building A • Pine Brook, NJ 07058 • Phone: (973) 808-9050 • Fax: (973) 808-9099

SESI CONSULTING ENGINEERS

PRELIMINARY ASSESSMENT REPORT

DRAFT

FOR

AMERICAN-CYANAMID/CYTEC IMPOUNDMENTS
BLOCK 9.03, LOT 21; BLOCK 10, LOTS 8-10 & 12-21;
BLOCK 11.01, LOTS 8, 10-14 & 28
55 SALT MEADOW ROAD
CARTERET, NJ 07008

PREPARED FOR:

Titan PDC Carteret II LLC
c/o Lawrence F. Jacobs, Esq.
Farer Fersko
600 South Avenue, P.O.Box 580
Westfield, NJ 07091

PREPARED BY:

SESI Consulting Engineers
12A Maple Avenue
Pine Brook, NJ 07008

October 27, 2006

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New Jersey Department of Environmental Protection
Site Remediation Program

PRELIMINARY ASSESSMENT REPORT

This form has been created to assist in completing a Preliminary Assessment in accordance with the Technical Requirements for Site Remediation, N.J.A.C. 7:26E. It must be completed in detail and supplemented with narratives where directed. This form takes the Preliminary Assessment requirements of the Technical Rules and puts them into a question and answer format. It is the foundation for completing an environmental investigation of a site as a means towards obtaining a no-further-action approval from the Department; as well as a means toward meeting the minimum requirements of the due diligence requirements of the innocent purchaser defense as defined by N.J.S.A. 58:10-23.11g

INFORMATION IN THE REPORT SHALL BE USED AS THE INITIAL BASIS FOR ASSESSING POTENTIAL ENVIRONMENTAL CONCERNS. THIS FORM MUST BE CERTIFIED IN ACCORDANCE WITH N.J.A.C. 7:26E-1.5. **SUBMIT ONE ORIGINAL CERTIFIED COPY OF THIS FORM UNLESS IT IS ACCOMPANIED BY A SITE INVESTIGATION REPORT AND A PROPOSED REMEDIAL INVESTIGATION WORKPLAN IN WHICH CASE 3 COPIES SHALL BE SUBMITTED.**

This form should be used as a foundation for completing a preliminary assessment report in accordance with N.J.A.C.7: 26E, the Technical Requirements for Site Remediation, subchapter 3.1 and 3.2. The purpose of a preliminary assessment is to identify the presence of any potentially contaminated areas of concern. And if the information gathered to complete this form identifies any potentially contaminated areas of concern, then there is a need to complete a site investigation pursuant to N.J.A.C. 7:26E-3.3 through 3.13. If this is the case, then continue with the remedial activities and submit the preliminary assessment report with a complete site investigation report and a proposal based on the findings of the site investigation. **Note: A Preliminary Assessment Report does not include the results of a site investigation.**

The Department will accept mimeograph copies or computer-generated copies of this form provided the copies are legible and all questions listed on this form are included.

The application must be notarized.

Should you encounter any problem in completing this form, we recommend that you discuss the matter with your assigned Case Manager for active cases or a representative from the Department if completing the form in anticipation of a future submittal to the NJDEP. Submitting incorrect or insufficient data may cause processing delays and possible postponement of your transaction.

Please call (609) 633-0708 or your assigned case manager between the hours of 8:30 a.m. and 4:30 p.m. to request assistance.

1/2006

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF REMEDIATION SUPPORT
P.O. Box 435, TRENTON, NJ 08625-0435

PRELIMINARY ASSESSMENT REPORT

Answer all questions. Should you encounter any problems in completing this form, we recommend that you discuss the matter with a representative from the Site Remediation Program. Submitting incorrect or insufficient data may cause processing delays and possible postponement of your transaction

PLEASE PRINT OR TYPE

Date: September 25, 2006

Industrial Establishment/Site Name American-Cyanamid/Cytec Impoundments

Address 55 Salt Meadow Road

City or Town Carteret Zip Code 07008

Municipality Borough of Carteret County Middlesex

Block (s) 9.03; 10 and 11.01 Lots (s) 21; 8, 9,10, 12 thru 21; 8, 10 thru 14, 21

Site Remediation Program Case Number or EPA Identification Number KCSL # NJD986603439;

1. Present a history of ownership and operations at the industrial establishment, in tabular form, from the time the site was naturally vegetated or utilized as farmland in accordance with N.J.A.C. 7:26E-3.1(c)1.ii. (attach additional sheets as necessary)

Name of Property Owner	From	To
See Appendix 1		

Name of Operator	From	To

2A. In accordance with N.J.A.C. 7:26E-3.1(c)1.i, provide a clear and concise description of the past industrial/commercial operation(s) conducted on site by each owner and operator. To the extent available the site history shall include an evaluation of the following sources of information:

(1) Sanborn Fire Insurance Maps; (2) MacRae's Industrial Directory, New Jersey Industrial Directory, New Jersey Manufacturers Directory; (3) Title and Deed; (4) Site plans and facility as-built drawings; (5) federal, state, county and local government files; (6) The Department Geographic Information System. (7) and any additional sources which may be available for a specific site.

Site history is frequently an item where preliminary assessments are incomplete. The Industrial Site Recovery Act requires that a diligent inquiry be made, researching the site history back to January 1, 1932. Common answers to this question have included: "Unknown", or "We are only a tenant on the site and have no knowledge of prior site history". Neither of these answers satisfies the requirement for a due diligent inquiry.

To avoid having a PA found incomplete by the Department due to insufficient information, the site history must be researched. The following are ways of obtaining information regarding site history: title searches; contacting the local and county health officials and municipal agencies (for example, local fire and police departments, and local planning, zoning, adjustment boards) requesting any information these public agencies may have on the specific location; and, interviewing long time neighbors of the industrial establishment. Tenants should always request information from the landlord. The applicant should always document any attempts to locate this information to support a claim that a diligent inquiry has been conducted. The Preliminary Assessment report should not be submitted until all parties contacted for information have responded to the request for information and the information obtained has been reviewed. If the prior site history demonstrates that the current building was built on vacant unimproved property, it should be reported as such. If the site has been, or is now the subject of a site remediation, any prior cases should always be referenced.

Provide the page or appendix number where the site history may be found. **Appendix 2**

Provide a listing of the resources utilized to compile the site history and as appropriate copies of any maps or information, which will assist the Department in evaluating your conclusions.

Name of Resource	Date of document reviewed	Appendix # if providing copies
Appendix 3		

2B. Include a detailed description of the most recent operations subject to this preliminary assessment

Provide the page or appendix # where the description of the most recent operations may be found. **Appendix 2, 4**

3. Hazardous Substance/Waste Inventory: N.J.A.C. 7:26E-3.1(c)1.iii. List all raw materials, finished- products, formulations and hazardous substances, hazardous wastes, hazardous constituents and pollutants, including intermediates and by-products that are or were historically present on the site. Note: If past usage included farming, pesticides may be a concern and should be included in this list. **(Attach additional sheets if necessary).**

Material Name	CAS # if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
See Appendix 5			

4 A. In accordance with N.J.A.C. 7:26E-3.1(c)1iv provide a summary of all current and historic wastewater discharges of **Sanitary and/or Industrial Waste** and/or sanitary sludge. Present and past production processes, including dates and their respective water use shall be identified and evaluated, including ultimate and potential discharge and disposal points and how and where materials are or were received on-site. All discharge and disposal points shall be clearly depicted on a scaled site map. Information required under this item is intended to identify potential discharges to any on-site disposal system, such as a septic system or lagoon or drywell. For example to complete the following table information may include: From 1955 To 1960, Discharge Type - Sanitary and Industrial, Discharge Location - On-Site Septic System: From 1960 To Present, Discharge Type - Sanitary and Industrial, Discharge Location - Public Treatments Works.

Site Information

Discharge Period		Discharge Type	Discharge Location
From	To		
See Appendix 5			

4B. In accordance with N.J.A.C 7:26E-3.1(c)iv provide a narrative of disposal processes for all historic and current process waste streams and disposal points. (attach additional sheets if necessary)

See Appendix 5

5. This question requires the applicant to conduct a diligent inquiry into the current and historic operations at the site to identify all of the potential areas of concern, which formerly or currently exists at the industrial establishment as defined in N.J.A.C. 7:26E-1.8. Diligent inquiry as defined in N.J.A.C.7:26E-1.8 states:

A. Conducting a diligent search of all documents which are reasonably likely to contain information related to the object of the inquiry, which documents are in such person's possession, custody or control, or in the possession, custody or control of any other person from whom the person conducting the search has a legal right to obtain such documents; and

B. Making reasonable inquiries of current and former employees and agents whose duties include or included any responsibility for hazardous substances, hazardous wastes, hazardous constituents, or pollutants, and any other current and former employees or agents who may have knowledge or documents relevant to the inquiry.

In accordance with N.J.A.C. 7:26E3.1(c)1.v., a narrative shall be provided for each area of environmental concern describing the **(A)** Type; **(B)** Age; **(C)** Dimensions of each container/area; **(D)** Chemical Content; **(E)** Volume; **(F)** Construction materials; **(G)** Location; **(H)** Integrity (i.e., tank test reports, description of drum storage pad); and **(I)** Inventory control records, unless a Department-approved leak detection system, pursuant to N.J.A.C. 7:1E or 7:14B, has always been in place and there is no discharge history. If sampling is not proposed for any identified area of environmental concern, please explain why it is believed that the area of environmental concern does not contain contaminants above the applicable remediation standards. Submit all necessary documentation to verify this belief. The required narrative need not describe the sampling to be completed; however, it should state that sampling will be completed in accordance with the appropriate section of N.J.A.C.7:26E.

Detailed descriptions of all sampling completed in each area of concern shall be described as part of a Site Investigation Report in accordance with N.J.A.C.7:26E-3.13.

Please indicate if any of the potential areas of environmental concern listed below in #5A through #5G, as defined in N.J.A.C. 7:26E-1.8, formerly or currently exist at the industrial establishment by indicating Yes or No in the appropriate space as provided.

For the Location Reference Keyed to Site Map, use either a unique number or a unique letter identification for each area of concern and be consistent throughout each phase of the remediation, referring to the same identification provided herein. Note: If the industrial establishment has multiple locations for one type of area of concern (example: underground storage tanks [UST] are located in 3 separate areas of the facility), each area must be discussed separately and given a separate identification. For example: Area A-1 a 1,000 gallon gasoline UST, Area A-2 a 10,000 gallon heating oil UST and Area A-3 a 500 gallon TCE UST should all be listed on the site maps and have separate narratives provided for each area discussing required information A-I listed above for each UST area.

Provide the required narrative as an appendix to this report. Do not try to provide a narrative in the space provided

I hereby certify that a diligent inquiry has been conducted to identify all current and historical potential areas of environmental concern and based on the diligent inquiry the areas of environmental concern identified below in question 5A through 5G are the only areas of environmental concern believed to exist at the above referenced industrial establishment.

The signatory on the certification page shall initial here. _____.

A. Bulk Storage Tanks and Appurtenances, including, without limitation :

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Aboveground Storage Tanks and Associated Piping	No		
Underground Storage tanks and Associated Piping	No		
Silos	No		
Rail Cars	No		
Loading and unloading areas	No		
Piping, above ground and below ground pumping stations, sumps and pits	Yes	AOC-2	Appendix 6

B. Storage and Staging Areas, including

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Storage pads including drum and/or waste storage	No		
Surface impoundments and lagoons	Yes	AOC-1	Appendix 6
Dumpsters	No		
Chemical storage cabinets or closets	No		

C. Drainage systems and areas including without limitation

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Floor drains, trenches and piping and sumps	No		
Process area sinks and piping which receive process waste	No		
Roof leaders when process operations vent to the roof	No		
Drainage swales & culverts	No		
Storm sewer collection systems	Yes	AOC-2	Appendix 6
Storm water detention ponds and fire ponds	No		
Surface water bodies	Yes	AOC-2	Appendix 6
Septic systems leachfields or seepage pits	No		
Drywells and sumps	No		

D. Discharge and disposal areas, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Areas of discharge per N.J.A.C. 7:1E	No		
Waste piles as defined by N.J.A.C 7:26	Yes	AOC-9	**Appendix 6**
Waste water collection systems including septic systems, seepage pits, & dry wells.	No		
Landfills or landfarms	Yes	AOC-1	**Appendix 6**
Sprayfields	No		
Incinerators	No		
Historic Fill or any other Fill material	Yes	AOC-3	**Appendix 6**
Open Pipe discharges	No		

E. Other areas of concern, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Electrical Transformers & Capacitors	No		
Hazardous material storage or handling areas	No		
Waste Treatment areas	No		
Discolored or spill areas	Yes	AOC-1	**Appendix 6**
Open areas away from production areas	No		
Areas of stressed vegetation	Yes	AOC-1	**Appendix 6**
Underground piping including industrial process sewers	Yes	AOC-1	**Appendix 6**
Compressor vent discharges	No		
Non-contact cooling water discharges	No		
Areas which receive flood or storm water from potentially contaminated areas	No		
Active or Inactive production wells	No		

F. Building interior areas with a potential for discharge to the environment, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Loading or Transfer areas	No		
Waste Treatment areas	No		
Boiler rooms	No		
Air vents and ducts	No		
Hazardous material storage or handling areas	No		

G. Any other site-specific area of concern.

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Operations by Industrial Reclamation Service	Yes	AOC-5	**Appendix 6**
Indoor Vapor Intrusion	Yes*	AOC-6	**Appendix 6**
Ecological Impacts (to Vegetation, aquatic life, etc.)	Yes	AOC-7	**Appendix 6**
Impacts associated with potential off-site sources (e.g., Kinder Morgan)	Yes	AOC-8	**Appendix 6**
Railroad Ties	Yes	AOC-9	**Appendix 6**

* - Potential applicability to the proposed on-site structures

6 If the site area exceeds two acres, an interpretation of the aerial photographic history of the site shall be submitted in accordance with N.J.A.C. 7:26E-3.1(c)1.vi. The interpretation shall focus on the site under review and if any concerns were identified on the site. References to surrounding properties are unnecessary unless a neighboring site is suspected to be directly contributing to environmental factors at the site of concern. The interpretation shall be based on available current and historical color, black and white and infrared aerial photographs (scale 1:18,000 or less) of the site and surrounding area at a frequency that provides the evaluator with a historical perspective of site activities. The photographic history shall date back to 1932 or the earliest photograph available. Aerial photographs are available for review at the New Jersey Department of Environmental Protection, Tidelands Management Program, Aerial Photo Library, 9 Ewing Street, Trenton, New Jersey, (609) 633-7369. Note, the applicant is not required to provide the Department with copies of the aerial photographs reviewed only an interpretation of what was observed in each photograph, which may represent an environmental concern. If photos are submitted please clearly identify the location of the site on each photo.

_____ Check here if an aerial photo review was not completed and provide a reason.

_____

Provide the appendix number for the air photo review narratives **Appendix 7**

7. Discharge History of Hazardous Substances and Wastes, N.J.A.C. 7:26E-3.1(c)1vii :
A. Have there been any known discharges of hazardous substances and wastes at the site?

_____ No (Goto question #8) ____X____Yes (Complete Items 7B & 7C)

B. Was the Department notified of the discharge?

_____X_____Yes; _____ No

If yes, provide the Case # ____KCSL # NJD986603439_____

C. Was a no-further-action letter, negative-declaration approval or full-compliance letter issued as a result of the cleanup of this discharge?

____X__ Yes (Submit a copy of the no-further-action approval)

_____ No (Submit a complete Site Investigation or Remedial Action Report documenting the action taken to address the discharge)

8 In accordance with N.J.A.C.7:26E-3.1 (c) 1.viii, provide a description of any remediation activities previously conducted or currently underway at the site, including dates of discharges, remedial actions taken, and all existing sample results concerning contaminants which remain at the site. Copies of Department or other governmental agency no-further-action approvals should also be provided with a description of the areas to which the no-further-action approvals apply. This information is especially important if the approval was granted for the remediation of a portion of a site or a specific discharge event rather than the entire site subject to this preliminary assessment.

_____ Check here if this question does not apply.

Provide the appendix number for the required narrative and data summary **Appendices 2 & 8**

9. Protectiveness of past remedies N.J.A.C. 7:26E-3.1(c) 1.ix. The owner or operator shall evaluate all remedies previously approved by the Department in a remedial action workplan or equivalent document to determine if the remedy remains protective of public health, safety and the environment. Things to consider as part of this evaluation include but are not limited to; was an engineering control used to cap contamination left on site? If yes, is this cap being maintained? Did the remedy address all of the contamination? Is the remedy working as designed? Have institutional controls been maintained at the local and county level? Please provide a page or appendix number where this written evaluation is included __**Appendix 9**_____.

10. Order of Magnitude Analysis, N.J.A.C. 7:26E, 3.2(a)5
A. Have any areas of concern previously received a No-Further-Action approval from the Department or other equivalent government agency for which no additional remediation is proposed? _____ No (go to question #11). ___X_____ Yes (complete 10B).

B. In accordance with N.J.S.A 58:10B-13(e) and N.J.A.C. 7:26E, 3.2(a)5 the following evaluation of the protectiveness of past remedies shall be completed for all areas of concern for which no further action was previously approved by the Department or other equivalent government agency and for which no additional remediation is proposed. All final sampling results shall be evaluated to determine if contaminant levels remaining on site are in compliance with current remediation criteria. The applicant shall complete the following :

I hereby certify that the order of magnitude analysis required pursuant to N.J.A.C. 7:26E has been completed, since the issuance of a No-Further-Action approval, negative declaration approval or equivalent remediation approval; and (Check the appropriate statements (1), (2), (3) or (4), complete the summary table and provide a summary of the results comparison)

(1) _____ The areas of concern listed below contain contaminants above the current numerical remediation standard applicable at the time of the comparison, however no further action is required because: (check the appropriate sub statement)

_____ (a) The contaminant concentrations remaining in the areas of concern listed below are less than an order of magnitude (factor of 10) greater than the current numerical remediation standard applicable at the time of the comparison;

_____ (b) The areas of concern or the site was remediated using engineering and institutional controls approved by the Department and these controls are still protective of public health, safety and the environment; or

_____ (c) The area of concern or the site was remediated to an approved site specific remediation standard and all of the factors and assumptions which are the basis for deriving the site specific remediation standard remain valid for the site.

Please list the areas of concern for which the previous statement applies.

Area of Concern	Location Reference Keyed to the Site Map

Include a separate table comparing the levels of contaminants remaining in each area of concern, the numerical remediation standard approved in the remedial action workplan or at the time of no-further-action approval and the current numerical remediation standards applicable at the time of the comparison. The table shall contain all sampling results, including sample location (depth), sample media, field and laboratory identification numbers, and method detection limits, as necessary, and analytical results for all individual contaminants for each area of concern.

(2) ___X___ The areas of concern listed below contain contaminants above the current numerical remediation standard applicable at the time of the comparison and further remediation is required because: (check the appropriate sub statement)

_____ (a) The contaminant concentrations remaining in the areas of concern listed below are more than an order of magnitude (factor of 10) greater than the current numerical remediation standard applicable at the time of the comparison;

_____X*____ (b) The areas of concern or the site was remediated using engineering and institutional controls approved by the Department and these controls are no longer protective of public health, safety and the environment; or
* e.g., previously approved "cap" is comprised of vegetation grown on soil/sludge "cap" of variable thicknesses (with no coverage in some areas as observed during recent site visits). These controls may not be appropriate for the planned reuse of the site as a warehouse.

_____X_____ (c) The area of concern or the site was remediated to an approved site specific remediation standard and some or all of the factors and assumptions which are the basis for deriving the site specific remediation standard are no longer valid;

Please list the areas of concern for which the previous statement applies.

Area of Concern	Location Reference Keyed to the Site Map
Sludge	AOC-1
Groundwater	AOC-1
Surfacewater	AOC-1

Include a separate table comparing the levels of contaminants remaining in each area of concern, the numerical remediation standard approved in the remedial action workplan or at the time of no-further-action approval and the current numerical remediation standards applicable at the time of the comparison. The table shall contain all sampling results, including sample location (depth), sample media, field and laboratory identification numbers, and method detection limits, as necessary, and analytical results for all individual contaminants for each area of concern.

(3) ___ The areas of concern listed below do not contain contaminants above the current numerical remediation standard applicable at the time of the comparison and no further remediation is required.

Please list the areas of concern for which the previous statement applies.

Area of Concern	Location Reference Keyed to the Site Map

Include a separate table comparing the levels of contaminants remaining in each area of concern, the numerical remediation standard approved in the remedial action workplan or at the time of no-further-action approval and the current numerical remediation standards applicable at the time of the comparison. The table shall contain all sampling results, including sample location (depth), sample media, field and laboratory identification numbers, and method detection limits, as necessary, and analytical results for all individual contaminants for each area of concern.

(4).____The contaminant concentrations remaining in the below listed areas of concern are more than an order of magnitude greater than the numerical remediation standard applicable at the time of the comparison. However, no further remediation is required by the person conducting this preliminary assessment, because, in accordance with N.J.S.A. 58:10B13(e), that person is not liable for the contamination pursuant to N.J.S.A. 58:10-23.11g

Please list the areas of concern for which the previous statement applies.

Area of Concern	Location Reference Keyed to the Site Map

Include a separate table comparing the levels of contaminants remaining in each area of concern, the numerical remediation standard approved in the remedial action workplan or at the time of no-further-action approval and the current numerical remediation standards applicable at the time of the comparison. The table shall contain all sampling results, including sample location (depth), sample media, field and laboratory identification numbers, and method detection limits, as necessary, and analytical results for all individual contaminants for each area of concern.

11 Historical Data on environmental quality at the Industrial Establishment

A. Have any previous sampling results documenting environmental quality of the Industrial Establishment not received a no-further-action approval from the Department or been denied approval by the Department? (N.J.A.C. 7:26E-3.1(c)1.viii)

_____Yes (See Attachment #_____) ___X___ No (Go to 12)

B. Have there been any known changes in site conditions or new information developed since completion of previous sampling or remediation? If sampling results were obtained, but are not part of this application, please explain below (N.J.A.C. 7:26E-3.1(c)xi):

_____

_____

_____

_____

12 List all federal, state and local environmental permits at this facility, including permits for all previous and current owners or operators, applied for, received, or both (Attach additional sheets if necessary).

Check here if no permits are involved _____ and got to question 13.

A. New Jersey Air Pollution Control

Permit Number	Expiration Date	Type of Permitted Unit

B. Underground Storage Tank Registration Number _____

Size of Tank (Gallons)	Tank Contents

C. New Jersey Pollutant Discharge Elimination System (NJPDES) Permit

Permit Number	Discharge Type	Discharge Location Keyed to Site map	Expiration Date
NJ0061611	Discharge to Groundwater	AOC-1	

D. Resource Conservation and Recovery Act (RCRA) permit #_____=_____

E. EPA Identification Number NJD986603439

F. In accordance with N.J.A.C. 7:26E-3.1(c) xii, list all other federal, state, local government environmental permits for all previous and current owners or operators applied for and/or received for the site including :

(1) Name and address of the permitting agency
(2) The reason for the permit
(3) The permit identification number
(4) The application date
(5) The date of approval, denial or status of the application
(6) The name and current address of the permittees
(7) The reason for the denial, revocation or suspension if applicable
(8) The permit expiration date

___X___ Check here if no other environmental permits were applied for or received for this site.

Provide the appendix # for the required listing if other environmental permits exist for this site _____.

13. In accordance with N.J.A.C. 7:26E-3.1(c)xiii, provide a summary of enforcement actions (including but not limited to, Notice of Violations, Court Orders, official notices or directives) for violations of environmental laws or regulations (attach additional sheets if necessary):

A. Check here if no enforcement actions are involved _X___ (Go to 14 otherwise complete 13B)

B. (1) Name and address of agency that initiated the enforcement action

NJDEP

(2) Date of the enforcement action December 8, 1987

(3) Section of statute, rule or permit allegedly violated _____

(4) Type of enforcement Administrative Consent Order

(5) Description of the violation _____

(6) How was the violation resolved? _____

14. In accordance with N.J.A.C. 7:26E-3.1(c) xiv, please provide a narrative description of all areas where non-indigenous fill materials were used to replace soil or raise the topographic elevation of the site, including the dates of emplacement. **See Appendix 2 and Appendix 6 AOC 1**

15. A. In accordance with N.J.A.C. 7:26E-3.2(a) 3.i, submit a scaled site plan, detailing the subject lot and block, property and or leasehold boundaries, location of current and former buildings, fill areas, paved and unpaved areas, vegetated areas, and all areas of concern identified above and all active or inactive wells. **See Figure 2**

B. Scaled historical site maps and facility as built drawings (if available).

C. A copy of the United States Geologic Survey (USGS) 7.5 minute topographical quadrangle that includes the site and an area of at least one mile radius around the site. The facility location shall be clearly noted. If a portion of the USGS quadrangle is used, the scale, north arrow, contour interval, longitude and latitude with the name and date of the USGS quadrangle shall be noted on the map. **See Figure 1**

1. In accordance with N.J.A.C. 7:26E-3.2 , please provide the date that the site visit was completed to verify the findings of the preliminary assessment. August 10th, September 5th, October 4th, 2006

17. List any other information you are submitting or which has been formerly requested by the Department:

Description	Appendix #

CERTIFICATION:

The following certification shall be signed by the highest-ranking individual at the site with overall responsibility for that site or activity. Where there is no individual at the site with overall responsibility for that site or activity, this certification shall be signed by the individual having responsibility for the overall operation of the site or activity.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information, and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Typed/Printed Name _____ Title _____

Signature _____ Date _____

Sworn to and Subscribed Before Me on this _____

Date of _____ 19____

_____

Notary

1/2006

Division of Responsible Party Site Remediation
Industrial Site Recovery Act

INITIAL NOTICE FEE SUBMITTAL FORM

Case # (if known) _____

Case Name (Active Case) _____

Check drawn from the account of _____ Check/M.O. # _____

Amount Enclosed _____

Please circle the appropriate payment location(s)

1.	General Information Notice	$100.00
2.	Preliminary Assessment Report	$250.00
3.	Site Investigation Report	$500.00
4.	Negative Declaration Review	$100.00
5.	Expedited Review Application	$150.00 (see note)

Note: This fee is not intended to "expedite" the review of a Preliminary Assessment or Site Investigation Report. All reports are reviewed in the order received by the department.

6.	Remediation in Progress Waiver Application	$150.00
7.	Regulated Underground Storage Tank Waiver Application	$400.00
8.	Area of Concern Waiver Application	$100.00
9.	Limited Site Review Application	$350.00
10.	Applicability Determination Application	$200.00
11.	De minimis Quantity Exemption Application	$200.00
12.	Limited Conveyance Application	$400.00
13.	Remediation Agreement Application	$1000.00
	Remediation Agreement Amendment Application $500.00	
14.	Confidentiality Claim	$250.00
15.	Remedial Action Workplan Deferral Application	$650.00

Note: All applicable fees are due with the submission of each document. Each document requires a separate review fee. Review fees are for a single review. The submission of a revised document in response to deficient submission will require a separate review fee. Fees are not transferable or refundable once a requested review has been completed or written a determination has been made by the Department.

APPENDIX 1

APPENDIX 1

HISTORY OF OWNERSHIP

Table 1 – History of Ownership
Historical Chain of Title Report (NERI)

APPENDIX 1
TABLE 1 - HISTORY OF OWNERSHIP
AMERICAN-CYANAMID/CYTEC IMPOUNDMENTS
BLOCK 9.03, LOT 21; BLOCK 10, LOTS 8-10 & 12-21;
BLOCK 11.01, LOTS 8, 10-14 & 28
CARTERET, NEW JERSEY
SESI PROJECT # 6747

Name of Property Owner/Operator	From	To
Tract I –		
Tract II –		
Tract III –		
Tract IV –		
Tract V –		
Tract VI –		
Tract VII – Isaac Moore and Hanna Moore	Unknown	June 13, 1850
Tract VIII –		
Tract I –		
Tract II –		
Tract III –		
Tract IV –		
Tract V –		
Tract VI –		
Tract VII – Abraham F. Shotwell and his family	June 13, 1850	November 10, 1939 ?
Tract VIII –		
Tract I – Henry C. Little and Bruce L. Little	Unknown	August 1, 1944
Tract II – Conveyed via Final Judgment	Unknown	January 28, 1948
Tract III – Henry C. Little and Bruce L. Little	Unknown - some lots; others on January 23, May 7 & 8, September 16, 1938	August 5, 1964
Tract IV – Henry C. Little and Bruce L. Little	Unknown	August 1, 1944
Tract V – Communipaw Central Land Co.	Unknown	June 10, 1940
Tract VI – Henry C. Little and Bruce L. Little	Unknown	October 23, 1945
Tract VII – Harray A. Bostrom & Ruth L. Bostrom	November 10, 1939 ?	December 7, 1962
Tract VIII – Richfield Realty Corporation	Unknown	January 22, 1943
Tract I – American Cyanamid Corporation	August 1, 1944	December 7, 1993
Tract II – American Cyanamid Corporation	January 28, 1948	December 7, 1993
Tract III – American Cyanamid Corporation	August 5, 1964	December 7, 1993
Tract IV – American Cyanamid Corporation	August 1, 1944	December 7, 1993
Tract V – American Cyanamid Corporation	June 10, 1940	December 7, 1993
Tract VI – American Cyanamid Corporation	October 23, 1945	December 7, 1993

APPENDIX 1
TABLE 1 - HISTORY OF OWNERSHIP (Cont.)
AMERICAN-CYANAMID/CYTEC IMPOUNDMENTS
BLOCK 9.03, LOT 21; BLOCK 10, LOTS 8-10 & 12-21;
BLOCK 11.01, LOTS 8, 10-14 & 28
CARTERET, NEW JERSEY
SESI PROJECT # 6747

Name of Property Owner/Operator	From	To
Tract VII – American Cyanamid Corporation	December 7, 1962	December 7, 1993
Tract VIII – American Cyanamid Corporation	January 22, 1943	December 7, 1993
Cytec Industries Inc.	December 7, 1993	August 19,1999
Carteret Development, LLC.	August 19, 1999	Present

Tract I – Block 11.01, Lot 28
Tract II –
Tract III – Block 10, Lot 8, 18, 19, 20; Block 11.01 Lot 8, 10 thru 14
Tract IV – Block 10, Lot 17;
Tract V – Block 10, Lot 10
Tract VI –
Tract VII – Block 10 Lot 21
Tract VIII – Block 9.03, Lot 21; Block 10, Lots 9, Lots 12 thru 16

2055 East Rio Salado Parkway, Suite 201
Tempe, Arizona 85281
Phone: (480) 967-6752
Fax Number: (480) 966-9422
Web Site: www.netronline.com

HISTORICAL CHAIN OF TITLE REPORT

PHASE 2 - CYTEC PROPERTY REDEVELOPMENT
PETER J. SICA INDUSTRIAL HWY
CARTERET, NEW JERSEY

Submitted to:

ENVIRONMENTAL DATA RESOURCES, INC.
C/O
SESI CONSULTING ENGINEERS
12A Maple Avenue
Pine Brook, New Jersey 07058
(973) 808-9050

Attention: Suresh Puppala

Project No. N06-5031

Tuesday, August 08, 2006

NETR- Real Estate Research & Information hereby submits the following ASTM historical chain-of-title to the land described below, subject to the leases/miscellaneous shown in Section 2. Title to the estate or interest covered by this report appears to be vested in:

CARTERET DEVELOPMENT, LLC

The following is the current property legal description:

All those certain pieces or parcels of land being Block 9.03, Lot 21; Block 10, Lots 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21; Block 11.01, Lots 8, 10, 11, 12, 13, 14 & 28, lying and situate in the City of Carteret, County of Middlesex and the State of New Jersey.

1. HISTORICAL CHAIN OF TITLE

CHAIN ONE: Conveys Block 9.03, Lot 21.

1. Richfield Realty Corporation acquired title to the property prior to 1940.

2. DEED:

RECORDED:	01-22-1943
GRANTOR:	Richfield Realty Corporation
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1231, Pg 517

3. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

4. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN TWO: Conveys Block 10, Lot 8.

5. FINAL DECREE FOR FORECLOSURE OF TAX CERTIFICATE:
   - RECORDED: 09-16-1938
   - COMPLAINANT: Henry C. Little, et al
   - DEFENDANT: Josephine P. Smith, et als
   - INSTRUMENT: Bk 1139, Pg 132

6. DEED:
   - RECORDED: 08-05-1964
   - GRANTOR: Bruce L. Little and Henry C. Little
   - GRANTEE: American Cyanamid Company
   - INSTRUMENT: Bk 2467, Pg 1126

7. DEED:
   - RECORDED: 12-23-1993
   - GRANTOR: American Cyanamid Company
   - GRANTEE: Cytec Industries, Inc.
   - INSTRUMENT: Bk 4116, Pg 242

8. DEED:
   - RECORDED: 09-15-1999
   - GRANTOR: Cytec Industries, Inc.
   - GRANTEE: Carteret Development, LLC
   - INSTRUMENT: Bk 4683, Pg 326
   - COMMENTS: The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN THREE: Conveys Block 10, Lot 9.

9. Richfield Realty Corporation acquired title to the property prior to 1940.

10. DEED:

RECORDED:	01-22-1943
GRANTOR:	Richfield Realty Corporation
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1231, Pg 517

11. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

12. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN FOUR: Conveys Block 10, Lot 10.

13. DEED:

RECORDED:	06-10-1940
GRANTOR:	Communipaw Central land Company
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1171, Pg 177

14. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

15. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN FIVE: Conveys Block 10, Lot 12.

16. Richfield Realty Corporation acquired title to the property prior to 1940.

17. DEED:

RECORDED:	01-22-1943
GRANTOR:	Richfield Realty Corporation
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1231, Pg 517

18. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

19. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN SIX: Conveys Block 10, Lot 13.

20. Richfield Realty Corporation acquired title to the property prior to 1940.

21. DEED:

RECORDED:	01-22-1943
GRANTOR:	Richfield Realty Corporation
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1231, Pg 517

22. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

23. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN SEVEN: Conveys Block 10, Lot 14.

24. Richfield Realty Corporation acquired title to the property prior to 1940.

25. DEED:

RECORDED:	01-22-1943
GRANTOR:	Richfield Realty Corporation
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1231, Pg 517

26. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

27. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326

CHAIN EIGHT: Conveys Block 10, Lot 15.

28. Richfield Realty Corporation acquired title to the property prior to 1940.

29. DEED:

RECORDED:	01-22-1943
GRANTOR:	Richfield Realty Corporation
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1231, Pg 517

30. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

31. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN NINE: Conveys Block 10, Lot 16.

32. Richfield Realty Corporation acquired title to the property prior to 1940.

33. DEED:

RECORDED:	01-22-1943
GRANTOR:	Richfield Realty Corporation
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1231, Pg 517

34. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

35. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN TEN: Conveys Block 10, Lot 17.

36. Henry C. Little acquired title to the property prior to 1940.

37. DEED:

RECORDED:	08-01-1944
GRANTOR:	Henry C. Little and Bruce L. Little
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1263, Pg 306

38. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

39. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN ELEVEN: Conveys Block 10, Lot 18.

40. FINAL DECREE FOR FORECLOSURE OF TAX CERTIFICATE:
    - RECORDED: 05-08-1938
    - COMPLAINANT: Henry C. Little
    - DEFENDANT: Peter Craig, et als
    - INSTRUMENT: Bk 1169, Pg 188

41. DEED:
    - RECORDED: 08-05-1964
    - GRANTOR: Bruce L. Little and Henry C. Little
    - GRANTEE: American Cyanamid Company
    - INSTRUMENT: Bk 2467, Pg 1126

42. DEED:
    - RECORDED: 12-23-1993
    - GRANTOR: American Cyanamid Company
    - GRANTEE: Cytec Industries, Inc.
    - INSTRUMENT: Bk 4116, Pg 242

43. DEED:
    - RECORDED: 09-15-1999
    - GRANTOR: Cytec Industries, Inc.
    - GRANTEE: Carteret Development, LLC
    - INSTRUMENT: Bk 4683, Pg 326
    - COMMENTS: The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN TEWLVE: Conveys Block 10, Lot 19.

44. FINAL DECREE FOR FORECLOSURE OF TAX CERTIFICATE:
    RECORDED: 05-07-1940
    COMPLAINANT: Henry C. Little
    DEFENDANT: William Dockwra, et als
    INSTRUMENT: Bk 1170, Pg 485

45. DEED:
    RECORDED: 08-05-1964
    GRANTOR: Bruce L. Little and Henry C. Little
    GRANTEE: American Cyanamid Company
    INSTRUMENT: Bk 2467, Pg 1126

46. DEED:
    RECORDED: 12-23-1993
    GRANTOR: American Cyanamid Company
    GRANTEE: Cytec Industries, Inc.
    INSTRUMENT: Bk 4116, Pg 242

47. DEED:
    RECORDED: 09-15-1999
    GRANTOR: Cytec Industries, Inc.
    GRANTEE: Carteret Development, LLC
    INSTRUMENT: Bk 4683, Pg 326
    COMMENTS: The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN THIRTEEN: Conveys Block 10, Lot 20.

48. FINAL DECREE FOR FORECLOSURE OF TAX CERTIFICATE:
    - RECORDED: 01-23-1938
    - COMPLAINANT: Henry C. Little
    - DEFENDANT: William R. Janeway, et als
    - INSTRUMENT: Bk 1162, Pg 539

49. DEED:
    - RECORDED: 08-05-1964
    - GRANTOR: Bruce L. Little and Henry C Little
    - GRANTEE: American Cyanamid Company
    - INSTRUMENT: Bk 2467, Pg 1126

50. DEED:
    - RECORDED: 12-23-1993
    - GRANTOR: American Cyanamid Company
    - GRANTEE: Cytec Industries, Inc.
    - INSTRUMENT: Bk 4116, Pg 242

51. DEED:
    - RECORDED: 09-15-1999
    - GRANTOR: Cytec Industries, Inc.
    - GRANTEE: Carteret Development, LLC
    - INSTRUMENT: Bk 4683, Pg 326
    - COMMENTS: The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN FOURTEEN: Conveys Block 10, Lot 21.

52. DEED:

RECORDED:	06-13-1850
GRANTOR:	Isaac Moore and Hanna Moore, his wife
GRANTEE:	Abraham F. Shotwell
INSTRUMENT:	Bk 74, Pg 325
COMMENTS:	Abraham F. Shotwell died, leaving the subject property to Mary J. Shotwell, his wife. Mary J. Shotwell died in January 1906, leaving the subject property to each of her daughters Emily A. Shotwell (as to 20% interest), Annie Shotwell (as to 20% interest), and Mary W. Shotwell (as to 20% interest); and Emily A. Shotwell, in trust for the benefit of her daughter Margaret F. Shotwell (as to 40% interest). Emily Shotwell died on April 6, 1936 leaving her 20% interest to her sisters Mary W. Shotwell (10% interest) and Annie Shotwell (10% interest). Annie Shotwell died on September 12, 1936 leaving her 30% interest to her sister Mary W. Shotwell (15% interest) and her brother Frederic C. Shotwell (15% interest). Mary W. Shotwell died on February 21, 1939 leaving her 45% interest in the subject property to her brother Frederic C. Shotwell (22.5% interest) and Frederic C. Shotwell, in trust for the benefit of her sister Margaret F. Shotwell (22.5% interet).

53. DEED:

RECORDED:	12-07-1962
GRANTOR:	Harry A. Bostrom and Ruth L. Bostrom, his wife
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 2379, Pg 529
COMMENTS:	No conveyance was found transferring fee title ownership to Harry A. Bostrom and Ruth L. Bostrom.

54. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

55. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN FIFTEEN: Conveys Block 11.01, Lot 8.

56. Bruce L. Little and Henry C. Little acquired title to the property prior to 1940.

57. DEED:

RECORDED:	08-05-1964
GRANTOR:	Bruce L. Little and Henry C. Little
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 2467, Pg 1126

58. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

59. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN SIXTEEN: Conveys Block 11.01, Lot 10.

60. Bruce L. Little and Henry C. Little acquired title to the property prior to 1940.

61. DEED:

RECORDED:	08-05-1964
GRANTOR:	Bruce L. Little and Henry C. Little
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 2467, Pg 1126

62. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

63. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN SEVENTEEN: Conveys Block 11.01, Lot 11.

64. Bruce L. Little and Henry C. Little acquired title to the property prior to 1940.

65. DEED:

RECORDED:	08-05-1964
GRANTOR:	Bruce L. Little and Henry C. Little
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 2467, Pg 1126

66. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

67. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN EIGHTEEN: Conveys Block 11.01, Lot 12.

68. Bruce L. Little and Henry C. Little acquired title to the property prior to 1940.

69. DEED:

RECORDED:	08-05-1964
GRANTOR:	Bruce L. Little and Henry C. Little
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 2467, Pg 1126

70. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

71. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN NINETEEN: Conveys Block 11.01, Lot 13.

72. Bruce L. Little and Henry C. Little acquired title to the property prior to 1940.

73. DEED:

RECORDED:	08-05-1964
GRANTOR:	Bruce L. Little and Henry C. Little
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 2467, Pg 1126

74. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

75. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN TWENTY: Conveys Block 11.01, Lot 14.

76. Bruce L. Little and Henry C. Little acquired title to the property prior to 1940.

77. DEED:

RECORDED:	08-05-1964
GRANTOR:	Bruce L. Little and Henry C. Little
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 2467, Pg 1126

78. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

79. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

CHAIN TWENTY-ONE: Conveys Block 11.01, Lot 28.

80. Bruce L. Little and Henry C. Little acquired title to the property prior to 1940.

81. DEED:

RECORDED:	08-01-1944
GRANTOR:	Henry C. Little and Bruce L. Little
GRANTEE:	American Cyanamid Company
INSTRUMENT:	Bk 1263, Pg 301

82. DEED:

RECORDED:	12-23-1993
GRANTOR:	American Cyanamid Company
GRANTEE:	Cytec Industries, Inc.
INSTRUMENT:	Bk 4116, Pg 242

83. DEED:

RECORDED:	09-15-1999
GRANTOR:	Cytec Industries, Inc.
GRANTEE:	Carteret Development, LLC
INSTRUMENT:	Bk 4683, Pg 326
COMMENTS:	The Grantee takes the property subject to the terms and conditions of a certain Administrative Consent Order dated 09-08-1990 entitled "In the Matter of The American Cyanamid Warners Plant Site and American Cyanamid Company (the "ACO"), which was amended to include the subject property herein by the Amendment to the ACO dated 08-05-1993. The ACO, as amended, was recorded in the Middlesex County Clerk's Office on 12-15-1993 and was designated as Instrument No. 17812. The Grantee herein agrees to assume all of the Grantor's obligations under the ACO and agrees to allow and provide access for the implementation, continuation and oversight of all activities and obligations pursuant to the ACO. The Grantee takes the property subject to any use or access restrictions that the New Jersey Department of Environmental Protection deems necessary to impose pursuant to Paragraph 93 of the ACO.

2. LEASES AND MISCELLANEOUS

1. ADMINISTRATIVE CONSENT ORDER:

RECORDED:	12-15-1993
1st PARTY:	State of New Jersey, Department of Environmental Protection and Energy
2nd PARTY:	American Cyanamid Company
INSTRUMENT:	Bk 4114, Pg 25

3. LIMITATION

This report was prepared for the use of Environmental Data Resources, Inc., and SESI Consulting Engineers, exclusively. This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. NETR- Real Estate Research & Information does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

APPENDIX 2

APPENDIX 2

SITE HISTORY

SITE HISTORY

America Cyanamid Corporation (ACC) owned and operated a chemical manufacturing plant, known as the Warner Plant, located on Tremley Point at the confluence of the Rahway River with the Arthur Kill in Linden, New Jersey, from 1917 to 1998. ACC also owned approximately 100 acres of land across the Rahway River from the Warner Plant in Carteret Borough, New Jersey. ACC used approximately 120 acres of this land to construct six bermed impoundments located on 21 lots on three tax map blocks in Carteret, Middlesex County, New Jersey (Block 9.03, Lot 21; Block 10, Lots 8, 9, 10, and 12 through 21; and Block 11.01, Lots 8, 10 through 14, and 28). A plan depicting these blocks and lots, prepared by Keller & Kirkpatrick of Parsippany, New Jersey is included as Figure 2 (Sheets 1 thru 3) – ALTA/ACSM Land Title Survey.

The impoundments were constructed with both earthen and wooden dikes and were used to manage the sludge residues generated from the production of alum and yellow prussiate of soda (YPS). The production of YPS (used as a salt additive among other uses) involved the reaction of calcium cyanide, ferrous sulfate and soda ash. The sludge produced from the process was composed mainly of calcium carbonate and calcium sulfate. The production of alum, a commonly used wastewater treatment chemical, involved the digestion of bauxite ore with sulfuric acid. The sludge generated from the alum production consisted primarily of silica and water and was referred to as "alum mud." The two sludges were often mixed together and pumped via piping from the Warners Plant to the south side of Rahway River into the six impoundments where the solids settled.

The impoundments were operated from the 1930's to 1974, and deposition of YPS and alum mud was ceased in 1970 and 1974, respectively. Approximately 1.5 to 2 million tons of sludgewas placed in the impoundments during the time they were in operation. The size and capacity of each of the impoundments varies, as does the thickness of the residue.

In August 1986, ACC was issued a New Jersey Pollutant Discharge Elimination System - Discharge to Ground Water (NJDEPS-DGW) Permit No. NJ0061611 for the Carteret impoundments. ACC challenged several conditions of the permit, which resulted in the execution of an Administrative Consent Order (ACO) between the NJDEP ACC in 1990. The ACO required ACC to investigate and remediate potential contamination at the Warner Plant. On August 5, 1993, the original ACO was amended, requiring ACC to evaluate the potential for contamination at the six Carteret impoundments. In December 1993, the property ownership was transferred to Cytec and in June 1998, the Warner plant ceased all manufacturing operations. A summary of the various activities/events associated with the management of the impoundments is included as Table 2 in Appendix 2.

SITE CONDITIONS

Geology

There have been at least four subsurface investigations performed at the site from 1981 to 1997. Refer to Figure 4, the *Historical Geotechnical Data* plan, that depicts all known historical borings, wells, soil logs, and test areas on the property. Also refer to Figure 5, the *Historical Geologic Cross Sections* plan, which is a compilation of historical boring logs and geologic cross sections that were found during the file reviews. In summary the site subsurface conditions, from the top down, consist of the following:

Residue sludge and soil fill.
Native, alluvial, soft, peat (meadow mat) and organic clay.
Native, alluvial and glacial, clay, silt, sand, and gravel soils.
Weathered siltstone/shale bedrock.
Hard siltstone/shale bedrock.

The residue sludge layer consists of very soft alum and YPS sludge contained within the six site impoundments by a system of structural perimeter berms. The range in thickness of the sludge is as follows:

Impoundment #1	7 to 8-feet
Impoundment #2	5 to 7-feet
Impoundment #3	6 to 10-feet
Impoundment #4	13 to 21-feet
Impoundment #5	6 to 19-feet
Impoundment #6	15 to 18-feet

The thickness of the sludge is variable, and may decrease near the containment berms. Also, historical documents indicate some sludge exists outside of the containment berms. The residue sludge is very soft, saturated, and compressible. Tests performed on this sludge (BBL, 1999) indicate that it has low to no plasticity, and that it is highly sensitive. "While the material may initially appear to be firm, disturbance will cause the material to behave like a highly viscous liquid". The sludge has an undrained shear strength of 255 to 944 pounds per square foot (BBL, 1999).

Testing of 12 sludge samples from near the surface of the impoundments (M. Disko Associates, 1981) indicates it has a permeability of 1x10-4 to 8x10-6 centimeters/second, and a field density of 36 to 82 pounds per cubic foot. The permeability should decrease with depth and the density should increase with depth, as the deeper sludge has been compressed by self-weight.

The structural berms consist of clay, sand, and gravel, that was presumably placed to contain the sludge from flowing into the Rahway River. The depth of the berms is not known, although it is reported (BBL, 1999) that the berms may have been constructed directly on the peat layer. Some of the boring logs, however, indicate that a layer of sludge was encountered beneath the berms. The structural stability of the berms is not known.

Beneath the residue sludge and soil fill, a soft, compressible stratum of native peat (meadow mat) exists – this is a recent deposit of decomposed vegetation mixed with organic clay and silt, deposited by the Rahway River. Beneath the peat, a stratum of soft organic clay exists – this is also a recent river deposit. This stratum is thickest towards the Rahway River, and decreases in thickness away from the River. Some of the borings indicate that the combined thickness of these strata are as great as 20 feet near the river.

Beneath the peat and organic clays, the native soils consist of a mixture of alluvial and glacial clay, silt, sand, and gravel. Bedrock was encountered at depths typically between 30 and 40 feet below grade. The bedrock is red-brown siltstone/shale has a weathered surface layer.

Hydrogeology

A review of the investigations completed to date indicates that the groundwater at the site exists

within a shallow, unconfined aquifer and a deep semi-confined bedrock aquifer. A total of eight (8) monitoring well pairs were installed at the site as part of the NJPDES - DGW Permit No. NJ0061611. The wells were installed to monitor the groundwater quality within the shallow and deep groundwater zones. The depths of the shallow monitoring wells ranged from 23 to 28 feet below grade (ft-bg) (approximately -12 to -23 feet mean sea level, ft-msl), and the depths of the deep monitoring wells ranged from 40 to 63 ft-bg (approximately –31 to -87 ft-msl).

During the last groundwater monitoring well sampling event (BBL, June 1999), the elevation of the groundwater within the shallow overburden wells varied from 1.97 to 3.78 ft-msl. The elevation of the groundwater within the deep overburden wells varied from 1.94 to 3.89 ft-msl. The groundwater elevation difference between the shallow and deep wells in each pair was minimal. A small, upward, vertical gradient existed at four of the well clusters, and a small downward gradient existed at the other four wells.

Shallow groundwater is reportedly mounded beneath the impoundments and flows radially outward from the central area of the impoundments and discharges into surrounding surface water. Deep groundwater flow is generally to the north or northeast where it also discharges to the surrounding surface water (the Rahway River and the Arthur Kill).

REMEDIAL ACTIONS TAKEN

The remedial actions taken at the Carteret Impoundments included re-vegetation of the impoundments, a five-year monitoring program for ground water and surface water, and a Declaration of Environmental Restriction (DER).

Re-Vegetation Activities

In April 1978, the New Jersey Superior Court issued an Amended ACO that, among other items, required ACC to initiate a program to establish suitable vegetation within the impoundments. The re-vegetation was required by the NJDEP as a way to prevent soil erosion in the abandoned alum mud impoundments and to minimize wind erosion of the dried surface sediment, which had blown across the New Jersey Turnpike and interrupted traffic on several occasions. In 1981 ACC began a study of methods for re-vegetating and stabilizing the sludge. Since the sludge was deficient of several essential nutrients, composted sewage sludge from Camden and Philadelphia was utilized as a base for vegetative growth. ACC began vegetating in 1986, and by 1989 all impoundments had undergone re-vegetation efforts.

1995 Remedial Action Plan Addendum (RAPA)

In 1995 Cytec Industries proposed a ground water and surface water sampling program at the Carteret Impoundments for a period of five-years. The ground water and surface water sampling was conducted in accordance with the monitoring program proposed in Section 5 of the RAPA as modified by NJDEP's February 6, 1995 letter to Cytec (Appendix F). The monitoring plan conducted at the site during the first five-years included: sampling of ground water and surface water semi-annually for the first two years, and annually for the last three years. The surface and ground water sampling included analyses for volatile organic compounds (VOCs) and inorganic constituents (aluminum, arsenic, total and free cyanide, iron, manganese, silver, and thallium).

In addition to the ground water and surface water sampling, the remedial program at the Carteret Impoundments included the establishment of a Declaration of Environmental Restriction (DER) on the property. Note that the current NJDEP terminology for a DER is a

"Deed Notice" (DN). The DN required Cytec to maintain continuous management of the residuals already impounded and continued maintenance/monitoring activities of the impoundment berms and soil/water covers. The DN imposed restrictions on site access requiring Cytec to post signs along the frontage of the Rahway River and the Arthur Kill to prevent trespassing. The DN also provided that no alteration, improvement, or disturbance in, to, or about the impoundments could be made, which could create an unacceptable risk to humans or other receptors from exposure to impounded residue.

CONTAMINANT SITE ASSESSMENT

Impoundment Residue

The sludge in the impoundments was tested on several occasions. Overall, the results showed concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), poly-chlorinated biphenyls (PCBs), and pesticides below the NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC). Two sludge samples collected in Impoundment #3 in 1981 and one sludge sample collected in Impoundment #4 in 1991 exhibited concentrations of cyanide ranging between 2,198 mg/Kg and 1,020 mg/Kg (the NJDEP RDCSCC for cyanide being 1,100 mg/Kg). Repeated analyses performed on the residue since the 1950's have shown a chemical composition of inorganic ions and salts characteristic of alum and YPS. The residue constituents are mainly gypsum, calcium carbonate, aluminum oxide, silica, sulfate, and sodium. It was reported by Blasland, Bouck and Lee (BBL) of Cranbury, New Jersey that testing of the residue demonstrated that it is not a RCRA hazardous waste.

Cyanide was detected in some samples of the residue sludge. The form of cyanide has not been fully quantified, and it is possible that some forms could convert to free cyanide in the presence of sunlight (ultraviolet light), or when subjected to acidic conditions. The amount and type of cyanide forms present in the sludge and their potential adverse effect on the site redevelopment (that may involve relocation of large quantities of the residue sludge) has not been evaluated.

Groundwater

The groundwater at the Carteret Impoundment site is classified as non-potable and is tidally affected by the Rahway River and the Arthur Kill. Therefore, the Class II-B Ground Water Quality Criteria (GWQC) were not applied, and site-specific Class III-B GWQC were developed in accordance with NJAC 7:9-6.7(f).

Originally, ten monitoring wells (5 well pairs, each pair consisting of 1 shallow and 1 deep monitoring well) were installed per NJDEPS-DGW Permit No. NJ0061611. Three additional monitoring well pairs (3 shallow and 3 deep wells) were subsequently installed as part of the remedial action monitoring program proposed in the 1995 RAPA. The 8 shallow and 8 deep well were installed as 8 well pairs. The location of these well are depicted on Figure 2. Between 1995 and 1999, ground water monitoring was performed at the 8 shallow/deep monitoring well pairs located in and around the 6 impoundments. The results of the monitoring reportedly did not exceed the Class III-B site specific GWQC.

Organic compounds were detected in monitoring well CRT-1S located up-gradient of the Carteret Impoundments. Prior to the installation of the well in the area of CRT-1S, refuse had been improperly placed by operators of an industrial salvage yard located immediately to the west of the Carteret Impoundments. Potential impacts to groundwater quality, resulting from

leaching of inorganic residues contained in the Carteret Impoundments, included constituents used in alum and YPS production: aluminum, calcium, sodium, iron, cyanide, carbonate, and sulfate. The elevated levels of chloride, sulfate, and total dissolved solids (TDS) detected in all of the shallow ground water samples were attributed to saline water intrusion from the Rahway River.

Cyanide was detected in shallow wells CRT-1S, CRT-2S, CRT-3S, CRT-4S, CRT-5S, and deep wells CRT-4D and CRT-5D. However, the levels of free cyanide detected in the wells were two orders of magnitude below the site specific Class III-B GWQC of 6mg/l.

In 1999, at the end of the proposed 5-year groundwater monitoring program, the NJDEP allowed Cytec to terminate the ground water monitoring at the Carteret Impoundments based on a trend analysis presented in the 1999 annual report and monitoring data that consistently indicated concentrations of constituents below the site specific GWQC. In October 2000 the NJDEP determined that a Classification Exception Area (CEA) was not required because of the site Class III-B ground water classification and also because there were no site-related contaminants that exceeded the Class III-B site-specific GWQC.

Surface Water

In accordance with the 1995 RAPA, surface water sampling was performed adjacent to Impoundment # 1 at locations designated SW-1, SW-2, and SW-3. The analytical results of the surface water samples were compared to Saline Estuaries 3/Surface Water Quality Criteria (SE3/SWQC). Water quality analyses at all three sampling locations indicated that concentrations of chloride, sulfate, and TDS progressively increased in the direction of the junction of Deep Creek with the Rahway River. The presence of these constituents is most likely attributable to the influx of saline water from the tidal Rahway River.

Surface water samples, were analyzed for VOCs, metals, and total and free cyanide. VOCs were not detected in any of the surface water samples. Trace metals and inorganics, including aluminum, barium, calcium, total cyanide, iron, magnesium, potassium and sodium, were detected. However, manganese was the only constituent that exceeded the criterion for human health per the SE3/SWQC.

In 1999 the NJDEP declined Cytec's petition to discontinue the monitoring of the surface water, due to elevated levels of manganese. Cytec performed additional surface water monitoring at two locations (SW-2 and SW-3) and, after demonstrating that manganese levels were below the SE3/SWQC for two consecutive events, received NJDEP approval to terminate the surface water sampling analysis program in September of 2002.

It should be noted that the NJDEP approval for termination of the sampling was based on the levels of "free" cyanide detected in the groundwater and surface water samples. The possibility of other cyanides (that were captured in the total cyanide analysis) contributing to the toxicity of the discharges from the impoundments was not evaluated (YPS is known to convert into free-cyanide in the presence of sunlight or when subjected to acidic conditions).

TABLE 2 - SUMMARY OF SITE HISTORY
AMERICAN-CYANAMID/CYTEC IMPOUNDMENTS
BLOCK 9.03, LOT 21; BLOCK 10, LOTS 8-10 & 12-21;
BLOCK 11.01, LOTS 8, 10-14 & 28
CARTERET, NEW JERSEY
SESI PROJECT # 6747

DATE	ACTIVITY/EVENT
1930/1939? – 1974/1973?	Six (6) impoundments, a total of about 85 acres (located on a property that is about 120 acres), were constructed to store sludge, generated by American Cyanamid Company's, Warners Plant, located in Linden, New Jersey. The impoundments currently contain an estimated 2 million tons of sludge. The sludge is primarily residue associated with manufacturing yellow prussiate of soda (sodium ferrocyanate) and alum (aluminum sulfate).
Late 1950s	Analytical results of samples collected from Impoundments #1 and #2 indicate that the sludge is composed mostly of calcium sulfate (90%) and calcium carbonate (2-3%).
1974	Analytical results indicated that the alum production residue was composed mostly of aluminum oxide (34% – 43%), silica (33% – 40%), sulfates (12% - 17%) and sodium (7% - 9%).
1978	NJDEP issued an Administrative Consent Order (ACO)
November 16, 1979	Dames & Moore prepared a report titled, *Preliminary Study – Revegetation of Sludge Impounds*. As a part of the study soil samples were collected from six (6) locations on the site. The samples were analyzed for various parameters. Concentration of cyanides was reported as ranging between 150 mg/Kg and 1,220 mg/Kg.
May 1981	Toxicological studies were completed to evaluate the effect of the sludge on rats (oral) and rabbits (dermal). Results of the study showed that the sludge was non-toxic. Complex cyanides were detected at concentrations as high as 3,500 mg/Kg in shallow sludge samples.
1981	NJDOT collected 6 samples, two (2) each from Impoundments #1, #2 and #3. Analytical results of the samples indicated that VOCs, PCBs and pesticides were not detected at concentrations above the method detection limits. Chromium, copper, lead, manganese and zinc were reportedly detected at concentrations that did not exceed the background concentrations. Cyanide (75% of which is reported to be present as insoluble complexes) was detected at concentrations that ranged between 622 mg/Kg and 2,374 mg/Kg.
June 1981	M.Disko Associates, of Union, New Jersey (MDA), prepared a report titled, *Investigation Into the Permeability of Sludge Impoundments at the Warner's Plant*. A total of twelve (12) sludge samples were collected from depths of about 2 feet below grade. The density and permeability of the sludge

DATE	ACTIVITY/EVENT
June 1981	samples varied between 36 – 82 lbs/ft^3 and $1x10^{-4}$ – $8x10^{-6}$ cm/sec, respectively. The pore water extracted from the sludge samples was observed to be greenish-yellow in color. Groundwater was encountered at relatively shallow depths (about 1 to 2 feet below grade) in Impoundment #1, #2, #3 and at relatively greater depths in the remaining three impoundments. All of the impoundments with the exception of Impoundment #1 were completely lacking vegetation.
September 1981	M.Disko Associates, of Union, New Jersey (MDA) submitted a report titled, *Preliminary Report of Soil Borings and Measurement of Permeabilities at the Warner's Plant Impounds.*
January 1982	MDA submitted a report titled, *Preliminary Report of Test Borings and Dike Evaluation at the Warner's Plant Impounds.*
1983	Composite samples were collected from Impoundments #1, #2 and #3. The samples were reportedly analyzed for RCRA characteristics.
May 16, 1986	Hydrosystems collected sludge samples and associated pore water from five (5) boring locations. The samples were analyzed for total and free cyanide, extractable metals (EP toxicity) and pH of sludge pore water. Concentrations in the sludge samples for free cyanide ranged between 9 mg/Kg - 103 mg/Kg, total cyanide ranged between 433 mg/Kg - 3,660 mg/Kg. Concentrations of total cyanide in the pore water samples ranged between 0.37 mg/L - 124 mg/L, free cyanide concentrations ranged between 0.012 mg/L – 2.4 mg/L and pH values ranged between 7 – 8.
1986	Composite samples were collected from Impoundments #2, #3, #4, #5 and #6. The samples were reportedly analyzed for RCRA characteristics.
August 18, 1986	NJPDES Permit (# NJ0061611) was issued to monitor groundwater quality.
October 1986	Surface water samples were collected from the Rahway River at locations upstream/downstream of the impoundments and at the mouth of Marsh Creek and Cross Creek. The surface water samples were analyzed for total and free cyanide.
1986 – 1987	Vegetation of Impoundment #4 and #5 was completed using composted sewage sludge from Camden and Philadelphia.
1987	Removal actions, in the vicinity of monitoring wells MW-1S and MW-1D, were completed. The removal actions were associated with salvage operations of Industrial Reclamation Service.
1987	In response to NJPDES permit requirements, a total of ten (10) monitoring wells were installed outside the impoundments. The wells were installed in five (5) clusters, with two (2) monitoring wells in each cluster (one shallow and one deep monitoring well).
July 1987 – July 1992	Groundwater samples were collected from the monitoring wells quarterly (a total of 22 events). The samples were analyzed for

DATE	ACTIVITY/EVENT
	a combination of VOCs, SVOCs, pesticides, metals, cyanide and other inorganic compounds.
1987	Access roads were constructed using materials (mainly crushed concrete and terrra-cotta pipes) generated from the demolition of two buildings in the Linden Plant. The access roads were constructed to facilitate installation of monitoring wells and revegetation activities.
January 6, 1988	The ACO was amended in accordance with various discussions between ACC and NJDEP. The ACO included site-specific groundwater quality standards. The carcinogenic compounds were designated as Group A and the corrective action criteria for these compounds was 5 ug/L. The corrective action criteria for total volatile organic compounds (which included compounds in Groups A, B-1 and B-2) was set at 50 ug/L.
1988 – 1989	Activities to vegetate Impoundment #3 and #6 using composted sewage sludge was initiated.
March 10, 1989	Report titled *Environmental Assessment of the Carteret Impoundments*, was prepared by Hydrosystems, Inc., of Dunn Loring, VA.
February 6, 1990	NJPDES discharge to groundwater permit withdrawn.
September 5, 1990	ACC and NJDEP signed an Administrative Consent Order.
1991	NJDEP collected 10 samples from the impoundments. The samples were analyzed for VOCs, SVOCs, PCBs, pesticides and metals. The analytical results indicated that benzo(a)pyrene (1.8 mg/Kg) was present in the sample collected from Impoundment #3 at concentrations that exceeded the applicable NJDEP Soil Cleanup Criteria (SCC). In addition elevated levels of cyanide (1,020 mg/Kg), aluminum, calcium, magnesium, sodium and iron were detected.
Circa June1992	*Site Inspection* report, prepared by NJDEPE. The report summarized the various investigations and results associated with the site.
August 5, 1993	Amendment to ACO to include investigation of the impoundments.
December 1993	Ownership transfer to Cytec Industries Inc.
February 22, 1994	NJDEP comments on the RIWP.
April 21, 1994	*Remedial Action Plan* submitted to NJDEP.
June 22 & 28, 1994	Groundwater monitoring well clusters CRT-6, CRT-7 and CRT-8 were installed.
November 1994	*Remedial Action Plan Addendum* was submitted to the NJDEP (revised in February 2005).
February 6, 1995	NJDEP approved the *Remedial Action Plan Addendum*.
March 13, 1998	NJDEP issued the wetlands Letter of Interpretation (LOI).
October 28, 1999	BBL submitted a Riparian/Tidelands Grant Application to the NJDEP. The application requested NJDEP to lease/grant tidelands that were back-filled historically to construct the impoundments.

DATE	ACTIVITY/EVENT
November 1999	Blasland, Bouck & Lee (BBL), of Cranberry, New Jersey, prepared a report titled *Environmental Impact Statement.* The report evaluated issues associated with the Coastal Area Facilities Review Act (CAFRA), if the property was utilized as a disposal site for stabilized dredge materials. The report concluded that "no significant or long-term adverse effect to the environment ...are anticipated from the proposed activities."
November 1999	BBL prepared a *Basis of Design Report.* The report discussed the general fill placement operations, stromwater and geotechnical design issues, if the site was to be utilized for disposal of processed dredge material. The geotechnical design was based on reported undrained shear strength values of the sludge ranging between 255 psf – 944 psf. Settlements in the range of 1.5 feet – 4.5 feet were reportedly possible when dredge material is placed to heights ranging between 30 feet – 80 feet within the impoundments.
October 2000	The Classification Exception Area associated with the site was removed.
September 2002	Surface water sampling requirement rescinded.
September 24, 2002	NJDEP issued a No Further Action Letter.
February 13, 2003	BBL submitted an application for extension of the wetlands LOI to the NJDEP.
October 2003	BBL prepared a *Waterfront Development/Coastal Wetlands Permit Application* for repairing a steel bridge, repairing a breach at the northern end of Impoundment #4 and improving the access road around Impoundment #4.
February 18, 2004	NJDEP issued a *Waterfront Redevelopment Permit* to repair a bridge and the berm along Impoundment #4.
January 2005	BBL prepared a *Waterfront Development Permit Application* for geotechnical evaluation at locations within Impoundments #2 and #3. The test area within each impoundment was proposed to be surcharged with fill (200 ft L x 220 ft W x 15 ft H).

APPENDIX 3A

APPENDIX 3A

LIST OF RESOURCES UTILIZED TO COMPILE SITE HISTORY

APPENDIX 3A
SELLER'S MATERIALS FORWARDED TO FARER FERSKO
AMERICAN-CYANAMID/CYTEC IMPOUNDMENTS
BLOCK 9.03, LOT 21; BLOCK 10, LOTS 8-10 & 12-21;
BLOCK 11.01, LOTS 8, 10-14 & 28
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	Title/Subject	Author	Recipient	Date
Reports				
1.	Sludge Report, Analysis	Jersey Testing Laboratories Inc.	Borough of Carteret, NJ	February 12, 1959
2.	Toxicity Data – CYANOGAS G-FUMIGANT	American Cyanamid	American Cyanamid	December 21, 1967
3.	Preliminary Study Revegetation of Sludge Impounds	Dames & Moore	Gerald Friedman-American Cyanamid Company	November 16, 1979
4.	Plan for Test Plot Development, Seeding and Growth Monitoring Revegetation of Sludge Impounds	Dames & Moore	American Cyanamid Company	April 1981
5.	Plan for Test Plot Development, Seeding and Growth Monitoring Revegetation of Sludge Impounds	Dames & Moore	American Cyanamid Company	May 1981
6.	Investigation into the Premeability of Sludge Impounds at the Warners Plant	M. Disko Associates Union, NJ	Gerald Friedman, ACCO	June 8, 1981
7.	Preliminary Report of Soil Borings and Measurement of Permeabilities at the Warner's Plant Impounds	M. Disko Associates	Michael Caponegro American Cyanamid Company	September 1981
8.	Phase II Test Plot Results and Revegatation Recommendations	Dames & Moore	American Cyanamid Company	December 1981
9.	Preliminary Report of Test Borings and Dike Evaluation at the Warner's Plant Impounds	M. Disko Associates	American Cyanamid Company	January 1982
10. *	Map showing sampling locations in Rahway River w/analytical data	Hydrosystems, Lyle R. Silka	Daniel Callahan, ACCO	November 21, 1986
11.	Groundwater and Surface Water Assessment, Carteret Impounds	Hydrosystems, Lyle R. Silka Sr. Hydrogeologist	Margaret Tribble, American Cyanamid	February 9, 1987

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	Title/Subject	Author	Recipient	Date
12.	Environmental Assessment of the Carteret Impoundments, America Cyanamid, Linden NJ	Hydrosystems, Inc., Dunn Loring VA 22027	Margaret Tribble, American Cyanamid	June 3, 1988
13.	Soil Erosion and Sediment Control Plan for Vegetation and Maintenance of containment Berms at the American Cyanamid, Carteret Facility, Phase III, 1989 (large map attached)	John DiPalma, ACCO, Technical Manager	Freehold Soil Conservation District	January 10, 1989
14.	Environmental Assessment of the Carteret Impoundments	Lyle R. Silka Hydrosystems, Inc.	Alice Boomhower – Warners Plant – American Cyanamid Company	March 10, 1989
15. *	Chain of Custody from, Lab	Environmental Testing and Certification (ETC)	Alice Boomhower, ACCO	July 11, 1989
16.	Data Management Summary Report w/	Environmental Testing and Certification (ETC)	American Cyanamid	August 16, 1989
17.	Remedial Investigation Work Plan	BBL	Haiyesh Shah – NJDEP; Cytec Industries Inc.	December 1993
18.	Remedial Action Plan Addendum	BBL	Cytec Industries Inc.	November 1994
19.	Remedial Action Plan Addendum	BBL	Cytec Industries Inc.	November 1994 Rev. February 1995
20.	Annual Report Ground-Water & Surface Water Monitoring	BBL	Cytec Industries Inc.	February 1997
21.	Results of June 1997 Ground-Water/Surface Water Sampling Event	BBL	Cytec Industries Inc.	August 1997
22.	Annual Monitoring Report for 1998	BBL	Cytec Industries Inc.	September 1, 1998
23.	Annual Monitoring Report for 1999	BBL	Haiyeh Shah – NJDEP; Cytec Industries Inc.	September 1999
24.	Site Development Information Package	BBL		March 2003
25.	Evaluation of Wetlands Resource value classification	BBL	Cytec Industries Inc.	February 1, 2005

APPENDIX 3A - SELLER'S MATERIALS FORWARDED TO FARER FERSKO (Cont.)
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	Title/Subject	Author	Recipient	Date
Permits/Applications				
26.	NJPDES Permit No. NJ 0061611	Robert Berg, NJDEP	A. Groeller, American Cyanamid	August 28, 1986
27.	NJPDES Permit No. NJ 0061011, Renewal Permit Application (w/o attachments)	R. Tabakin, ACCO	Bureau of Permits, Trenton, NJ	March 30, 1989
28.	New Jersey Freshwater Wetlands Protection Act, Letter of Interpretation	Shisler Environmental Consultants, Inc.	Chris Jones – NJDEP	November 5, 1997
29.	Carteret Development LLC – Carteret Facility – Dredge Material Project – Application for Waterfront Development Permit, Wetland Permit, and Acceptable Use Determination	BBL		November 1999
30.	Freshwater Wetlands Letter of Interpretaton Extension	BBL	Borough of Carteret Municipal Clerks Office; NJDEP	February 2003
31.	Waterfront Development/Coastal Wetlands Permit Application	BBL	NJDEP Land Use Regulation	October 2003
32. *	Land use Regulation Program – Waterfront Development Permits	Allison Giehl, NJDEP	Joel Jerome, Cytec Industries Inc.	February 18, 2004
33.	Draft Waterfront Development Permit Application	BBL		January 2005
Letters from BBL				
34. *	Remediation Plan Implementation, Carteret Impounds	BBL	Joel Jerome, Cytec Industries Inc.	May 20, 1994
35. *	Repair and Maintenance of Impoundment 1 Berm	Michael J. McNally – BBL	Chris Jones – NJDEP	July 22, 1998
36.	Request for No Further Action Letter and Covenant Not to Sue	Kris D. Hallinger – BBL	Haiyesh Shah – NJDEP	September 19, 2002
37.	Meeting notes and follow up from November 15, 2002 meeting re Carteret (note BBL Confidential Work Product) includes maps – Impound cross-section locations	BBL	Joel Jerome, Cytec, Yurchuck, NA Realty, A. Herbert, BBL	November 15, 2002
38.	Pre-Application Meeting Request for Cytec Industries, Inc. Property in Borough of Carteret, Middlesex County, NJ	Alain P. Hebert – BBL	Chris Jones – NJDEP	February 26, 2003

APPENDIX 3A - SELLER'S MATERIALS FORWARDED TO FARER FERSKO (Cont.)
AMERICAN-CYANAMID/CYTEC IMPOUNDMENTS
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	Title/Subject	Author	Recipient	Date
39.	Pre-Application Meeting Request for Cytec Industries, Inc. Property in Borough of Carteret, Middlesex County, NJ	Alain P. Hebert – BBL	Chris Jones – NJDEP	April 2, 2003
40.	Cytec Carteret LOI Extension	Alex B. Francisco – BBL	Alyson Giehl – NJDEP	May 12, 2003
41.	Pre-Application Meeting Request	Alain P. Hebert – BBL	Chris Jones – NJDEP	August 6, 2004
Letters from Cytec/ACCO				
42. *	Erosion control, Revegetation, seagull issue	J.B. Halladay, Plant Manager, ACCO	Francis Cap, Sanitary Inspector	February 26, 1982
43.	NPDES Permit Requirements (reference letter of 2/18/82)	A.A. Groeller, Manager Env. Services, ACCO	John Trela, Chief, Groundwater Permits, NJDEP	June 22, 1982
44.	American Cyanamid Company – Warners Plan Carteret Landfill, NJPDES Permit No. 0061611 – Groundwater Monitoring Wells	Daniel R. Callahan American Cyanamid	George Caporale, NJDEP	November 13, 1987
45.	American Cyanamid Company – Warners Plan Carteret Landfill, NJPDES Permit No. 0061611 – Groundwater Monitoring Wells	Alice E. Boomhower American Cyanamid	George Caporale, NJDEP	December 28,1987
46. *	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	Alice E. Boomhower American Cyanamid	Brenda Jordan, NJDEP	February 25, 1988
47.	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	Alice E. Boomhower American Cyanamid	George Caporale, NJDEP	March 22, 1988
48.	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	Alice E. Boomhower American Cyanamid	Ruth Foster, NJDEP	April 28,1988
49.	American Cyanamid Soil Erosion and Sediment Control Plan	Alice E. Boomhower American Cyanamid	Richard Ambrosio, Freehold Soil Conservation District	May 10, 1988
50.	Compost Application and Soil Erosion and Sedimentation Plan for American Cyanamid	Alice E. Boomhower American Cyanamid	Timothy Ruby, NJDEP	May 10, 1988
51. *	ACCO Carteret Landfill, Site Visit May 25, 1988	Alice E. Boomhower American Cyanamid	Timothy Ruby, NJDEP	May 26, 1988

APPENDIX 3A - SELLER'S MATERIALS FORWARDED TO FARER FERSKO (Cont.)
AMERICAN-CYANAMID/CYTEC IMPOUNDMENTS
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	Title/Subject	Author	Recipient	Date
52.	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	Alice E. Boomhower American Cyanamid	George Caporale, NJDEP	June 30, 1988
53.	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	Alice E. Boomhower American Cyanamid	George Caporale, NJDEP	September 23, 1988
54.	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	David Stein, American Cyanamid	George Caporale, NJDEP	December 28, 1988
55.	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	Alice E. Boomhower American Cyanamid	George Caporale, NJDEP	March 30, 1989
56.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	George Caporale, NJDEP	March 30, 1989
57.	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	Alice E. Boomhower American Cyanamid	George Caporale, NJDEP	May 25, 1989
58.	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	Alice E. Boomhower American Cyanamid	George Caporale, NJDEP	September 28, 1989
59.	ACCO, Warners Plant, Carteret Landfill, NJPDES Permit No. 0061611, Groundwater Monitoring	Angela Dohl American Cyanamid	George Caporale, NJDEP	December 20, 1989
60.	Carteret Landfill, NJPDES Permit No. 0060611Groundwater Monitoring	Angela Dohl American Cyanamid	George Caporale, NJDEP	March 30, 1990
61.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	George Caporale, NJDEP	June 29, 1990
62.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	September 14, 1990
63.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	December 18, 1990
64.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	March 21, 1991

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	Title/Subject	Author	Recipient	Date
65.	Carteret Landfill, NJPDES Permit No. 0060611 Monitoring Certification	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	March 28, 1991
66.	Carteret Landfill Inspection – Phase I Plan for Revegetation	Angela Dohl American Cyanamid	Donna van Veldhuisen, NJDEP	April 23, 1991
67.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	June 10, 1991
68.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	September 13, 1991
69.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	December 20, 1991
70.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	March 24, 1992
71.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	June 5, 1992
72.	Carteret Landfill, NJPDES Permit No. 0060611 Groundwater Monitoring	Angela Dohl American Cyanamid	Arnold Schiffman, NJDEP	September 10, 1992
73.	Remedial Action Plan: Operation, Maintenance and Monitoring for Carteret Impoundments	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	April 21, 1994
74.	Dredge Materials Project	Joel Jerome – Cytec	David Rislia – NJDEP	June 25, 1997
75.	Cytec Carteret Impoundments Wetlands Status	Joel Jerome – Cytec	David Rislia – NJDEP	August 29, 1997
76.	Letter of Interpretation, Line Verification	Joel Jerome – Cytec	Christopher Jones - NJDEP	March 25, 1998
77. *	1999 Annual Monitoring Report	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	February 20, 2001
78.	1999 Annual Monitoring Report- Response to NJDEP Comments – May 22, 2001	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	June 25, 2001
79.	2001/2002 Surface Water Monitoring Results	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	July 17, 2002

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	Title/Subject	Author	Recipient	Date
80.	Carteret Impoundments Site Carteret Borough, Middlesex County – Restricted Use – No Further Action Letter and Coventnat Not to Sue – Entire Site	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	October 2, 2002
81. *	Waterfront Development Coastal Wetland Permit Application	Joel Jerome – Cytec	NJDEP Land Use Regulation	October 21, 2003
82.	Waterfront Develoment Permit	Joel Jerome – Cytec	Alison Giehl – NJDEP	January 23, 2004
83.	Application for Freshwater Wetland Letter of Interpretation Extension	Joel Jerome – Cytec	Chris Jones – NJDEP	June 10, 2004
84.	Damage to Cytec Site from Contractors	Eugene C. Boyle – Cytec	Richard Brundage – NJ Turnpike Authority	March 2, 2006
	Letters from Agency			
85.	Decision approving settlement in the matter of American Cyanamid Company Sanitary Landfill, Carteret	Roland Parker, NJ Office of Administrative Law	Joseph Childs, ACCO	January 6, 1988
86.	Approval to Utilize Compost at the Amercian Cyanamid Landfill, Township of Carteret	Edwards Londres, NJDEP	Alice Boomhower, ACCO	June 21, 1988
87.	Pre application conference, Coastal Application Inquire P#2907, Carteret Landfill	Charlie Welch, NJDEP	Alice Boomhower, ACCO	November 22, 1988
88.	Landfill Name: American Cyanamid Company, NJ Discharge Elmination System/Discharge to Ground-Water Permit – notification that permit invalid effective April 19, 1989	Arnold Schiffman, NJDEP	American Cyanamid Co.	February 6, 1990
89. *	Coastal Waterfront Development Permit	Richard Kantor, NJDEP	Alice Boomhower, American Cyanamid	May 15, 1990
90.	Preliminary Assessments for Carteret Landfills	Donna van Veldhuissen, NJDEP	Angela Dohl, ACCO	July 3, 1991
91.	Analytical report to sampling performed at Impounds 2, 3, 4 and 5 on October 24, 1991	Kenneth Kloo, Section	Angela Dohl, ACCO	December 6, 1991

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	Title/Subject	Author	Recipient	Date
92.	Summary of Sampling Data for the Period Between May 1986 – October 1991	Haiyesh Shah – NJDEP	Joel Jerome – Cytec David Stout - BBL	December 16, 1993
93.	Additional Site Maps, Including Locations of sludge Samples Collected from Site Impoundments by NJDEP on October 24, 1991	Haiyesh Shah – NJDEP	Joel Jerome – Cytec David Stout - BBL	December 20, 1993
94.	American Cyanamid Carteret Impoundments Site (RIWP Comments – December 2, 1994	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	February 18, 1994
95.	Cytec Carteret Impoundments Site (RAP – April 21, 1994)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	May 2, 1994
96.	Cytec Carteret Landfill (Impoundments) Site (RAP Addendum – November 1994)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	November 29, 1994
97. *	Cytec Carteret Impoundments (Landfill) Site, Carteret Borough, Middlesex Co.	Haiyesh Shah – Chase Manager - NJDEP	Joel Jerome – Cytec	February 6, 1995
98. *	Cytec Carteret Impoundments (RAP Addendum – February 1995)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	February 6, 1995
99.	Cytec Carteret Impoundments Site (Annual Report for Semi-Annual Monitoring and Maintenance for Year 1995 – March 1996)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	March 19, 1996
100.	Cytec Industries Inc. – Carteret	Elena A. Williams – NJDEP	Michael P. Fleischner – BBL	May 2, 1997
101.	Cytec Carteret Impoundments Site (Third Annual Maintenance and Monitoring Report – August 1997)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	September 17, 1997
102. *	Letter of Interpretation, Line Verification	Christopher Jones – NJDEP	Andrew N. Johnson, PE-BBL	March 13, 1998
103. *	Cytec Carteret Impoundment Site (Tech Requirements)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	May 5, 1998
104.	Cytec Carteret Impoundment Landfill	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	September 8, 1998
105.	Cytec Carteret Impoundment Landfill Site (Annual Monitoring Report for 1998 – September 1998)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	November 4, 1998

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	Title/Subject	Author	Recipient	Date
106.	Cytec Carteret Impoundment Landfill Site (1999 Annual Monitoring Report – September 1999)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	December 12, 2000
107.	Cytec Carteret Impoundment Landfill Site (Response to Comments Letter – February 20, 2001)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	May 22, 2001
108.	Cytec Carteret Impoundment Landfill Site (Response to Comments Letter – June 25, 2001)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	September 25, 2001
109.	Cytec Carteret Impoundment Landfill Site (Sampling and Analysis Results of Surface Water – July 17, 2002)	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	September 9, 2002
110.	Carteret Impoundments Site, Carteret Borough, Middlesex County Restricted Use – No Further Action Letter and Covenant Not to Sue – Entire Site	Bruce Venner – NJDEP	Joel Jerome – Cytec	September 24, 2002
111.	Line Verification – Reissuance	Christopher Jones – NJDEP	Andrew Johnson – BBL	February 26, 2006
Memos/Transmittals				
112. *	NJDPES Permit Renewal Application	G. Campbell, ACCO	J. Reid, ACCO	March 22, 1989
113. *	Carteret Landfill Analysis	A. Groeller, ACCO	File	June 7, 1982
114. *	Carteret Waterfront Development Application	Michael J. McNally – BBL	Joel Jerome – Cytec	October 28, 1999
115. *	Cytec – Carteret Surface Water Monitoring	Kris Hallinger	Paul Mlodzinski and Christine Napoletano – BBL	September 27, 2001
116.	Preliminary Geotechnical Evaluation and Test Fill Recommendations	Gerry Coscia, PE A. Huber PE Christian B. Woods Langan Engineering & Environmental Services	Bernie Langan, PE	December 27, 2004

APPENDIX 3A
SELLER'S MATERIALS FORWARDED TO FARER FERSKO
AMERICAN-CYANAMID/CYTEC IMPOUNDMENTS
BLOCK 9.03, LOT 21; BLOCK 10, LOTS 8-10 & 12-21;
BLOCK 11.01, LOTS 8, 10-14 & 28
CARTERET, NEW JERSEY
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	Title/Subject	Author	Recipient	Date
117.	Test Fill Location Plan CD (not attached)	Chris Woods – Langan Engineering & Environmental Services	Alain Hebert, PE – BBL	January 11, 2005
118. *	February 7, 2006 Field Inspection	Joseph Shisler; Alan Hebert BBL	Gene Boyle; Thomas Mesevage - Cytec	February 21, 2006
Photographs/Figures Maps				
119. *	Approx. 25 photos taken of Carteret Landfill Area	DPS Studio, Linden, NJ	American Cyanamid	October 31, 1988
120.	Conceptual Site Plan with 150 Ft. Buffer	Langan Engineering & Environmental Services		December 20, 2004
Miscellaneous				
121.	Eckhardt Survey (Disposal Site Information)			1979
122.	Deed			December 7, 1993
123.	Declaration of Environmental Restrictions		Dennis L. Little - Middlesex County Clerk	May 4, 1995
124.	Deed between Cytec and Carteret Development LLC			August 17, 1999
125.	Pre-Application Meeting, Proposed Redevelopment of Carteret Development LLC Impoundments	BBL	NJDEP	August 31, 2004

* - Documents not available for review by SESI Consulting Engineers

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Title/Subject		Author	Recipient	Date
1.	NJ State Dept. of Health - Claim for Tax Exemption	American Cyanamid Co.	Commissioner of Health	May 3, 1972
2.	Memo – Claims for Tax Exemptions, American Cyanamid Co., Linden	Mr. Delgado	Mr. Harding	January 8, 1973
3.	Letter – Warners Outfalls – American Cyanamid	Richard A. Dennis, Environmental Engineer	Mr. R. R. Delgado, NJDEP	March 2, 1973
4.	Memo – American Cyanamid Co., Linden, NJ – Construction of Wastewater Treatment Facility	Mr. Harrison – NJDEP	Mr. Binder	January 22, 1974
5.	ENG FORM 4345-1 (May 71)	Not provided on document	Not provided on document	July 10, 1974
6.	Memo – Linden – American Cyanamid Wastewater Outfalls	Mr. Harrison - NJDEP	Mr. Harding	October 3, 1974
7.	NJDEP – Sample Report	Blackwell, Harrison, Hoffman	American Cyanamid Co.	October 30, 1974
8.	Memo – Tax Exemption American Cyanamid Co., Linden	Ralph Mortensen-NJDEP	John Wilfor through Edward H. Rast	March 12, 1975
9.	Memo – Scope of Permits, American Cyanamid, Linden	Mr. Delgado - NJDEP	Mr. Zelikson through Mr. Honachefsky – NJDEP	August 18, 1975
10.	Memo – Meeting with American Cyanamid, Linden/Re-Organic Waste Incinerator	Ralph Mortensen - NJDEP	Richard Delgado – NJDEP	August 28, 1975
11.	Letter – Application for a Permit to Construct and Operate an Organic Waste Incinerator	Ralph W. Mortensen, Assistant Environmental Engineer Raritan-ISC Basin Pollution Control Monitoring Surveillance and Enforcement Element – NJDEP	Mr. Stuart R. Hathaway, Manager of Environmental Services – American Cyanamid Co.	August 29, 1975

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	Title/Subject	Author	Recipient	Date
11.	Letter – Application for a Permit to Construct and Operate an Organic Waste Incinerator	Ralph W. Mortensen, Assistant Environmental Engineer Raritan-ISC Basin Pollution Control Monitoring Surveillance and Enforcement Element – NJDEP	Mr. Stuart R. Hathaway, Manager of Environmental Services – American Cyanamid Co.	August 29, 1975
12.	Letter – Response to Mr. Mortensen's letter of August 29, 1975 re: phosphorus waste waters	R. H. Wharton, Plant Manager American Cyanamid	NJDEP	September 3, 1975
13.	Draft P/O Document – Permit No. NJ0001058 – Authorization to Discharge under the National Pollutant Discharge Elimination System	NJDEP	American Cyanamid Company	August 23, 1976
14.	Letter – Draft of Amended Consent Final Judgment for Warners Plant	Joseph T. Childs, Legal Department American Cyanamid	Peter Herzberg, Esq., Deputy Attorney General – NJDEP	March 18, 1977
15.	Letter – Amended Consent Judgment for American Cyanamid (Linden)	Ralph W. Mortensen through Messrs. Beggs, Delgado and Honachefsky - NJDEP	Assistant Director Bellis	November 21, 1977
16.	Civil Action Amended Consent Judgment – Superior Court of NJ Chancery Div., Union County Docket No. C-953-70	Not provided on document	Not provided on document	April 18, 1978
17.	American Cyanamid Analytical Data Summary of Sampling Data	Not provided on document	Not provided on document	May 19, 1986
18.	Earth Life Compost Permit to Earth Life and Cyanamid from and Application Division of Water Resources Phase I impound #6 only Phase II Impound #3.	Helen Pettit-Chase, Acting Chief Bureau of Pretreatment and Residuals Wastewater Facilities Management Element	Roger Tuttle, Delchem Sales, Inc.	June 20, 1988

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Title/Subject		Author	Recipient	Date
19.	Letter – American Cyanamid Company Carteret and Linden Landfills	Angela J. Dohl, Environmental Engineer – American Cyanamid	Ms. Donna Van Veldhuisen, NJDEP Site Assessment Section	July 16, 1991
20.	Case Transfer Report	Donna J. Van Valdhuisen, HSMSII, Bureau of Site Assessment	Not provided on document	January 1992
21.	Memo – The Quality Assurance Review of samples collected from the American Cyanamid – Carteret site; CLP deliverables; Analyses done by Nytest Environmental Inc.	Atiya Wahab, Hazardous Site Mitigation Specialist II - NJDEP	Frank Sorce, Technical Coordinator Bureau of Site Assessment - NJDEP	May 21, 1992
22.	NJDEP and Energy - Case Transfer Report	Not provided on document	Not provided on document	September 30, 1992
23.	Memo – ACO Negotiation Case – American Cyanamid Landfill, Carteret BSCM 32.35 Remedial Level – C-3	Linda Range, – Section Supervisor Bureau of Field Operations – Site Assessment Section NJDEP through Bob Van Fossen, Chief Bureau of Field Operations - NJDEP	Linda Grayson, Chief Bureau of State Case Management – NJDEP	May 5, 1993
24.	Letter – American Cyanamid Co. Carteret Impounds, Carteret NJ	Joel Jerome, Manager, Site Remediation – Cytec Industries	Ms. Jerri Weigand, Bureau of State Case Management -NJDEP	May 6, 1993
25.	Letter – American Cyanamid's Carteret Impounds	Jerri Weigand - NJDEP	Joel Jerome	June 7, 1993
26.	Amendment to Sept 5, 1990 Administrative Consent Order	NJDEP	Not provided on document	June 7, 1993
27.	Letter – American Cyanamid Company Warners Plant Administrative Consent Order Carteret Impounds	Joel Jerome – American Cyanamid	Ms. Jerri Weigand NJDEP	June 23, 1993
28.	Amendment to Sept 5, 1990 Administrative Consent Order	NJDEP	Not provided on document	July 6, 1993

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CARTERET, NEW JERSEY
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Title/Subject		Author	Recipient	Date
29.	Letter – Carteret Impounds ACO Amendment	Jerri Weigand - NJDEP	Joel Jerome – American Cyanamid	July 8, 1993
30.	SOL Compliance Checklist	Not provided on document	Not provided on document	August 5, 1993
31.	Memo – Case Transfer Carteret Impounds ACO Assignment	Colleen Kokas, Section Chief Bureau of State Case Management – NJDEP	Bruce Venner, Chief Bureau of State Case Management – NJDEP	August 5, 1993
32.	Letter – Carteret Impounds (Amendment to Warner's Plan ACO) Carteret, Middlesex County	Colleen Kokas, Section Chief – NJDEP	Joel Jerome – American Cyanamid	August 5, 1993
33.	Letter – American Cyanamid Landfill Carteret Borough, Middlesex County	Haiyesh Shah – Case Manager NJDEP	Joel Jerome – American Cyanamid	August 12, 1993
34.	Letter – American Cyanamid Company Site Bridgewater Township, Somerset County; American Cyanamid Warners Plant Site Linden City, Union County; American Cyanamid Landfill Site Carteret Borough, Middlesex County	Haiyesh Shah – Case Manager NJDEP	Joel Jerome – American Cyanamid	August 19, 1993
35.	Memo – American Cyanamid Landfill Site Carteret Borough, Middlesex County	Haiyesh Shah – NJDEP	Stephanie Shorey – NJDEP	August 27, 1993
36.	Letter – American Cyanamid Company Site Bridgewater Township, Somerset County; American Cyanamid Warners Plant Site Linden City, Union County; American Cyanamid Landfill Site Carteret Borough, Middlesex County	Haiyesh Shah – NJDEP	Joel Jerome – American Cyanamid	September 16, 1993
37.	Letter – Remediation Funding Sources formerly known as Financial Assurance Mechanism	Colleen Kokas NJDEP	Joel Jerome – American Cyanamid	October 1, 1993

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Title/Subject		Author	Recipient	Date
38.	Letter – American Cyanamid Company Site Bridgewater Township, Somerset County; American Cyanamid Warners Plant Site Linden City, Union County; American Cyanamid Landfill Site Carteret Borough, Middlesex County	Haiyesh Shah – NJDEP	Joel Jerome – American Cyanamid	November 4, 1993
39.	Remedial Investigation Work Plan for Carteret Impoundments	Joel Jerome – American Cyanamid	Haiyesh Shah – NJDEP	December 2, 1993
40.	Carteret Impoundments	Joel Jerome, Manager Site Remediation	Mr. Haiyesh Shah, Case Manager – NJDEP	December 13, 1993
41.	Email: Hotline Report American Cyanamid Carteret	HSHAH	RLUZECKY	December 22, 1993
42.	Letter – American Cyanamid Company Site Bridgewater Township, Somerset County; American Cyanamid Warners Plant Site Linden City, Union County; American Cyanamid Landfill Site Carteret Borough, Middlesex County	Haiyesh Shah – NJDEP	Joel Jerome – Cytec/ American Cyanamid	February 16, 1994
43.	Letter – Site Plan for Cytec Industries	David J. Stout, Manger Blasland, Bouck & Lee, Inc.	Haiyesh Shah – NJDEP	June 10, 1994
44.	Site Plan for Cytec Industries	David J. Stout, Manager Blasland, Bouck & Lee, Inc.	Mr. Haiyesh Shah, Case Manager – NJDEP	June 17, 1994
45.	Speed Memo – Carteret Sampling	Dave Stout, BB&L	Joel Jerome, Cytec Industries	July 8, 1994
46.	Reduced Laboratory Data Deliverables IEA Job No. 20940-42670 & 42671 Volume 1 of 1	Deborah H. Smith, P.D., Laboratory Director	Mr. Janice Williams, Cytec Industries	August 19, 1994
47.	Letter – Cytec Industries, Inc. Warners Plant City of Linden, Union County Third Annual Project Cost Review	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	August 31, 1994

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Title/Subject		Author	Recipient	Date
48.	Letter – Cytec Industries, Inc. Administrative Consent Order – 9/5/90 Amended 8/5/93 Establishment of Remediation Funding Source	David Lauber Assistant Treasurer Cytec	Ms. Tina Layre, Supervisor – NJDEP	November 3, 1994
49.	Letter – American Cyanamid Company Warners Plant Site Financial Assurance/Remediation Funding Source Release	Tina Layre – NJDEP	Citibank NA	December 5, 1994
50.	Letter – Revised Remedial Action Plan Addendum – Carteret Impoundments	Joel Jerome – Cytec	Mr. Haiyesh Shah – NJDEP	January 31, 1995
51.	Letter - Cytec Industries, Inc. Carteret Impoundments Declaration of Environmental Restrictions Remedial Action Plan Addendum	Joel Jerome – Cytec	Mr. Haiyesh Shah – NJDEP	April 6, 1995
52.	Letter - Cytec Industries, Inc. Carteret Impoundments Declaration of Environmental Restrictions, Remedial Action Plan Addendum	Joel Jerome – Cytec	Mr. Haiyesh Shah – NJDEP	May 5, 1995
53.	Letter – Cytec Industries, Inc. Warners Plant City of Linden, Union County Fifth Annual Project Cost Review	Joel Jerome – Cytec	Mr. Haiyesh Shah – NJDEP	September 11, 1995
54.	Letter – Annual Report for Semiannual Monitoring and Maintenance for Carteret Impoundments, Borough of Carteret, NJ	Joel Jerome – Cytec	Mr. Haiyesh Shah – NJDEP	March 4, 1996
55.	News & Information Release – Cytec to Consolidate Surfactants Manufacturing by Expanding Willow Island, West Virginia Facility Linden, NJ Plant to Close	Cytec Industries	Not provided on document	January 16, 1997
56.	Cytec Industries, Inc. Proposal for Redevelopment of Carteret Impoundments – Presentation to NJDEP (with Agenda and Meeting Attendance Record)	Cytec Industries	NJDEP	May 23, 1997

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Title/Subject		Author	Recipient	Date
57.	Letter – Cytec Industries, Inc. Financial Assurance Order – 9/5/90, Amended 8/5/93 Remediation Funding Source – Annual Renewal	Joel Jerome – Cytec	Tina Layre – NJDEP	July 16, 1997
58.	Email – Cytec Industries Inc.	CCAULKER	HSHAH	July 24, 1997
59.	Letter – Annual Report for Annual Monitoring and Maintenance for Carteret Impoundments	Joel Jerome - Cytec	Haiyesh Shah - NJDEP	August 1, 1997
60.	Meeting Attendance Sheet	NJDEP	Not provided on document	October 29, 1997
61.	Letter – Cytec Carteret Impoundments Summary of October 29, 1997 Meeting Project # 440.55	Michael J. Mc Nally, PE – Blasland, Bouck, & Lee, Inc.	David Rislia NJDEP	November 6, 1997
62.	Cytec Warners Plan Site Linden City, Union County Block 587, Lot 8	Roman Luzecky, Section Chief – NJDEP	Joel Jerome - Cytec	February 17, 1998
63.	General Information Notice – NJDEP Industrial Site Evaluation Element	NJDEP	Not provided on document	February 24, 1998
64.	Remediation in Progress Waiver Application	Myles Odaniell	NJDEP	April 9, 1998
65.	Letter – Remediation in Progress Waiver Application dated 4/17/98	Vince Krisak, Section Chief - NJDEP	Ms. Karen E. Koster – Cytec	May 11, 1998
66.	Annual Monitoring Report	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	September 1, 1998
67.	Transmittal – Cytec Carteret Impoundments	Chris S. Koutouzakis, Scientist	Haiyesh Shah - NJDEP	October 14, 1998
68.	Letter – Y2K Environmental Compliance Warners and Carteret Sites Cytec Industries	Joel Jerome – Cytec	Haiyesh Shah - NJDEP	April 12, 1999
69.	Letter – 1999 Annual Monitoring Report	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	March 6, 2000
70.	Letter – Cytec Warners Plant Site and Cytec Carteret Impoundment Site	Haiyesh Shah - NJDEP	Joel Jerome – Cytec	June 15, 2000
71.	Letter – Response to Request to Establish CEA Letter dated June 16, 2000	Alain P. Hebert – BBL	Haiyesh Shah – NJDEP	July 25, 2000

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Title/Subject		Author	Recipient	Date
72.	Letter – Response to Request to Establish CEA Letter dated June 16, 2000	Alain P. Hebert – BBL	Haiyesh Shah – NJDEP	August 2, 2000
73.	Letter – Cytec Carteret Impoundment Landfill Site	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	October 4, 2000
74.	Transmittal – Cytec Carteret Annual Monitoring Report	Alain Hebert - BBL	Haiyesh Shah – NJDEP	November 10, 2000
75.	Letter - 1999 Annual Monitoring Report	Laurie Indick – BBL	Haiyesh Shah – NJDEP	February 27, 2001
76.	Letter – Fifth and Final Monitoring Report Cytec Industries, Inc. Warners Plant, Linden NJ	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	March 6, 2001
77.	Email – Carteret LF Site, Carteret, Middlesex County	Haiyesh Shah - NJDEP	Kris D. Hallinger	October 1, 2001
78.	Amended and Restated Redevelopment Plan Carteret Landfill Reclamation Improvement District – Middlesex County, NJ	David G. Roberts, PP, AICP, CLA John E. Taikina, PP, AICP Schoor Depalma Inc.	Not provided on document	January 2002
79.	Rahway River Area, Supplemental Evaluation of Arsenic Distribution in Sediment Cytec Industries, Inc., Former Warners Plant	Alain Hebert - BBL	Haiyesh Shah – NJDEP	April 9, 2002
80.	Fax – Missing Table	Joel Jerome – Cytec	Haiyesh Shah – NJDEP	May 2, 2002
81.	Cytec Carteret Property, Carteret NJ	Leslie A. Mesnick, Project Manager OENJ Cherokee Corporation	Joel Jerome, Manager – Site Remediation Cytec Industries, Inc.	May 6, 2002
82.	Letter – Cytec Warners Plan Site Linden City, Union County	Haiyesh Shah – NJDEP	Joel Jerome – Cytec	May 7, 2002
83.	Memo – Deed Notice – Case Transfer	Haiyesh Shah – NJDEP	Rob Hoch – NJDEP	September 22, 2002
84.	Deed Notice – Case Transfer	Haiyesh Shah - NJDEP	Rob Hoch - NJDEP	September 25, 2002
85.	Freshwater Wetlands Letter of Interpretation Extension Request Notification	Alain P. Hebert, PE Senior Engineer/Manager - BBL	Carteret Development LLC	February 5, 2003

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Title/Subject		Author	Recipient	Date
86.	Revised Site Figure for Freshwater Letter of Interpretation Extension for Cytec Carteret Site BBL Project # 44134.001	Alex B. Francisco – Exotoxicologist – BBL	Mr. Deba Bettecharge – NJDEP	April 4, 2003
87.	Reports of Sightings of NJ Endangered and Threatened Species	Dennis Miranda – Urban Parks Project Manager – NJ Conservation Foundation Bamboo Brook	Endangered and Non-Game Species Program NJ Division of Fish and Wildlife	July 16, 2003
88.	Project #1201-03-003.1 – Cytec Industries application to the Land Use Regulation Program for Re-issuance of an LOI for their property in Carteret Borough, NJ	Megan Callus – Conservation Associate NY/NJ Baykeeper	Chris Jones – NJDEP Land Use Regulation Program – Trenton, NJ	August 4, 2003
89.	Confidentiality Agreement	Eugene C. Boyle – Director of Real Estate Cytec	Mr. Edward J. Malley TRC Solutions, Lyndhurst, NJ	November 21, 2003
90.	Confidentiality Agreement	Eugene C. Boyle, Director of Real Estate Cytec	Mr. Edward J. Malley, TRC Solutions	November 21, 2003
91.	Cytec – Carteret Redevelopment Meeting – Meeting Date April 29, 2004	J. Murray	D. Hagan, P. Slayton, A. Malinsky, D. Slayton, C. Zwingle	May 5, 2004
92.	Fax - N/F/A Covenant and the LOI and The Cytec "Position Paper"	Brian W. Fahey, Sr. Fahey and Fahey	Anne Babineau, Esq. - Arlentz	March 15, 2005
93.	Carteret Redevelopment Project	Anne S. Babineau Wilentz, Goldman & Spitzer PA	David Samson, Esq. Wolff & Samson PC	March 18, 2005
94.	Attachment Q – American Cyanamid Company, Linden, NJ	Dave Kaplan	John. J. Tre- Chief	Not provided on document
95.	Site Inspection – American Cyanamid Landfill, Carteret, Middlesex County, EPA ID No.: NJD986603439 Volume I of II	NJDEPE, Division of Responsible Party Site Remediation	Not provided on document	Not provided on document

APPENDIX 3A (Cont.)
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96.	Site Inspection – American Cyanamid Landfill, Carteret, Middlesex County, EPA ID No.: NJD986603439 Volume II of II	NJDEPE, Division of Responsible Party Site Remediation	Not provided on document	Not provided on document
97.	Attorney Client Privileged/Prepared in Connection with Settlement of Litigation – Draft Agenda for April 20 Meeting at Wolff and Samson	Anne Babineau, Esq. - Arlentz	Brian W. Fahey, Sr. Fahey and Fahey	Not provided on document
98.	Confidential – This designation is intended to confirm the understanding reached between counsel fro the parties that this document is for discussion purposes only and is not to be used in litigation.	Not provided on document	Not provided on document	Not provided on document
99.	ACO Negotiation Case – American Cyanamid Landfill BSCM RPS 38.61 Redial Led C-3 – NJDEP	Linda Range, Section Supervisor, Bureau of Field Operations – Site Assessment Section –NJDEP through Bob Van Fossen, Chief Bureau of Field Operations - NJDEP	Linda Grayson, Chief Bureau of State Case Management – NJDEP	Not provided on document
100.	Letter - Carteret Impounds ACO Amendment	Not provided on document	Not provided on document	Not provided on document
101.	Quarterly Progress Report 1990 Administrative Consent Order Cytec Industries – Warners Plant/Carteret Impounds Amended August 5, 1993 – Report No. 16 - July 1, 1994 through September 30, 1994	Not provided on document	Not provided on document	Not provided on document
102.	Quarterly Progress Report 1990 Administrative Consent Order Cytec Industries – Warners Plant/Carteret Impounds Amended August 5, 1993 – Report No. 22 – January 1, 1996 through March 31, 1996	Not provided on document	Not provided on document	Not provided on document

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Title/Subject		Author	Recipient	Date
103.	Quarterly Progress Report 1990 Administrative Consent Order Cytec Industries – Warners Plant/Carteret Impounds Amended August 5, 1993 – Report No. 23 – April 1, 1996 through June 30, 1996	Not provided on document	Not provided on document	Not provided on document
104.	Quarterly Progress Report 1990 Administrative Consent Order Cytec Industries – Warners Plant/Carteret Impounds Amended August 5, 1993 – Report No. 26 – January 1, 1997 through March 31, 1997	Not provided on document	Not provided on document	Not provided on document

APPENDIX 3B

APPENDIX 3B

EDR RADIUS MAP WITH GEOCHECK

The EDR Radius Map
with GeoCheck®

Phase 2 - Cytec Property Redevelopment
Peter J. Sica Industrial Hwy
Carteret, NJ 07008

Inquiry Number: 1726514.2s

August 02, 2006

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FORM-STD-ERK

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with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

PETER J. SICA INDUSTRIAL HWY
CARTERET, NJ 07008

COORDINATES

Latitude (North):	40.598600 - 40° 35' 55.0"
Longitude (West):	74.215800 - 74° 12' 56.9"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	566353.0
UTM Y (Meters):	4494283.5
State Plane X (Feet):	571039.9
State Plane Y (Feet):	643093.8
Elevation:	1 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40074-E2 ARTHUR KILL, NY
Most Recent Revision:	1981

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
ERNS..... Emergency Response Notification System
HMIRS..... Hazardous Materials Information Reporting System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
DOD..... Department of Defense Sites

EXECUTIVE SUMMARY

FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File

STATE AND LOCAL RECORDS

NY HSWDS	Hazardous Substance Waste Disposal Site Inventory
NY SHWS	Inactive Hazardous Waste Disposal Sites in New York State
NJ CHROME	Chromate Chemical Production Waste Sites
NJ PF	Publicly Funded Cleanups Site Status Report
NY DEL SHWS	Delisted Registry Sites
NJ SWF/LF	Solid Waste Facility Directory
NY SWF/LF	Facility Register
NJ HIST LF	Solid Waste Facility Directory
NJ SWRCY	Approved Class B Recycling Facilities
NY SWRCY	Registered Recycling Facility List
NY SWTIRE	Registered Waste Tire Storage & Facility List
NJ LUST	UST Active Remediation Sites Listing
NY LTANKS	Spills Information Database
NY HIST LTANKS	Listing of Leaking Storage Tanks
NY UST	Petroleum Bulk Storage (PBS) Database
NY CBS UST	Chemical Bulk Storage Database
NY MOSF UST	Major Oil Storage Facilities Database
NY HIST UST	Historical Petroleum Bulk Storage Database
NJ LIENS	Environmental LIENS
NY AST	Petroleum Bulk Storage
NY CBS AST	Chemical Bulk Storage Database
NY HIST AST	Historical Petroleum Bulk Storage Database
NJ HIST MAJOR FACILITIES	List of Major Facilities
NY MOSF AST	Major Oil Storage Facilities Database
NY Spills	Spills Information Database
NY Hist Spills	SPILLS Database
NY ENG CONTROLS	Registry of Engineering Controls
NY INST CONTROL	Registry of Institutional Controls
NY VCP	Voluntary Cleanup Agreements
NJ DRYCLEANERS	Drycleaner List
NY DRYCLEANERS	Registered Drycleaners
NJ BROWNFIELDS	Brownfields Database
NY BROWNFIELDS	Brownfields Site List
NY SPDES	State Pollutant Discharge Elimination System
NY AIRS	Air Emissions Data

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 04/19/2006 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LCP CHEMICALS NJ	*FOOT OF SOUTH WOOD AVEN*	*1/2 - 1 NNE*	*10*	*38*

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there are 4 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LCP CHEMICALS NJ	*FOOT OF SOUTH WOOD AVEN*	*1/2 - 1 NNE*	*10*	*38*
CIBA-GEIGY CORP	*78 LAFAYETTE ST*	*1/2 - 1 SSE*	*C11*	*45*
GATEWAY TERMINALS SERVICE	*LAFAYETTE STREET*	*1/2 - 1 SSE*	*13*	*76*
MOBIL LINDEN TERMINAL	*S WOOD AVE*	*1/2 - 1 NNW*	*17*	*97*

EXECUTIVE SUMMARY

STATE AND LOCAL RECORDS

NJ SHWS: Known contaminated sites in New Jersey except those associated with Bureau of Underground Storage Sites (BUST)

A review of the NJ SHWS list, as provided by EDR, and dated 05/31/2006 has revealed that there are 11 NJ SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
NORTHVILLE INDUSTRIAL CORPORAT	***4501 TREMBLEY PT RD***	***1/4 - 1/2 NE***	***1***	***6***
Case Status: Active				
BP OIL PIPELINE CO	***LOWER RD TO RAHWAY***	***1/4 - 1/2 ENE***	***2***	***8***
Case Status: NFA-A (Limited Restricted Use)				
WARNERS PLANT AMERICAN CYANAMI	***4900 TREMLEY POINT RD***	***1/4 - 1/2 ENE***	***3***	***10***
Case Status: Active				
TOSCO TERMINAL CO TREMLEY POIN	***SOUTH WOOD AVENUE***	***1/4 - 1/2 NNE***	***B7***	***24***
Case Status: Active				
PHILLIPS CARTERET FACILITY	***LAFAYETTE ST***	***1/2 - 1 SSE***	***9***	***37***
Case Status: Active				
LCP CHEMICALS NJ	***FOOT OF SOUTH WOOD AVEN***	***1/2 - 1 NNE***	***10***	***38***
Case Status: Active				
KINDER MORGAN LIQUIDS TERMINAL	***78 LAFAYETTE ST AREA 2***	***1/2 - 1 SSE***	***C12***	***48***
Case Status: Active				
CARTERET BOROUGH SANITARY LAND	ROOSEVELT AVE / DRIFT	1/2 - 1 SW	D14	89
Case Status: Active				
CARTERET SHOPPING CENTER	***801 ROOSEVELT AVE***	***1/2 - 1 SW***	***D15***	***89***
Case Status: Active				
GOODYEAR TIRE CENTER	***835 ROOSEVELT AVE***	***1/2 - 1 SW***	***16***	***91***
Case Status: Active				
CARTERET SHOPPING CARTER	773 ROOSEVELT AVE	1/2 - 1 SW	18	107
Case Status: Active				

NJ HIST LUST: This listing is no longer updated or maintained by the DEP.

A review of the NJ HIST LUST list, as provided by EDR, and dated 09/17/2002 has revealed that there are 2 NJ HIST LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MILLER TRANSPORTERS INC	***4700 TREMLEY POINT RD***	***1/4 - 1/2 NNE***	***A5***	***19***
Facility Status: Site Issued Letter of No Further Action for Area(s) Of Concern				
BP OIL COMPANY	***SOUTH WOOD AVE***	***1/4 - 1/2 NNE***	***B6***	***23***
Facility Status: Site Issued Letter of No Further Action for Area(s) Of Concern				

EXECUTIVE SUMMARY

NJ MAJOR FACILITIES: 'Major Facility' means all facilities, located on one or more contiguous or adjacent properties owned or operated by the same person, having total combined storage capacity of: 1) 20,000 gallons or more for hazardous substances other than Petroleum or petroleum products; 2) 200,000 gallons or more for hazardous substances of all kinds.

A review of the NJ MAJOR FACILITIES list, as provided by EDR, and dated 05/30/2006 has revealed that there is 1 NJ MAJOR FACILITIES site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
VALERO L.P. - LINDEN 1	*4501 TREMLEY POINT ROAD*	*1/4 - 1/2N*	*8*	*35*

NJ ENGG CONTROL: Legal Document that restricts the use of contaminated property; holds owner(s) to the regulatory/statutory requirements for cleanup.

A review of the NJ ENG CONTROLS list, as provided by EDR, and dated 04/03/2006 has revealed that there is 1 NJ ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BP OIL PIPELINE CO	*LOWER RD TO RAHWAY*	*1/4 - 1/2ENE*	*2*	*8*

NJ INST CONTROL: Sites where engineering and/or institutional controls remain in place as part of a remedial action to address soil and/or groundwater contamination. These restrictions ensure protection of human health and the environment as long as they are maintained.

A review of the NJ INST CONTROL list, as provided by EDR, and dated 04/03/2006 has revealed that there is 1 NJ INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BP OIL PIPELINE CO	*LOWER RD TO RAHWAY*	*1/4 - 1/2ENE*	*2*	*8*

NJ VCP: Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.

A review of the NJ VCP list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 NJ VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LINDEN BULK TRANSPORTATION CO	*4700 TREMLEY PT RD*	*1/4 - 1/2NNE*	*A4*	*18*

NJ ISRA: The ISRA process begins with determining if the Act applies to your type of business and transaction. The provisions of ISRA only apply to industrial establishments. What is an industrial establishment? The term "industrial establishment" refers to the type of business operations and transactions that would subject a facility to review under ISRA. An industrial establishment must meet each of the following three criteria: The place of business or real property at which such business is conducted, having a North American Industry Classification System (NAICS) code listed in N.J.A.C. 7:26 B - Appendix C subject to the specified exceptions and limitations. The place of business must have been engaged in operations on or after December 31, 1983; and The place of business must involve the generation, manufacture, refining, transportation, treatment, storage, handling, or disposal of hazardous substances or hazardous wastes.

A review of the NJ ISRA list, as provided by EDR, and dated 03/01/2006 has revealed that there is 1

EXECUTIVE SUMMARY

NJ ISRA site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
NORTHVILLE INDUSTRIAL CORPORAT	*4501 TREMBLEY PT RD*	*1/4 - 1/2 NE*	*1*	*6*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
CARTERET WATERFRONT DEVELOPMENT LL	NJ SHWS, NJ VCP, NJ NJPDES
DEBELLA PROPERTY	NJ SHWS
69 CHRISTOPHER STREET	NJ SHWS, FINDS
AMERICAN CYANAMID LANDFILL	NJ SHWS
CARTERET WATERFRONT DEVELOPMENT	NJ SHWS
AGRICO CHEMICAL COMPANY	NJ SHWS
EXXON SERVICE STATION #3-2558	NJ VCP
DEBELLA PROPERTY	NJ VCP
DEBELLA PROPERTY	NJ VCP
LAIL PROPERTY (FORMER)	NJ VCP
185 ROUTE 17 SOUTH	NJ VCP
EXXON SERVICE STATION #3-2138 (FOR	NJ VCP
LINDEN WAREHOUSE (CYTEC INDUSTRIES	NJ VCP
PHILLIPS FACILITY #2705850	NJ VCP
MOBIL SERVICE STATION #15-LMX (FOR	NJ VCP
ST SERVICES LINDEN TERMINAL LLC	FINDS, RCRA-LQG, RAATS, NJ MANIFEST
TX EASTERN P L-DUPONT W OF ARTHUR	RCRA-SQG, FINDS, NJ MANIFEST
1701 REALTY CO	NJ ISRA
WARNERS PLANT AMERICAN CYANAMID	NJ ISRA
LINDEN WAREHOUSE AMER CYANAMID	NJ ISRA
COLORA PRINTING INKS INCORPORATED	NJ ISRA
OIL TRANSPORT INC	NJ MANIFEST
SCHNEIDER NAT'L BULK CARRIER	NJ MANIFEST
AMOCO OIL CO	NJ MANIFEST
AMBER TRANSMISSION	NJ MANIFEST
EXPRESS PETROLEUM	NJ MANIFEST
MIDWESTERN DIST TRUCKING CO	NJ MANIFEST
VICTORY EXPRESS TRUCKING	NJ MANIFEST
EXXON COMPANY USA	NJ MANIFEST
J&B ENVIRONMENTAL	NJ MANIFEST
UNITED AUTO WORKERS	NJ MANIFEST
J.B. HUNT TRANSPORT INC	NJ MANIFEST
TRI-STATE MOTOR TRANSIT CO	NJ MANIFEST
NJ DEP BER REGION I	NJ MANIFEST
MISTRAL WING & ROTAR	NJ MANIFEST
LINDEN AIRPORT	NJ MANIFEST
AN WEBBER	NJ MANIFEST
MISTRAL WING & ROTOR CORP	NJ MANIFEST

OVERVIEW MAP - 1726514.2s

- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Phase 2 - Cytec Property Redevelopment	CLIENT:	SESI Consulting Engineers
ADDRESS:	Peter J. Sica Industrial Hwy Carteret NJ 07008	CONTACT:	Suresh Puppala
LAT/LONG:	40.5986 / 74.2158	INQUIRY #:	1726514.2s
		DATE:	August 02, 2006

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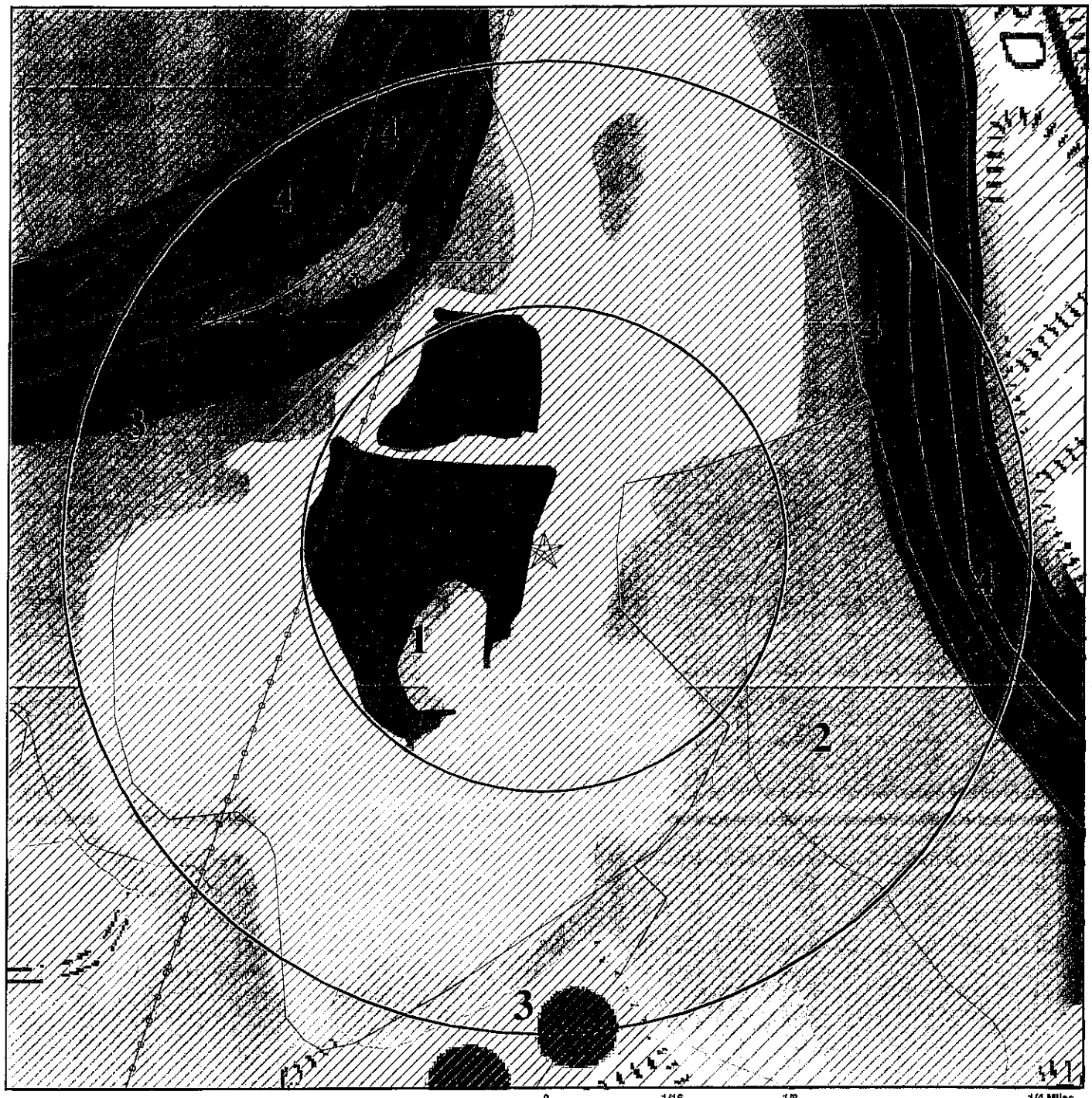
DETAIL MAP - 1726514.2s



- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Phase 2 - Cytec Property Redevelopment ADDRESS: Peter J. Sica Industrial Hwy Carteret NJ 07008 LAT/LONG: 40.5986 / 74.2158	CLIENT: SESI Consulting Engineers CONTACT: Suresh Puppala INQUIRY #: 1726514.2s DATE: August 02, 2006

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	0	1	NR	1
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	4	NR	4
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
NJ State Haz. Waste		1.000	0	0	4	7	NR	11
NY HSWDS		0.500	0	0	0	NR	NR	0
NY State Haz. Waste		1.000	0	0	0	0	NR	0
NJ CHROME		0.500	0	0	0	NR	NR	0
NJ PF		1.000	0	0	0	0	NR	0
NY DEL SHWS		1.000	0	0	0	0	NR	0
NJ State Landfill		0.500	0	0	0	NR	NR	0
NY State Landfill		0.500	0	0	0	NR	NR	0
NJ HIST LF		0.500	0	0	0	NR	NR	0
NJ SWRCY		0.500	0	0	0	NR	NR	0
NY SWRCY		0.500	0	0	0	NR	NR	0
NY SWTIRE		0.500	0	0	0	NR	NR	0
NJ LUST		0.500	0	0	0	NR	NR	0
NY LTANKS		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NJ HIST LUST		0.500	0	0	2	NR	NR	2
NY HIST LTANKS		0.500	0	0	0	NR	NR	0
NJ UST		0.250	0	0	NR	NR	NR	0
NY UST		0.250	0	0	NR	NR	NR	0
NY CBS UST		0.250	0	0	NR	NR	NR	0
NY MOSF UST		0.500	0	0	0	NR	NR	0
NY HIST UST		0.250	0	0	NR	NR	NR	0
NJ LIENS		TP	NR	NR	NR	NR	NR	0
NY AST		0.250	0	0	NR	NR	NR	0
NJ MAJOR FACILITIES		0.500	0	0	1	NR	NR	1
NY CBS AST		0.250	0	0	NR	NR	NR	0
NY HIST AST		TP	NR	NR	NR	NR	NR	0
NJ HIST MAJOR FACILITIES		0.500	0	0	0	NR	NR	0
NY MOSF AST		0.500	0	0	0	NR	NR	0
NJ MANIFEST		0.250	0	0	NR	NR	NR	0
NY MANIFEST		0.250	0	0	NR	NR	NR	0
NJ Release		TP	NR	NR	NR	NR	NR	0
NJ Spills		TP	NR	NR	NR	NR	NR	0
NY Spills		0.125	0	NR	NR	NR	NR	0
NY Hist Spills		0.125	0	NR	NR	NR	NR	0
NJ ENG CONTROLS		0.500	0	0	1	NR	NR	1
NY ENG CONTROLS		0.500	0	0	0	NR	NR	0
NJ INST CONTROL		0.500	0	0	1	NR	NR	1
NY INST CONTROL		0.500	0	0	0	NR	NR	0
NJ VCP		0.500	0	0	1	NR	NR	1
NY VCP		0.500	0	0	0	NR	NR	0
NJ DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NY DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NJ BROWNFIELDS		0.500	0	0	0	NR	NR	0
NY BROWNFIELDS		0.500	0	0	0	NR	NR	0
NJ ISRA		0.500	0	0	1	NR	NR	1
NJ NJPDES		TP	NR	NR	NR	NR	NR	0
NY SPDES		TP	NR	NR	NR	NR	NR	0
NY AIRS		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

APPENDIX 3C

APPENDIX 3C

EDR CITY DIRECTORY ABSTRACT

The EDR-City Directory
Abstract

Phase 2 - Cytec Property Redevelopment
55 Salt Meadow Road
Carteret, NJ 07008

Inquiry Number: 1726514.6

Friday, August 04, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1970 through 2004. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: August 4, 2006

Target Property:
55 Salt Meadow Road
Carteret, NJ 07008

Year	Uses	Source
1970	Street Not Listed in Research Source	Street Address City Directory
1975	Street Not Listed in Research Source	Street Address City Directory
1980	Street Not Listed in Research Source	Street Address City Directory
1985	Street Not Listed in Research Source	Street Address City Directory
1990	Street Not Listed in Research Source	Street Address City Directory
1995	Street Not Listed in Research Source	Street Address City Directory
2000	Address Not Listed in Research Source	Street Address City Directory
2004	Address Not Listed in Research Source	Street Address City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
Carteret, NJ 07008

Year	Uses	Source
1970	Street Not Listed in Research Source	Street Address City Directory
1975	Street Not Listed in Research Source	Street Address City Directory
1980	Street Not Listed in Research Source	Street Address City Directory
1985	Street Not Listed in Research Source	Street Address City Directory
1990	Street Not Listed in Research Source	Street Address City Directory
1995	Street Not Listed in Research Source	Street Address City Directory
2000	**Salt Meadow Road**	Street Address City Directory
	Ab Dauman Industries (33)	Street Address City Directory

Year	*Uses*	*Source*
2000	No other street listings	Street Address City Directory
2004	****Salt Meadow Road****	Street Address City Directory
	Ab Dauman Industries (33)	Street Address City Directory
	No other street listings	Street Address City Directory

APPENDIX 3D

APPENDIX 3D

INDUSTRIAL DIRECTORY SEARCH REPORT

2055 East Rio Salado Parkway, Suite 201
Tempe, Arizona 85281
Phone: (480) 967-6752
Fax Number: (480) 966-9422
Web Site: www.netronline.com

INDUSTRIAL DIRECTORY SEARCH REPORT

PHASE 2 - CYTEC PROPERTY REDEVLOPMENT
55 SALT MEADOW ROAD
CARTERET, NEW JERSEY

Submitted to:

ENVIRONMENTAL DATA RESOURCES, INC.
C/O
SESI CONSULTING ENGINEERS
12A Maple Avenue
Pine Brook, New Jersey 07058
(973) 808-9050

Attention: Suresh Puppala

Project No. D06-5032

Thursday, August 31, 2006

NETR Real Estate Research and Information, LLC (NETR) hereby submits the following Industrial Directory Search Report as required in the State of New Jersey Preliminary Assessment Report in accordance with the Technical Requirements N.J.A.C. 7:26E-3.1.ii. as well as a means toward meeting the minimum requirements of the due diligence requirements of the innocent purchaser defense as defined by N.J.S.A. 58:10-23-.11g.

The most recent directory listing for the subject property is as follows:

No listing in the "Industrial Directories" was found for the name of Phase 2 Cytec Property Development or the address of 55 salt Meadow Road located in Carteret, New Jersey.

1. INDUSTRIAL DIRECTORY REPORT

1.1 INTRODUCTION TO THE DIRECTORY SOURCE OF INFORMATION:

As a part of this Industrial Directory Report, NETR reviewed all readily available industrial directories. The Trenton City Library and the New Jersey State Library both located in Trenton, New Jersey maintain a collection of Industrial Directories from 1901 to current. These directories began in 1901 under the auspices of the New Jersey State Department of Labor. Intervening editions were published in 1906, 1909, 1915, 1918, 1927, 1931, 1934, 1938, 1940-41, 1943-44, 1946-47 and 1949-50 and continued the biennial issuance until 1961. The 1962 addition was the first annual edition and was continued annually, thereafter until 1981. From 1982 to 1994 the directories were called MacRae Directories. The most recent directories' reviewed are the 1995 to 1998 Harris Official New Jersey Manufacturers Directory and the 1999 to 2003 New Jersey Manufacturers Register. A review of all available resources listed above produced the following Industrial Directory Report:

1.2 HISTORY OF PROPERTY:

1. 1901-1961 NEW JERSEY STATE INDUSTRIAL DIRECTORY:
   OCCUPANT: Subject property not listed.
   MANUFACTURES:
   SIC CODE(S):
   ADDRESS:
   TELEPHONE NO:

2. 1965 NEW JERSEY STATE INDUSTRIAL DIRECTORY:
   OCCUPANT: Subject property not listed
   MANUFACTURES:
   SIC CODE(S):
   ADDRESS:
   TELEPHONE NO:

3. 1975 NEW JERSEY STATE INDUSTRIAL DIRECTORY:
   OCCUPANT: Subject property not listed
   MANUFACTURES:
   SIC CODE(S):
   ADDRESS:
   TELEPHONE NO:

4. 1980 NEW JERSEY STATE INDUSTRIAL DIRECTORY:
   OCCUPANT: Subject property not listed
   MANUFACTURES:
   SIC CODE(S):
   ADDRESS:
   TELEPHONE NO:

5. 1985 MACRAE'S STATE INDUSTRIAL DIRECTORY:
   OCCUPANT: Subject property not listed
   MANUFACTURES:
   SIC CODE(S):
   ADDRESS:
   TELEPHONE NO:

6. 1990 MACRAE'S STATE INDUSTRIAL DIRECTORY:
   OCCUPANT: Subject property not listed
   MANUFACTURES:
   SIC CODE(S):
   ADDRESS:
   TELEPHONE NO:

7. 1994 MACRAE'S STATE INDUSTRIAL DIRECTORY:
   OCCUPANT: Subject property not listed
   MANUFACTURES:
   SIC CODE(S):
   ADDRESS:
   TELEPHONE NO:

8. 1995, 1998, 2002 HARRIS' NEW JERSEY MANUFACTURER'S DIRECTORY:
   OCCUPANT: Subject property not listed
   MANUFACTURES:
   SIC CODE(S):
   ADDRESS:
   TELEPHONE NO:

9. 2000 NEW JERSEY MANUFACTURER'S REGISTER:
   OCCUPANT: Subject property not listed
   MANUFACTURES:
   SIC CODE(S):
   ADDRESS:
   TELEPHONE NO:

10. 2003 NEW JERSEY MANUFACTURER'S REGISTER:

OCCUPANT: Subject property not listed
MANUFACTURES:
SIC CODE(S):
ADDRESS:
TELEPHONE NO:

2. LIMITATION

This report was prepared for the use of Environmental Data Resources, Inc., and SESI Consulting Engineers, exclusively. NETR does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved from the various agencies that make it available. NETR assumes no liability to any party for any loss or damage whether arising out of errors or omissions, negligence, accident or any other cause. In no event shall NETR, its affiliates or agents, be liable to anyone for special, incidental, consequential or exemplary damages. The total liability is limited to the fee paid for this report.

APPENDIX 3E

APPENDIX 3E

TREMLEY POINT INDUSTRIAL HISTORY

ColorantsHistory.Org

Tremley Point Industrial History

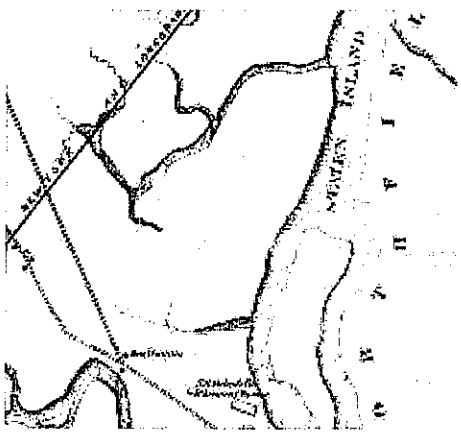
The Tremley Point industrial area, in the eastern section of Linden, New Jersey, was once a major center for chemical plants and oil refineries. Anyone driving on the New Jersey Turnpike during this era will remember the forest of chemical towers and tanks along with the hazy, malodorous atmosphere. But in earlier days there were few complaints because the industries employed 10,000 workers in high paying jobs. Today the Bayway Refinery is still operating, but most of the chemical plants are gone, victims of global competition, obsolescence, and costly environmental compliance issues. The neighborhoods surrounding the plants have also changed. The European immigrants who lived in company supplied housing after World War I were hardly in a position to complain about soot and odors. The residents today represent new racial and ethnic groups and are no longer dependent on the nearby industries for their livelihood. They are actively involved in the redevelopment of the area to ensure a safe and healthy living environment. But the departure of the Tremley industries has raised taxes for Linden residents, who once enjoyed the lowest tax rate in the state.

New Jersey Turnpike at Linden, with Exxon Oil Refinery in Background Image: EPA, July 1973. Click to Enlarge

The early colonial settlers established farms in the rich flat land bordered by marshes. A Huguenot named Traubels settled on the peninsula in the 17th century, changing his name to Trembley. Over time the area's name became known as Tremley Point or simply Tremley. During the Revolutionary War both armies traversed Union County, subjecting the area residents to skirmishes and foraging raids by the troops. The area was in the thick of fighting because the land between New York and Philadelphia was wanted by the English to split the American colonies apart. English loyalists from East Jersey fled to Staten Island, where General Howe was stationed by 1776. They may have used the Tremley Point Road to access the ferry to Staten Island. This ferry crossing was operated by Peter Trembley. The English raids continued until 1783 when the struggle for independence was won.

The Pennsylvania railroad came to Linden in 1835-1836, connecting Philadelphia and New York, and helped Linden attract businessmen who commuted to jobs in New York. Although farming and cattle raising remained important occupations, small industries began to develop such as grist mills, saw mills, tanneries, breweries, brick works, and iron works. The Township of Linden formed in 1861 and included Tremley.

The coming of industry was aided by the railroad, easy sea access by the Kill von Kull or Rahway River, ample land area, and proximity to New York. By 1872 two industries, the Russell Coe Bone Factory and the S. S. Fales Chemical Works, were operating in Tremley.



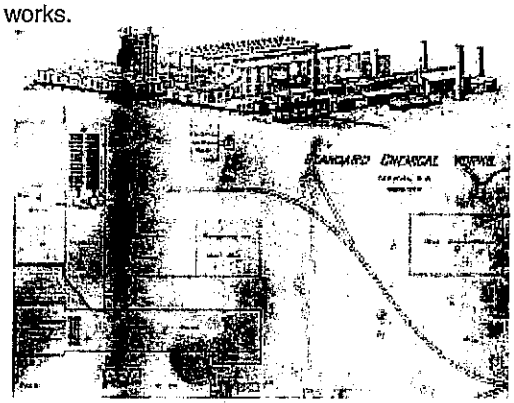
Tremley Point Map ca. 1880 Showing Russell Coe Bone Factory and S. S. Fales Chemical Works. Click to Enlarge.

The Russell Coe Bone Factory produced "Ammoniated Super-Phosphate of Lime", an early chemical fertilizer. In 1840 the renowned German chemist Justus von Liebig had recommended adding phosphate compounds to the soil to benefit crops. The fertilizer was prepared by digesting ground and calcined animal bones with sulfuric acid. Buffalo bones were commonly used. The sulfuric acid was likely produced by the nearby S. S. Fales Chemical Works, built and operated by Levi S. Fales. Fales was born around 1825 in Vermont and became a chemist and inventor. In 1855-1860 he worked in the oil refining industry near Boston. He was issued the following U. S. patents which illustrate his expertise in the petroleum and acid recovery fields:

1) No. 49,739, September 5, 1865 for an improved process of distilling petroleum.
2) No. 49,740, September 5, 1865 for an improved method of setting stills.
3) No. 93,072, July 27, 1869 for an improved apparatus for evaporating ammoniacal and other liquids.
4) No. 97,182, November 23, 1869 for the recovery of spent acid from refinery waste.

The refineries in the metropolitan area provided the waste sulfuric acid for the Fales factory. But the Fales and Coe factories were relatively short-lived. The supply of Buffalo bones dwindled as the herds were wiped out. Phosphate rock mining then provided the raw material for chemical fertilizer. By 1880 Levi S. Fales had moved to Virginia. The production of higher grades of sulfuric acid, by burning sulfur, would soon become a large industry in Tremley.

In the early 1870s, the Marsh & Harwood Company of Ohio organized the Standard Chemical Company for the purpose of manufacturing sulfuric acid on Newtown Creek, near Long Island City in New York. But neighborhood complaints about the noxious fumes resulted in the plant being relocated to Tremley in 1880. The advantages of the area included few nearby residents, a Central Railroad station at Tremley, and a dock on the Kill von Kull. But the ground was low and marshy, requiring the driving of piles 25 to 30 feet deep in order to support the buildings. The plant , just three or four feet above the water at high tide, could be reached only by boat or a plank walk. The sulfuric acid unit, based on the chamber process, was setup in 1884 and a second unit followed. An ammonium sulfate unit and a sludge acid works were built but quickly shutdown due to production problems. The business lost money and was acquired at a discount in 1889 by the Grasselli Chemical Company of Cleveland. Caesar A. Grasselli, head of the firm, wanted an eastern location to better compete with rivals in the sulfuric acid market. He selected John Metz, a chemical engineer on his staff, to manage the Tremley works.



Plan of Standard Chemical Works 1880-1894
Source: Williams Haynes, *Chemical Pioneers* (1939)

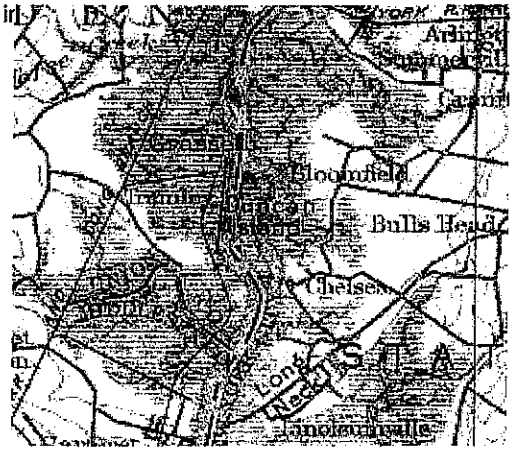
In 1891burglars broke into the Grasselli Chemical office in Tremley and blasted the safe open with dynamite. Platinum, a catalyst used in the manufacture of sulfuric acid, was stolen. It was the second time the office was robbed.

The Grasselli Chemical site included 300 acres and 1.5 miles of waterfront. A disadvantage was the lack of a fresh water supply. All water had to be delivered by wooden canal boats from Elizabethport. The boats leaked and salt water intrusion did heavy damage to the plant boilers. Workers had to bring drinking water from home in earthenware jugs. The lack of a railroad siding was another deficiency. All shipments of raw materials and final products were done by boat. Water shipments were hampered in the winter by ice, making the freight charge as costly as the cargo.

The Elizabethport Water Company was persuaded to supply fresh water and constructed a pipeline into the plant. The Central Railroad of New Jersey agreed to build a rail line to connect with the main line at Tremley. The first track sunk due to the soft soil and had to be rebuilt on ballast at a cost of almost $75,000.

The new rail line enabled the plant to grow and profits improved. A few years later, the Jersey Shore Line was planned to run along the waterfront. Caesar A. Grasselli, remembering the favorable treatment accorded to him by the railroad earlier, gave the railroad a 50

foot easement through the plant property. The railroad named the station at the plant "Grasselli" and this name became associated with the surrounding in



Industrial Area Is Named Grasselli-USGS Map 1905
Central R. R. Shore Line (North-South) Added
Click to Enlarge

The Grasselli Chemical Company acid plant employed 180 men and was rated in good condition according to a State of New Jersey inspection report in 1901. But it was a dangerous place to work. In 1900 worker Philip Berger was killed after being burned by acid. In 1902 Lewis Jenson fell into a vat and was badly burned; Michael Hyderick and Peter Leesnick were burned by acid in the same year.

In 1897 the W. J. Bush Company built a plant near Tremley to manufacture essential oils and flavorings. The company was established in 1851in London and had branches in New York and Montreal. It was later known as R. D. Webb & Company. Other industries operating around 1900 included the John Stephenson Company, maker of trolley cars on Brunswick Avenue, and the Linden Tanning Company. The Warner Quinlan Company, pioneered the manufacture of asphalt, giving its name to Warners, the geographical area of Lower Wood Avenue. The company employed around 20 men and years later became known as the Cities Service Linden Asphalt Refinery.

Tremley has always been plagued by mosquitoes due to the acres of wetlands. In 1902 a dairy farmer spent thousands of dollars on a herd of milk cows. Part of the 100 acre farm was made into artificial ponds filled with millions of gallons of water from artesian wells. The ponds were stocked with several varieties of fish. That summer hordes of mosquitoes attacked the cattle, killing many of them, especially the calves. The dairy farm went out of business and the land was put up for sale.

John D. Rockefeller, founder and chairman of Standard Oil, chose farmland between Linden and Elizabeth as the site for a new refinery. A large tract, formerly the Linden race track, was added in 1908. Standard Oil then controlled several hundred acres with a large frontage on Staten Island Sound and extending west and northwest across the Baltimore & Ohio, Pennsylvania, and Jersey Central railroads. Con 1909.

Standard Oil Refinery-1909
Photo: *City of Linden, New Jersey 1861-1961.*
Click to Enlarge

This Standard Oil refinery, which had capacity of 20,000 barrels of crude oil per day, was the company's largest on the East Coast. It became known as the Bayway Refinery.

The Grasselli Chemical Company entered the dye field in 1915 when dyes from Germany could no longer be imported because World War I was underway. The dye plant was built on the west side of the property, opposite the heavy chemicals operation on the east side bordering the Kill von Kull.

During World War I, the John Stephenson trolley car company was taken over by the Standard Aircraft Company to manufacture military airplanes. Victory Gardens sprung up in Tremley.

American Cyanamid built a large plant in 1916-1917 in the Tremley Point peninsula. This was known as the Warners Plant and its

buildings spread over 30 acres of waterfront property. The plant produced "Ammo-Phos", the first concentrated fertilizer available in the U. S. This was made by reacting ammonia, the product of reacting calcium cyanamide and steam, with phosphoric acid obtained from mixing sulfuric acid with phosphate rock. When the U. S. entered the war in 1917, the plant was devoted to ammonia and nitric acid for military purposes. The plant also made aluminum sulfate for water treatment and a broad range of organic chemicals including rubber accelarators, motor oil additives, fumigants (hydrocyanic acid) and insecticides. Several hundred people were employed. A new sulfuric acid unit, t control, came on stream in 1970.

View of Tremley Point Peninsula and American Cyanamid Warners Plant on Left Side of Photo Photo: EPA 1974. Click to Enlarge

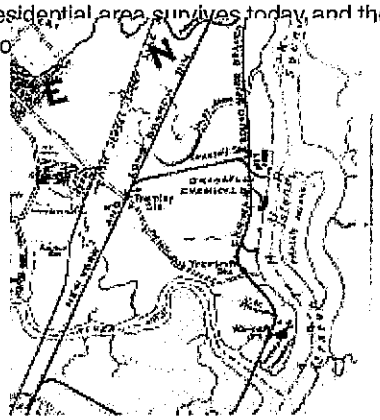
The plant discharged by permit 3.5 million gallons of chemical waste annually into the New York Bight. Chemical manufacturing was shutdown in 1998. Contaminated soil was cleaned up by thermal treatment and some areas were covered to prevent contact. Rahway River sediments were covered and the bulkhead was repaired to prevent the river from infiltrating the site.

In 1920 Standard Oil scientists in Linden were trying to invent useful products from gasoline by-products. They produced isopropyl alcohol, or rubbing alcohol. Isopropyl alcohol was the first commercial petrochemical (chemicals made from oil) ever made. In 1930 workers in the alcohol unit smelled escaping naphtha gas. An explosion then knocked men flat on the ground. Others were blown from roofs and scaffoldings 200 feet away. Men with clothes on fire staggered out of the building. The casualties were 13 killed and 54 hospitalized. The leaking naphtha gas had likely been ignited by a riveter's forge, a plumber's torch, or a gasoline motor—all within 100 yards of the fiery explosion.

Caesar A. Grasselli, head of the Grasselli Chemical company since 1882, died in 1927. Family members decided to divest the business in 1928. The heavy chemicals business and the East Plant were sold to Du Pont in a $65 million stock deal. The dye business and the West Plant were acquired by I. G. Farben, the German dye cartel. The former Grasselli plant was now split down the middle into 150 acre parcels by the Central Railroad. The West Plant was now called the General Aniline Works and the East Plant was known as the Grasselli Chemical Division of Du Pont.

In order to house the growing number of workers for the chemical industry, John Fedor started the Realty Estates of Linden in 1907 and began to develop areas both east and west of Edgar Road (U. S. Route 1today). In 1916 he formed the John Fedor Realty Company and continued developing the area east of Edgar Road, including the tract now known as Tremley Point. The Fedor family names of Irene, Walter and Arthur were used for streets in the eastern portion of the community. The Grasselli Chemical Company completed the community by building the homes west of Main Street shortly after World War I. A community center, later known as Monsignor Komar Hall, was also built by the company. (Source: Lauren Pancurak Yeats, *Linden New Jersey,* Arcadia, Charleston, SC, 2002)

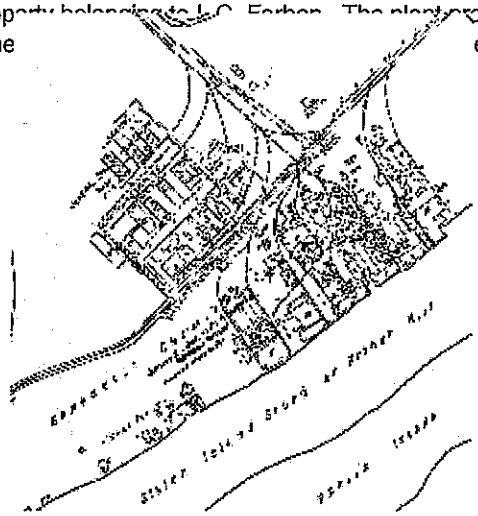
The wide, tree lined Main Street divided the community into two ethnic sections: Grasselli Park, housing Irish and English families whose men were supervisors, and Tremley, whose residents were mainly Polish and Slovak immigrant workers, attracted by the opportunity to land good paying jobs. Occupants were initially given 99-year leases but later had the opportunity to purchase the homes. Remarkably, this residential area survives today and the homes have been well maintained. The 900 residents are surrounded by petroleum sto



Grasselli Chemical and American Cyanamid Plants-1923 Map Central R. R. Had Three Stations to Service Tremley Industries Workers Homes on Left. Click to Enlarge

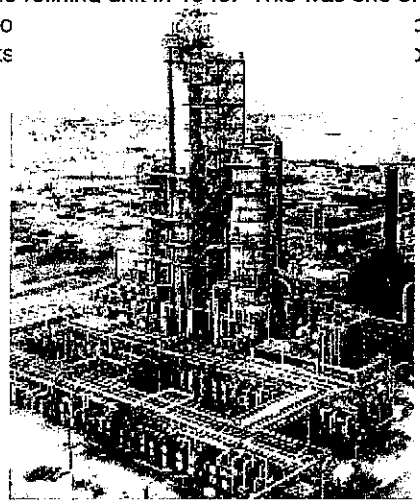
Click Here for Aerial Photo of Tremley Neighborhood Today

The General Aniline Works became part of General Aniline and Film Corporation in 1939. The U. S. government seized the plant in 1942 as enemy prop[illegible] [illegible]oduced record quantities of dyes and other chemicals needed for World War II. All the [illegible]e and many women were hired to replace men serving in the armed forces.



1940's Site Plan of General Aniline and Film Corp. (West Plant) and Grasselli Chemical Co. Division of Du Pont (East Plant) Source: Sanborn Map Co. 1958. Click to Enlarge

Standard Oil built a $26 million gasoline refining unit in 1949. This was one of the largest industrial investments in Linden and was based on fluid catalytic cracking techno[illegible]peratures, low pressure, and a catalyst to create a chemical reaction that efficiently breaks[illegible]lecules.

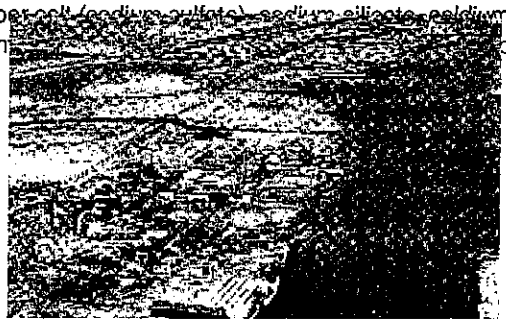


Bayway Refinery Cat Cracker for Gasoline Photo: *Eastern Union County, New Jersey,* 1969 Click to Enlarge

Click Here for Aerial Photo of Bayway Refinery Today

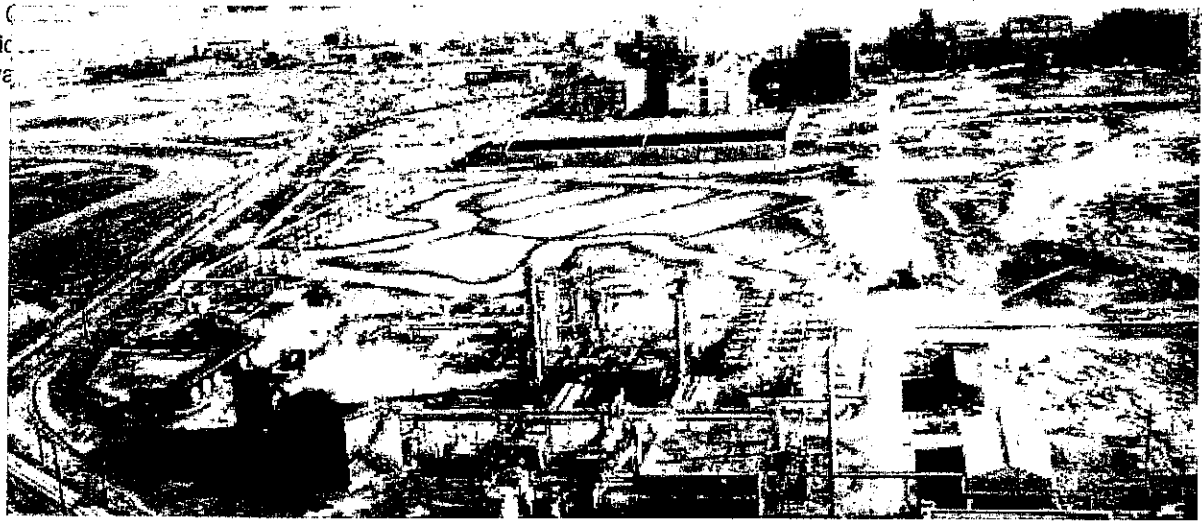
The Bayway Refinery has undergone many changes and corporate owners, but is still operating today as ConocoPhillips. The capacity is 250,000 barrels a day. ConocoPhillips also owns a bulk gasoline loading terminal at Tremley Point. The company has agreed to invest $8 million to install an oil/water separator to reduce organic compound emissions and to reduce emissions of nitrogen oxide, sulfur dioxide and associated odors. The petrochemical plant at the Bayway Refinery is now owned by Infineum, which is spending $5 million on a new incinerator to reduce emission events.

When Du Pont took over the Grasselli Chemical Company in 1928, it acquired the 150 acre East Plant along the Kill. There were 51 buildings atop 100,000 piles in the marshy land. At that time 25 products were made including sulfuric, muriatic, nitric and battery acids, lithopone, glauber salt (sodium sulfate), sodium silicate, sodium phosphate and trisodium phosphate. These chemical building blocks went in ophane, detergents, shampoos, rayon, paints, pigments and flashlight batteries. In

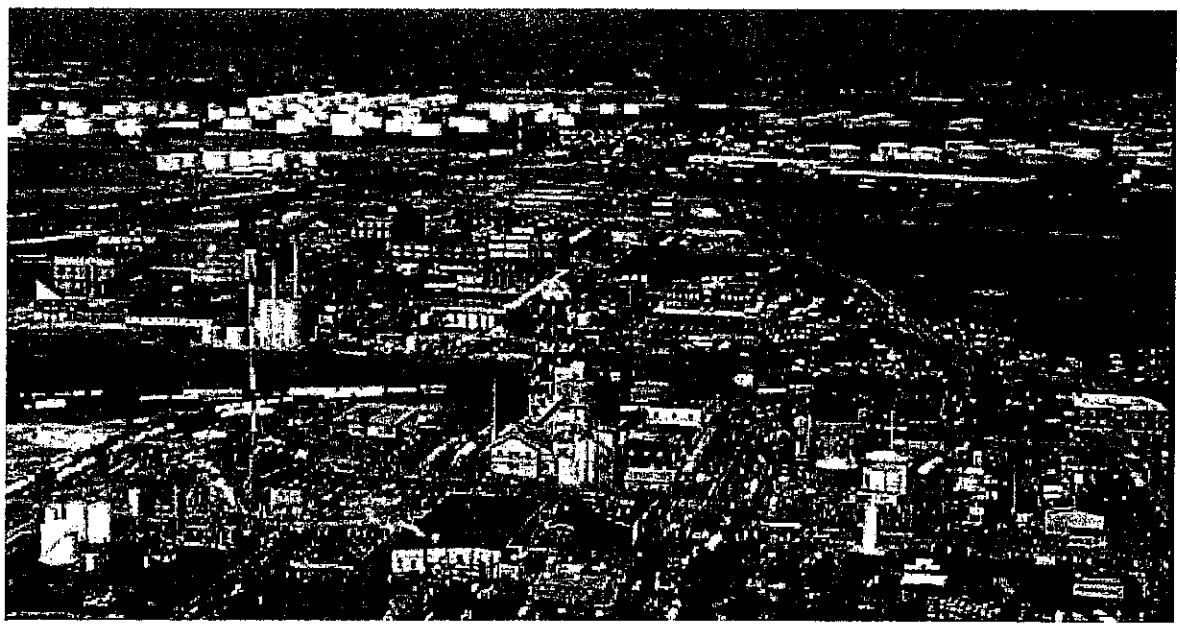


Du Pont Grasselli Plant on Arthur Kill, ca. 1961
Photo: *City of Linden, New Jersey 1861-1961.*
Click to Enlarge

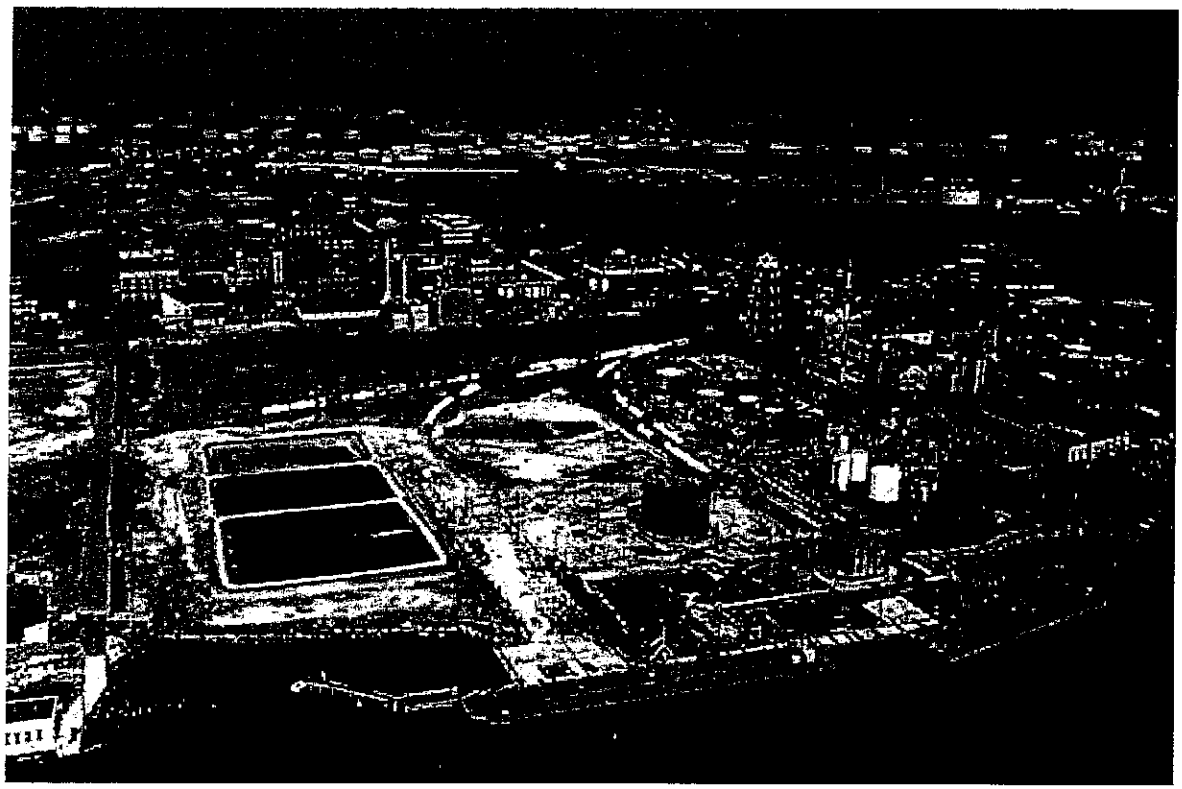
The U. S. government finally allowed General Aniline and Film Corporation to become a private company in 1965. The name was changed to (difficult for the domestic caustic soda and wa



Aerial View Looking East of GAF Linden Plant
Ethylene Oxide/Glycols Unit in Foreground; Dye Works in Background
Photo: *Eastern Union County New Jersey*, 1969



Aerial View Looking West of Du Pont and GAF Plants. Du Pont Plant In Foreground Along Arthur Kill GAF Plant Slightly West of DuPont Plant. Bayway Refinery Tanks in Background Photo: EPA 1974

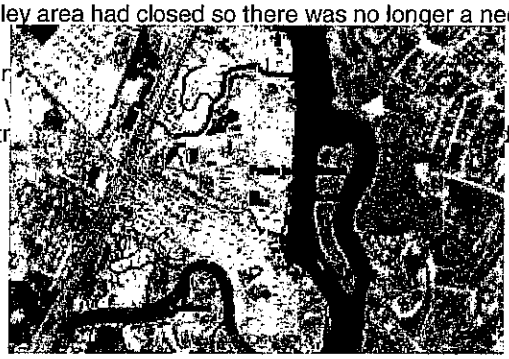


Aerial View Looking Northwest of Du Pont and GAF Plants. Du Pont Plant In Foreground Along Arthur Kill GAF Plant Slightly West of DuPont Plant. Photo: EPA 1974

By 1977 the GAF dye business had lost ground to competitors and was burdened by high environmental compliance costs. Dye production was shutdown in 1978. Surfactants production ended in 1991. The Du Pont plant also shutdown around that time.

For years GAF and its successor ISP Corporation tried to obtain a state of New Jersey permit for a hazardous waste incinerator at the Linden site. The $125 million facility would have burned 50,000 tons of hazardous waste annually. The neighborhood residents were vehemently opposed due to health concerns. After a twelve year effort, the permit request was shelved in 2001. All the major chemical plants in the Tremley area had closed so there was no longer a need for the incinerator facility.

ISP spent $37 million cleanin e and demolishing the buildings. Mercury contamination from the chlorine operation, is being addressed under Superfund. ISP hopes to redevelop the area as a distr easy access for highway, rail, and sea transportation.



Aerial View of Tremley ca. 2002
Photo: GoogleEarth, Copyright by State of New Jersey
Click to Enlarge

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Home	Contact Us	Current Industry News	Further Reading	Search Site	Site Map

APPENDIX 3F

APPENDIX 3F

MISCELLANEOUS

SESI Letter, to USEPA, dated 09/07/06.
SESI Letter, to Carteret Fire Department, dated 09/07/06.
SESI Letter, to Middlesex Public Health Department, dated 09/07/06.
Letter from USEPA, FOIA Specialist, dated 09/20/06.
Letter from USEPA, dated 10/10/06.
Telephone Conversation Memo, Carteret Fire Department, dated 09/15/06.
Letter from Middlesex Public Health Department, dated 09/18/06

SESI
CONSULTING
ENGINEERS

Geotechnical & Foundations
Land Planning
Structural
Environmental
Water Resources

Principals:

Jay Adam, PE
Steven Byszewski, PE, PP
William St. Pierre, PE
Christopher F. Zwingle, PE

September 7, 2006

EPA Main Office – Region 2
ATTN: FOIA Public Records Administrator
290 Broadway
New York, New York 10007-1866

Re: Request for Environmental Records
55 Salt Meadow Road, Carteret, New Jersey 07008

To Whom It May Concern:

SESI Consulting Engineers (SESI) is conducting a Preliminary Assessment (PA) of the formerly utilized Cytec property, located at 55 Salt Meadow Road, Carteret, New Jersey 07008 (the Site). SESI is conducting the PA in order to evaluate the presence of potential environmental Areas of Concern (AOCs) in accordance with N.J.A.C. 7:26E, Technical Requirements for Site Remediation.

In accordance with the Freedom of Information Act (FOIA), 5 U.S.C. § 552, amended 2002, SESI requests access to any applicable Site-specific information in your possession. Examples of relevant records of interest may include, but not be limited to:

- Historical operations;
- Reports of the spill or discharge of hazardous substances into the environment;
- Previous remedial investigations or actions;
- Historical environmental permit applications; and
- Documentation of emergency response actions conducted at the Site.

In order to obtain this information, SESI will be contacting you in the near future to schedule an appointment to the review the available documents. Otherwise, if more convenient for you, the information can be sent to SESI via mail, fax, or email at the addresses listed below. SESI appreciates your assistance with this matter.

Sincerely,

SESI CONSULTING ENGINEERS

Gregory J. Quimby, PE
gjq@sesi.org

SESI
CONSULTING
ENGINEERS

Geotechnical & Foundations
Land Planning
Structural
Environmental
Water Resources

Principals:

Jay Adam, PE
Steven Byszewski, PE, PP
William St. Pierre, PE
Christopher F. Zwingle, PE

September 7, 2006

Carteret Fire Department
240 Roosevelt Avenue
Carteret, New Jersey 07008

Re: Request for Environmental Records
55 Salt Meadow Road, Carteret, New Jersey 07008

To Whom It May Concern:

SESI Consulting Engineers (SESI) is conducting a Preliminary Assessment (PA) of the formerly utilized Cytec property, located at 55 Salt Meadow Road, Carteret, New Jersey 07008 (the Site). SESI is conducting the PA in order to evaluate the presence of potential environmental Areas of Concern (AOCs) in accordance with N.J.A.C. 7:26E, Technical Requirements for Site Remediation.

In accordance with the New Jersey Open Public Records Act (OPRA) or Freedom of Information (FOI) Law (P.L. 2001, Chapter 404, N.J.S. 47:1A-1 et seq.), SESI requests access to any applicable Site-specific information in your possession. Examples of relevant records of interest may include, but not be limited to:

- Historical operations;
- Reports of the spill or discharge of hazardous substances into the environment;
- Previous remedial investigations or actions;
- Historical environmental permit applications; and
- Documentation of emergency response actions conducted at the Site.

In order to obtain this information, SESI will be contacting you in the near future to schedule an appointment to the review the available documents. Otherwise, if more convenient for you, the information can be sent to SESI via mail, fax, or email at the addresses listed below. SESI appreciates your assistance with this matter.

Sincerely,

SESI CONSULTING ENGINEERS

Gregory J. Quimby, PE
gjq@sesi.org

SESI Fax

CONSULTING ENGINEERS * 12A MAPLE AVENUE * PINE BROOK, N.J. 07058
phone: 973-808-9050 * fax: 973-808-9099 *

To: Ms. Margaret Pemberton **From:** Greg Quimby

Org: Middlesex County Records Custodian **No. of Pages** (*including this page*) 3

Fax #: 732-745-3110 **Date:** 9/7/06 **Time:** 2:45 PM

Re: Records Request **CC:**

Job #: **Fax #:**

COMMENTS: Ms. Pemberton,

Please find our records request attached. If I can provide any further information, please let me know.

Thank you.

Signed: Greg Quimby

xmfax (12/97)

SESI
CONSULTING
ENGINEERS

Geotechnical & Foundations
Land Planning
Structural
Environmental
Water Resources

Principals:

Jay Adam, PE
Steven Byszewski, PE, PP
William St. Pierre, PE
Christopher F. Zwingle, PE

September 7, 2006

Ms. Margaret E. Pemberton
Clerk of the Board of Chosen Freeholders
County Administration Building – First Floor
75 Bayard Street
New Brunswick, New Jersey 08901

Re: Request for Environmental Records
55 Salt Meadow Road, Carteret, New Jersey 07008

Dear Ms. Pemberton:

SESI Consulting Engineers (SESI) is conducting a Preliminary Assessment (PA) of the formerly utilized Cytec property, located at 55 Salt Meadow Road, Carteret, New Jersey 07008 (the Site). SESI is conducting the PA in order to evaluate the presence of potential environmental Areas of Concern (AOCs) in accordance with N.J.A.C. 7:26E, Technical Requirements for Site Remediation.

In accordance with the New Jersey Open Public Records Act (OPRA) or Freedom of Information (FOI) Law (P.L. 2001, Chapter 404, N.J.S. 47:1A-1 et seq.), SESI requests access to any applicable Site-specific information in your possession. Records of interest for this request pertain primarily to those maintained by the County's Committee of Public Health and Planning Board, as SESI has conducted the Carteret Fire Department and Regional Environmental Protection Agency office separately. Specific example documents are listed in the attached request form.

In order to obtain this information, SESI will be contacting you in the near future to schedule an appointment to the review the available documents. Otherwise, if more convenient for you, the information can be sent to SESI via mail, fax, or email at the addresses listed below. SESI appreciates your assistance with this matter.

Sincerely,

SESI CONSULTING ENGINEERS

Gregory J. Quimby, PE
gjq@sesi.org

COUNTY OF MIDDLESEX, NEW JERSEY

REQUEST FOR PUBLIC RECORDS

All requests for public records must be submitted on the attached form. The Applicant must fill out each portion which is applicable to the request made. The fully completed form shall be submitted to the Custodian of Records:

Margaret E. Pemberton
Clerk of the Board of Chosen Freeholders
County Administration Building-First Floor
75 Bayard Street
New Brunswick, NJ 08901

Public records will normally be available in accordance with P.L. 2001, c 404, within seven (7) business days. Some records will be immediately available. In general:

1. Immediate access ordinarily shall be granted to budgets, bills, vouchers, contracts, including collective negotiation agreements and individual employment contracts, and public employee salary and overtime information. Minutes of public meetings will be generally available immediately after the minutes have been approved by the governing body.

2. If the Request for Public Records form is completed in a location other than the Clerk of the Board, First Floor, Middlesex County Administration Building, 75 Bayard Street, New Brunswick, New Jersey, it will be the responsibility of the department location to forward it to the Custodian of Records immediately for review. The requirement to comply within seven business days shall commence upon receipt by the Custodian of Records.

3. Records which are not readily available or which will require a search of records will be made available as soon as possible and the Applicant will be provided with an interim report within seven (7) business days indicating the amount of time which will be required to complete the search of the records.

4. Except as otherwise provided by law or regulation, the fee assessed for the duplication of a printed record shall be: first page to tenth page, $0.75 per page; eleventh page to twentieth page, $0.50 per page; all pages over twenty, $0.25 per page.

5. Where a request is for a copy in a format other than a photocopy, reasonable efforts will be made to provide the information in the format requested. There will be an additional charge based on the costs involved in providing the copy in the format requested.

6. Where a legal determination must be made as to whether the records are "public records" as provided by law, the request will be reviewed by the County Counsel and will generally be provided immediately after the Custodian of Records receives the determination from County Counsel or a Court that the records should be provided.

7. There is no fee for inspecting a public record during normal business hours.

8. Requests may be made in person, by mail, by fax or electronically at: OPRA-request@co.middlesex.nj.us

REQUESTOR INFORMATION
(please print legibly)

NAME: Gregory J. Quimby

ORGANIZATION (IF APPLICABLE): SESI Consulting Engineers

MAILING ADDRESS: 12A Maple Ave.

CITY/STATE/ZIP: Pine Brook, NJ 07058

HOME/BUSINESS PHONE: 973-808-9050 FAX NO. 973-808-9099

E-mail address: gjq@sesi.org

REQUEST MADE VIA: ( ) Office Visit
(X) Fax ( ) Electronically

Information Requested:

____ Copy of Minutes (specify board or entity, date, topic or other identifying information

____ Copy of Ordinance or Resolution (specify date, number or other identifying information)

X Other (specify)

Middlesex County Committee of Public Health and Planning Board environmental records for 55 Smith Meadow Road, Carteret, NJ 07008. May include: historical operations; reports of discharge of hazardous material, previous remedial investigations or actions, environmental permit applications, and/or emergency responses at location.

FORMAT REQUESTED: most convenient for county (office visit, fax, mail, or email)

(TO BE COMPLETED BY COUNTY DEPARTMENT)

Estimated number of pages: _____

The information requested will be ready on or about _____

Estimated Cost: _____

Deposit: (required where the anticipated cost Exceeds $10.00) _____

All payments must be made by cash, check or money order payable to the Middlesex County Treasurer. Checks returned for insufficient funds will be subject to a $20 service charge.

The Applicant hereby acknowledges receipt of a copy of this form with the date on which the information is expected to be available and the estimated cost. The applicant hereby certifies that he or she has not been convicted of any indictable offense under the laws of this State, any other state or the United States and is not seeking government records containing personal information pertaining to the victim or the victim's family as provided by P.L. 2001, c 404.

Requestor

Custodian of Records/Designee

Date Request Received

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2, 290 Broadway, 26th Floor
New York, NY 10007
212-637-3668
212-637-5046 (fax)
Calderon.Wanda@epa.gov

SESI CONSULTING ENGINEERS

SEP 20 2006

September 15, 2006

Mr. Gregory J. Quimby
SESI Consulting Engineers
12 Maple Avenue
Bldg A
Pine Brook, NJ, 07058
United States

RE: Request No: 02-RIN-02023-06

Dear Mr. Quimby,

This is to acknowledge receipt of your Freedom of Information Act (FOIA), 5 U.S.C. 552, request dated September 07, 2006 and received in this office on September 12, 2006, for records related to:

55 Salt Meadow Road in Carteret & 34 & 35 Meadowlands Pkwy in Secaucus both in NJS

The program(s) office(s) that have been assigned this request will be responding to you directly. The Agency has twenty (20) working days to respond to your request, except when you have agreed to an alternate due date or unusual circumstances exist that would require an extension of time under 5 U.S.C. 552 (a) (6) (B).

Include your FOIA request number in all subsequent communications with respect to this assignment. Additionally, for faster processing you may provide your email address.

Thank you.

Respectfully,

Wanda Calderon
FOIA Specialist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 290 Broadway
New York, NY 10007

SESI CONSULTING ENGINEERS

September 28, 2006

OCT 10 2006

Mr. Gregory J. Quimby
SESI Consulting Engineers
12 Maple Avenue, Bldg A
Pine Brook, NJ, 07058
United States

Re: Freedom of Information Request No. **02-RIN-02023-06**
Dated: September 07, 2006
Subject: 55 Salt Meadow Road in Carteret & 34 & 35 Meadowlands Pkwy in Secaucus in NJS

Dear Mr. Quimby:

Your request for information has been referred to this branch for response. We have searched our databases as appropriate to your request. However, our research did not reveal any air or water information that was responsive to your request. In addition, you may also receive more information from other program areas within this Regional Office.

Please be advised that now you can retrieve the environmental profile of a facility including information regarding toxic chemical releases, water permits, hazardous waste handling processes, "Superfund" status and air emissions from the EPA's web page. The address is www.epa.gov/enviro.

If you consider this response to be a denial, you may submit a written appeal to HQ FOIA OPERATIONS STAFF, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460. The appeal must be made in writing, and must be received within 30 calendar days of the date of this response to receive consideration. The Agency will not consider appeals received after the 30-day limit. The appeal should be marked "Freedom of Information Act Appeal," and should reference the Freedom of Information Request Number of this response.

Please include the above referenced request number(s) in any subsequent communication relating to this response.

Sincerely yours,

Patrick J. Harvey, Chief
Compliance Assistance and Program Support Branch

SESI CONSULTING ENGINEERS
12A Maple Avenue
PINE BROOK, NJ 07058-9742

Ph: (973) 808-9050
Fax: (973) 808-9099

Memo
LETTER

To Project File - 6747

Date

Subject Public Records Request

9/15 - followed up on records request sent to Middlesex County Records Custodian; she forwarded the request to the Health Department and directed me to Linda @ 732-745-3132. Attempted to call, but Linda was not available. I was instructed to call back on Monday 9/18.

9/15 - called the Carteret Fire Dept. to follow up on records request; spoke with Chief O'Connor who informed me they have no records on the Cytec property.

9/18 - received response via regular mail from Middlesex County Health Department.

☐ Please reply ☐ No reply necessary

SIGNED 9/20/06

David B. Crabiel
Freeholder Director

Stephen J. Dalina
Deputy Director

Camille Fernicola
H. James Polos
John Pulomena
Christopher D. Rafano
Blanquita B. Valenti
Freeholders

COUNTY OF MIDDLESEX
PUBLIC HEALTH DEPARTMENT
ADMINISTRATION BUILDING 5TH FLOOR
JOHN F. KENNEDY SQUARE
NEW BRUNSWICK, NJ 08901-3605

John Pulomena
Chairman

David A. Papi
Director

(732) 745-3100
Fax (732) 745-2568

SESI CONSULTING ENGINEERS

September 14, 2006

SEP 18 2006

SESI Consulting Engineers
12 Maple Avenue
Building A
Pine Brook, NJ 07058
Attention: Gregory J. Quimby, PE

Re: Copy Request – 55 Salt Meadow Road, Carteret, NJ 07008

Dear Mr. Quimby:

Pursuant to your request regarding the address referenced above, **Public Health Departments Hazmat and Environmental** does not have any files on this **Middlesex County** site.

If you have any **questions, please direct them to Linda A Soden at 732-745-3132..**

Thank you.

Very truly yours,

Dennis J. Cerami

Dennis J. Cerami
Management Specialist

DJC/las
cc: M. Pemberton
File

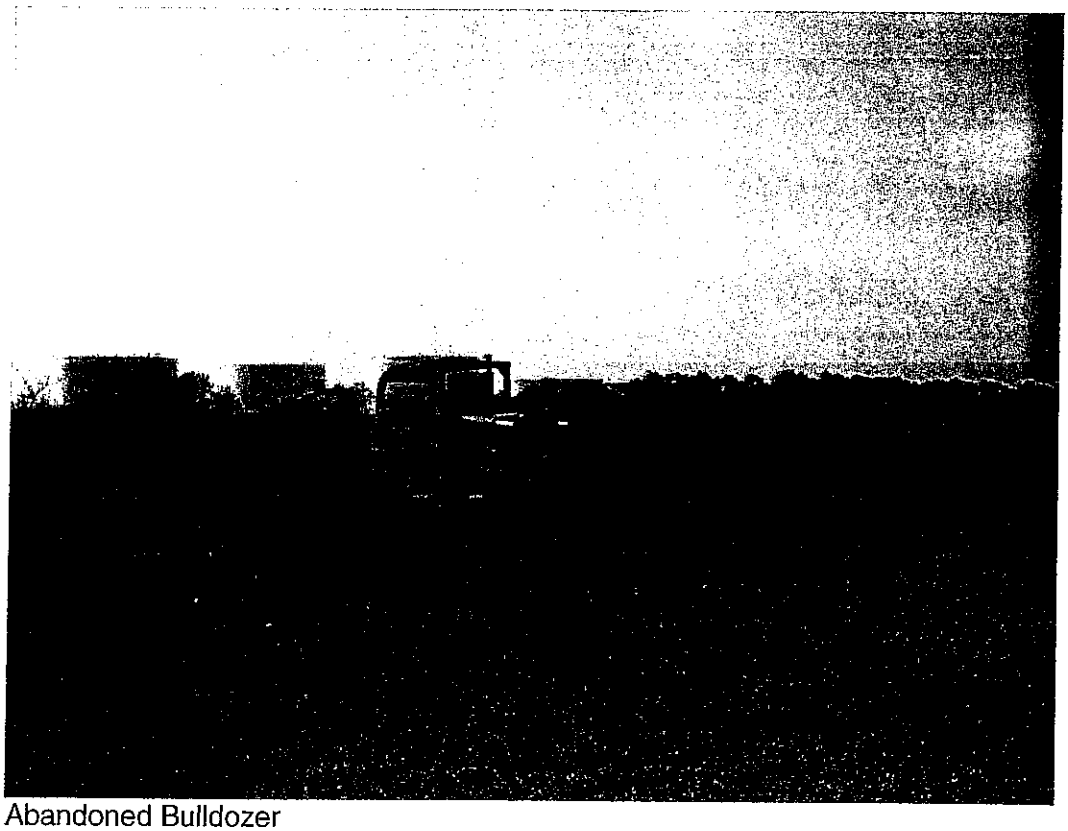
APPENDIX 4

APPENDIX 4

SITE INSPECTION PHOTOGRAPHS

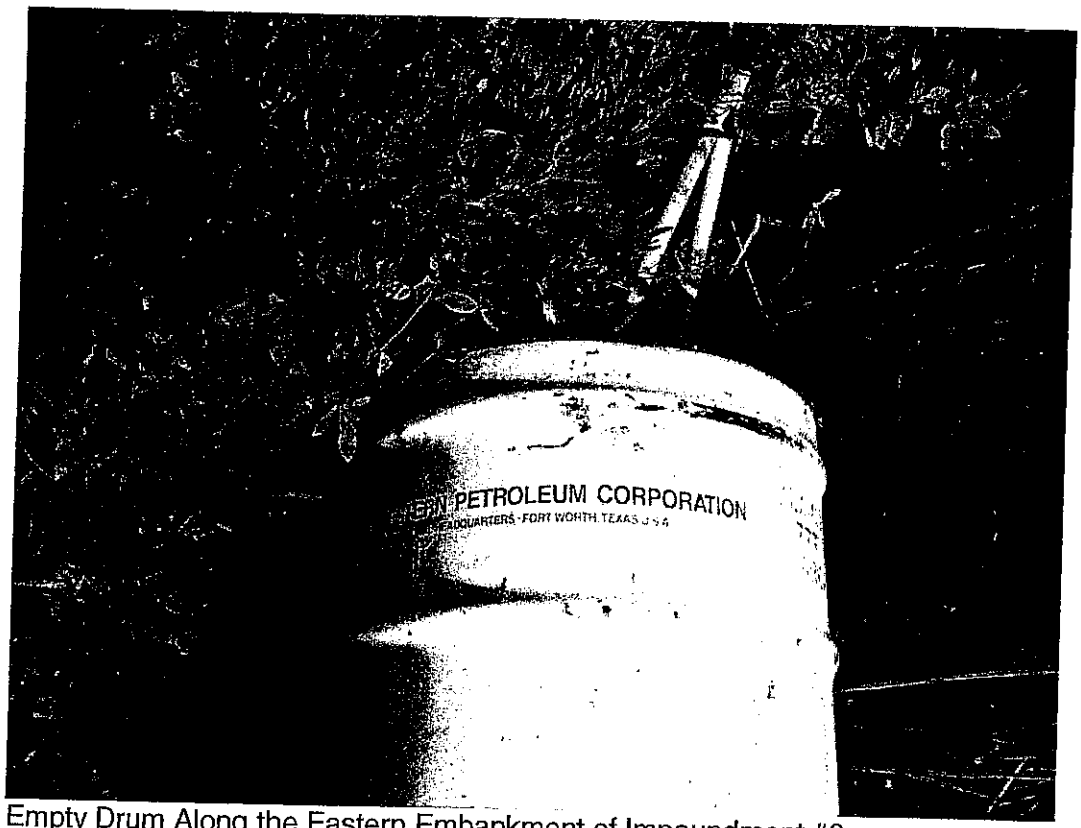
Adjoining Property Used as a Vehicle Storage Yard

Entrance to the Cytec Property



Abandoned Bulldozer

Branch of Cross Creek



Empty Drum Along the Eastern Embankment of Impoundment #3

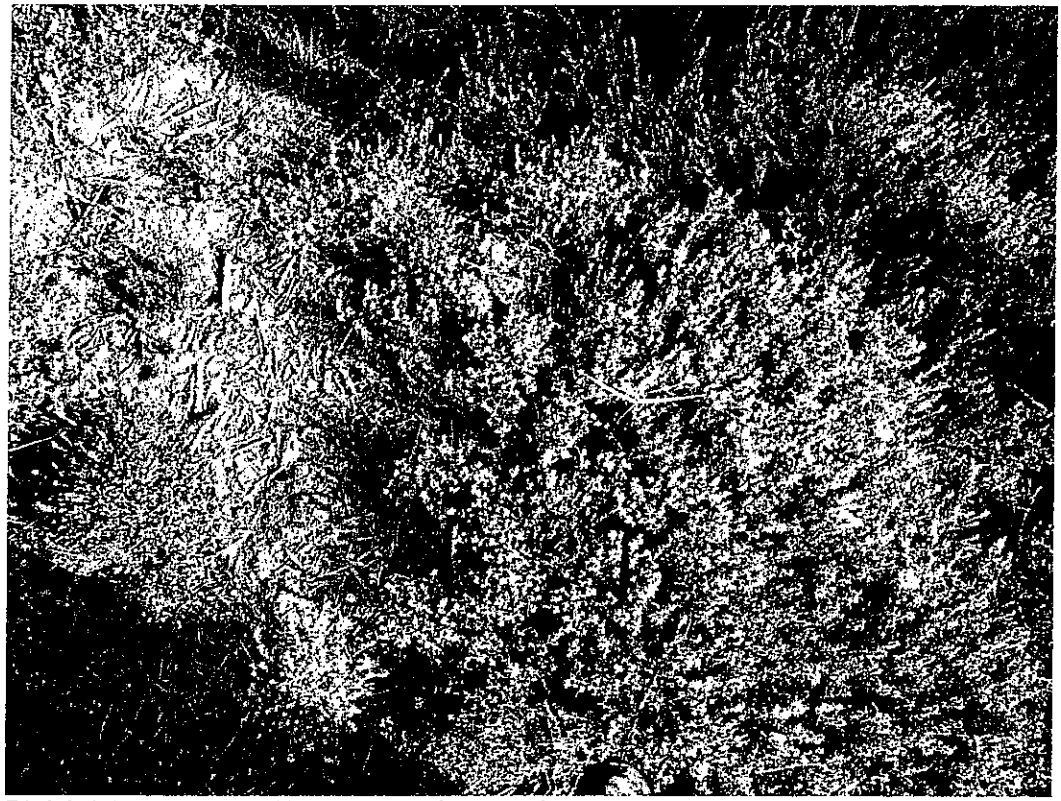
Oil Filter and Miscellaneous Items Next to the Empty Drum

Railroad Ties Leftover from Construction of Access Roads on-Site

Pipe most Likely Used to Pump Sludge from the American Cyanamid Plant to the Impoundments (Location is Southeastern Part of Impoundment #5)

Pipe most Likely Used to Pump Sludge from the American Cyanamid Plant to the Impoundments (Location is Southeastern Part of Impoundment #5)

Bluish Discoloration of Vegetation and Ground Cover Close to the Ground (Along the Access Road North of Impoundment #3)



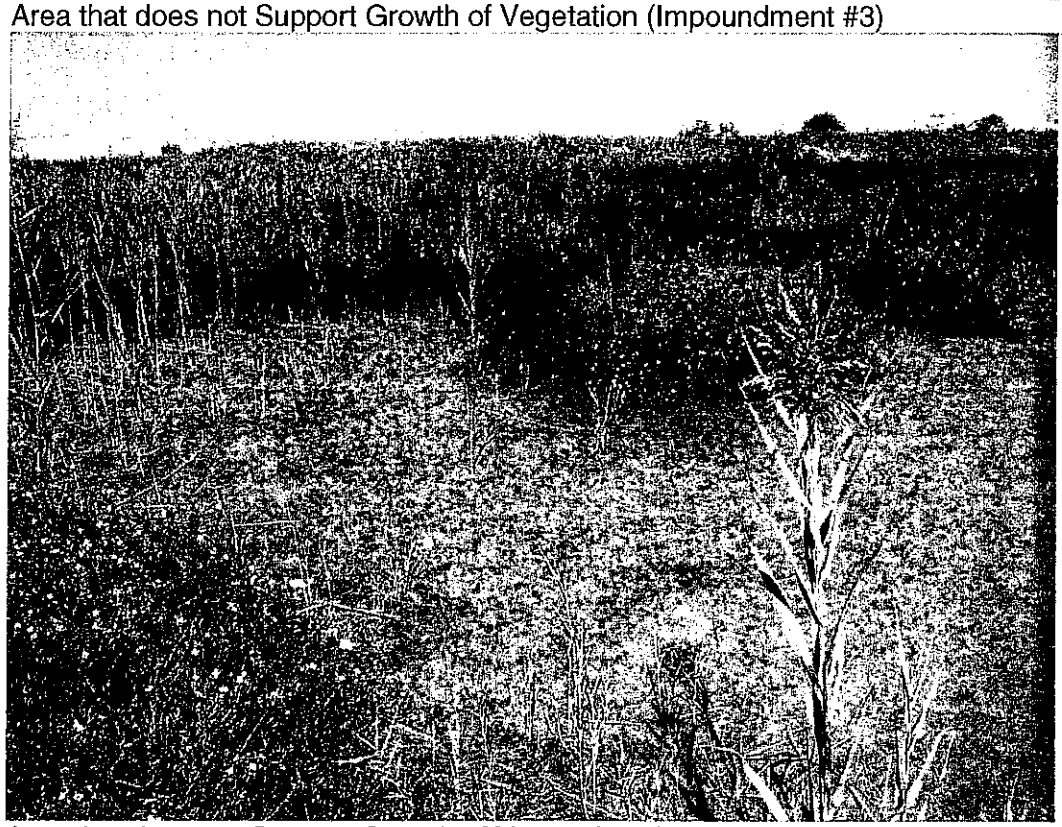
Bluish Discoloration Close to the Ground (Location is within Impoundment #6, Close to the Access Road East of Impoundment #6)

Area that does not Support Growth of Vegetation

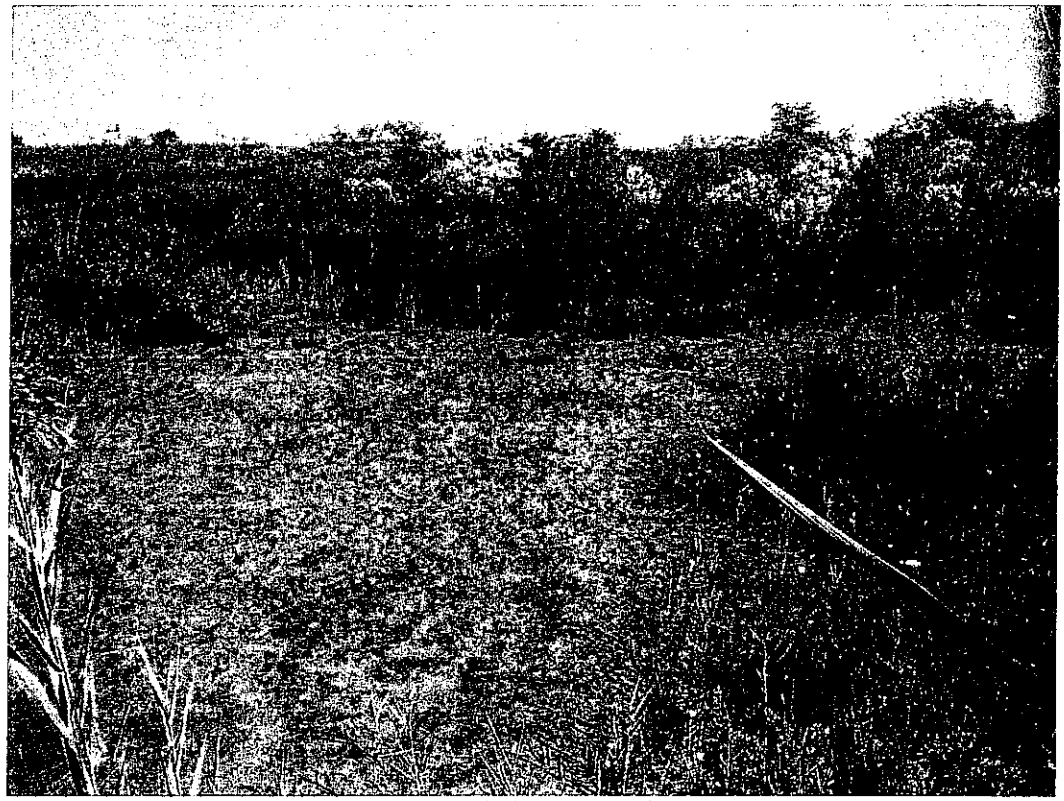
Area that does not Support Growth of Vegetation (Impoundment #3)

Area that does not Support Growth of Vegetation (Impoundment #3)

Area that does not Support Growth of Vegetation (Impoundment #3)



Area that does not Support Growth of Vegetation (Impoundment #4)

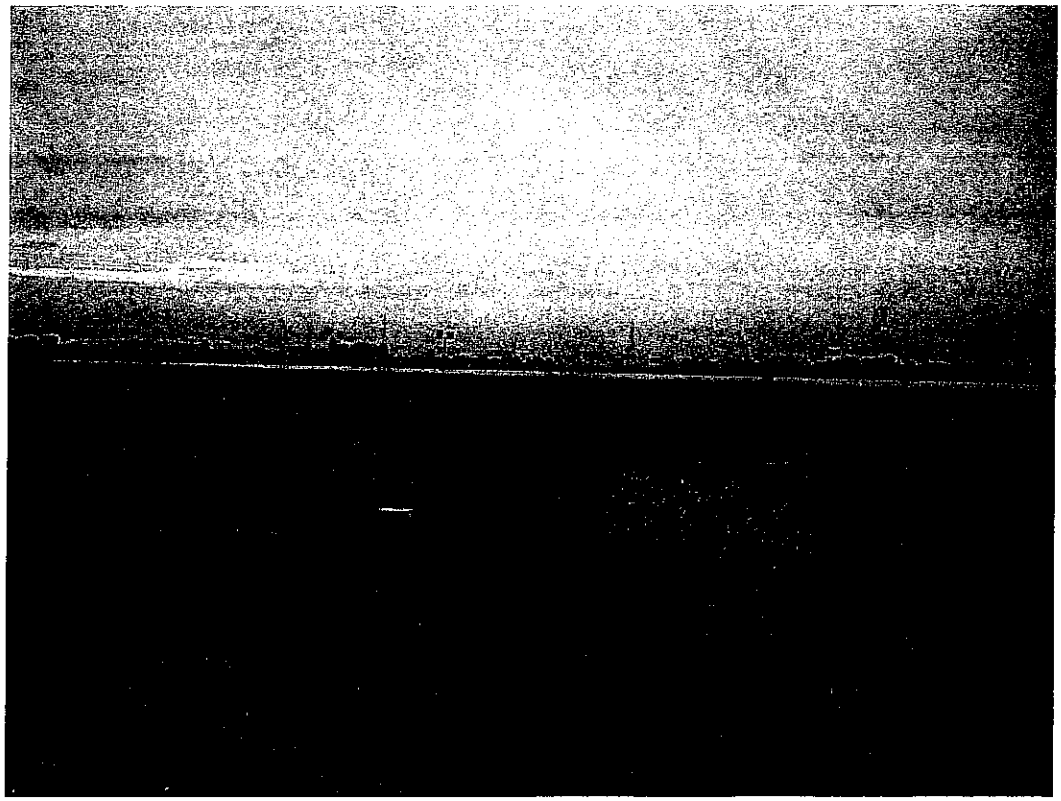


Area that does not Support Growth of Vegetation (Impoundment #4)

Access Road Along the Northeastern Edge of Impoundment #4

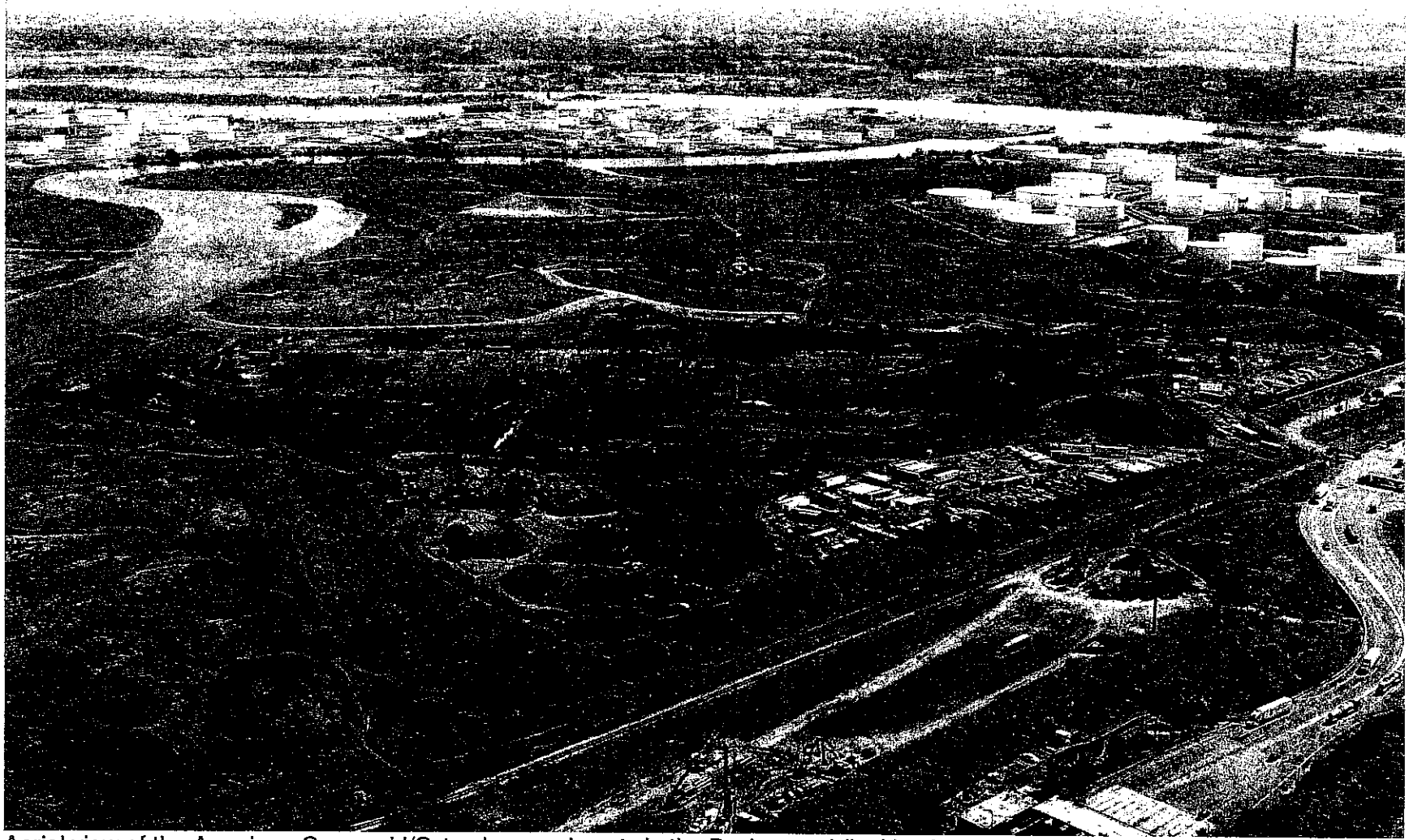
Area Southwest of Impoundment #4 (looking in a southerly direction)

Solid Waste Brought in by an Unusually High Tide (north of impoundment #3)



Existing Monitoring Wells MW-7S and MW-7D

Aerial view of the American-Cyanamid/Cytec Impoundments in the Background (looking in a northeasterly direction)



Aerial view of the American-Cyanamid/Cytec Impoundments in the Background (looking in an easterly direction)

APPENDIX 5

APPENDIX 5 - HAZARDOUS SUBSTANCES/WASTE INVENTORY AND SUMMARY OF WASWATER DISCHARGES OF SANITARY AND/OR INDUSTRIAL WASTE AND/OR SANITARY SLUDGE

The Site has been used for disposal of sludge generated from former American Cyanamid Company (ACC) located in Linden, south east of the Site (across the Rahway River). The Sludge present in the impoundments at the Site is reportedly associated with production of yellow prussiate of soda and alum. However, it is possible that contaminants associated with manufacturing of other ACC products (such as, sulfuric acid, acrylamide, polyacrylamide, surfactants, water/wastewater treatment chemical, mining/ore production chemicals, organophospate pesticides, sodiumhydrosulfide, disposal of phosphate waste associated with the incinerator' scrubber, etc.) are also present. An estimated 1.5 to 2 million tons of the sludge is present.

In the mid 1980s to encourage growth of vegetation to address nuisance issues associated with the migration of the dust from the lagoons, sludge from sanitary sewage treatment plants in Camden and Philadelphia area were utilized as "cap" for the impoundments.

APPENDIX 6

APPENDIX 6

AREAS OF CONCERN

AREAS OF CONCERN

The following areas of concern were identified during the site visit and review of documents associated with investigations completed to date. The site walk-through was limited to areas that were readily accessible by gravel access roads (areas such as Impoundment # 1 were not accessible for site inspection).

AOC # 1 – Residue Sludge Chemical Constituents

The six (6) on-site impoundments contain residue sludge associated with operations at the former Warner Plant. The sludge is primarily associated with the production of alum and yellow prussiate of soda (YPS). It is also possible that the sludge is impacted with compounds associated with production of various other products (e.g., sulfuric acid, acrylamide, polyacrylamide, methyl-bis-acrylamide, dimethyl phosphorochlorodithionate, surfactants, water/wastewater treatment chemicals, mining/ore production chemicals, organophospate pesticides, sodiumhydrosulfide, disposal of phosphate waste associated with the incinerator scrubber, phosphorus pentasulfide, cyclohexane, naphthalene solvent, isobutylalcohol, etc.) at this plant. While it may not be reasonable to test for all possible compounds, it is recommended that analyses for NJDEP soil clean-up criteria parameters be performed on a representative number of sludge samples.

NJDEP, in a non-dated inter-departmental memorandum, indicated that there is a possibility that the sludge could be hazardous waste (based on the possibility that the cyanide could alter to free cyanide gas when subjected to acidic conditions). To date, we have not reviewed any data regarding whether or not the sludge was analyzed for RCRA characteristics and TCLP tests. These tests should be performed, as they would facilitate a classification of the material as either hazardous or non-hazardous waste

AOC # 2 – Residue Sludge Extent

The residue sludge is mostly contained within the structural, perimeter soil berms. However, a review of historical boring logs in the vicinity of the berms indicates that a layer of sludge exists beneath the berms in some locations. In addition, historical correspondence indicates that in some areas, sludge likely extends beyond the present location of the berms. For example, there were two incidents of embankment failure along the northern and southern parts of Impoundments #4 and #5. Sludge was reportedly "cast-off" as a result of these failures. The extent of the residue sludge beyond the impoundment berms should be further investigated. If it is determined to exist outside of the containment areas, additional capping system(s), or possibly sludge relocation, could be required by the NJDEP.

AOC # 3 – Residue Sludge and Containment Berm Stability

The structural engineering properties of the residue sludge are very poor. The sludge within the impoundments is not capable of supporting structures, or possibly even lightly loaded construction equipment. Stabilization and/or solidification of the residue sludge will represent a very significant cost addition to any proposed site redevelopment plan. In addition, the structural stability of the berms should be evaluated and the berm containment system stabilized if necessary – there have been instances of failures in the past.

AOC # 4 – Impacts to Surface Water Quality

The portion of the Rahway River that abuts the former American Cyanamid property is classified as SE3 (saline estuarine). A review of the limited surface water quality data indicates that cyanide and manganese were detected at concentrations that exceed the applicable most

stringent surface water quality standard (SWQS). Specifically, cyanide was detected at concentrations that ranged between 7.9 to 201 ug/L, exceeding the applicable SWQS that is protective of aquatic life of 1 ug/L. Manganese was also detected at concentrations that ranged between 33.9 to 189 ug/L, exceeding the applicable SWQS of 100 ug/L. Cyanide is a site-specific contaminant associated with the sludge and is possible is could be mobilized by storm water runoff and/or by discharge of shallow groundwater. The relatively high levels of manganese in the surface water are likely associated with, the high levels of manganese characteristic of, the regional groundwater that is discharging from the site.

A six inch transite, pipe reportedly used to discharge sludge onto the site from the former American Cyanamid plant located across the river, runs across the Rahway River. This pipe, if it was not removed/abandoned properly, may act as preferential pathway for migration of potential contaminants into the Rahway River. Also, NJDEP has reported the existence of, Outfall No. 7, a suspected storm water outfall associated with the on-Site impoundments. Additional sampling/investigation to further evaluate impacts to the Rahway River is recommended. The nature of the transite pipe should be evaluated, and consideration should be given to river sediment sampling and analyses around the impoundments.

AOC # 5 – Fill Used to Construct Access Roads
Fill generated during the demolition of structures at the Warner Plant in Linden was reportedly used to construct and maintain the access roads around the embankments. This fill may be potentially impacted by historical operations associated with these structures. Limited sampling and analyses could be performed of the roadbed materials to determine if the material is impacted.

AOC # 6 – Indoor Vapor Intrusion
Groundwater in the vicinity of monitoring wells MW-1S and MW-1D contains slightly elevated levels of volatile organic compounds (VOCs), which exceed the applicable NJDEP Generic Vapor Intrusion Screening Levels for groundwater. These impacts were suspected to be associated with operations of Industrial Reclamation Service, an operator associated with the neighboring property (BBL date). The proposed redevelopment is situated near groundwater monitoring wells MW-1S and MW-1D. The extent of the elevated levels of VOCs is not currently known. Delineation of the extent of the elevated VOCs may need to be performed per the NJDEP Vapor Intrusion Guidance Document, dated October 2005.

AOC # 7 – Ecological Evaluation
The discharge of impacted groundwater into the surface water bodies in the vicinity of the Site is possibly impacting the local ecology. No ecological studies, with the exception of delineation of the extent of wetlands, have been completed, based on our reviews. Further investigations should be implemented; this is covered under AOC # 4, above.

AOC # 8 – Solid Waste
A pile of railroad ties that were reportedly utilized to construct the access roads remains at the site. No further investigation to evaluate potential impacts from these railroad ties is recommended, as the area of the ties is small and the potential for environmental impact is negligible relative to the other issues throughout the site.

AOC # 9 – Natural Resource Damages
SESI has not evaluated the potential for NJDEP assessing Natural Resource Damages as a part of this PAR.

APPENDIX 7

APPENDIX 7

REVIEW OF AERIAL PHOTOGRAPHS, TOPOGRAPHIC MAPS AND SANBORN MAPS

Aerial Photographs

A review of the Aerial Photographs provided by EDR Inc. (Inquiry No. 1726514.5) revealed the following:

Year: 1943 Scale: 1" = 750'
Areas to the north, east and south of the Site are developed with what appears to be a petroleum storage tanks. The outline of impoundments #1, #2, #3 and #4 are clearly visible. Tidal creeks criss-cross the remainder of the Site. The area west of the Site is undeveloped.

Year: 1954 Scale: 1" = 750'
In the northern part of the Site, construction of impoundment #5 has been completed and appears to be in use (as evidenced by the drainage patterns created by sludge discharges). An access road connecting the Site and Industrial Road has been constructed. The tract of land located northeast of Impoundment #1 is characterized by features similar to those seen in the remaining impoundments. The remaining features have not changed.

Year: 1966 Scale: 1" = 750'
Construction of Impoundment #6, located in the central portion of the Site, has been completed. Landfilling activities in the area west of the Site are evident. Some changes (addition of new tanks, streets, etc.,) in the layout of the above ground storage tanks and related structures are evident to the east and south of the Site. The impoundments' access roads, particularly roads associated with Impoundments #2, #3, and #6, appear to have changed. This may be a result of activities associated with increasing the capacity of the impoundments.

Year: 1972 Scale: 1" = 833'
The impoundments appear to be devoid of any vegetation. The extent of land filling operations to the west of the Site has increased. Three new above ground storage tanks can be seen in the tank farm to the south of the Site. A new channel appears to have been created. This channel divides Impoundment #2 into two distinct northern and southern sections.

Year: 1984 Scale: 1" = 1,000'
Vegetation appears to have taken hold in Impoundment #1 and the south-southeastern portion of Impoundment #2, while the other impoundments appear to be devoid of vegetation. The remaining features have not changed.

Year: 1995 Scale: 1" = 833'
Impoundments #1, #2, #4, and #5 appear to be vegetated. Vegetation appears to have taken hold in part of Impoundment #3, whereas, Impoundment #6 appears to be devoid of any vegetation. A barrier road has been constructed within Impoundment #6. This barrier divides the impoundment into two separate sections.

Historical Topographic Maps
A review of the Historical Topographic Maps provided by EDR Inc. (Inquiry No. 1726514.4) revealed the following:

Year: 1900 Series: 30' Scale: 1:125,000
The Site is depicted as being part of the regional wetlands.

Year: 1900 Series: 15' Scale: 1:62,500
The Site is shown as being covered with wetlands.

Year: 1905 Series: 30' Scale: 1:125,000
The Site is shown as being covered with wetlands.

Year: 1947 Series: 7.5' Scale: 1:25,000
The Site is mapped as being wetlands. Deep Creek along with a number of other tidal creeks are shown within the Site. Structures associated with the American Cyanamide Company located across the Rahway River are also depicted. Storage tanks associated with the Mexican Petroleum Company are present in areas to the north, south and west of the site.

Year: 1966 Series: 7.5' Scale: 1:24,000
The presence of impoundments #1, #2, #3, #4 and #5 are shown on the map. In addition to these known impoundments, the area to the northeast of impoundment #1, is also depicted as an impoundment. All the tidal creeks with the exception of Deep Creek and an associated branch appear to have been back filled.

Year: 1981 Series: 7.5' Scale: 1:24,000
New above ground storage tanks are depicted in the area south of the Site. The presence of a landfill in the area west of the Site is also depicted. The remaining features in the vicinity of the Site have not changed.

Historical Sanborn Maps
A request for of Sanborn Maps was returned by EDR Inc. (Inquiry No. 1726514.3), indicating that there was "no coverage" for the Site.

The EDR Aerial Photo Decade Package

Phase 2 - Cytec Property Redevelopment
Peter J. Sica Industrial Hwy
Carteret, NJ 07008

Inquiry Number: 1726514.5

August 15, 2006

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography August 15, 2006

Target Property:

Peter J. Sica Industrial Hwy
Carteret, NJ 07008

Year	*Scale*	*Details*	*Source*
1943	Aerial Photograph. Scale: 1"=750'	Panel #: 2440074-E2/Flight Date: December 23, 1943	EDR
1954	Aerial Photograph. Scale: 1"=750'	Panel #: 2440074-E2/Flight Date: February 18, 1954	EDR
1966	Aerial Photograph. Scale: 1"=750'	Panel #: 2440074-E2/Flight Date: February 22, 1966	EDR
1972	Aerial Photograph. Scale: 1"=833'	Panel #: 2440074-E2/Flight Date: September 10, 1972	EDR
1984	Aerial Photograph. Scale: 1"=1000'	Panel #: 2440074-E2/Flight Date: March 26, 1984	EDR
1995	Aerial Photograph. Scale: 1"=833'	Panel #: 2440074-E2/Flight Date: March 29, 1995	EDR

INQUIRY #: 1726514.5
YEAR: 1943
= 750'
N

INQUIRY #: 1726514.5
YEAR: 1972
= 833'
N

INQUIRY #: 1726514.5
YEAR: 1966
= 750'
N

INQUIRY #: 1726514.5
YEAR: 1954
= 750'
N

INQUIRY #: 1726514.5
YEAR: 1984
= 1000'
N

INQUIRY #: 1726514.5
YEAR: 1995
= 833'
N

EDR Historical Topographic Map Report

Phase 2 - Cytec Property Redevelopment
Peter J. Sica Industrial Hwy
Carteret, NJ 07008

Inquiry Number: 1726514.4

August 02, 2006

EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

Form-

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900's.

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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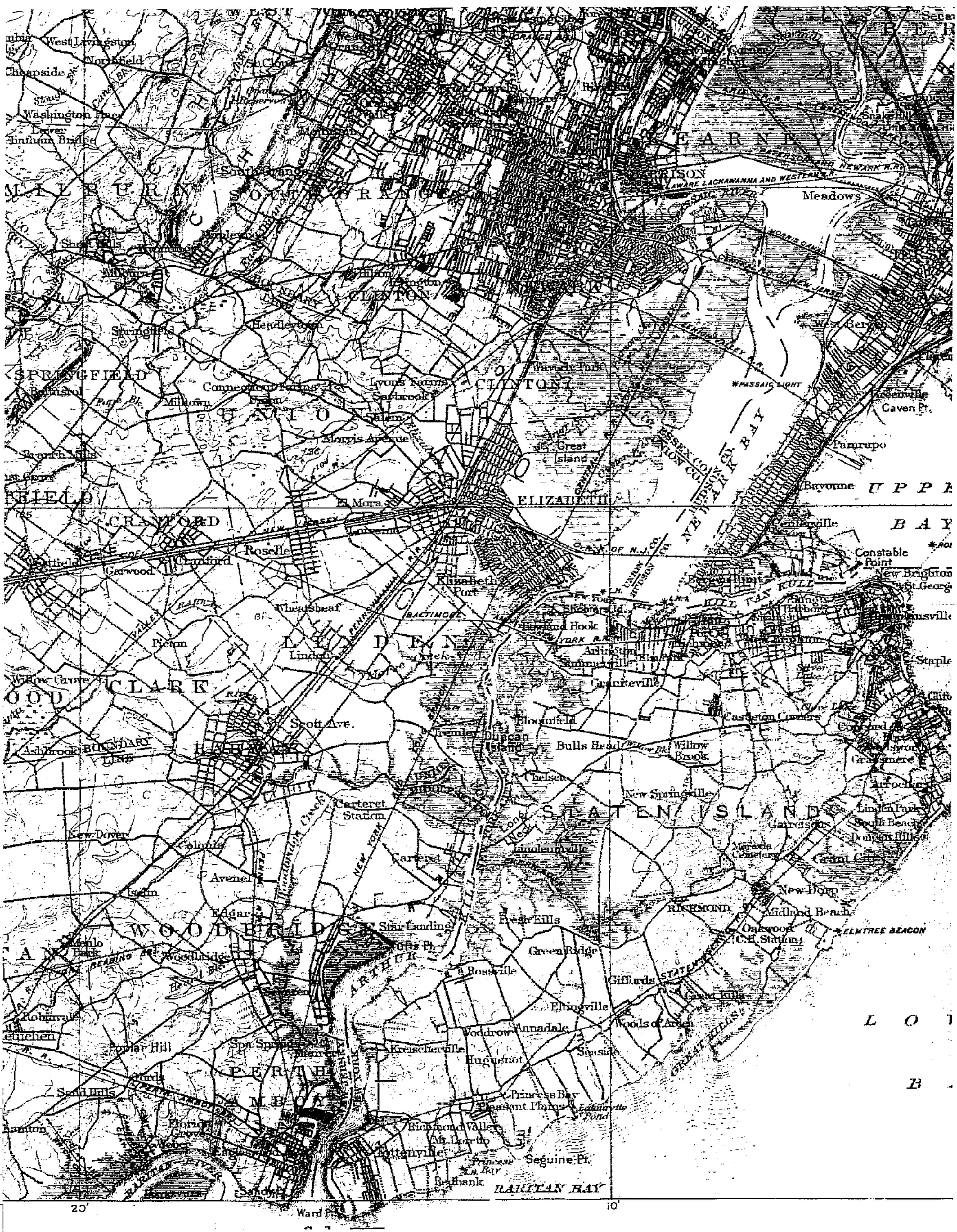
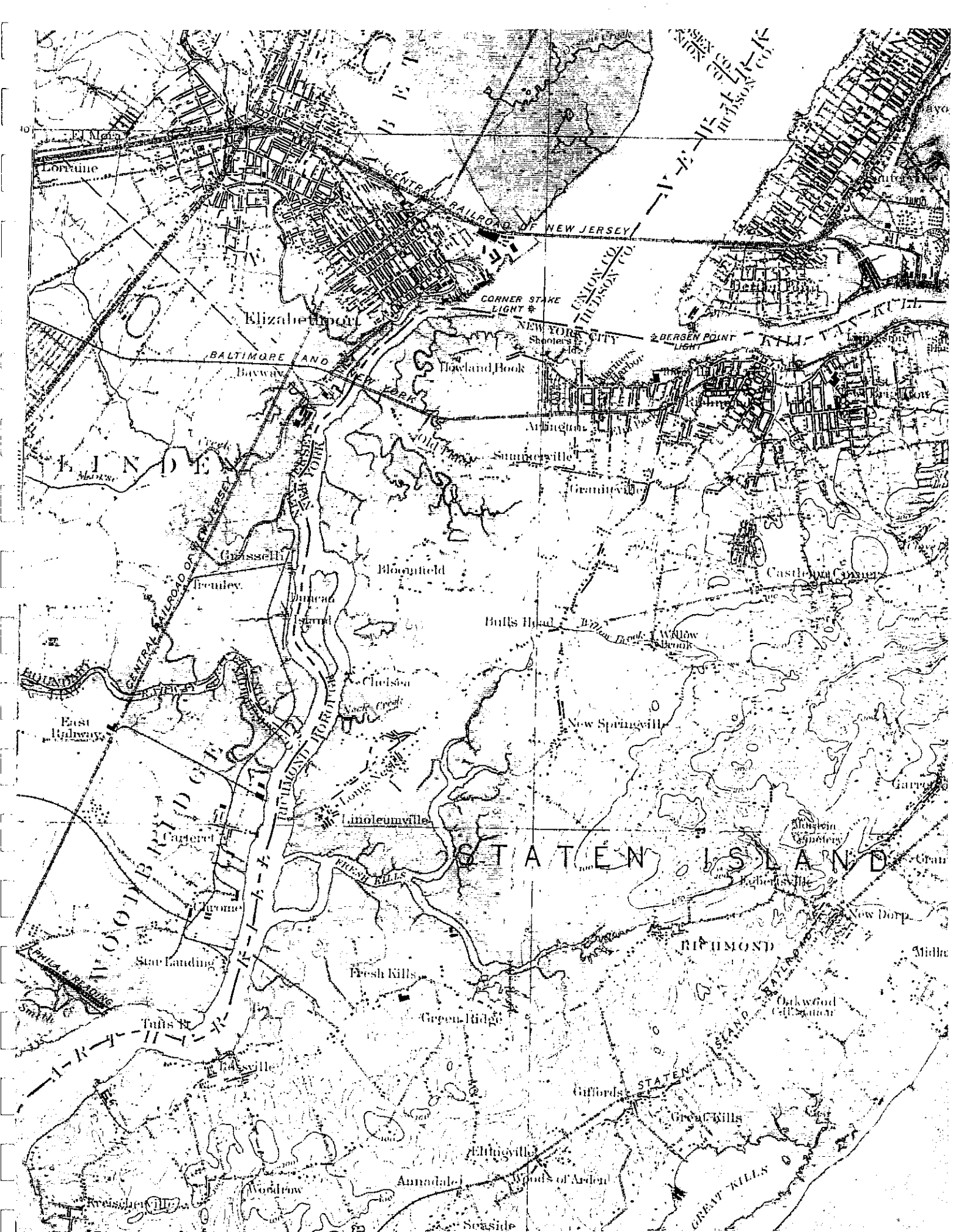
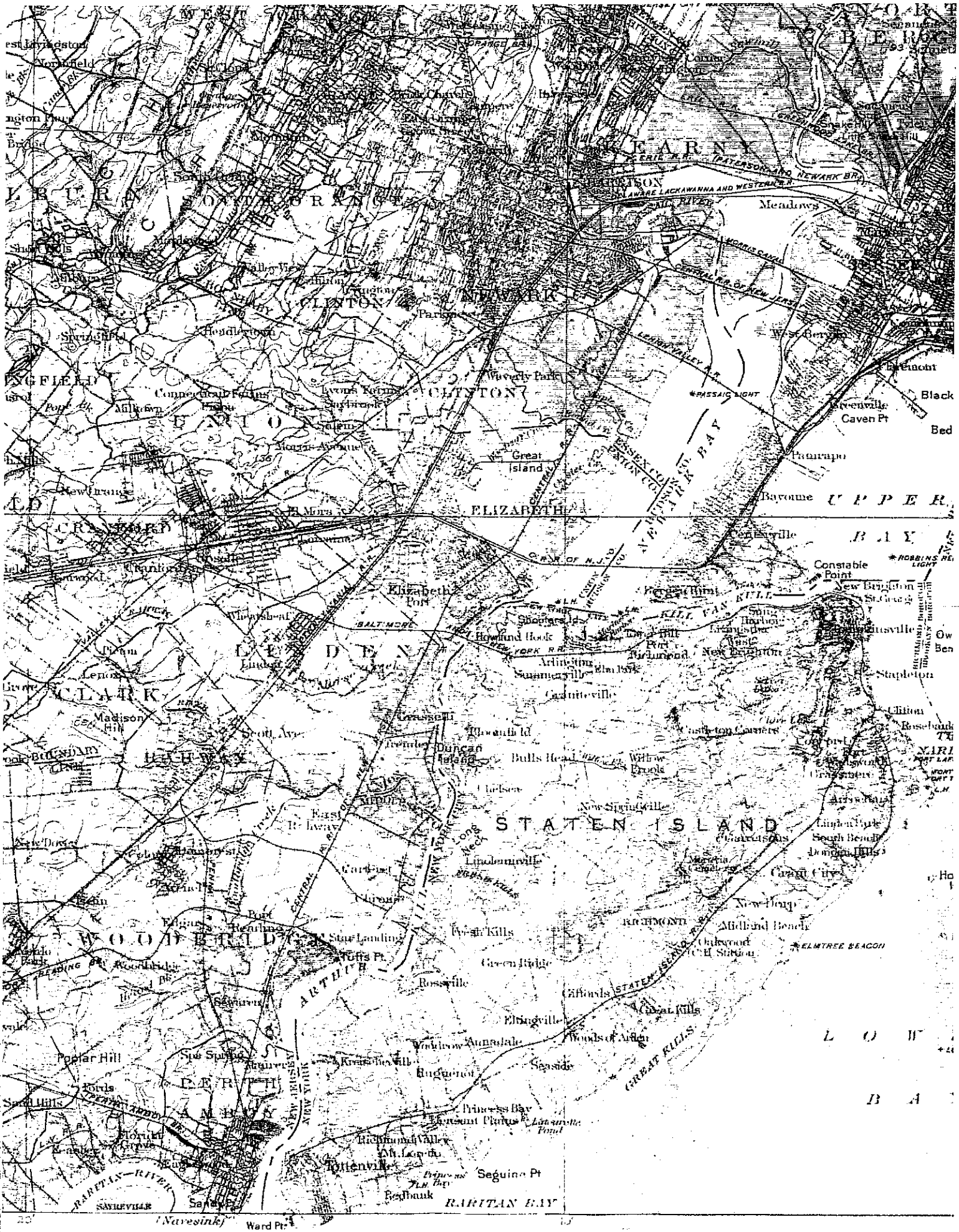


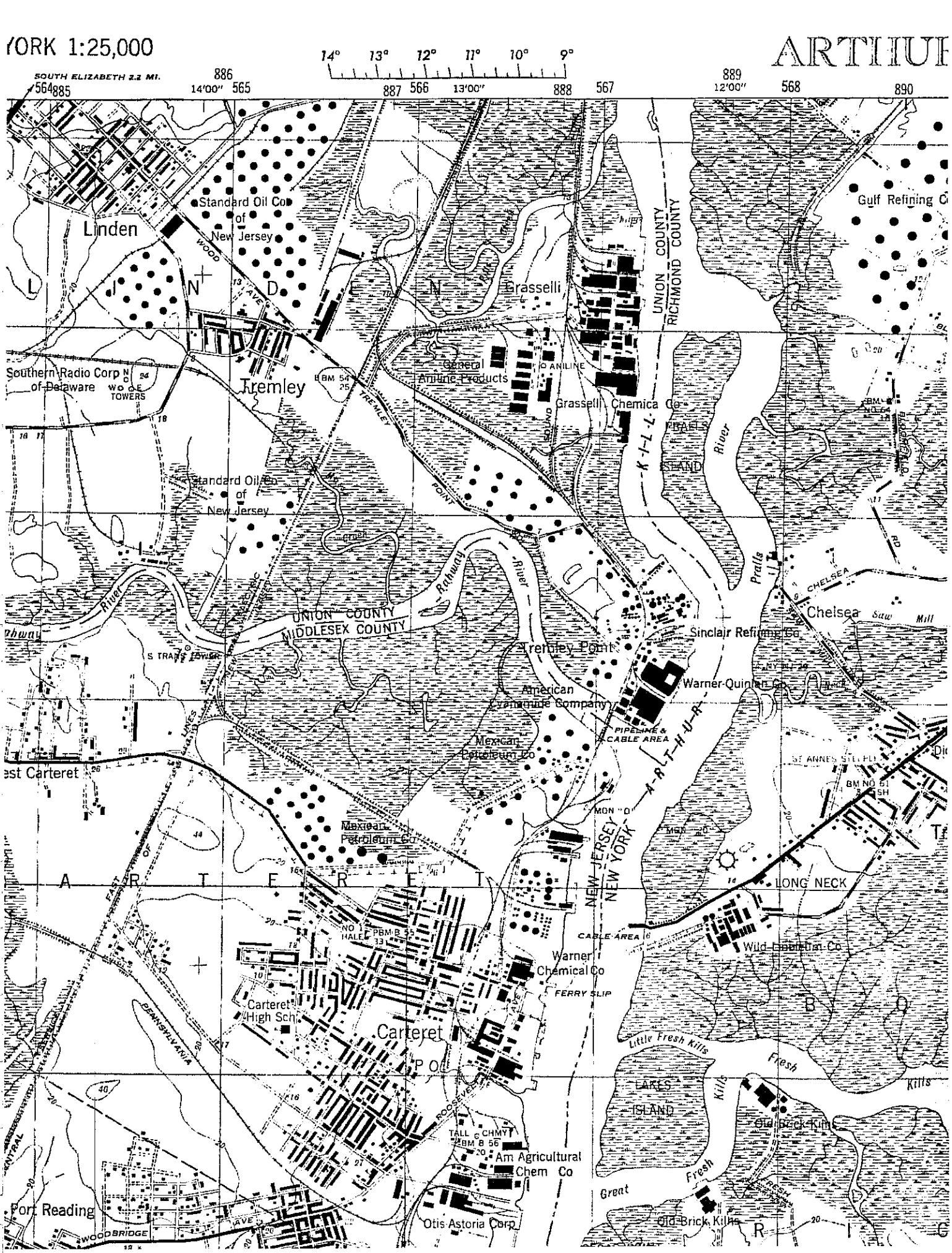
N ^ EDR INQUIRY# 1726514.4 TARGET QUAD: PASSAIC YEAR: 1900 Series: 30' Scale: 1:125,000



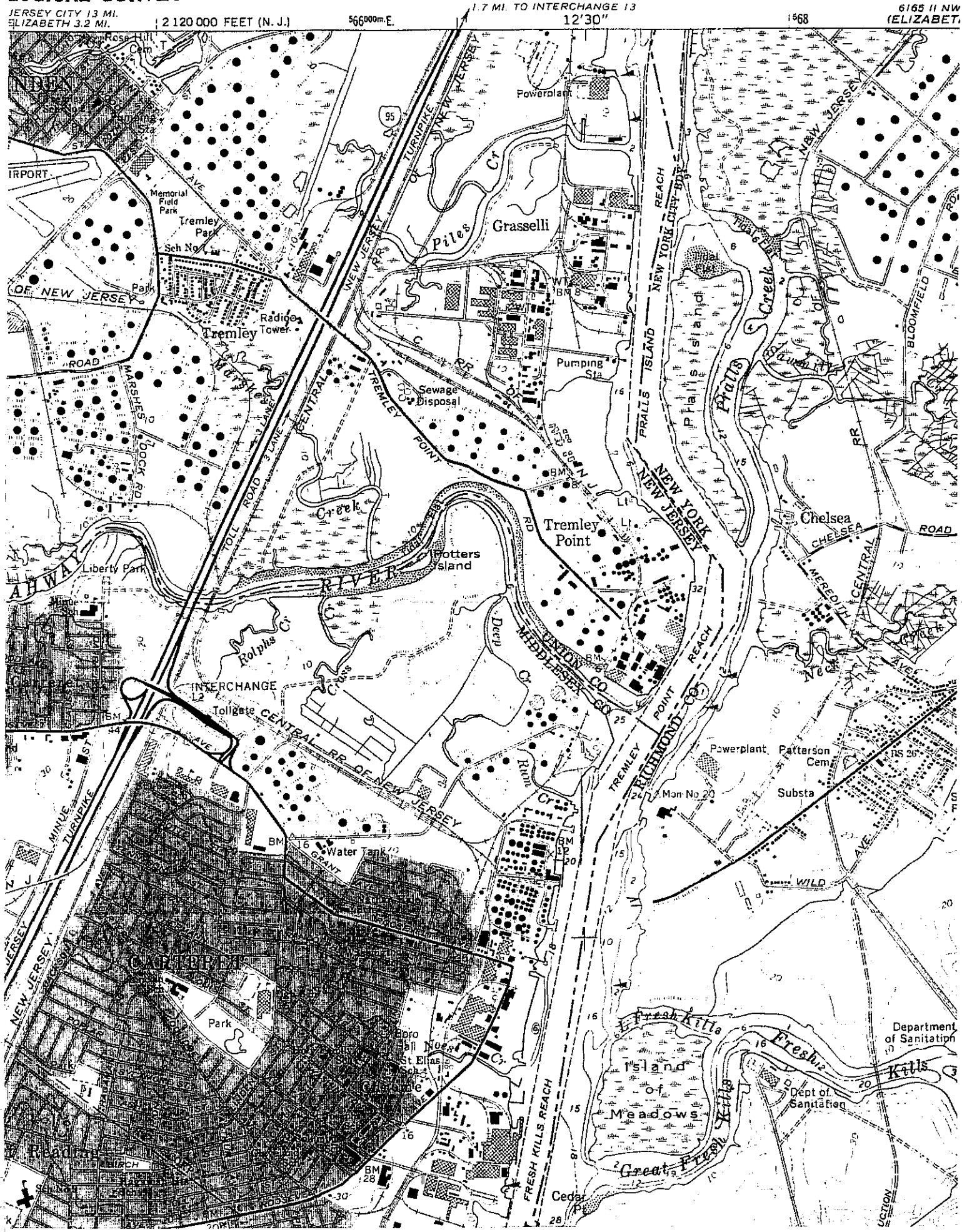
N ^ EDR INQUIRY# 1726514.4 TARGET QUAD: STATENISLAND YEAR: 1900 Series: 15' Scale: 1:62,500



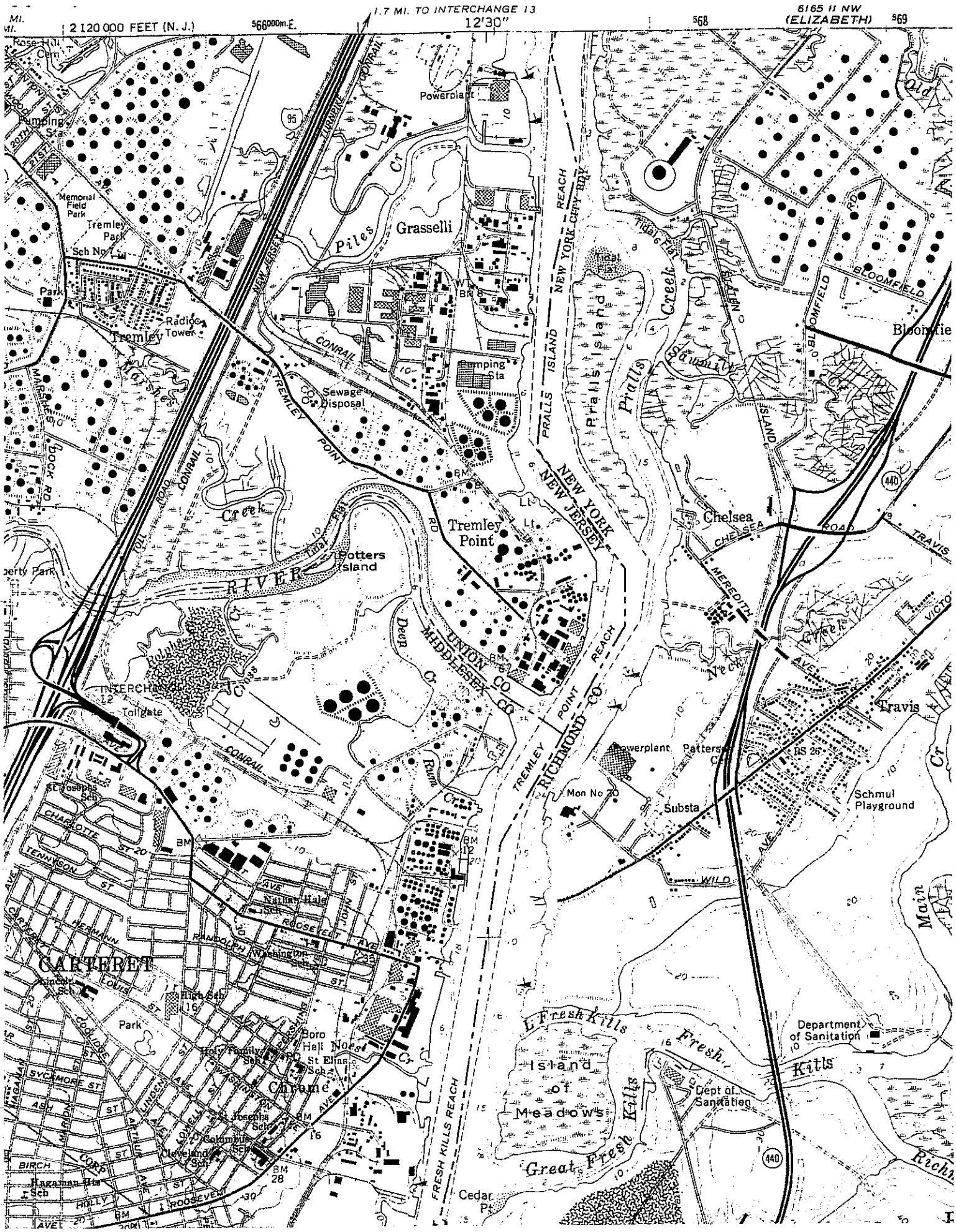
N ^ EDR INQUIRY# 1726514.4 TARGET QUAD: PASSAIC YEAR: 1905 Series: 30' Scale: 1:125,000



N ^ EDR INQUIRY# 1726514.4 TARGET QUAD: ARTHURKILL YEAR: 1947 Series: 7.5' Scale: 1:25,000



N ^ EDR INQUIRY# 1726514.4 TARGET QUAD: ARTHURKILL YEAR: 1966 Series: 7.5' Scale: 1:24,000



N ^ EDR INQUIRY# 1726514.4 TARGET QUAD: ARTHURKILL PhotoRevised: 1966-1981 Series: 7.5' Scale: 1:24,000

EDR® Environmental Data Resources Inc

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Suresh Puppala
SESI Consulting
12A Maple Avenue
Pine Brook, NJ 07058

Order Date: 8/2/2006 **Completion Date:** 8/2/2006
Inquiry #: 1726514.3
P.O. #: NA
Site Name: Phase 2 - Cytec Property Redevelopment
Address: Peter J. Sica Industrial Hwy
City/State: Carteret, NJ 07008
Cross Streets:

Customer Project: 6747
1022697ERK 973-808-9050

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

NO COVERAGE

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APPENDIX 8

NJDEP CORRESPONDENCE

No Further Action Letter from NJDEP, dated 09/24/06
Wetlands LOI Extension Letter from NJDEP, dated 02/27/06

State of New Jersey
Department of Environmental Protection

James E. McGreevey
Governor

Bradley M. Campbell
Commissioner

Bureau of Case Management
Floor 5 West, P. O. Box 28, 401 East State Street
Trenton, NJ 08625-0028
Phone: 609-633-1455/Fax:609-633-1439/Email:BRUCE.VENNER@DEP.STATE.NJ.US

SEP 24 2002

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
No. 7001 2510 0005 3949 4817

Mr. Joel Jerome
CYTEC
5 Garret Mountain Plaza
West Paterson, NJ 07424

Dear Mr. Jerome:

Re: Carteret Impoundments Site, Carteret Borough, Middlesex County
Restricted Use --No Further Action letter and Covenant not to Sue
Entire Site
Block/Lot: 9.03/21, 10/8, 9, 10, 12 to 21 and 11.01/8, 10 to 14 & 28
KCSL # NJD986603439

The New Jersey Department of Environmental Protection (NJDEP) received a letter from Blasland, Bouck & Lee, on behalf of CYTEC, dated 19September2002 requesting no further action and covenant not to sue (NFA & CNS) for the referenced site. NJDEP and CYTEC signed an Administrative Consent Order (ACO) which became effective on September 5, 1990 and was amended on August 5, 1993.

Pursuant to N.J.S.A. 58:10B-13.1 and N.J.A.C. 7:26C, NJDEP makes a determination that no further action is necessary for the remediation of the referenced site. This action is based upon information in NJDEP case file, the CYTEC Remedial Investigation Workplan, the April 1994 Remedial Action Workplan (amended November 1994) as well as subsequent maintenance and monitoring reports and correspondence. In issuing this NFA & CNS, NJDEP has relied upon the certified representations and information provided to NJDEP so long as CYTEC did not withhold any information from NJDEP.

By issuance of this NFA & CNS, NJDEP acknowledges the completion of any necessary remedial activities pursuant to the Technical Requirements for Site Remediation (N.J.A.C. 7:26E) for the site.

NJDEP reserves its rights to require any person responsible for the contamination at the site to address Natural Resource Injuries.

NO FURTHER ACTION CONDITIONS

As a condition of this NFA & CNS, CYTEC as well as each subsequent owner, lessee and operator (collectively Successors) shall comply with each of the following:

1. Pursuant to N.J.S.A. 58:10B-12, CYTEC and the Successors shall inform NJDEP in writing whenever its name or address changes, within 14 calendar days after the change.
2. **Deed Notice:** Pursuant to N.J.S.A. 58:10B-13A, CYTEC and the Successors shall ensure that the Deed Notice (formerly known as Declaration of Environmental Restrictions-DER) filed on 4May1995 at Union County is complied with including maintenance of institutional and engineering controls and reporting to NJDEP. Pursuant to N.J.S.A. 58:10B-13h, an owner of a property on which a Deed Notice has been recorded shall notify any person who intends to excavate on the site of the nature and location of contamination existing on the site and of any conditions or measures necessary to prevent exposure to contaminants.
3. **Monitoring of Compliance for Deed Notices:** Pursuant to N.J.S.A. 58:10B-13.1, CYTEC and the Successors shall conduct monitoring for compliance and effectiveness of the institutional and engineering controls and submit written certification to NJDEP every two (2) years that the institutional and engineering controls are being properly maintained and continue to be protective of public health and safety and the environment. Any such certification shall include the information relied upon to determine that no changes have occurred.

COVENANT NOT TO SUE

NJDEP issues this Covenant Not to Sue pursuant to N.J.S.A. 58:10B-13.1. That statute requires a covenant not to sue with each no further action letter. However, in accordance with N.J.S.A. 58:10B-13.1, nothing in this Covenant shall benefit any person who is liable, pursuant to the Spill Compensation and Control Act (Spill Act), N.J.S.A. 58:10-23.11, for cleanup and removal costs and NJDEP makes no representation by the issuance of this Covenant, either express or implied, as to the Spill Act liability of any person.

NJDEP covenants, except as provided in the preceding paragraph, that it will not bring any civil action against the following:

(a) the person who entered into ACO;
(b) subsequent owners of the subject property;
(c) subsequent lessees of the subject property; and
(d) subsequent operators at the subject property

for the purposes of requiring remediation to address contamination which existed prior to the completion date of the Remedial Investigation for the referenced site identified above, including payment of compensation for damages to, or loss of, natural resources and the payment of cleanup and removal costs for such additional remediation of cleanup and removal costs for such additional remediation.

The person who undertook the remedial action, and each subsequent owner, lessee and operator, during that person's ownership, tenancy or operation, shall maintain those controls and conduct periodic compliance monitoring in the manner NJDEP requires.

Any person who may benefit from this Covenant is barred from making a claim against the Spill Compensation Fund, N.J.S.A. 58:10-23.11i, and the Sanitary Landfill Facility Contingency Fund, N.J.S.A. 13:1E-105, for any costs or damages relating to the remediation covered by this Covenant. All other claims against these funds will be controlled by the corresponding statutes and their implementing regulations.

Any person who may benefit from this Covenant is barred from making a claim against the Spill Compensation Fund, N.J.S.A. 58:10-23.11i, and the Sanitary Landfill Facility Contingency Fund, N.J.S.A. 13:1E-105, for any costs or damages relating to the remediation covered by this Covenant if NJDEP requires additional remediation in order to remove the institutional control. All other claims against these funds will be controlled by the corresponding statutes and their implementing regulations.

Pursuant to N.J.S.A. 58:10B-13.1d, this Covenant does not relieve any person from the obligation to comply in the future with laws and regulations. NJDEP reserves its right to take all appropriate enforcement for any failure to do so.

NJDEP may revoke this Covenant at any time after providing notice upon its determination that either:

(a) any person with the legal obligation to comply with any condition in this NFA & CNS has failed to do so; or
(b) any person with the legal obligation to maintain or monitor any engineering or institutional control has failed to do so.

This NFA & CNS, which NJDEP has executed in duplicate, shall take effect immediately once the person who entered into the ACO has signed and dated the NFA & CNS on the lines supplied below and NJDEP has received one copy of this document with original signatures of NJDEP and the person who entered into ACO.

Direct Billing:

Please be advised that pursuant to the Procedures for Department Oversight of the Remediation of Contaminated Sites (N.J.A.C. 7:26C et seq.), CYTEC is required to reimburse NJDEP for review of any submissions pursuant to the ACO. NJDEP will be issuing a bill shortly.

CYTEC Industries, Inc.

Name: _____

Title: _____

Signature: _____

Date: _____

New Jersey Department of Environmental Protection

Name: Bruce Venner

Title: Chief

Signature: Bruce Venner

Date: 9/24/02

If you have any questions, please contact Haiyesh Shah at (609) 633-0718.

Sincerely,

Bruce Venner

Bruce Venner, Chief
Bureau of Case Management

C: Mr. John Sacco, NJDEP Office of Natural Resources Restoration

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JON S. CORZINE
Governor

LISA P. JACKSON
Acting Commissioner

Division of Land Use Regulation
P.O. Box 439, Trenton, NJ 08625-0439
Fax # (609) 777-3656
www.state.nj.us/dep/landuse

Mr. Andrew Johnson
Blasland, Bouck & Lee, Inc.
8 South River Road
Cranbury, NJ 08512

RECEIVED
FEB 2 7 2006
THOMAS E. MESEVAGE

RE: Line Verification - Reissuance
File No.: 1201-03-0003.1.1FWW030001
Applicant: Cytec Industries Inc.
Block: 10; Lots: 8, 9, 10 & 12 through 21
Block: 11.01; Lots: 10 through 14
Carteret; Middlesex County

Dear Mr. Johnson,

The New Jersey Department of Environmental Protection issued a Letter of Interpretation for the referenced site on March 13, 1998. You have requested that the Letter of Interpretation be reissued in accordance with the requirements at N.J.A.C. 7:7A-3.6.

In accordance with agreements between the State of New Jersey Department of Environmental Protection, the U.S. Army Corps of Engineers Philadelphia and New York Districts, and the U.S. Environmental Protection Agency, the NJDEP, Land Use Regulation Program is the lead agency for establishing the extent of State and Federally regulated wetlands and waters. The USEPA and/or USACOE retain the right to reevaluate and modify the jurisdictional determination at any time should the information prove to be incomplete or inaccurate.

Based upon the information submitted, the Land Use Regulation Program has determined that the wetlands and waters boundary line(s) as shown on the plan entitled **"CYTEC INDUSTRIES INC. CARTERET, NEW JERSEY FRESHWATER WETLANDS LETTER OF INTERPRETATION EXTENSION WETLAND DELINEATION MAP"**, dated April 4, 2003, unrevised, and prepared by Blasland, Bouck and Lee, Inc., is accurate as shown. Therefore the term of the original Letter of Interpretation is hereby extended to March 13, 2008, which is five years from the expiration of the original Letter of Interpretation.

Any activities regulated under the Freshwater Wetlands Protection Act proposed within the wetlands or transition areas or the deposition of any fill material into any water area, will require a permit from this office unless exempted under the Freshwater Wetlands Protection Act, N.J.S.A. 13:9B-1 et seq., and implementing rules, N.J.A.C. 7:7A.

The freshwater wetlands and waters boundary line(s), as determined in this letter, must be shown on any future site development plans. The line(s) should be labeled with the above LURP file number and the following note:

"Freshwater Wetlands/Waters Boundary Line as verified by NJDEP."

The Department has determined that the wetlands on the subject property are of both exceptional and intermediate resource value. The wetlands along the following points are of exceptional resource value: B1 to B7; A1 to A55; A58 to A81; A6 to A18. The standard transition area or buffer required adjacent to exceptional resource value wetlands is 150 feet. All remaining wetlands are of intermediate resource value and have a 50-foot buffer. In addition, it has been determined that the areas within impoundments 1 through 6 are not State open waters pursuant to the definition at N.J.A.C. 7:7A-1.4, and therefore are not regulated wetland features. This classification may affect the requirements for an Individual Wetlands Permit (see N.J.A.C. 7:7A-7), the types of Statewide General Permits available for the wetlands portion of this property (see N.J.A.C. 7:7A-5) and the modification available through a transition area waiver (see N.J.A.C. 7:7A-6). Please refer to the Freshwater Wetlands Protection Act (N.J.S.A. 13:9B-1 et seq.) and implementing rules for additional information.

It should be noted that this wetland classification is based on the best information presently available to the Department. The classification is subject to change if this information is no longer accurate, or as additional information is made available to the Department, including, but not limited to, information supplied by the applicant.

This letter in no way legalizes any fill that may have been placed, or other regulated activities that may have occurred on-site. Also this determination does not affect your responsibility to obtain any local, State, or Federal permits which may be required.

In accordance with N.J.A.C. 7:7A-1.7, any person who is aggrieved by this decision may request a hearing within 30 days of the decision date by writing to: New Jersey Department of Environmental Protection, Office of Legal Affairs, Attention: Adjudicatory Hearing Requests, P.O. Box 402, Trenton, NJ 08625-0402. This request must include a completed copy of the Administrative Hearing Request Checklist.

Please contact Allison Giehl of our staff at (609) 633-6754 should you have any questions regarding this letter. Be sure to indicate the Program's file number in all communication.

Sincerely,

Christopher Jones
Supervising Environmental Specialist
Bureau of Inland Regulation

c. Carteret Municipal Clerk
Carteret Construction Official

APPENDIX 9

APPENDIX 9

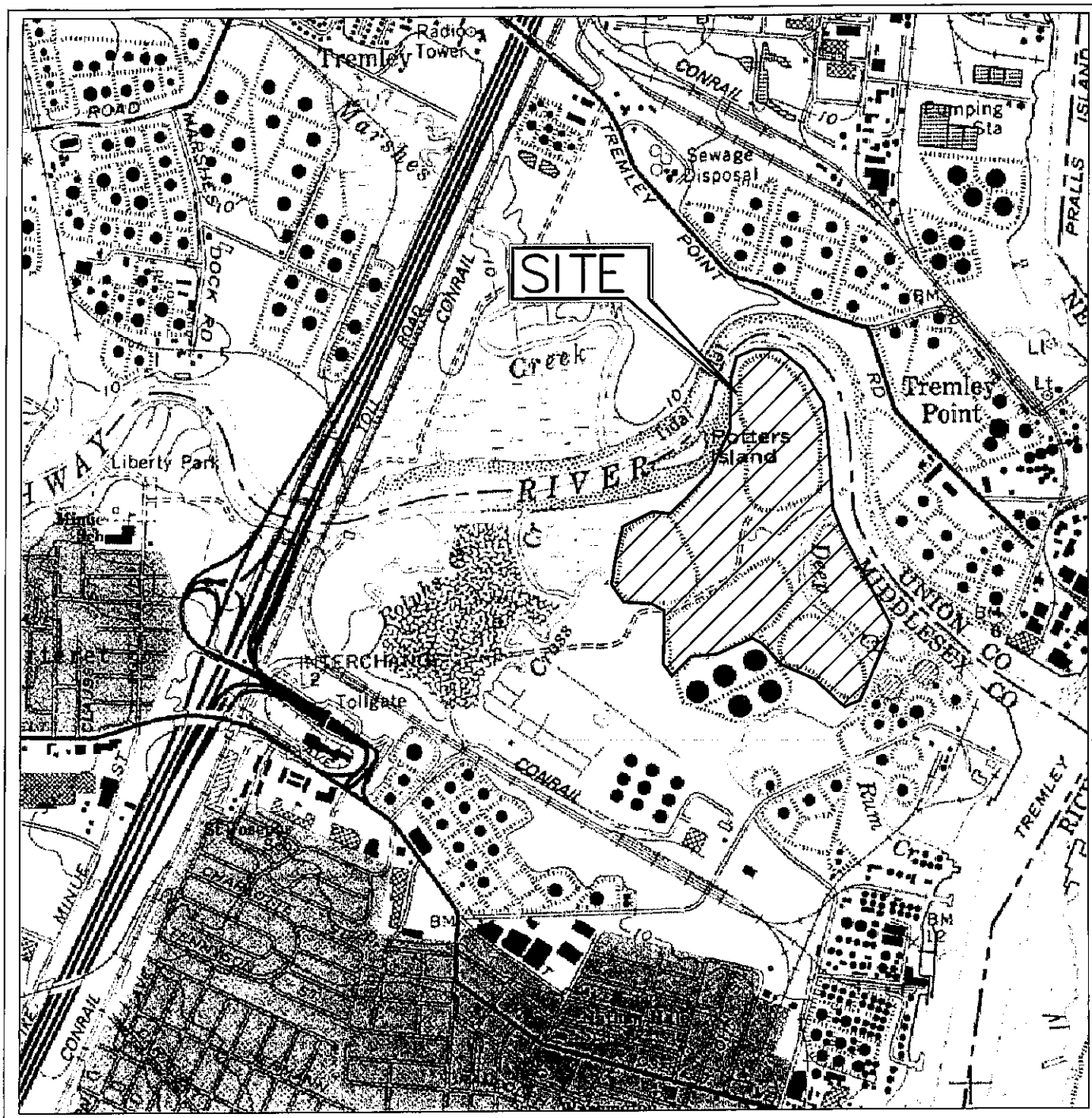
PROTECTIVENESS OF PAST REMEDIES

Additional investigations have been recommended to evaluate if the remedies previously approved by the NJDEP remain protective of the public health, safety and the environment. Refer to Appendix 6 – Areas of Concern.

APPENDIX 10

APPENDIX 10

FIGURES



PORTIONS OF U.S.G.S.
N.J. QUADRANGLE,
SERIES (TOPOGRAPHIC) PHOTOREVISED 1981
LATITUDE: 040°36'4.05" N
LONGITUDE: 074°12'53.9" W

0 2000 FT.
APPROXIMATE SCALE

NEW JERSEY
QUADRANGLE LOCATION

N

DATE	BY	REVISION

CARTERET - CYTEC PROPERTY

BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY
TITAN-PDC CARTERET URBAN RENEWAL, LLC

SITE LOCATION MAP

SESI CONSULTING ENGINEERS
CERT. OF AUTH. # 24GA27834700
SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

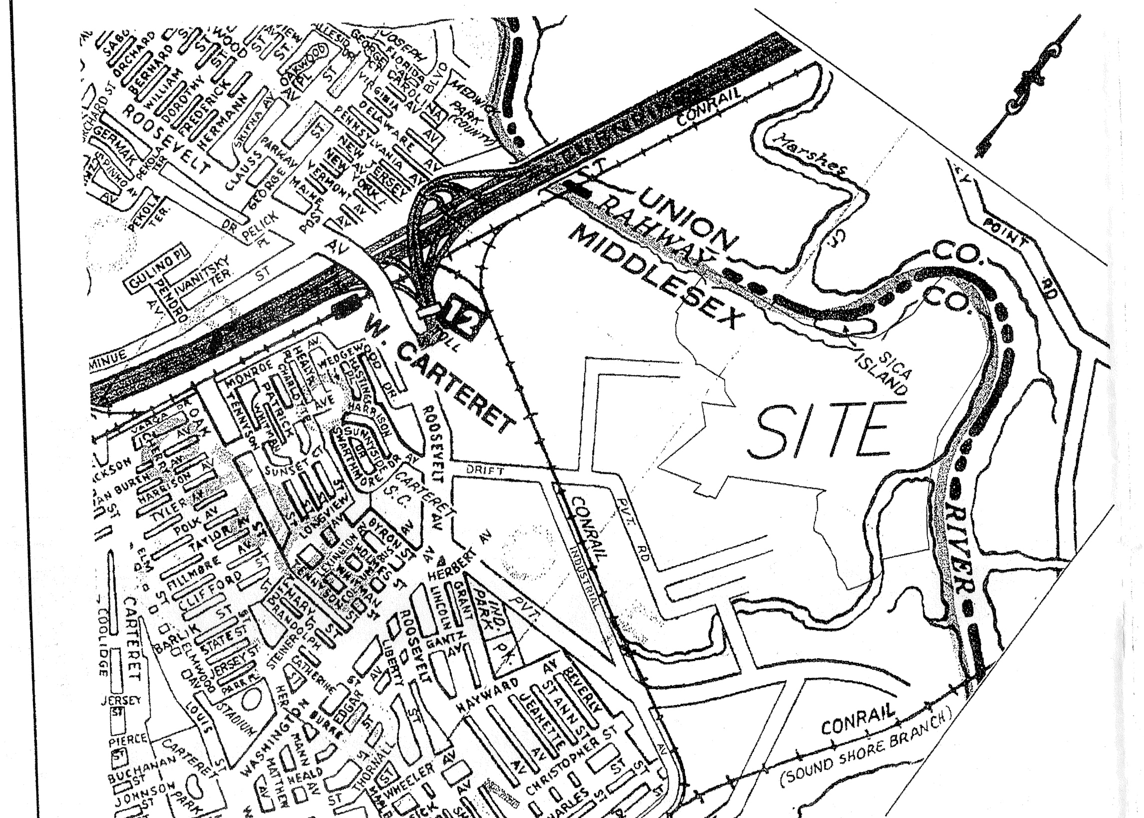
DESIGNED BY	DATE PREPARED
SP	9-15-06
DRAWN BY	SCALE
JY	1"=2000'
CHECKED BY	PROJECT NO.
SP	6747

CHRISTOPHER F. ZWINGLE
PROFESSIONAL ENGINEER
N.J.P.E. LIC. NO. 28177

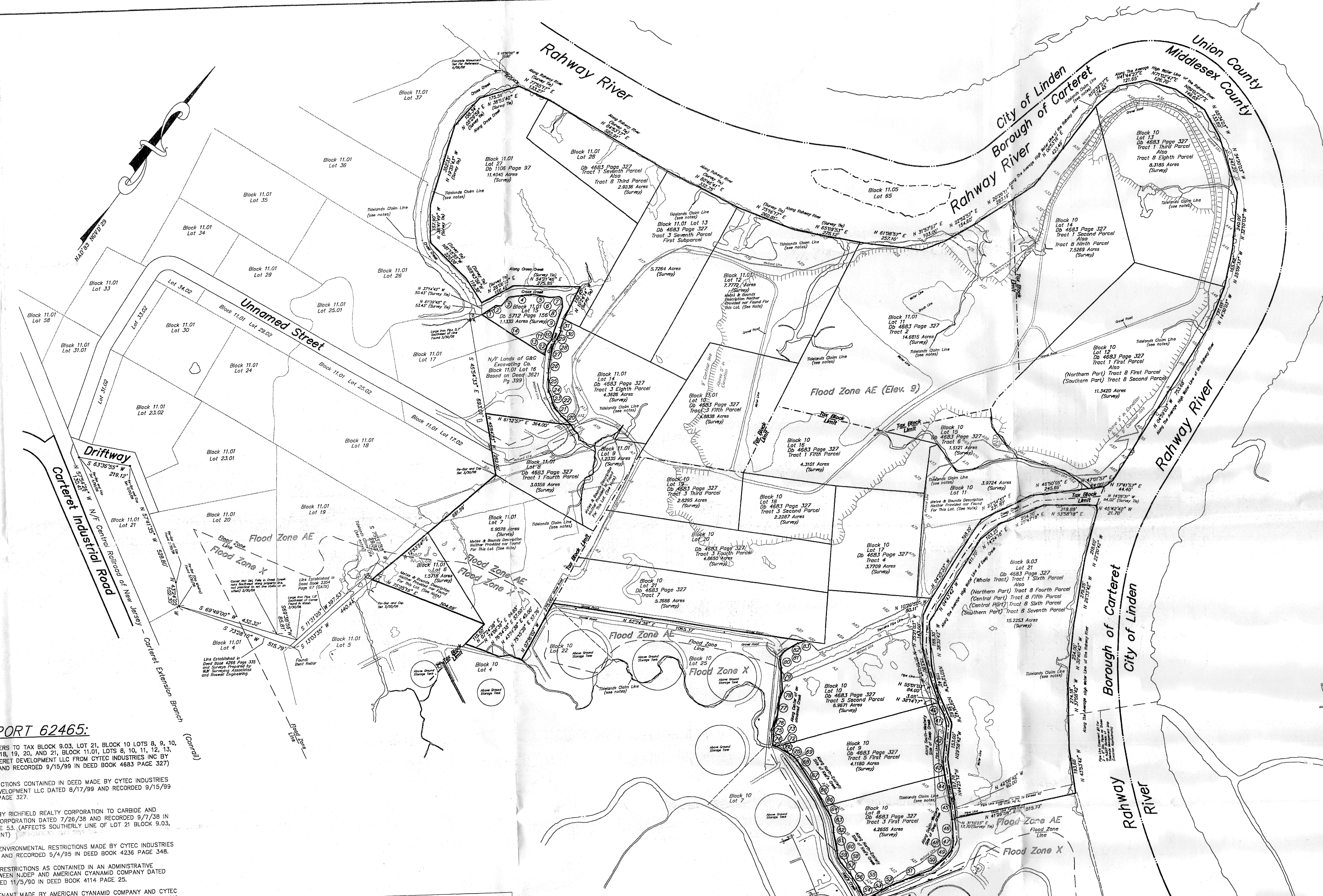
SIGNATURE NOT VALID WITHOUT RAISED SEAL OF P.E. DATE

FIGURE: 1

N:\ACAD\6747 CARTERET\MAP.dwg, Layout1, 9/15/2006 3:55:34 PM, \\SESI2005\Panasonic DP-C322 PCL6, 1:1



KEY MAP: Scale: 1" = 1250'



SURVEY NOTES:

A WRITTEN "WAIVER AND DIRECTION NOT TO SET CORNER MARKERS" HAS BEEN OBTAINED FROM THE ULTIMATE USER PURSUANT TO N.J.A.C. 13:40-5.1(d).

THE WORD CERTIFY, AS USED HEREON, IS UNDERSTOOD TO BE AN EXPRESSION OF PROFESSIONAL OPINION BY THE SURVEYOR, WHICH IS BASED ON HIS BEST KNOWLEDGE, INFORMATION AND BELIEF. AS SUCH, IT CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY, EXPRESSED OR IMPLIED.

IF DIGITAL INFORMATION IS ALSO SUPPLIED, IT IS DONE SO FOR INFORMATIONAL PURPOSES, ONLY. THE ORIGINAL SIGNED AND SEALED DOCUMENT IS THE DOCUMENT OF RECORD.

THIS SURVEY WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS AS OUTLINED IN N.J.A.C. 13:40-5.1

IF THIS SURVEY DOES NOT CONTAIN THE RAISED SEAL OF THE SURVEYOR, IT IS AN UNAUTHORIZED REPRODUCTION OF THE SURVEY.

HORIZONTAL DATUM IS BASED UPON NORTH AMERICAN DATUM 1983.

VERTICAL DATUM IS BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929.

HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING THE GLOBAL POSITIONING SYSTEM (GPS) TECHNOLOGY WITH NJI2 COR STATION AS REFERENCE. VERTICAL CONTROL WAS CONVERTED FROM NAVD 88 TO NGVD 29 UTILIZING NGS CORPSCON FOR WINDOWS VERSION 6.0. (AT THIS SITE 1.07' WAS USED, EXAMPLE IN NAVD 1988 = 10.00', SAME POINT IN NGVD 1929 = 11.07').

TOPOGRAPHIC INFORMATION SHOWN HEREON SUPPLIED BY ATLANTIS AERIAL SURVEY CO. FROM AERIAL PHOTOGRAPHY DATED 06/11/06.

UTILITY LOCATIONS SHOWN HEREON ARE FROM ABOVE GROUND OBSERVATIONS ONLY. THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE USER OF THIS SURVEY IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATIONS OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY.

LOT AND BLOCK NUMBERS SHOWN HEREON ARE BASED UPON THE CURRENT TAX MAPS OF THE BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY.

WETLAND LINE AND FLAG LOCATIONS ARE BASED ON MAPPING PROVIDED BY MENLO ENGINEERING ASSOCIATES AND NJDEP FILE NO.: 1201-03-0003.1.1FWW033331, THEIR LOCATION ON THIS DRAWING IS APPROXIMATE.

NO RECORD OF "UNNAMED STREET" WAS FOUND IN THE OFFICIAL RECORDS OF MIDDLESEX COUNTY. IT'S POSITION WAS ESTABLISHED UTILIZING THE ALIGNMENT FOUND ON A MAP PREPARED BY T&M ASSOCIATES DATED MAY, 1987, SAID MAP REFERENCES "SURVEY AND PLAN OF RIGHT-OF-WAY FOR PROPOSED ROAD BOROUGH OF CARTERET, MIDDLESEX COUNTY, N.J. FOR AMERICAN CYANAMID CO. SCALE: 1"=100' MARCH 30, 1951 BY: J. WALLACE HIGGINS, CIVIL ENGINEER LICENSE NO. 206. THE T&M MAP CALLS THE RIGHT OF WAY WIDTH TO BE 51'. THE OFFICIAL TAX MAPS OF CARTERET, MAP PREPARED BY WJK SURVEYING ASSOCIATES, DATED 8/11/95, AND MAP PREPARED BY BOSWELL ENGINEERING DATED 12/30/96 ALL CALL FOR A RIGHT OF WAY WIDTH OF 60'. THE R.O.W. WIDTH FOR "UNNAMED STREET" AS SHOWN ON THIS MAP WAS ESTABLISHED BY HOLDING THE CENTERLINE AS SHOWN ON THE T&M MAP WITH R.O.W.'S OF 30' ON EITHER SIDE OF CENTERLINE FOR A TOTAL R.O.W. WIDTH OF 60'.

RIPARIAN CLAIMS MAPS OBTAINED FROM THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAND USE MANAGEMENT COMPLIANCE, BUREAU OF TIDELANDS MANAGEMENT.

TIDELANDS CLAIMS LINE SHOWN HEREON DEPICTS NATURAL WATERWAYS NOW OR FORMERLY TIDE-FLOWED AT MEAN HIGH WATER AS COMPILED BY NJDEP BETWEEN 1977 AND 1991. THIS DATA HAS BEEN INSERTED INTO THIS DRAWING IN NAD '83 FROM A CD SUPPLIED BY NJDEP UNDER THE HEADING OF "GIS RESOURCE DATA". CONDITIONS AND RESTRICTIONS CONTAINED ON SAID DISK APPLY TO THE USE OF THIS INFORMATION.

THE NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS PROHIBITS ENGINEERING OR SURVEYING DOCUMENTS PREPARED BY ONE LICENSEE FROM BEING ALTERED, AMENDED, EXPANDED, FINALIZED OR OTHER- WISE ADJUSTED BY ANOTHER LICENSEE WHO WAS NOT IN RESPONSIBLE CHARGE OF THE INITIAL WORK PRODUCT. THE ONLY EXCEPTION TO THE PROHIBITION IS THE USE OF PLANS PREPARED BY OTHERS FOR AS-BUILT PURPOSES WHERE THE NATURE OF THE AS-BUILT ALLOWS THE AS-BUILT DATA TO BE ADDED TO THE PREVIOUSLY PREPARED PLAN WHERE THERE IS, THEREFORE, NO NEED TO ADJUST OR CHANGE THE UNDERLYING DESIGN DOCUMENT.

THIS SURVEY IS SUBJECT TO EASEMENTS OF RECORD AND ANY OTHER PERTINENT FACTS WHICH A TITLE SEARCH MIGHT DISCLOSE.

THIS SURVEY WAS PREPARED WITH PARTICULAR ATTENTION TO TITLE REPORTS BY ROYAL ABSTRACT (AGENTS FOR CHICAGO TITLE INSURANCE COMPANY):
TITLE No.: 62465, EFFECTIVE DATE 7/12/06
TITLE No.: 62610, EFFECTIVE DATE 7/12/06
TITLE No.: 62611, EFFECTIVE DATE 7/12/06
TITLE No.: 63033, EFFECTIVE DATE 7/20/04

METES & BOUNDS DESCRIPTIONS WERE NEITHER PROVIDED NOR FOUND FOR THE FOLLOWING LOTS, BLOCK 10 LOT 11, BLOCK 11.01 LOTS 6, 7, 9, & 12. LOT LINES WERE ESTABLISHED UTILIZING ADJOINING DEED DESCRIPTIONS, PHYSICAL FEATURES (WATER COURSES, ETC.) TAX MAPS AND FIELD EVIDENCE.

A PORTION OF THIS PROPERTY (N/F CYTEC INDUSTRIES INC.) IS AFFECTED BY A RESTRICTIVE COVENANT AS CONTAINED IN A CERTAIN ADMINISTRATIVE CONSENT ORDER DATED SEPTEMBER 5, 1990, AMENDED AUGUST 5, 1993 AND RECORDED IN THE MIDDLESEX COUNTY CLERK'S OFFICE ON DECEMBER 15, 1993 AS INSTRUMENT NO. 17812.

MAP REFERENCE:

MAP ENTITLED "SURVEY OF PROPERTY LOTS 20, 23.01, 23.02, BLOCK 11.01, BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY WJK SURVEYING ASSOCIATES, SHEET 1 OF 1, DATED AUGUST 8, 1995.

MAP ENTITLED "SURVEY OF BLOCK 11.01, LOTS 31.02, 33.02, 34.02, 29.02, 24, 30, 44, 45 39, 35, 26, 29.01, 34.01, 33.01, BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY T&M ASSOCIATES, DATED MAY, 1987

MAP ENTITLED "SURVEY OF PROPERTY, LOTS 31.01, 40, 41, 42, 43, 50, 52, 58, & 60, BLOCK 11.01, BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY WJK SURVEYING ASSOCIATES, DATED JANUARY 27, 1994, LAST REVISED APRIL 7, 1998.

MAP ENTITLED "BOUNDARY SURVEY, LOTS 17.01, 17.02, 18, 19, 20, 23.01, 23.02, 24, 25.01, 25.02, 26, 29.01, 29.02, 30, 31.01, 31.02, 33.01, 33.02, 34.01, 34.02, 35 THRU 47, 49, 50 52, 58 AND 60 IN BLOCK 11.01, BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY BOSWELL ENGINEERING, DATED DECEMBER 30, 1996.

MAP ENTITLED "RIGHT-OF-WAY AND TRACK MAP, THE CENTRAL RAILROAD CO. OF NEW JERSEY, SOUND SHORE BRANCH, CARTERET BRANCH, CENTRAL DIVISION, STATION 11+95 TO STATION 64+71" SHEET NO. 3A OF THE CARTERET BRANCH, DATED JUNE 30, 1918, LAST REVISED JANUARY 1, 1954.

MAP ENTITLED "ALTA / ACSM LAND TITLE SURVEY, BLOCK 11.01 LOTS 17, 17.02, 18, 19, 20, 23.01, 23.02, 24, 25.01, 25.02, 26, 29, 29.02, 30, 31.01, 31.02, 33, 33.02, 34, 34.02, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50 52, 58, 60, AND "UNNAMED STREET" AND DRIFTWAY, BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY KELLER & KIRKPATRICK, DATED JAN. 31, 2003 AND REVISED THROUGH JULY 24, 2006.

MAP ENTITLED "PARTIAL BOUNDARY LINE SURVEY FOR KINDERMORGAN TERMINAL, PROPERTY LINE LOCATION, BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY VOLOSIN ASSOCIATES, DATED MARCH 31, 2004 AND REVISED TO APRIL 1, 2004.

TITLE REPORT 62465:

THIS TITLE REPORT REFERS TO TAX BLOCK 9.03, LOT 21, BLOCK 10 LOTS 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, AND 21, BLOCK 11.01, LOTS 8, 10, 11, 12, 13, 14 AND 28. (N/F CARTERET DEVELOPMENT LLC FROM CYTEC INDUSTRIES INC BY DEED DATED 8/17/99 AND RECORDED 9/15/99 IN DEED BOOK 4683 PAGE 327)

9. SUBJECT TO RESTRICTIONS CONTAINED IN DEED MADE BY CYTEC INDUSTRIES INC. TO CARTERET DEVELOPMENT LLC DATED 8/17/99 AND RECORDED 9/15/99 IN DEED BOOK 4683 PAGE 327.

10. EASEMENT MADE BY RICHFIELD REALTY CORPORATION TO CARBIDE AND CARBON CHEMICALS CORPORATION DATED 7/26/38 AND RECORDED 9/7/38 IN DEED BOOK 1139 PAGE 53. (AFFECTS SOUTHERLY LINE OF LOT 21 BLOCK 9.03, 40' PIPE LINE EASEMENT)

11. DECLARATION OF ENVIRONMENTAL RESTRICTIONS MADE BY CYTEC INDUSTRIES INC. DATED 4/26/95 AND RECORDED 5/4/95 IN DEED BOOK 4236 PAGE 348.

12. COVENANTS AND RESTRICTIONS AS CONTAINED IN AN ADMINISTRATIVE CONSENT ORDER BETWEEN NJDEP AND AMERICAN CYANAMID COMPANY DATED 9/5/90 AND RECORDED 11/5/90 IN DEED BOOK 4114 PAGE 25.

13. RESTRICTIVE COVENANT MADE BY AMERICAN CYANAMID COMPANY AND CYTEC INDUSTRIES INC. DATED 12/17/93 AND RECORDED 12/23/93 IN DEED BOOK 4116 PAGE 242.

TITLE REPORT 62610:

THIS TITLE REPORT REFERS TO TAX BLOCK 11.01, LOTS 6, 7, 9, AND 27, (LOT 6 UNKNOWN OWNER). (N/F BOROUGH OF CARTERET)

8. RIGHT OF WAY EASEMENT BY HERMANN REALTY CO. AND COLONIAL PIPELINE COMPANY IN DB 2476 PG 668 (FALLS IN THE NORTH- WEST CORNER OF LOT 49 BLOCK 11.01 WHICH IS TO THE WEST OF THIS SURVEY AND DOES NOT AFFECT THIS SURVEY).

9. RIGHT OF WAY EASEMENT BY THE BOROUGH OF CARTERET AND COLONIAL PIPELINE COMPANY IN DB 2493 PG 407, TRACT 1 (FALLS IN LOTS 20 & 21 BLOCK 11 AND IS NOT WITHIN THE BOUNDS OF THIS SURVEY. TRACT 2 FALLS IN LOT 51 BLOCK 11.04 AND IS NOT WITHIN THE BOUNDS OF THIS SURVEY. TRACTS 3 & 4 FALL WITHIN DRIFTWAY).

10. RIGHT OF WAY EASEMENT BY THE BOROUGH OF CARTERET AND FISH CONSTRUCTORS IN DB 1601 PG 332 (IS NOT WITHIN THE BOUNDS OF THIS SURVEY).

11. RIGHT OF WAY EASEMENT BY THE BOROUGH OF CARTERET AND SOCONY-VACUUM OIL COMPANY IN DB 1803 PG 590 (EASEMENT IS ON LOTS 44, 45, 46 & 47 IN BLOCK 11.01 AND IS NOT WITHIN THE BOUNDS OF THIS SURVEY).

12. EASEMENT AGREEMENT BY THE BOROUGH OF CARTERET AND THE RAHWAY VALLEY SEWERAGE AUTHORITY IN DB 2026 PG 217 (IS NOT WITHIN THE BOUNDS OF THIS SURVEY).

13. RIGHT OF WAY EASEMENT BY THE BOROUGH OF CARTERET AND THE RAHWAY VALLEY SEWERAGE AUTHORITY IN DB 2611 PG 342 (FALLS ON THE WESTERN LOT LINE OF LOT 53 AND IS NOT WITHIN THE BOUNDS OF THIS SURVEY).

14. RIGHT OF WAY EASEMENT BY THE BOROUGH OF CARTERET AND PUBLIC SERVICE ELECTRIC AND GAS COMPANY IN DB 2998 PG 914 (FALLS ON LOTS 50, 44, 45, 46 & 47 IN BLOCK 11.01 AND IS NOT WITHIN THE BOUNDS OF THIS SURVEY).

TITLE REPORT 62611:

THIS TITLE REPORT REFERS TO TAX BLOCK 10, LOT 11. (N/F BOROUGH OF CARTERET)

NO ITEMS IN SCHEDULE B – SECTION II PERTAIN TO THIS SURVEY.

TITLE REPORT 63033:

THIS TITLE REPORT REFERS TO TAX BLOCK 11.01, LOT 15. (N/F TITAN-PDC CARTERET II, LLC)

NO ITEMS IN SCHEDULE B – SECTION II PERTAIN TO THIS SURVEY.

Block 10 Lots 8, 9, & 10

	SURVEY		DEED	
COURSE	BEARING	DISTANCE	BEARING	DISTANCE
40	S 63° 01' 01" E	58.00'	S 53° E	58'
41	S 49° 01' 01" E	47.00'	S 39° E	47'
42	S 30° 01' 01" E	151.00'	S 20° E	151'
43	S 44° 01' 01" E	57.50'	S 34° E	57.50'
44	S 47° 39' 01" E	99.12'	S 37°38' E	99.12'
45	S 42° 01' 01" E	100.00'	S 32° E	100'
46	S 39° 01' 01" E	90.00'	S 29° E	90'
47	S 31° 01' 01" E	25.00'	S 21° E	25'
48	S 16° 01' 01" E	18.00'	S 06° E	18'
49	S 03° 58' 59" W	44.00'	S 14° W	44'
50	S 13° 58' 59" W	78.00'	S 24° W	78'
51	S 32° 58' 59" W	145.00'	S 43° W	145'
52	S 28° 58' 59" W	46.00'	S 39° W	46'
53	S 22° 58' 59" W	72.00'	S 33° W	72'
54	S 33° 58' 59" W	37.00'	S 44° W	37'
55	N 57° 41' 01" W	53.28'	N 47°40' W	53.28'
56	N 71° 11' 01" W	69.48'	N 61°10' W	69.48'
57	N 75° 11' 01" W	57.50'	N 65°10' W	57.50'
58	N 65° 01' 01" W	25.00'	N 55° W	25'
59	N 48° 01' 01" W	19.00'	N 38° W	19'
60	N 40° 01' 01" W	14.00'	N 30° W	14'
61	N 47° 31' 01" W	75.00'	N 37°30' W	75'
62	N 35° 01' 01" W	25.00'	N 25° W	25'
63	N 51° 31' 01" W	50.00'	N 41°30' W	50'
64	N 65° 40' 13" W	49.99'	N 55°40' W	50'
65	N 61° 21' 01" W	35.50'	N 51°20' W	35.5'
66	N 65° 31' 01" W	53.00'	N 55°30' W	53'
67	N 67° 26' 01" W	97.00'	N 57°25' W	97'
68	N 66° 01' 01" W	41.00'	N 56° W	41'
69	N 79° 01' 01" W	19.00'	N 69° W	19'
70	N 88° 01' 01" W	18.50'	N 78° W	18.5'
71	S 82° 58' 59" W	66.00'	N 87° W	66'
72	S 71° 58' 57" W	7.67'	S 82° W	7.67'
73	S 64° 03' 46" W	8.92'	S 74° W	9'
74	N 32° 05' 22" W	47.00'	N 22° W	47'
75	N 42° 05' 22" W	18.00'	N 32° W	18'
76	N 19° 05' 22" W	55.00'	N 09° W	55'
77	N 28° 35' 22" W	87.00'	N 18°30' W	87'
78	N 11° 05' 22" W	27.00'	N 01° W	27'
79	N 39° 05' 22" W	102.00'	N 29° W	102'
80	N 42° 05' 22" W	48.50'	N 32° W	48.50'
81	N 02° 54' 38" E	32.00'	N 13° E	32'
82	N 22° 54' 38" E	63.00'	N 33° E	63'
83	N 37° 54' 38" E	33.50'	N 48° E	33.50'

Block 11.01 Lot 15

COURSE	BEARING	DISTANCE
1	N 21°03'31" E	70.93'
2	N 55°44'35" E	22.99'
3	N 06°59'22" E	50.37'
4	N 46°38'42" E	104.69'
5	N 64°19'23" E	66.65'
6	N 50°50'04" E	42.64'
7	N 90°00'00" E	12.00'
8	S 41°21'24" E	34.72'
9	S 17°30'00" E	109.11'
10	S 22°01'02" E	34.52'
11	S 01°36'51" E	33.01'
12	S 19°59'54" E	31.99'
13	S 40°50'24" E	10.33'
14	S 85°43'56" W	320.07'

Block 11.01 Lot 14

	SURVEY		DEED	
COURSE	BEARING	DISTANCE	BEARING	DISTANCE
20	N 82° 40' 14" W	53.94'	S 72° E	55'
21	N 74° 05' 38" W	45.00'	S 64° E	45'
22	N 63° 05' 38" W	25.00'	S 53° E	25'
23	N 47° 05' 38" W	25.00'	S 37° E	25'
24	N 60° 05' 38" W	25.00'	S 50° E	25'
25	N 38° 05' 38" W	78.00'	S 28° E	78'
26	N 29° 05' 38" W	57.00'	S 19° E	57'
27	N 26° 05' 38" W	48.00'	S 16° E	48'
28	N 18° 05' 38" W	22.00'	S 8° E	22'
29	N 07° 05' 38" W	60.00'	S 3° W	60'
30	N 48° 05' 38" W	14.00'	S 38° E	14'
31	N 16° 05' 41" W	38.86'	S 6° E	38.87'

AREA CHART:

CYTEC INDUSTRIES INC.		
BLOCK 9.03	LOT 21	15.2253 ACRES
BLOCK 10	LOT 8	4.2655 ACRES
BLOCK 10	LOT 9	4.1180 ACRES
BLOCK 10	LOT 10	6.9671 ACRES
BLOCK 10	LOT 12	11.3420 ACRES
BLOCK 10	LOT 13	8.3185 ACRES
BLOCK 10	LOT 14	7.5269 ACRES
BLOCK 10	LOT 15	1.5121 ACRES
BLOCK 10	LOT 16	4.3101 ACRES
BLOCK 10	LOT 17	3.7709 ACRES
BLOCK 10	LOT 18	2.2287 ACRES
BLOCK 10	LOT 19	2.8295 ACRES
BLOCK 10	LOT 20	4.8650 ACRES
BLOCK 10	LOT 21	5.3686 ACRES
BLOCK 11.01	LOT 8	3.0359 ACRES
BLOCK 11.01	LOT 10	4.8838 ACRES
BLOCK 11.01	LOT 11	14.6815 ACRES
BLOCK 11.01	LOT 12	7.7772 ACRES
BLOCK 11.01	LOT 13	5.7264 ACRES
BLOCK 11.01	LOT 14	4.3626 ACRES
BLOCK 11.01	LOT 28	2.9236 ACRES
SUBTOTAL		126.0392 ACRES
BOROUGH OF CARTERET		
BLOCK 10	LOT 11	3.9724 ACRES
BLOCK 11.01	LOT 7	6.9078 ACRES
BLOCK 11.01	LOT 9	1.2335 ACRES
BLOCK 11.01	LOT 27	11.4045 ACRES
SUBTOTAL		23.5182 ACRES
UNKNOWN OWNER		
BLOCK 11.01	LOT 6	1.5718 ACRES
SUBTOTAL		1.5718 ACRES
TITAN-PDC CARTERET II, LLC		
BLOCK 11.01	LOT 15	1.1330 ACRES
SUBTOTAL		1.1330 ACRES
TOTAL AREA OF LOTS =		152.2622 ACRES

FLOOD ZONE DESIGNATION:

THIS SITE FALLS WITHIN SPECIAL FLOOD HAZARD ZONE AE(el. 9) , OTHER FLOOD AREAS ZONE X AND OTHER AREAS ZONE X, AS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL 340257 0005 B, DATED NOVEMBER 15, 1978 AND REVISED APRIL 15, 1992.

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD
ZONE AE – BASE FLOOD ELEVATIONS DETERMINED FOR THIS SITE 9'.

OTHER FLOOD AREAS
ZONE X – AREAS OF 500-YEAR FLOOD: AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE: AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD.

OTHER AREAS
ZONE X – AREAS OF 500-YEAR FLOOD: AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOOD-PLAIN.

SURVEY CERTIFIED TO:

TITAN PDC CARTERET II, LLC
WILENTZ GOLDMAN & SPITZER, P.A.
ROYAL ABSTRACT OF NEW YORK, LLC
CHICAGO TITLE INSURANCE COMPANY

ALTA / ACSM LAND TITLE SURVEY
BLOCK 9.03 LOT 21
BLOCK 10 LOTS 8 – 21
BLOCK 11.01 LOTS 6 – 15, 27 & 28
BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY

Keller & Kirkpatrick
Certificate of Authorization #24GA28037400
900 Lanidex Plaza, Parsippany, N.J. 07054 973-887-0208
CONSULTING ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS PLANNERS
10/23/06
ROBERT C. KIRKPATRICK, JR., Professional Engineer and Land Surveyor, Lic. 11359
GEORGE P. JAMES, Professional Engineer, Lic. 22634
WERNER A. MALL, Professional Land Surveyor, Lic. 37201

DATE: 9/29/06 SCALE: 1"= 200' FLD. BK.: 62-13
PROJ.: 2021203.12 CHKD.: PAGE: 21

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REVISIONS 1 2 3 4 5 6
REVISIONS 7 8 9 10 11 12

SHEET No. 1 OF 3

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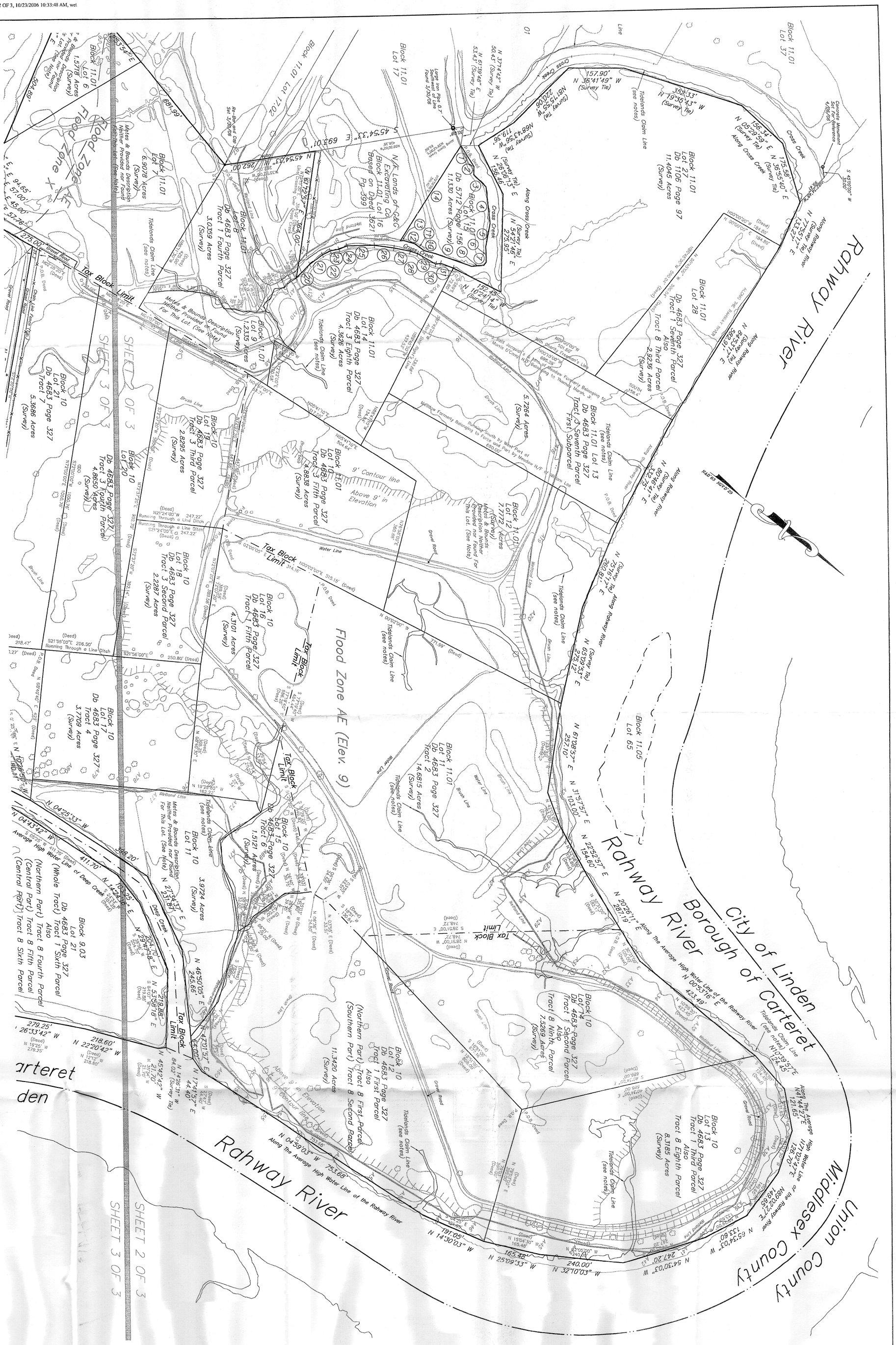
Block 11.01 Lot15

COURSE	BEARING	DISTANCE
1	N 21°03'17" E	20.91'
2	N 68°56'43" W	50.00'
3	N 08°39'02" E	50.37'
4	N 46°19'42" E	104.69'
5	N 64°12'43" E	66.65'
6	N 90°00'00" E	12.00'
7	N 41°21'24" E	34.22'
8	S 17°30'00" E	109.11'
9	S 01°39'51" E	33.01'
10	S 12°59'54" E	31.99'
11	S 40°57'24" E	10.33'
12	S 83°16'36" W	320.01'
13		
14		

Block 11.01 Lot 14

COURSE	SURVEY BEARING	SURVEY DISTANCE	DEED BEARING	DEED DISTANCE
20	N 82° 40' 14" W	53.94'	S 72° E	55'
21	N 74° 05' 38" W	45.00'	S 64° E	45'
22	N 63° 05' 38" W	25.00'	S 53° E	25'
23	N 47° 05' 38" W	25.00'	S 37° E	25'
24	N 60° 05' 38" W	25.00'	S 50° E	25'
25	N 38° 05' 38" W	78.00'	S 28° E	78'
26	N 29° 05' 38" W	57.00'	S 19° E	57'
27	N 26° 05' 38" W	48.00'	S 16° E	48'
28	N 18° 05' 38" W	22.00'	S 8° E	22'
29	N 07° 05' 38" W	60.00'	S 3° W	60'
30	N 49° 05' 38" W	14.00'	S 38° E	14'
31	N 16° 05' 41" W	36.86'	S 6° E	38.87'



SHEET No.	2 OF 3

ALTA / ACSM LAND TITLE SURVEY
BLOCK 9.03 LOT 21
BLOCK 10 LOTS 8 – 21
BLOCK 11.01 LOTS 6 – 15, 27 & 28
BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY

Keller & Kirkpatrick Certificate of Authorization #24GA28037400
900 Lanidex Plaza, Parsippany, N.J. 07054 973-887-0208
CONSULTING ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS PLANNERS
ROBERT C. KIRKPATRICK, JR., Professional Engineer and Land Surveyor, Lic. 11359
GEORGE P. JAMES, Professional Engineer, Lic. 22934
WERNER A. MALL, Professional Land Surveyor, Lic. 37201

10/23/06

DATE: 9/29/06 SCALE: 1"= 100' FLD. BK.: 62-13
PROJ.: 2021203.12 CHKD.: PAGE: 21

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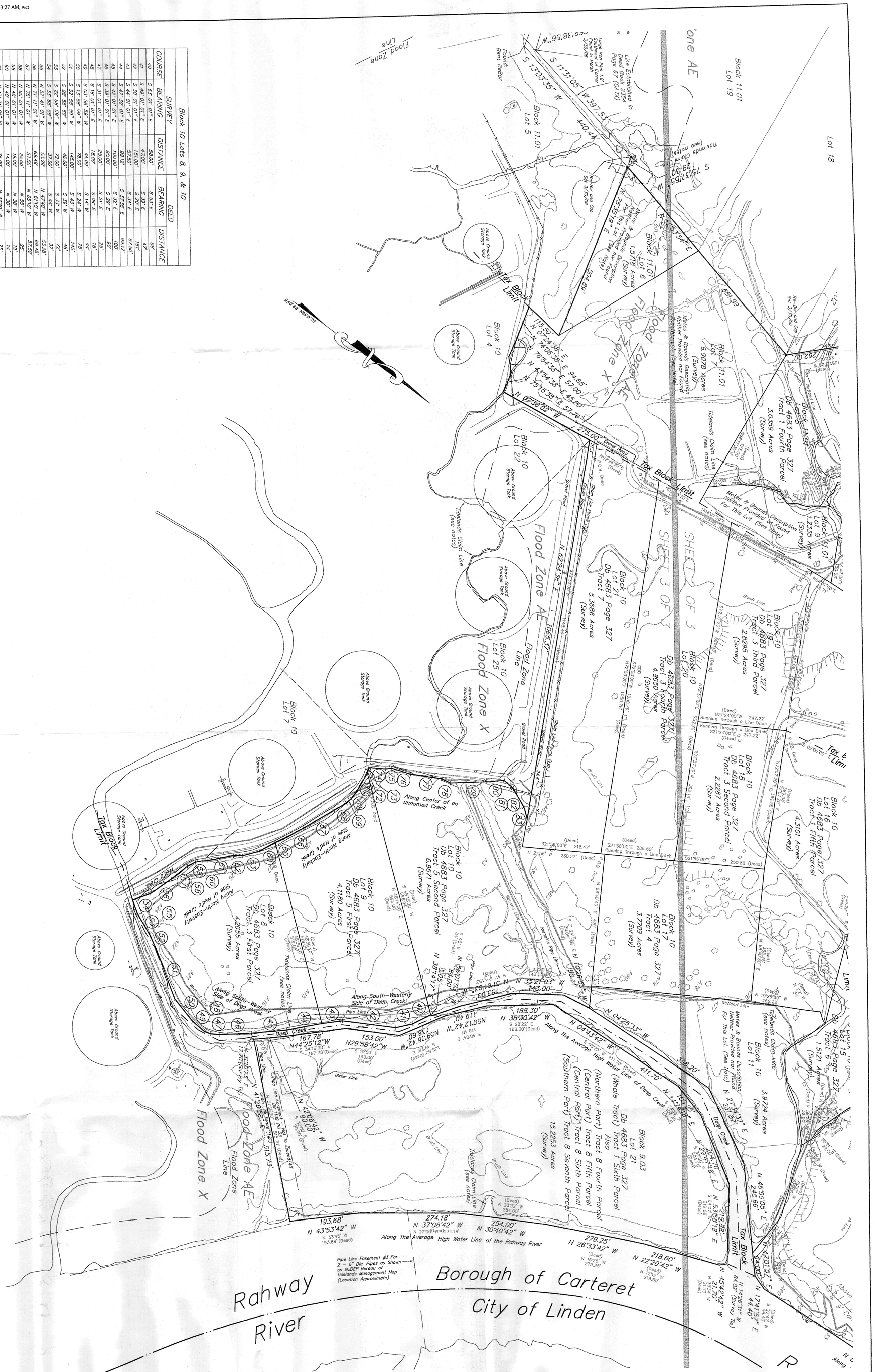
REVISIONS			REVISIONS		
6			12		
5			11		
4			10		
3			9		
2			8		
1			7		

Block 10 Lots 8, 9, & 10					
	SURVEY			DEED	
COURSE	BEARING	DISTANCE		BEARING	DISTANCE
40	S 63° 01' 01" E	58.00'		S 63° E	58'
41	S 49° 01' 01" E	47.00'		S 39° E	47'
42	S 30° 01' 01" E	151.00'		S 30° E	151'
43	S 44° 59' 01" E	57.50'		S 36° E	57.50'
44	S 42° 01' 01" E	99.12'		S 37°38' E	99.12'
45	S 39° 01' 01" E	100.00'		S 39° E	100'
46	S 31° 01' 01" E	90.00'		S 28° E	90'
47	S 18° 01' 01" E	25.00'		S 21° E	25'
48	S 01° 58' 59" W	18.00'		S 08° E	18'
49	S 01° 58' 59" W	44.00'		S 14° W	44'
50	S 13° 58' 59" W	78.00'		S 24° W	78'
51	S 32° 58' 59" W	145.00'		S 40° W	145'
52	S 28° 58' 59" W	46.00'		S 33° W	46'
53	S 22° 58' 59" W	72.00'		S 33° W	72'
54	S 33° 58' 59" W	37.00'		S 44° W	37'
55	N 57° 41' 01" W	53.28'		N 47°40' W	53.28'
56	N 71° 11' 01" W	69.48'		N 61°10' W	69.48'
57	N 75° 11' 01" W	57.50'		N 65°10' W	57.50'
58	N 65° 01' 01" W	25.00'		N 55° W	25'
59	N 48° 01' 01" W	19.00'		N 38° W	19'
60	N 40° 01' 01" W	14.00'		N 30° W	14'
61	N 47° 31' 01" W	75.00'		N 37°30' W	75'
62	N 35° 01' 01" W	25.00'		N 25° W	25'
63	N 51° 31' 01" W	50.00'		N 41°30' W	50'
64	N 65° 40' 13" W	49.99'		N 55°40' W	50'
65	N 61° 21' 01" W	35.50'		N 51°20' W	35.5'
66	N 65° 31' 01" W	53.00'		N 55°30' W	53'
67	N 67° 26' 01" W	97.00'		N 57°25' W	97'
68	N 66° 01' 01" W	41.00'		N 56° W	41'
69	N 79° 01' 01" W	19.00'		N 69° W	19'
70	N 88° 01' 01" W	18.50'		N 78° W	18.5'
71	S 82° 58' 59" W	66.00'		N 82° W	66'
22	S 71° 58' 59" W	7.67'		S 82° W	7.67'
23	S 64° 03' 46" W	6.92'		S 74° W	9'
74	N 32° 05' 22" W	41.00'		N 22° W	47'
75	N 42° 05' 22" W	18.00'		N 32° W	18'
76	N 19° 05' 22" W	55.00'		N 09° W	55'
77	N 28° 35' 22" W	87.00'		N 18°30' W	87'
78	N 11° 05' 22" W	27.00'		N 01° W	27'
79	N 39° 05' 22" W	102.00'		N 29° W	102'
80	N 42° 05' 22" W	48.50'		N 32° W	48.50'
81	N 02° 54' 38" E	32.00'		N 13° E	32'
82	N 22° 54' 38" E	63.00'		N 33° E	63'
83	N 37° 54' 38" E	33.50'		N 48° E	33.50'



SHEET No. 3 OF 3

ALTA / ACSM LAND TITLE SURVEY
BLOCK 9.03 LOT 21
BLOCK 10 LOTS 8 - 21
BLOCK 11.01 LOTS 6 - 15, 27 & 28
BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY

Keller & Kirkpatrick Certificate of Authorization #24GA28037400
900 Lanidex Plaza, Parsippany, N.J. 07054 973-887-0208
CONSULTING ENGINEERS LAND SURVEYORS LANDSCAPE ARCHITECTS PLANNERS
ROBERT C. KIRKPATRICK, JR., Professional Engineer and Land Surveyor, Lic. 11359
GEORGE P. JAMES, Professional Engineer, Lic. 22334
WERNER A. MALL, Professional Land Surveyor, Lic. 37201

10/23/06

DATE: 9/29/06 SCALE: 1"= 100' FLD. BK.: 62-13
PROJ.: 2021203.12 CHKD.: WAM PAGE: 21

0 50 100 200 400

REVISIONS			
6			
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REVISIONS			
12			
11			
10			
9			
8			
7			

300 0 300 600 900

Scale 1" = 300'

LEGEND:

- B-1 - 1981 TEST BORING LOCATION (TOTAL OF 11) M. DISKO ASSOCIATES & PHILIP J-HEALEY CO.
- TH-1E - 1981 TEST BORING LOCATION (TOTAL OF 12) M. DISKO ASSOCIATES & PHILIP J-HEALEY CO.
- CRT2 MW-2D MW-2S - 1987 DEEP/SHALLOW WELL CLUSTER (TOTAL OF 8 CLUSTERS) BLASLAND, BOUCK, & LEE, INC.
- TH-2C - 1991 APPROXIMATE SEDIMENT SAMPLE LOCATION (TOTAL OF 10) NJDEPE, DRPSR, BUREAU OF SITE ASSESSMENT
- SB-3 - 1997 TEST BORING LOCATION (TOTAL OF 8) BLASLAND, BOUCK, & LEE, INC.
- H1, L1 - APPROXIMATE LOCATION OF SURFACE WATER SAMPLING COLLECTED FROM THE RAHWAY RIVER BY HYDROSYSTEMS INC. ON OCT. 9, 1986
- SS-1 - APPROXIMATE LOCATION OF SOIL SAMPLES COLLECTED BY DAMES AND MOORE ON REPORT, DATED NOV. 16, 1979.
- SW-1 - APPROXIMATE LOCATION OF SURFACE WATER SAMPLES COLLECTED BY BLASLAND, BOUCK, & LEE, INC FROM DEEP CREEK BETWEEN JUNE 1998 & JUNE 1999
- CAST-OUT MATERIAL RETURNED TO IMPOUND NO. 6
- APPROXIMATE LOCATION OF PROPERTY LINE
- E 2,124,500 N 642,500 - COORDINATES - N.J. STATE PLANE COORDINATE SYSTEM
- BERM

NOTES:

1. ALL BORING AND WELL LOCATIONS ARE APPROXIMATE.
2. SUBSURFACE INFORMATION SUMMARIZED FROM BORING LOGS BY OTHERS. NO LOGS AVAILABLE FOR SB-1 TO SB-8, AND CRT-1 TO CRT-8. SUBSURFACE INFORMATION FOR THESE BORINGS INTERPOLATED FROM GEOLOGIC CROSS - SECTIONS (SB) & DATA TABLES (CRT)
3. SURVEY INFORMATION OBTAINED FROM DRAWING ENTITLED "WETLAND LOCATION MAP" PREPARED BY CREST ENGINEERING ASSOCIATES, INC. 8/7/97.
4. PROPERTY LINES ARE BASED ON A MAP ENTITLED " DEED ASSEMBLY MAP CARTERET SLUDGE IMPOUND" 10/16/93.
5. 100 YEAR FLOOD PLAIN ELEVATION AT THE SITE IS 9 FEET ABOVE msl.

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Sample: DM-1

Sample Date:		10/31/79
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.02
Iron	(mg/kg)	44
Total Cyanide	(mg/kg)	430

Sample: DM-2

Sample Date:		10/31/79
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.61
Iron	(mg/kg)	65
Total Cyanide	(mg/kg)	720

Sample: DM-3

Sample Date:		10/31/79
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.14
Iron	(mg/kg)	93
Total Cyanide	(mg/kg)	190

Sample: DM-4

Sample Date:		10/31/79
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.15
Iron	(mg/kg)	36
Total Cyanide	(mg/kg)	150

Sample: DM-5

Sample Date:		10/31/79
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.32
Iron	(mg/kg)	54
Total Cyanide	(mg/kg)	650

Sample: DM-6

Sample Date:		10/31/79
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.41
Iron	(mg/kg)	98
Total Cyanide	(mg/kg)	1220

Sample: DM-7

Sample Date:		3-4/1981
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.37
Iron	(mg/kg)	160
Total Cyanide	(mg/kg)	1500

Sample: DM-8

Sample Date:		3-4/1981
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.05
Iron	(mg/kg)	110
Total Cyanide	(mg/kg)	750

Sample: DM-9

Sample Date:		3-4/1981
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.32
Iron	(mg/kg)	46
Total Cyanide	(mg/kg)	900

Sample: DM-10

Sample Date:		3-4/1981
Analytical Data:		
Sample Depth	(ft)	NA
Mercury	(mg/kg)	0.16
Iron	(mg/kg)	69
Total Cyanide	(mg/kg)	1400

BDL = Below Detection Limit
ND = Not Detected
NR = Not Analyzed
NA = Not Available

Sample: UNK-1 (Sample 1, Impound 1)

Sample Date:		1981
Analytical Data:		
Sample Depth	(ft)	NA
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	10.6
Lead	(mg/kg)	16.7
Total Cyanide	(mg/kg)	693
Soluable Cyanide	(mg/kg)	180

Sample: UNK-2 (Sample 1, Impound 2)

Sample Date:		1981
Analytical Data:		
Sample Depth	(ft)	NA
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	11.7
Lead	(mg/kg)	13.9
Total Cyanide	(mg/kg)	815
Soluable Cyanide	(mg/kg)	33

Sample: UNK-3 (Sample 2, Impound 2)

Sample Date:		1981
Analytical Data:		
Sample Depth	(ft)	NA
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	3.43
Lead	(mg/kg)	ND
Total Cyanide	(mg/kg)	622
Soluable Cyanide	(mg/kg)	35

Sample: UNK-4 (Sample 3, Impound 2)

Sample Date:		1981
Analytical Data:		
Sample Depth	(ft)	NA
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	3.78
Lead	(mg/kg)	ND
Total Cyanide	(mg/kg)	929
Soluable Cyanide	(mg/kg)	29

Sample: UNK-5 (Sample 1, Impound 3)

Sample Date:		1981
Analytical Data:		
Sample Depth	(ft)	NA
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	5.49
Lead	(mg/kg)	NR
Total Cyanide	(mg/kg)	2198
Soluable Cyanide	(mg/kg)	425

Sample: UNK-6 (Sample 2, Impound 3)

Sample Date:		1981
Analytical Data:		
Sample Depth	(ft)	NA
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	3.43
Lead	(mg/kg)	NR
Total Cyanide	(mg/kg)	2374
Soluable Cyanide	(mg/kg)	416

Sample: S-1

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	1
Total VOCs	(mg/kg)	ND
alpha-Chlordane	(mg/kg)	ND
Aroclor-1254	(mg/kg)	0.17
Chromium	(mg/kg)	24.7
Lead	(mg/kg)	174
Zinc	(mg/kg)	914
Total Cyanide	(mg/kg)	3.9
Soluable Cyanide	(mg/kg)	NR

Sample: S-2

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	4-5
Total VOCs	(mg/kg)	ND
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	27.1
Lead	(mg/kg)	44.6
Total Cyanide	(mg/kg)	337
Soluable Cyanide	(mg/kg)	NR

Sample: S-3

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	1.5
Total VOCs	(mg/kg)	ND
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	26.1
Lead	(mg/kg)	32.3
Total Cyanide	(mg/kg)	472
Soluable Cyanide	(mg/kg)	NR

Sample: S-5

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	3
Total VOCs	(mg/kg)	ND
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	25
Lead	(mg/kg)	40.9
Total Cyanide	(mg/kg)	768
Soluable Cyanide	(mg/kg)	NR

Sample: S-6

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	3
Total VOCs	(mg/kg)	ND
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	18.8
Lead	(mg/kg)	28.9
Total Cyanide	(mg/kg)	153
Soluable Cyanide	(mg/kg)	NR

Sample: S-7

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	3
Total VOCs	(mg/kg)	ND
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	12.9
Lead	(mg/kg)	18.3
Total Cyanide	(mg/kg)	9.7
Soluable Cyanide	(mg/kg)	NR

Sample: S-8

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	2.5-3
Total VOCs	(mg/kg)	ND
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	6.7
Lead	(mg/kg)	10.7
Total Cyanide	(mg/kg)	403
Soluable Cyanide	(mg/kg)	NR

Sample: S-9

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	3
Total VOCs	(mg/kg)	ND
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	12
Lead	(mg/kg)	21.4
Total Cyanide	(mg/kg)	972
Soluable Cyanide	(mg/kg)	NR

Sample: S-10

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	2
Total VOCs	(mg/kg)	ND
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	25.1
Lead	(mg/kg)	25.9
Total Cyanide	(mg/kg)	1020
Soluable Cyanide	(mg/kg)	NR

Sample: S-11

Sample Date:		10/24/91
Analytical Data:		
Sample Depth	(ft)	3
Total VOCs	(mg/kg)	ND
Pesticides	(mg/kg)	ND
PCBs	(mg/kg)	ND
Chromium	(mg/kg)	16.4
Lead	(mg/kg)	12.6
Total Cyanide	(mg/kg)	68.7
Soluable Cyanide	(mg/kg)	NR

Sample: B-1

Sample Date:		5/19/86
Analytical Data:		
Sample Depth	(ft)	NA
Metals (EP Toxicity)	(mg/kg)	ND
Total Cyanide	(mg/kg)	683
Soluable Cyanide	(mg/kg)	14

Sample: B-2

Sample Date:		5/19/86
Analytical Data:		
Sample Depth	(ft)	NA
Metals (EP Toxicity)	(mg/kg)	ND
Total Cyanide	(mg/kg)	452
Soluable Cyanide	(mg/kg)	18

Sample: B-3

Sample Date:		5/19/86
Analytical Data:		
Sample Depth	(ft)	NA
Mercury (EP Toxicity)	(mg/kg)	570
Total Cyanide	(mg/kg)	3660
Soluable Cyanide	(mg/kg)	103

Sample: B-4

Sample Date:		5/19/86
Analytical Data:		
Sample Depth	(ft)	NA
Mercury (EP Toxicity)	(mg/kg)	690
Total Cyanide	(mg/kg)	437
Soluable Cyanide	(mg/kg)	38

Sample: B-5

Sample Date:		5/19/86
Analytical Data:		
Sample Depth	(ft)	NA
Metals (EP Toxicity)	(mg/kg)	ND
Total Cyanide	(mg/kg)	433
Soluable Cyanide	(mg/kg)	9

Sample: CART-2

Sample Date:		5/19/86
Pore Water Data:		
Cyanide, Total as CN	(ug/L)	85000
Cyanide, Free	(ug/L)	330

Sample: CART-4

Sample Date:		5/19/86
Pore Water Data:		
Cyanide, Total as CN	(ug/L)	124000
Cyanide, Free	(ug/L)	2400

Sample: CART-5

Sample Date:		5/19/86
Pore Water Data:		
Cyanide, Total as CN	(ug/L)	105000
Cyanide, Free	(ug/L)	500

Sample: CART-6

Sample Date:		5/19/86
Pore Water Data:		
Cyanide, Total as CN	(ug/L)	62000
Cyanide, Free	(ug/L)	2300

Sample: CART-7

Sample Date:		5/19/86
Pore Water Data:		
Cyanide, Total as CN	(ug/L)	49000
Cyanide, Free	(ug/L)	550

Sample: CART-8

Sample Date:		5/19/86
Pore Water Data:		
Cyanide, Total as CN	(ug/L)	2000
Cyanide, Free	(ug/L)	84

Sample: CART-9

Sample Date:		5/19/86
Pore Water Data:		
Cyanide, Total as CN	(ug/L)	370
Cyanide, Free	(ug/L)	12

Sample: SW-1

Sample Date:		7/15/94	6/21/95	12/8/95	6/6/96	12/19/96	6/12/97	6/11/98	6/24/99
Surface Water Data:									
Cyanide, Total as CN	(ug/L)	142	41	118	12.1	201	BDL	BDL	10
Cyanide, Free	(ug/L)	26	ND	ND	ND	BDL	BDL	BDL	BDL
Iron, Dissolved as FE	(ug/L)	184	372	2660	420	927	748	680	845
Benzene	(ug/L)	ND	BDL	3.7	BDL	BDL	BDL	BDL	BDL
Clorobenzene	(ug/L)	ND	BDL	ND	BDL	BDL	BDL	BDL	BDL

Sample: SW-2

Sample Date:		7/15/94	6/21/95	12/8/95	6/6/96	12/19/96	6/12/97	6/11/98	6/24/99
Surface Water Data:									
Cyanide, Total as CN	(ug/L)	127	14	ND	7.9	25	BDL	BDL	BDL
Cyanide, Free	(ug/L)	ND	BDL	ND	BDL	BDL	BDL	BDL	BDL
Iron, Dissolved as FE	(ug/L)	138	35.1	54.0	BDL	98.2	BDL	BDL	341
Benzene	(ug/L)	ND	BDL	ND	BDL	BDL	3.6	BDL	BDL
Clorobenzene	(ug/L)	ND	BDL	ND	BDL	BDL	BDL	BDL	BDL

Sample: SW-3

Sample Date:		7/15/94	6/21/95	12/8/95	6/6/96	12/19/96	6/12/97	6/11/98	6/24/99
Surface Water Data:									
Cyanide, Total as CN	(ug/L)	ND	BDL	ND	10.4	13	BDL	BDL	BDL
Cyanide, Free	(ug/L)	ND	BDL	ND	BDL	BDL	BDL	BDL	BDL
Iron, Dissolved as FE	(ug/L)	258	BDL	51.2	BDL	57.4	BDL	BDL	538
Benzene	(ug/L)	ND	BDL	ND	BDL	BDL	BDL	BDL	BDL
Clorobenzene	(ug/L)	ND	BDL	ND	BDL	BDL	BDL	BDL	BDL

Sample	Sample Date	Sample Depth (ft)	Cyanide, Total as CN (ug/L)	Cyanide, Free (ug/L)
H1	10/9/86	0-5.5	BDL	BDL
H2	10/9/86	0-10	BDL	BDL
H3	10/9/86	0-5.5	BDL	BDL
H4	10/9/86	0-7	BDL	BDL
H5	10/9/86	0-12.0	BDL	BDL
H6	10/9/86	0-10.0	BDL	BDL
L1	10/9/86	3.0	BDL	BDL
L2	10/9/86	4.0	BDL	BDL
L3	10/9/86	2.0	BDL	BDL
L4	10/9/86	2.0	BDL	BDL
L5	10/9/86	5.0	BDL	BDL
L6	10/9/86	2.0	BDL	BDL
L7	10/9/86	1.5	BDL	BDL
L8	10/9/86	2.0	32	32

(Surface Water Data)

BDL = Below Detection Limit
NS = Not Sampled
ND = Not Detected
NR = No Data Reported

NO.	DATE	REVISION	BY

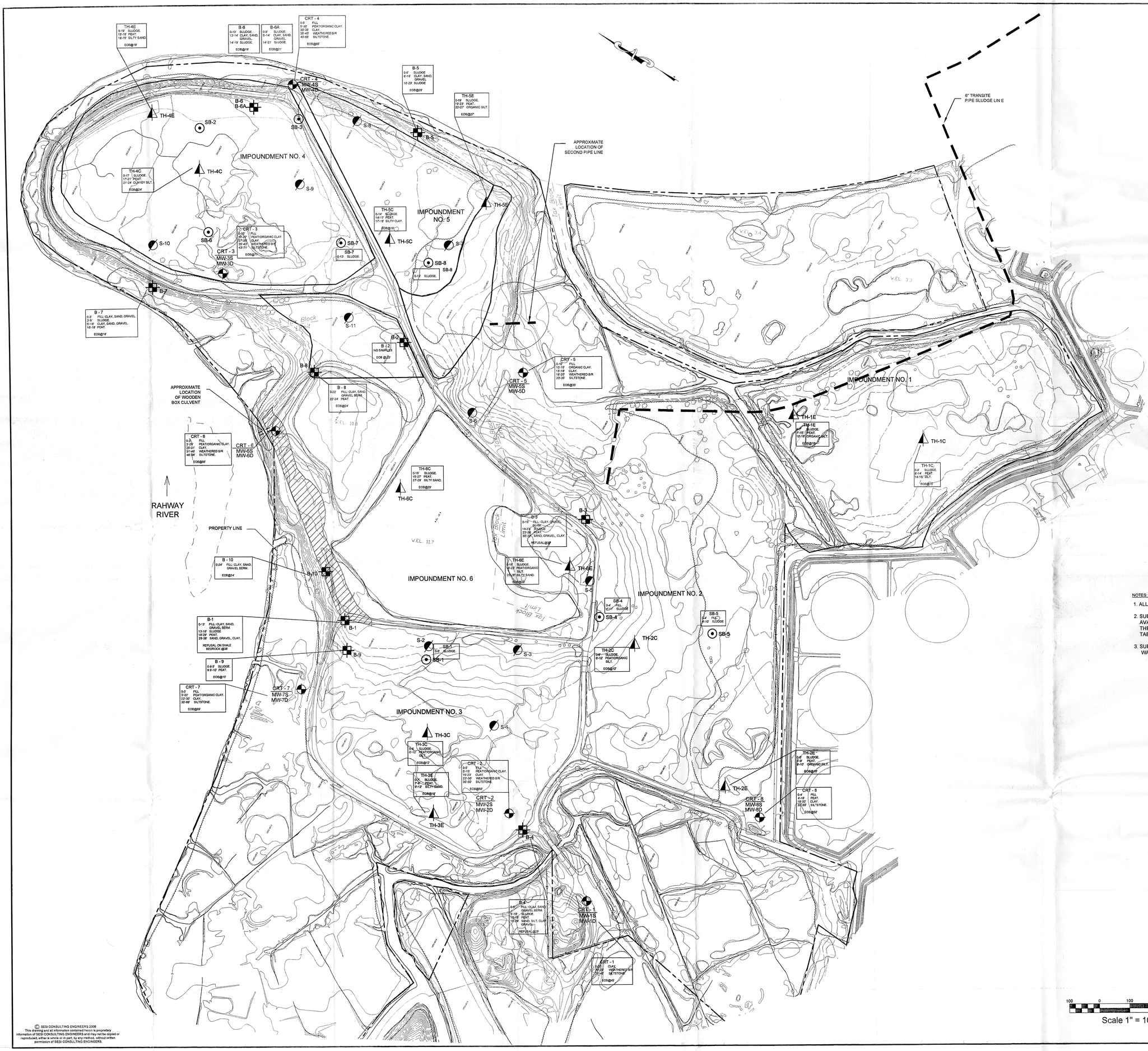
CARTERET - PHASE II CYTEC PROPERTY

BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY
TITAN-PDC CARTERET URBAN RENEWAL, LLC

CONTAMINATION DISTRIBUTION PLAN - GROUND WATER

SESI CONSULTING ENGINEERS
CERT. OF AUTH. # 24GA27934700
SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

DESIGNED BY	SP	DATE PREPARED	9-18-06
DRAWN BY	YY	SCALE	AS NOTED
CHECKED BY	SP	PROJECT NO.	6747
		SHEET NUMBER	3
		SHEET	



LEGEND:

- B-1 - 1981 TEST BORING LOCATION (TOTAL OF 11) M. DISKO ASSOCIATES & PHILIP J-HEALEY CO.
- TH - 1E - 1981 TEST BORING LOCATION (TOTAL OF 12) M. DISKO ASSOCIATES & PHILIP J-HEALEY CO.
- CRT2 MW-2D MW-2S - 1987 DEEP/SHALLOW WELL CLUSTER (TOTAL OF 8 CLUSTERS) BLASLAND, BOUCK, & LEE, INC.
- S-1 - 1991 SHALLOW SAMPLE LOCATION (TOTAL OF 10), NJDEPE, DRPSR, BUREAU OF SITE ASSESSMENT
- SB-3 - 1997 TEST BORING LOCATION (TOTAL OF 8) BLASLAND, BOUCK, & LEE, INC.
- PROPERTY LINE
- VEGETATION

REFERENCE:

1. ALL SURVEY INFORMATION SUPPLIED BY KELLER & KIRKPATRICK, FROM 2006 SURVEY.
2. WETLAND DELINEATION PERFORMED BY SHISLER ENVIRONMENTAL, INC.
3. 100 YEAR FLOOD PLAIN ELEVATION AT THE SITE IS 9 FEET ABOVE msl.
4. WETLANDS DELINEATION & SITE FEATURES INFORMATION ON THIS PLAN TAKEN FROM FIGURE " WETLAND DELINEATION MAP - EXISTING CONDITIONS " FIGURE 2, BY BLASLAND, BOUCK & LEE, INC., DWG. #44134002/44134 GO2. DWG. (PRINTED DATE 10/07/03), FOR CYTEC INDUSTRIES INC., CARTERET, NJ.
5. PROPOSED WETLANDS MITIGATION PLAN PARTIALLY TAKEN FROM DRAWING BY MENLO ENGINEERING ASSOCIATES, DATED JULY 12, 2005.
6. INFORMATION IS TAKEN FROM DRAWING ' LOCATION OF TEST BORINGS & PERMEABILITY TESTS' PREPARED BY M. DISKO ASSOCIATES, DATED JANUARY, 1982.
7. INFORMATION IS TAKEN FROM FIGURE 3 - ' IMPOUND CROSS-SECTION LOCATIONS' PREPARED BY BLASLAND, BOUCK & LEE, INC.
8. INFORMATION IS TAKEN FROM FIGURE 2-1 ' SAMPLING LOCATIONS, REMEDIAL ACTION PLAN ADDENDUM ' PREPARED BY BLASLAND, BOUCK & LEE, INC.
9. INFORMATION IS TAKEN FROM FIGURE 3 - ' IMPOUND CROSS-SECTION LOCATIONS' PREPARED BY BLASLAND, BOUCK & LEE, INC.

NOTES:

1. ALL BORING AND WELL LOCATIONS ARE APPROXIMATE.
2. SUBSURFACE INFORMATION SUMMARIZED FROM BORING LOGS BY OTHERS. NO LOGS AVAILABLE FOR SB-1 TO SB-8, AND CRT-1 TO CRT-8. SUBSURFACE INFORMATION FOR THESE BORINGS INTERPOLATED FROM GEOLOGIC CROSS - SECTIONS (SB) & DATA TABLES (CRT)
3. SURVEY DATE WAS TAKEN ON JUNE 11, 2006 FROM 8:42 - 8:52AM. HIGH TIDE FOR JUNE 11, 2006 WAS 8:33 AM WITH A WATER LEVEL OF 5.04'.

100 0 100 200 300

Scale 1" = 100'

NO	DATE	REVISION	BY

CARTERET - PHASE II CYTEC PROPERTY

BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY

TITAN-PDC CARTERET URBAN RENEWAL, LLC

HISTORICAL GEOTECHNICAL DATA

SESI CONSULTING ENGINEERS
CERT. OF AUTH. # 24GA27934700
SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
13A MAPLE AVE, PINE BROOK, N.J. 07058 PH: 973-808-9060

DESIGNED BY	SP
DRAWN BY	YY
CHECKED BY	SP
DATE PREPARED	10-06-06
SCALE	AS NOTED
PROJECT NO.	6747
SHEET NUMBER	4
SHEET	

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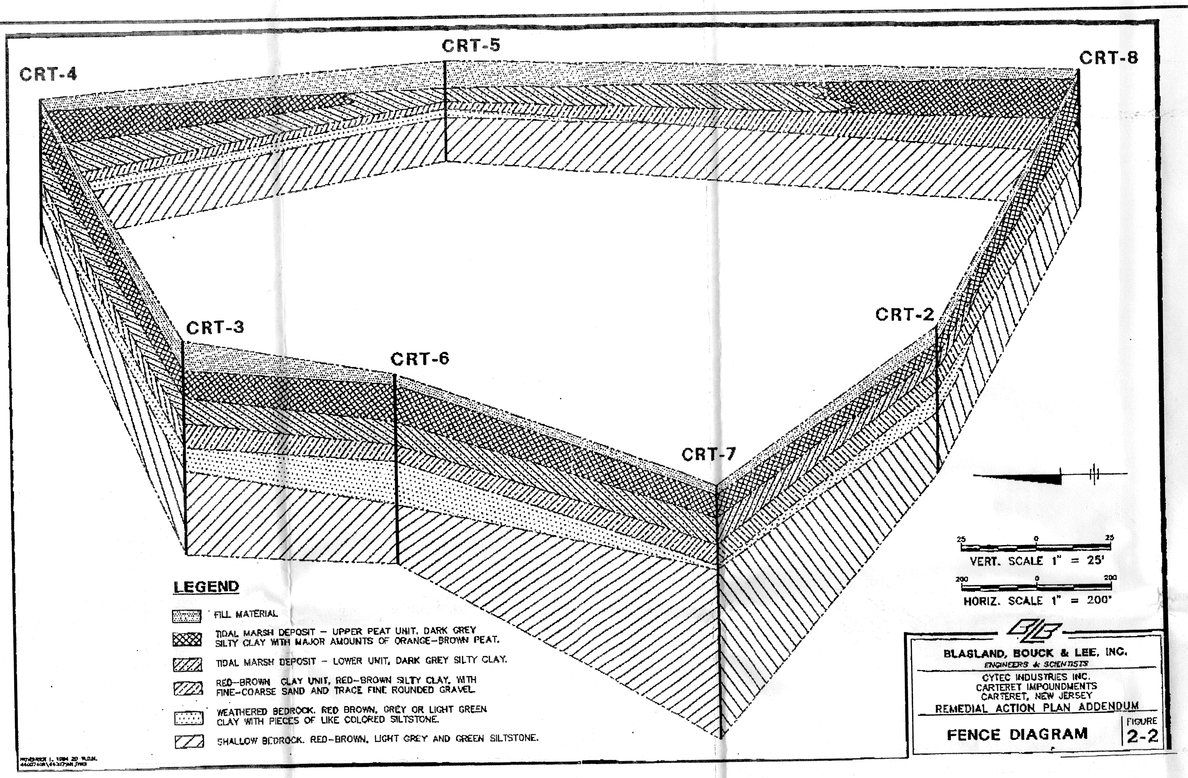
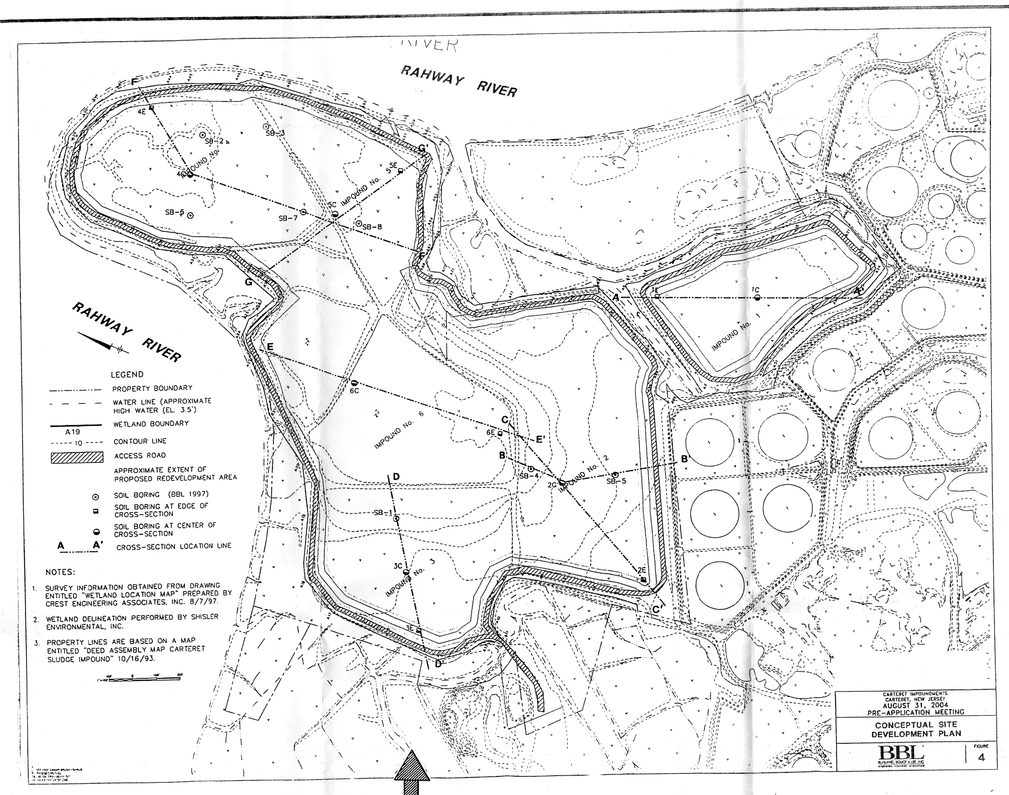




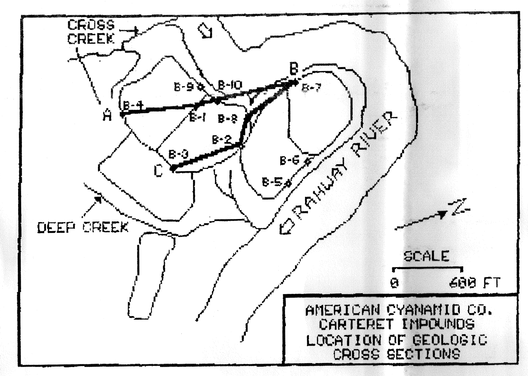


Figure 2. Site map showing the general outline of the five impounds and locations of test borings completed by H. Disko Associates (2).

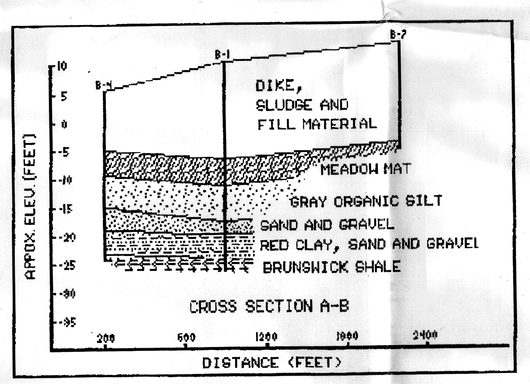


Figure 3. Geologic cross-section along line A-B shown in Figure 2 for the Carteret Impounds.

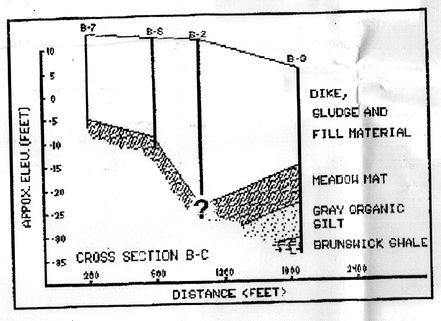
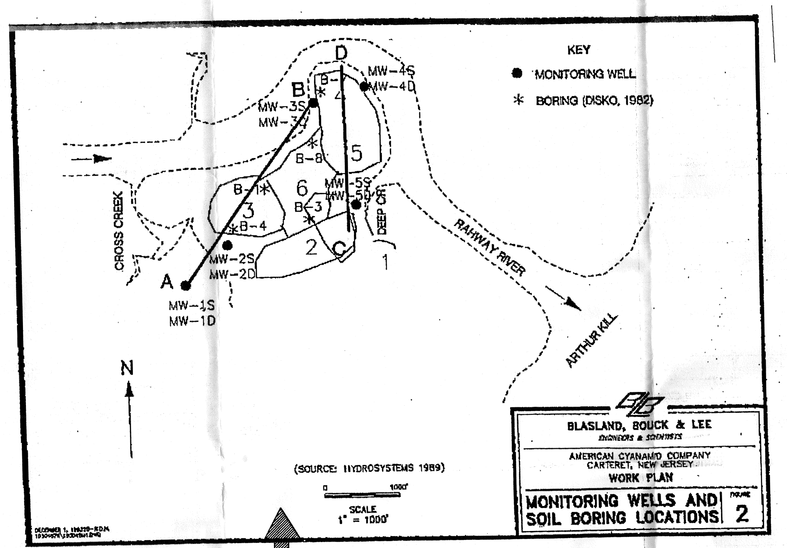
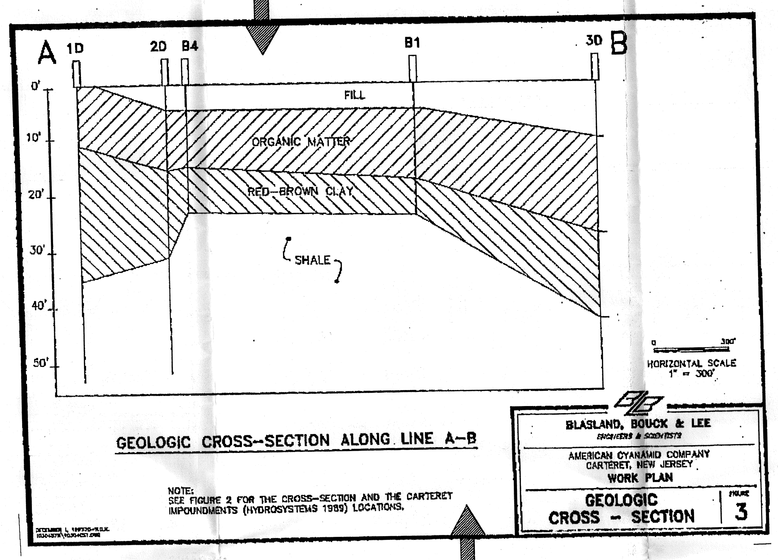
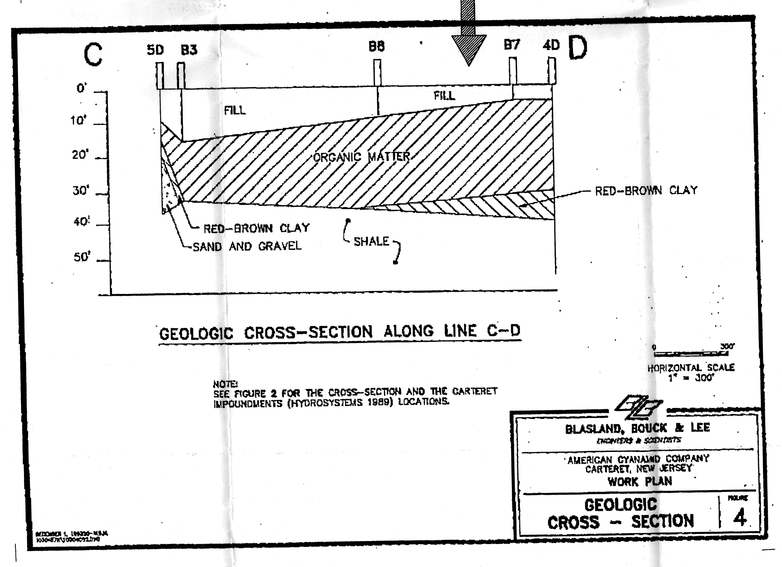
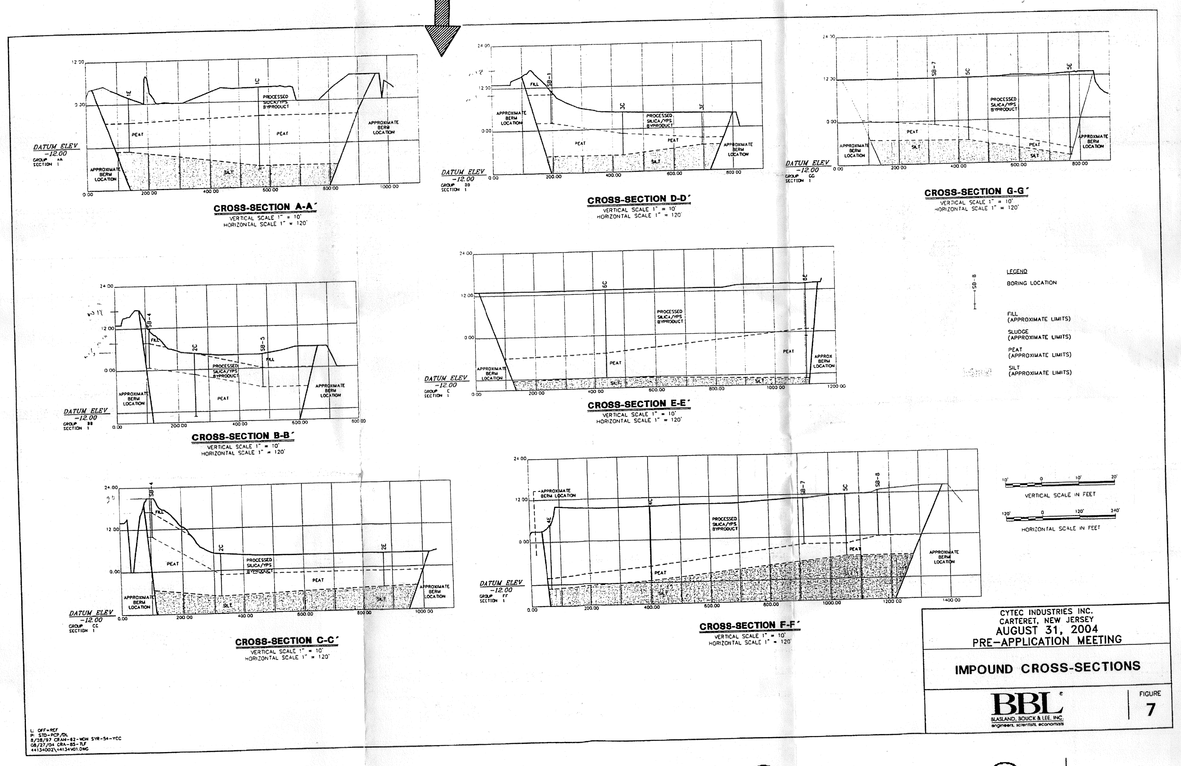


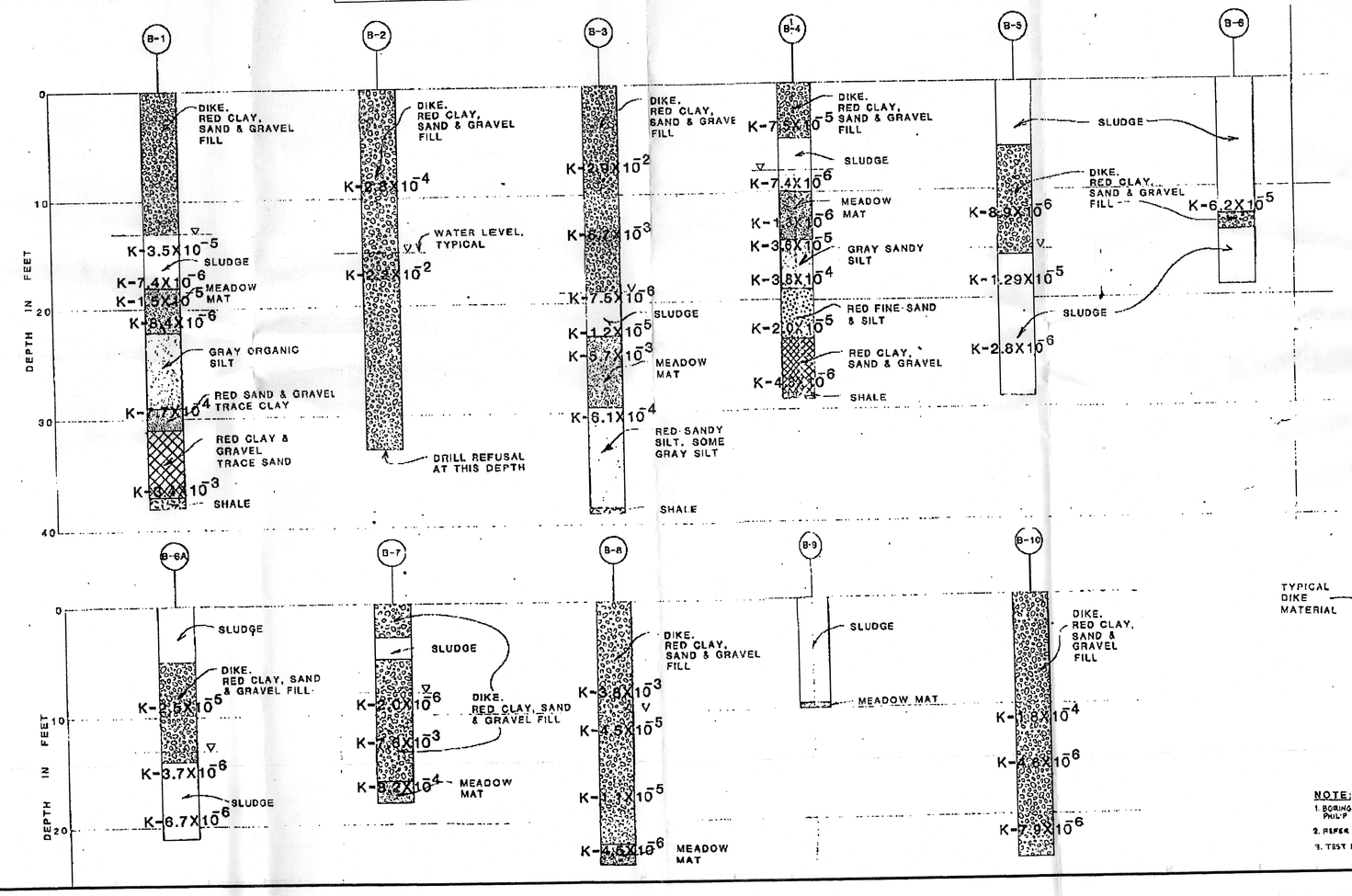
Figure 4. Geologic cross section along line B-C shown in Figure 2 for the Carteret Impounds.











NOTE:
1. BORINGS DRILLED OCTOBER 21, TO NOVEMBER 5, 1981 BY PHILIP J. HEALEY CO., RANNOCH, NEW JERSEY.
2. REFER TO SHEET 1 FOR SOME HOLE LOCATIONS.
3. TEST BORINGS ARE NOT REFERENCED TO ELEVATIONS.

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CARTERET - PHASE II CYTEC PROPERTY
BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY
TITAN-PDC CARTERET URBAN RENEWAL, LLC

HISTORICAL GEOLOGIC CROSS SECTIONS

SESI CONSULTING ENGINEERS
CERT. OF AUTH. #24GA27934700
SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
136 MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9000

DESIGNED BY	DATE PREPARED
SP	10-06-06
DRAWN BY	SCALE
YY	AS NOTED
CHECKED BY	PROJECT NO.
SP	6747
	SHEET NUMBER 5

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