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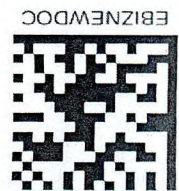
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Report.HW.336025.07-27-1998.SiteInvestigationInfoReport

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SITE INVESTIGATION INFORMATION

1. SITE NAME Rockland Psychiatric Center (RPC)		2. SITE NUMBER 344011	3. TOWN/CITY/VILLAGE Town of Orangetown	4. COUNTY Rockland
5. REGION 3	6. CLASSIFICATION CURRENT: delisted PROPOSED: 2a			
7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location) a. Quadrangle Nyack, NY-NJ b. Site Latitude 41° 03' 00" Site Longitude 73° 58' 30" c. Tax Map Numbers d. Site Street Address 140 Old Orangeburg Road, Orangeburg, New York 10962				
8. BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations) The Rockland Psychiatric Center, originally opened in 1931 to treat and rehabilitate adults with serious and persistent mental illness, consists of approximately 660 acres. To the West, 391 acres of undeveloped land is being considered for sale by New York State. Of this, a 50 acre area, located West of the facility and adjacent to the former laundry building (#47), is investigated for groundwater contamination. Lake Tappan, forming the Western boundary of the site, is the drainage receptor of the Westerly flowing streams at the facility. The reservoir is a major source of potable water for Orangetown, NY and Bergen County, NJ. Adjacent to the waste water pumping station, which is situated in the central portion of the site, a 15 foot deep sump revealed evidence of PCE contamination. The adjacent stream indicated low levels of contamination. An alleged fish kill in the stream initially drew attention to the site on March 4, 5, and 6, 1998 when fish in the stream were seen with back lesions by a Orangeburg Town engineer and United Water technicians, on separate occasions. a. Area 50 acres b. EPA ID Number _____ c. Completed <input type="checkbox"/> Phase I <input type="checkbox"/> Phase II <input type="checkbox"/> PSA <input type="checkbox"/> RI/FS <input type="checkbox"/> PA/SI <input checked="" type="checkbox"/> Other				
9. Hazardous Waste Disposed (Include EPA Hazardous Waste Numbers) Tetrachloroethylene (PCE) F001 Trans-1,2 dichloroethylene (trans-1,2 DCE) Trichloroethylene (TCE) F002 Cis-1,2 dichloroethylene (Cis-1,2 DEC)				
10. ANALYTICAL DATA AVAILABLE a. <input type="checkbox"/> Air <input checked="" type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Waste <input type="checkbox"/> Leachate <input type="checkbox"/> EPTox <input type="checkbox"/> TCLP b. Contravention of Standards or Guidance Values Groundwater: PCE: 0-1,600.00 ppb Surface Water: total VOC's: 6-22 ppb TCE: 17.25 ppb Trans-1,2 DCE: 38.65 ppb Ongoing investigations continue to generate new data on site conditions. So far, surface streams have been inspected and tested for water quality. Soil gas surveys and geoprobes have been executed throughout the study area to evaluate the soil and groundwater conditions.				
11. CONCLUSION <i>High groundwater conditions at the pumping station causes periodic flooding of the treatment tanks. Groundwater pumped from the sump to lower the water table during seasonal flooding, was discharged into the adjacent stream. The contaminated water would occasionally cause fish kills. The sump water discharge has presently been diverted into the Orangetown sewer treatment facility. The primary contamination concentration at the site has so far been identified only at the sump (consisting of PCE at 1600 ppb). Continued pumping has resulted in gradual increases in detected PCE levels. Much lower contamination has recently been found to be widespread within the 50 acre central area. Former employees have indicated that a previous laundry facility at building #47 handled dry-cleaning more than 25 years ago. Drums consisting of dry-cleaning waste fluids had been stored and dumped in an area west of the original structure. This location has since been covered, in part, by additions to the building for warehouse expansion.</i>				
12. SITE IMPACT DATA a. Nearest Surface Water: Distance 30 ft. Direction: South b. Nearest Groundwater: Depth .5 ft. Flow Direction: West <input type="checkbox"/> Sole Source <input type="checkbox"/> Primary <input type="checkbox"/> Principal c. Nearest Water Supply: Distance Direction: West Active <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No d. Nearest Building: Distance 75 ft. Direction: Northwest Use: Sewer treatment plant e. In State Economic Development Zone? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N i. Controlled Site Access? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N f. Crops or livestock on site? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N j. Exposed hazardous waste? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N g. Documented fish or wildlife mortality? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N k. HRS Score _____ h. Impact on special status fish or wildlife resource? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N l. For Class 2: Priority Category				
13. SITE OWNER'S NAME State of New York Office of Mental Health		14. ADDRESS 75 New Scotland Avenue, Albany NY 12208		15. TELEPHONE 518-473-5823
16. PREPARED BY <i>Glenn T. Angell</i> Signature Date July 21, 1998 Glenn T. Angell, CPG; Engineering Geologist; DHWR NYSDEC Name, Title, Organization		17. APPROVED <i>Ram Pergadia</i> Signature Date 7/27/98 Ram Pergadia, PE; Regional Hazardous Waste Engineer; NYS DEC Name, Title, Organization		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Hazardous Waste Remediation
Inactive Hazardous Waste Disposal Report

Site Name: <i>Rockland Psychiatric Center (RPC)</i>	Site Code: <i>344011</i>
Class Code: <i>2a</i> Region: <i>3</i>	EPA Id:
Address: <i>140 Old Orangeburg Road</i>	City: <i>Orangeburg</i> Zip: <i>10962</i>
Latitude: <i>41° 03' 00"</i> Longitude: <i>73° 58' 30"</i>	
Site Type: <i>Institutional</i>	Estimated Size: <i>50</i> Acres <i>±</i>

Site Owner / Operator Information:	
Current Owner(s) Name:	<i>State of New York Office of Mental Health</i>
Current Owner(s) Address:	<i>75 New Scotland Ave., Albany NY 12208</i>
Owner(s) during disposal:	<i>same</i>
Operator(s) during disposal:	<i>same</i>
Stated Operator(s) Address:	<i>same</i> Identify the dates of the first and last known hazardous waste disposal below.
Hazardous Waste Disposal Period:	From <i>1950±</i> To <i>1978±</i> (<i>site opened in 1931</i>)

Site Description:

The Rockland Psychiatric Center, originally opened in 1931 to treat and rehabilitate adults with serious and persistent mental illness, consists of approximately 660 acres. To the West, 391 acres of undeveloped land is being considered for sale by New York State. Of this, a 50 acre area, located West of the facility and adjacent to the former laundry building (#47), is investigated for groundwater contamination. Lake Tappan, forming the Western boundary of the site, is the drainage receptor of the Westerly flowing streams at the facility. The reservoir is a major source of potable water for Orangetown, NY and Bergen County, NJ. Adjacent to the waste water pumping station, which is situated in the central portion of the site, a 15 foot deep sump revealed evidence of PCE contamination. The adjacent stream indicated low levels of contamination. An alleged fish kill in the stream initially drew attention to the site on March 4, 5, and 6, 1998 when fish in the stream were seen with back lesions by a Orangeburg Town engineer and United Water technicians, on separate occasions.

High groundwater conditions at the pumping station causes periodic flooding of the treatment tanks. Groundwater pumped from the sump to lower the water table during seasonal flooding, was discharged into the adjacent stream. The contaminated water would occasionally cause fish kills. The sump water discharge has presently been diverted into the Orangetown sewer treatment facility. The primary contamination concentration at the site has so far been identified only at the sump (consisting of PCE at 1600 ppb). Continued pumping has resulted in gradual increases in detected PCE levels. Much lower contamination has recently been found to be widespread within the 50 acre central area. Former employees have indicated that a previous laundry facility at building #47 handled dry-cleaning more than 25 years ago. Drums consisting of dry-cleaning waste fluids had been stored and dumped in an area west of the original structure. This location has since been covered, in part, by additions to the building for warehouse expansion.

Confirmed Hazardous Waste Disposal: *PCE F001*
TCE F002
Trans-1,2 DCE
Cis-1,2 DEC

DO NOT LIST HAZARDOUS WASTE CONSTITUENTS!

PCE
TCE
Trans-1,2 DCE

Quantity: *A. Unknown quantity of drums, stored or spilled adjacent to former laundry/drycleaning located at bldg. 47.*

B. 250 barrels, including a couple containing PCE, were removed and disposed in 1993, from previously having been stored North of bldg. 44.

Analytical Data Available for: <i>groundwater, soil, surface water.</i>	
Applicable Standards Exceeded in: <i>PCE, TCE, Trans-1,2 DCE</i> and <i>sandstone.</i>	
Geotechnical Information: <i>Dense glacial till over interbedded shale.</i>	Depth to
Soil/Rock Type: <i>Describe properties of the soil and/or bedrock materials.</i>	Groundwater: <i>0-25'</i>

Legal Action: Type: <i>Order on Consent</i>	Status: <i>Order on Consent preparation in development.</i>
Remedial Action:	Nature of action:

Assessment of Environmental Problems:

Assessment of Health Problems:

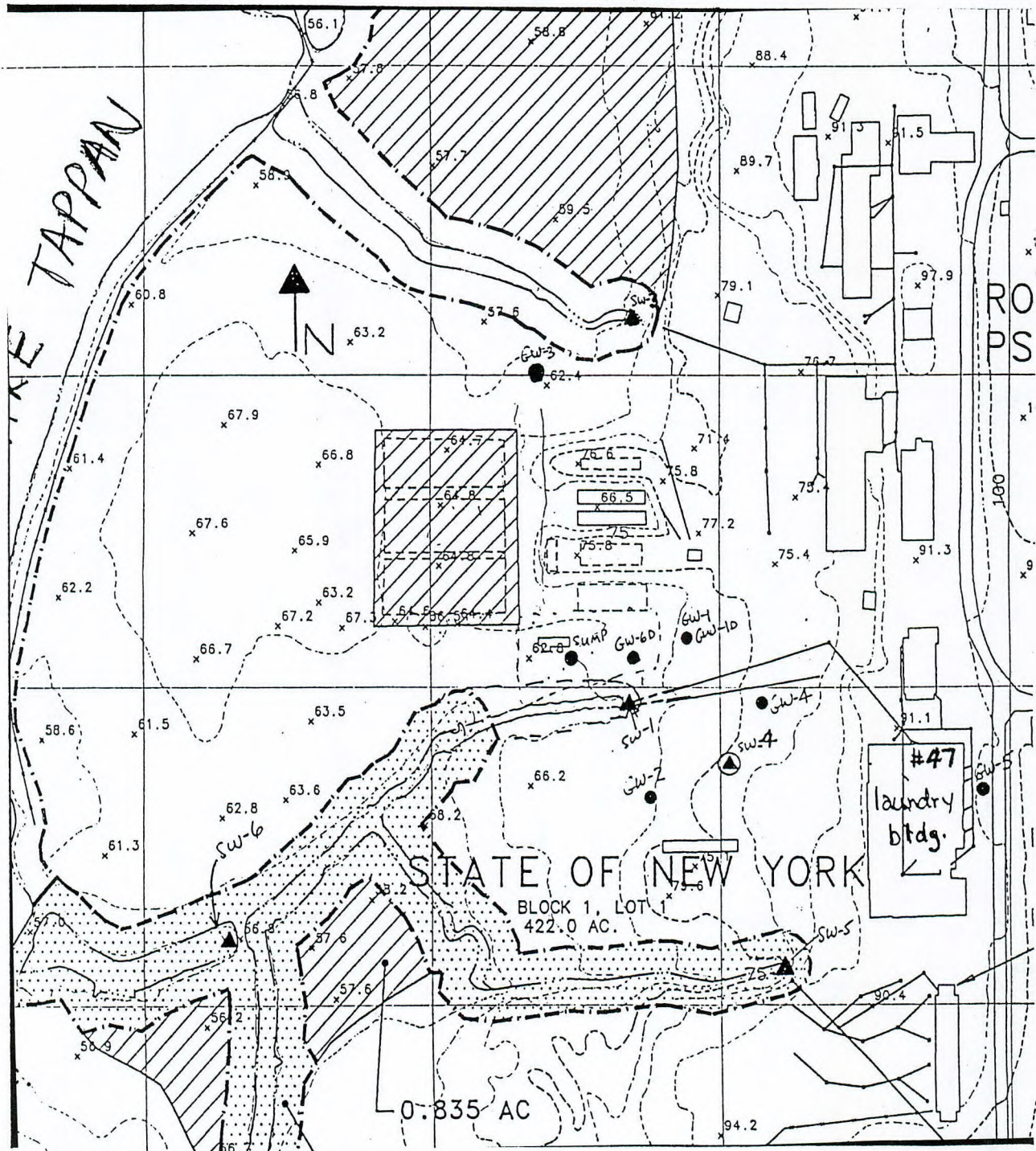
This Assessment of Health Problems is provided by the NYSDOH and may include:

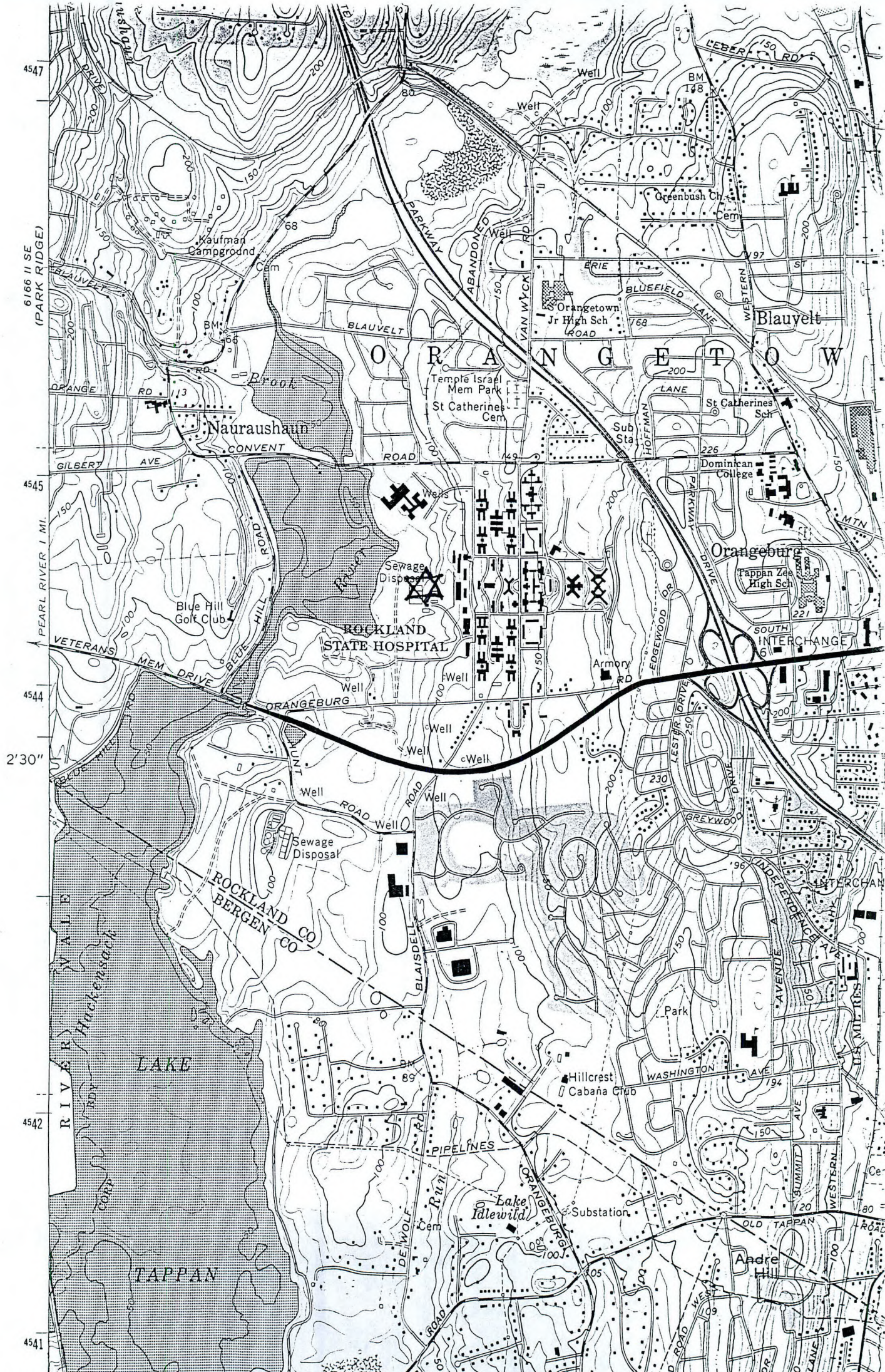
- Details of any serious health problems associated with the identified hazardous waste disposal at the site;
- Any data relative to the quality of nearby residential or municipal drinking water supplies;
- Discussions relative to the proximity of the site with respect to residential properties, public buildings or properties, school facilities, places of work, et cetera.

Date: July 8, 1998

Site Sketch

- Draw a rough diagram of the site, including all relevant features (ie. site boundaries, on-site buildings, surface waterbodies, disposal areas, etc.)
- Include an arrow indicating the flow of groundwater beneath the site
- Indicate proposed sampling locations, with differing symbols for each sampling type





4547
6166 11 SE (PARK RIDGE)
4545
4544
2'30"
4542
4541

CLASSIFICATION WORKSHEET

Site: Rockland Psychiatric Ctr. (RPC) County: Rockland Region 3

1. Hazardous waste disposed? ☐ (to 2) ☒ Y (to 2) ☐ N (Stop) ☒ U (Stop)

2. Consequential amount of hazardous waste? ☐ Y (to 3) ☐ N (Stop) ☐ U (Stop)

3. Part 375-1.4(a)(1) applies? ☐ N (to 4) ☐ U (to 4)

☒ Y (as checked below; Class 2; to 5)

☐ a. endangered or threatened species

☐ d. fish, shellfish, crustacea or wildlife

☒ b. streams, wetlands or coastal zone

☒ e. fire, spill, explosion or toxic reaction

☐ c. bioaccumulation

☒ f. proximity to people or water supplies

4. Part 375-1.4(a)(2) applies? ☐ N (Cl 3; Stop) ☐ U (Cl 2a; Stop)

☒ Y (Class 2; to 5)

5. Factor(s) considered in making this determination:

a) Manner of disposal:

b) groundwater hydrology

c) levels of contamination in groundwater.

SUMMARY

Consequential Hazardous Waste



Yes



No



Unknown

Significant Threat



Yes



No



Unknown

Proposed Classification 2a

Site Number 344311

July 8, 1998
Date

John T. Giff Eng. Geologist I
Signature and Title

APPENDIX 4-1

INVESTIGATION DETERMINATION FORM

Site Name : Rockland Psychiatric Center (RPC) Proposed Site Classification : 2a P
 Site ID # : 344011 County : Rockland Region : 3

Work ^{Being} ~~To Be~~ Performed (for sampling locations, see Site Sketch on following page):

Sampling Type	Yes	No	Approx. Quantity of Samples
Geophysical Survey		✓	
Soil Gas	✓		<i>On going</i>
Surface Soils	✓		
Subsurface Soils:			
- Borings		✓	
- Test Pits		✓	
Surface Water	✓		<i>On going</i>
Sediment			
Groundwater:			
- Monitoring Wells		✓	
- Geoprobes	✓		<i>On going</i>

Sampling Parameter	Yes	No
TCL VOCs		
TCL SVOCs		
TCL Pesticides/PCBs		
TAL Metals		
Cyanide		
Full TCL		
TCLP		

Work To Be Done By : In-House PRP State PSA State IIWA
 Equipment To Be Used (circle all that apply) : Drill Rig Geoprobe Hand Tools Other
 Proposed Start Date : April 13, 1998 Estimated Cost : _____

CLASSIFICATION WORKSHEET

Site: Rockland Psychiatric Ctr. (RPC) County: Rockland Region 3

1. Hazardous waste disposed? ☐ (to 2) ☐ N (Stop) ☒ U (Stop)
2. Consequential amount of hazardous waste? ☐ (to 3) ☐ N (Stop) ☐ U (Stop)
3. Part 375-1.4(a)(1) applies? ☐ N (to 4) ☐ U (to 4)
- ☒ Y (as checked below; Class 2; to 5)

- ☐ a. endangered or threatened species
- ☒ b. streams, wetlands or coastal zone
- ☐ c. bioaccumulation
- ☐ d. fish, shellfish, crustacea or wildlife
- ☒ e. fire, spill, explosion or toxic reaction
- ☒ f. proximity to people or water supplies

4. Part 375-1.4(a)(2) applies? ☐ N (Cl 3; Stop) ☐ U (Cl 2a; Stop)
- ☒ Y (Class 2; to 5)

5. Factor(s) considered in making this determination:

- a) Manner of disposal:
- b) groundwater hydrology
- c) levels of contamination in groundwater.

SUMMARY

Consequential Hazardous Waste



Yes



No



Unknown

Significant Threat



Yes



No



Unknown

Proposed Classification 2a

Site Number 344011

July 8, 1998
Date

John T. Giff Eng. Geologist + I
Signature and Title

APPENDIX 3

4/28/95

NEW YORK STATE DEPARTMENTS OF ENVIRONMENTAL CONSERVATION AND HEALTH
INACTIVE HAZARDOUS WASTE DISPOSAL SITE PRIORITY RANKING WORKSHEETSITE I.D. 344011SITE NAME Rockland Psychiatric Center (RPC)

- ° Priority I - Sites for which remediation should supersede all other Class 2 sites. Priority I can be assigned if any one of the following questions can be answered affirmatively.

- | | | |
|--|-------------------------------------|---|
| a) Has a public or private water supply which is currently in use been contaminated or <u>threatened</u> ? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (1)
[If 1 or more boxes are checked, check this box] |
| b) Has human exposure to contaminants (or the potential for exposure) been identified which represents a significant health risk as determined by DOH? | <input type="checkbox"/> | |
| c) Has bioaccumulation of site contaminants in flora or fauna resulted in a health advisory? | <input type="checkbox"/> | |
| d) Are site contaminants present at levels that are acutely toxic to fish or wildlife or that have caused documented fish or wildlife mortality? | <input checked="" type="checkbox"/> | |
| e) Is there a potentially responsible party or volunteer ready, willing and able to proceed with remediation? | <input checked="" type="checkbox"/> | |

- ° Priority II - Important Sites. Priority II will be assigned if any of the following questions can be answered affirmatively.

- | | | |
|--|-------------------------------------|---|
| a) Has a Class A or AA surface water body or a primary or principal aquifer been contaminated or threatened without contaminating or threatening an existing water supply? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (2)
[If 1 or more boxes are checked, check this box] |
| b) Has bioaccumulation of site contaminants in flora or fauna resulted in actionable levels (but not a health advisory)? | <input type="checkbox"/> | |
| c) Are contaminants at levels chronically toxic to fish/wildlife? | <input checked="" type="checkbox"/> | |
| d) Have endangered, threatened or rare species, significant habitats, designated coastal zone or regulated wetlands been impacted by releases from the site? | <input type="checkbox"/> | |

- ° Priority III - will be assigned unless one or more of the site prioritization criteria, specified above, apply to a site. After remedial needs for Priority I and II sites have been accommodated, remediation of sites under this category can be considered. If priority III, check box 3.

☐ (3)☒ (4)

Enter the number of the priority box checked 1, 2, or 3 here.....
This is the site's priority rank.

FACTORS

IJC Factor - If the site has been identified by the International Joint Commission (IJC) as a component in a remedial action plan, subtract (1) from the value in box 4 and enter the result in box 5.....

☐ (5)

Yes No

EDZ Factor - If the site is within a New York State designated Economic Development Zone (EDZ) should this fact cause the site priority to be raised?..

☒ ☐

Community Support Factor - If the site has been targeted for local government-supported development, should this fact cause the site priority to be raised?.....

Yes No

☒ ☐

If either "yes" box is checked, subtract 1 from the value in box 4 and enter the result into box 6. If "no" is checked, the value in box 6 equals box 4 (or box 5 if applicable). If both IJC and EDZ/Community Support factors apply, only 1 (not 2) will be subtracted from the value in box 4. The resultant value in box 6 will never be less than 1.....

☐ (6)

Yes No

IRM NOTE: Should this site be considered a candidate for an Interim Remedial Measure (IRM) as defined by 6NYCRR Part 375-1.3n?.....

☒ ☐

If "yes", please explain why: _____

Preparer _____ Date _____