FINAL
ENVIRONMENTAL ASSESSMENT
GILBOA DAM RECONSTRUCTION

JULY 2008

Prepared By:

[Logo] Gannett Fleming HAZEN AND SAWYER
A Joint Venture
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ACRONYMS and DEFINITIONS

½ PMF  Half of the Probable Maximum Flood
ADT  Average Daily Traffic
ANSI  American National Standards Institute
AST  Avian Survey Transect
ASTM  American Society for Testing and Materials
ATR  Automatic Traffic Recorder
bgd  Billion gallons per day
BMPs  Best Management Practices
BWS  Bureau of Water Supply
°C  Degree celsius
CEQR  (New York) City Environmental Quality Review
CFR  Code of Federal Regulations
cfs  cubic feet per second
CNR  Construction Noise Rules
CO  Carbon Monoxide
CP  Conifer Plantation
CR  Country Road
CSD  Conesville School District
CY  Cubic yards
dB  Decibel
dBA  Decibels scaled to the human range of hearing
dbh  Diameter at breast height (trees)
DCA  Detrended Correspondence Analysis
DRP  Data Recovery Plan
EA  Environmental Assessment
ESAL  Equivalent Single Axle Load
ESWTR  Enhanced Surface Water Treatment Rule
FAC  Facultative
FACU  Facultative Upland
FACW  Facultative Wetland
FERC  Federal Energy Regulatory Commission
FF  Floodplain Forest
FHWA  Federal Highway Administration
GIS  Geographic Information System
gpd  Gallons per day
GPS  Global Positioning System
HCM  Highway Capacity Manual
HEC-HMS  Hydraulic Engineering Center Hydrologic Modeling System
HP  Horsepower
H-NHF  Hemlock-Northern Hardwood Forest
I-87  New York Thruway
I-88  Interstate 88
IV  Importance Values
L  Long-term
L_{10}  \quad \text{Noise level exceeded 10 percent of the time in the period of interest}

L_{1UBHh}  \quad \text{lacustrine, limnetic, unconsolidated bottom, permanent, diked/impounded wetland}

L_{eq}  \quad \text{Energy-equivalent noise level}

L_{max}  \quad \text{Maximum sound level during a given period}

LLO  \quad \text{Low Level Outlet}

LOS  \quad \text{Level of Service}

m  \quad \text{Meter}

mg/l  \quad \text{Micrograms per Liter (Equal to parts per million)}

mg/m^3  \quad \text{Micrograms per cubic meter}

mgd  \quad \text{Million gallons per day}

MOA  \quad \text{Memorandum of Agreement}

MP  \quad \text{Medium Pressure}

mph  \quad \text{Miles per hour}

MSE  \quad \text{Mechanically Stabilized Earth}

NAAQS  \quad \text{National Ambient Air Quality Standards}

NOx  \quad \text{Nitrogen oxides}

NO_2  \quad \text{Nitrogen dioxide}

NWI  \quad \text{National Wetlands Inventory (U.S. Fish and Wildlife Service)}

NYC  \quad \text{New York City}

NYCDEP  \quad \text{New York City Department of Environmental Protection}

NYCRR  \quad \text{New York Code of Rules and Regulations (Official Compilation of Codes, Rules, and Regulations of the State of New York)}

NYS  \quad \text{New York State}

NYSDEC  \quad \text{New York State Department of Environmental Conservation}

NYSDOH  \quad \text{New York State Department of Health}

NYSDOT  \quad \text{New York State Department of Transportation}

NYSEG  \quad \text{New York State Electric and Gas}

NYSM  \quad \text{New York State Museum}

NYSNHP  \quad \text{New York State Natural Heritage Program}

NYSOPRHP  \quad \text{New York State Office of Parks, Recreation, and Historic Preservation}

O_3  \quad \text{Ozone}

OBL  \quad \text{Obligate Wetland}

OHMs  \quad \text{Other Hazardous Materials}

OSHA  \quad \text{Occupational Safety and Health Administration}

Pb  \quad \text{Lead}

PCE  \quad \text{Passenger Car Equivalents}

PCQ  \quad \text{Point-Centered Quarters}

PEM  \quad \text{Palustrine emergent wetlands}

PFO1  \quad \text{Palustrine Forested Wetland}

pH  \quad \text{Potential hydrogen – acid/base measurement}

PLC  \quad \text{Programmable logic controller}

PM  \quad \text{Particulate Matter}

PM_{10}  \quad \text{Particulate Matter less than 10 microns in diameter}
PM$_{2.5}$  Particulate Matter less than 2.5 microns in diameter
PMF  Probable Maximum Flood
ppm  Parts per million
PSS1  Palustrine Shrub-Scrub
PVC  Polyvinyl chloride
R2USA  Temporarily flooded wetland
RMHS  Red Maple Hardwood Swamp Wetland
S  Short-term
SDF  Spillway Design Flood
SDWA (Federal)  Safe Drinking Water Act
SEM  Shallow Emergent Marsh
SEM/SS  Shallow Emergent Marsh/Shrub Swamp
SEQRA (New York)  State Environmental Quality Review Act
SO$_2$  Sulfur dioxide
SNH  Successional Northern Hardwoods
SNH/CP  Successional Northern Hardwoods/Conifer Plantation
SPDES  State Pollutant Discharge Elimination System
SPL  Sound Pressure Level
SRCW/CP  Successional Red Cedar Woodland/Conifer Plantation
SS  Shrub Swamp Wetland
SSH  Successional Southern Hardwoods
SSH/CP  Successional Southern Hardwoods/Conifer Plantation
SSCP  Sedimentation and Stormwater Control Plan
SUNY  State University of New York
SUV  Sports Utility Vehicle
SWPPP  Stormwater Pollution Prevention Plan
S/NR  State & National Register of Historic Places
SO$_2$  Sulfur dioxide
TBM  Tunnel Boring Machine
TMS  Timed Meander Survey
TS  Targeted Search
TSP  Total Suspended Particulates
µmhos/cm  Siemens per centimeter
µg/m$^3$  microgram/ cubic meter
UPL  Upland
USACOE  United States Army Corps of Engineers
USBR  United States Bureau of Reclamation
USDOT  United States Department of Transportation
USEPA  United States Environmental Protection Agency
USFWS  United States Fish and Wildlife Service
USGS  United States Geological Survey
V  Volt
v/c  Volume-to-capacity ratio (traffic)
VP  Vernal Pool
The City of New York
Department of Environmental Protection

Emily Lloyd
Commissioner

Bureau of Environmental Planning & Analysis

STATE ENVIRONMENTAL QUALITY REVIEW
FULL ENVIRONMENTAL ASSESSMENT FORM

JULY 2008

Prepared by:

Gannett Fleming / HAZEN AND SAWYER
A Joint Venture
617.20
Appendix A
State Environmental Quality Review
FULL ENVIRONMENTAL ASSESSMENT FORM

Purpose: The full EAF is designed to help applicants and agencies determine, in an orderly manner, whether a project or action may be significant. The question of whether an action may be significant is not always easy to answer. Frequently, there are aspects of a project that are subjective or unmeasurable. It is also understood that those who determine significance may have little or no formal knowledge of the environment or may not be technically expert in environmental analysis. In addition, many who have knowledge in one particular area may not be aware of the broader concerns affecting the question of significance.

The full EAF is intended to provide a method whereby applicants and agencies can be assured that the determination process has been orderly, comprehensive in nature, yet flexible enough to allow introduction of information to fit a project or action.

Full EAF Components: The full EAF is comprised of three parts:

Part 1: Provides objective data and information about a given project and its site. By identifying basic project data, it assists a reviewer in the analysis that takes place in Parts 2 and 3.

Part 2: Focuses on identifying the range of possible impacts that may occur from a project or action. It provides guidance as to whether an impact is likely to be considered small to moderate or whether it is a potentially-large impact. The form also identifies whether an impact can be mitigated or reduced.

Part 3: If any impact in Part 2 is identified as potentially-large, then Part 3 is used to evaluate whether or not the impact is actually important.

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THIS AREA FOR LEAD AGENCY USE ONLY

DETERMINATION OF SIGNIFICANCE -- Type 1 and Unlisted Actions

Identify the Portions of EAF completed for this project: ☑ Part 1 ☑ Part 2 ☑ Part 3

Upon review of the information recorded on this EAF (Parts 1 and 2 and 3 if appropriate), and any other supporting information, and considering both the magnitude and importance of each impact, it is reasonably determined by the lead agency that:

☐ A. The project will not result in any large and important impact(s) and, therefore, is one which will not have a significant impact on the environment, therefore a negative declaration will be prepared.

☐ B. Although the project could have a significant effect on the environment, there will not be a significant effect for this Unlisted Action because the mitigation measures described in PART 3 have been required, therefore a CONDITIONED negative declaration will be prepared.*

☐ C. The project may result in one or more large and important impacts that may have a significant impact on the environment, therefore a positive declaration will be prepared.

* A Conditioned Negative Declaration is only valid for Unlisted Actions

Gilboa Dam Reconstruction

Name of Action

New York City Department of Environmental Protection

Name of Lead Agency

Angela Licata  Deputy Commissioner
Print or Type Name of Responsible Officer in Lead Agency

Signature of Responsible Officer in Lead Agency

Randy Willy  Signature of Preparer (if different from responsible officer)

7/10/08  Date

Page 1 of 20
PART 1--PROJECT INFORMATION
Prepared by Project Sponsor

NOTICE: This document is designed to assist in determining whether the action proposed may have a significant effect on the environment. Please complete the entire form, Parts A through E. Answers to these questions will be considered as part of the application for approval and may be subject to further verification and public review. Provide any additional information you believe will be needed to complete Parts 2 and 3.

It is expected that completion of the full EAF will be dependent on information currently available and will not involve new studies, research or investigation. If information requiring such additional work is unavailable, so indicate and specify each instance.

Name of Action: Gilboa Dam Reconstruction

Location of Action (include Street Address, Municipality and County)
Town of Gilboa, Schoharie County, NY

Name of Applicant/Sponsor: Paul D. Smith, P.E., Chief, Upstate Water Supply Treatment and Facilities, NYCDEP
Address: 96-05 Horace Harding Expressway, 5th Floor
City / PO: Corona
State: NY
Zip Code: 11368
Business Telephone: (718) 595-6080

Name of Owner (if different): NYCDEP, Bureau of Water Supply
Address: P.O. Box 370
City / PO: Shokan
State: NY
Zip Code: 12481
Business Telephone:

Description of Action:
The proposed project involves the reconstruction of the Gilboa Dam and its appurtenances to ensure its safety and compliance with NYSDEC guidelines. The Gilboa Dam, part of the Catskill Water Supply System, is located within Schoharie County at the northern point of the Schoharie Reservoir. The proposed project would involve reconstruction of the Dam’s façade, construction of a new Low Level Outlet to provide emergency drawdown of Schoharie Reservoir, installation of crest gates to enhance downstream flood attenuation through snowpack-based reservoir management and improvements to the Dam Side Channel, Plunge Pool and other associated structures.

For further information please see Attachment 1, Project Description.
Please Complete Each Question--Indicate N.A. if not applicable

A. SITE DESCRIPTION
Physical setting of overall project, both developed and undeveloped areas.

1. Present Land Use: ☑️ Urban ☑️ Industrial ☑️ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)
   ☑️ Forest ☑️ Agriculture ☑️ Other

   Gilboa Dam

2. Total acreage of project area: 85.9 acres.

   APPROXIMATE ACREAGE              PRESENTLY              AFTER COMPLETION

   Meadow or Brushland (Non-agricultural)  4.6 acres   4.1 acres
   Forested                               58.1 acres   52.0 acres
   Agricultural (Includes orchards, cropland, pasture, etc.)  0 acres   0 acres
   Wetland (Freshwater or tidal as per Articles 24, 25 of ECL)  0* acres   0** acres
   Water Surface Area                     9.1 acres    9.1 acres
   Unvegetated (Rock, earth or fill)      0 acres      0 acres
   Roads, buildings and other paved surfaces  1.2 acres   7.8 acres

   Other (Indicate type) Gilboa Dam Spillway, Side channel and Embankment     12.9 acres   12.9 acres

* There are no NYSDEC regulated wetlands in the project area. However, there are 2.6 acres of wetlands in the project area as defined by the U.S. Army Corps of Engineers (USACOE) 1987 Wetlands Delineation Manual. This wetland acreage is included in the "Forested" category.

** There will be 5.0 acres of wetlands created as part of the project. These wetlands will not be NYSDEC regulated wetlands so this acreage is included in the "Forested" category.

3. What is predominant soil type(s) on project site?
   a. Soil drainage: ☑️ Well drained 3 % of site ☑️ Moderately well drained 12 % of site.
      ☑️ Poorly drained 79 % of site ☑️ 6% surface water
   b. If any agricultural land is involved, how many acres of soil are classified within soil group 1 through 4 of the NYS Land Classification System? N/A acres (see 1 NYCRR 370).

4. Are there bedrock outcroppings on project site? ☐ Yes ☑️ No
   a. What is depth to bedrock _____ (in feet) See Attachment A following page 10 of 20

5. Approximate percentage of proposed project site with slopes:
   ☑️ 0-10% 64 %   ☑️ 10- 15% 2 %   ☑️ 15% or greater 34 %

6. Is project substantially contiguous to, or contain a building, site, or district, listed on the State or National Registers of Historic Places? ☐ Yes ☑️ No

7. Is project substantially contiguous to a site listed on the Register of National Natural Landmarks? ☐ Yes ☑️ No

8. What is the depth of the water table? _____ (in feet) See Attachment B following page 10 of 20

9. Is site located over a primary, principal, or sole source aquifer? ☐ Yes ☑️ No

10. Do hunting, fishing or shell fishing opportunities presently exist in the project area? ☑️ Yes ☐ No
11. Does project site contain any species of plant or animal life that is identified as threatened or endangered?  

Yes  No

According to:
NYSDEC has record of known Timber rattlesnake hibernacula (over wintering den) within 2 miles of the project study area. Detailed surveys of the project study area during 2005 and 2006 did not indicate any critical habitat nor the presence of timber rattlesnakes.

Identify each species:

12. Are there any unique or unusual land forms on the project site? (i.e., cliffs, dunes, other geological formations?)

Yes  No

Describe:

13. Is the project site presently used by the community or neighborhood as an open space or recreation area?

Yes  No

If yes, explain:

The Reservoir and surrounding area provides recreational fishing and hunting opportunities.

14. Does the present site include scenic views known to be important to the community?

Yes  No

The Scenic Public Overlook Area would be temporarily closed during reconstruction activities but would be replanted with original vegetation, restored to its original condition and reopened to the public following completion of the proposed project.

15. Streams within or contiguous to project area:

Schoharie Creek (Class B), two unnamed perennial streams and seventeen unnamed intermittent streams.

a. Name of Stream and name of River to which it is tributary

Schoharie Creek is tributary to the Mohawk River.

16. Lakes, ponds, wetland areas within or contiguous to project area:

Schoharie Reservoir (Class AA) is within and contiguous to the project area. There are 8.8 acres of wetlands within and contiguous to the project area. None of these wetlands are regulated by the NYSDEC and approximately 3.7 acres fall under the jurisdiction of the USACOE (2.6 acres are in the project area and 1.1 acres of wetlands in contiguous area).

b. Size (in acres):

The Schoharie Reservoir is 1,145 acres when the water level is at the spillway elevation (1,130 feet above mean sea level).
17. Is the site served by existing public utilities? □ Yes □ No
   a. If YES, does sufficient capacity exist to allow connection? □ Yes □ No
   b. If YES, will improvements be necessary to allow connection? □ Yes □ No

18. Is the site located in an agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? □ Yes □ No

19. Is the site located in or substantially contiguous to a Critical Environmental Area designated pursuant to Article 8 of the ECL, and 6 NYCRR 617? □ Yes □ No

20. Has the site ever been used for the disposal of solid or hazardous wastes? □ Yes □ No

B. Project Description

1. Physical dimensions and scale of project (fill in dimensions as appropriate).
   a. Total contiguous acreage owned or controlled by project sponsor: 3,481 acres.
   b. Project acreage to be developed: 14.1 acres initially; 20.7 acres ultimately.
   c. Project acreage to remain undeveloped: 65.2 acres.
   d. Length of project, in miles: N/A (if appropriate)
   e. If the project is an expansion, indicate percent of expansion proposed. N/A %
   f. Number of off-street parking spaces existing N/A; proposed N/A
   g. Maximum vehicular trips generated per hour: 1 (upon completion of project)?
   h. If residential: Number and type of housing units:

<table>
<thead>
<tr>
<th></th>
<th>One Family</th>
<th>Two Family</th>
<th>Multiple Family</th>
<th>Condominium</th>
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<tr>
<td>Initially</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Ultimately</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

   i. Dimensions (in feet) of largest proposed structure: 20 height; 48 width; 76 length.
   j. Linear feet of frontage along a public thoroughfare project will occupy is? 76 ft.

2. How much natural material (i.e. rock, earth, etc.) will be removed from the site? 14,500 cubic yards.

3. Will disturbed areas be reclaimed □ Yes □ No □ N/A
   a. If yes, for what intended purpose is the site being reclaimed?
      A Natural Resources Restoration Plan would be implemented to restore upland and wetland habitats disturbed by the proposed project.
   b. Will topsoil be stockpiled for reclamation? □ Yes □ No
   c. Will upper subsoil be stockpiled for reclamation? □ Yes □ No

4. How many acres of vegetation (trees, shrubs, ground covers) will be removed from site? 6.6 acres.

   *This represents the final amount to be removed. Initially 62.7 acres would be disturbed.
5. Will any mature forest (over 100 years old) or other locally-important vegetation be removed by this project?
   [ ] Yes  [ ] No

6. If single phase project: Anticipated period of construction: [N/A] months, (including demolition)

7. If multi-phased:
   a. Total number of phases anticipated [5] (number)
   d. Is phase 1 functionally dependent on subsequent phases?  [ ] Yes  [ ] No

8. Will blasting occur during construction?  [ ] Yes  [ ] No  TBD by Contractor. May occur in conjunction with LLO installation.

9. Number of jobs generated: during construction [120]; after project is complete [0]

10. Number of jobs eliminated by this project [0].

11. Will project require relocation of any projects or facilities?  [ ] Yes  [ ] No
    If yes, explain:

12. Is surface liquid waste disposal involved?  [ ] Yes  [ ] No
    a. If yes, indicate type of waste (sewage, industrial, etc) and amount
    b. Name of water body into which effluent will be discharged

13. Is subsurface liquid waste disposal involved?  [ ] Yes  [ ] No  Type 

14. Will surface area of an existing water body increase or decrease by proposal?  [ ] Yes  [ ] No
    If yes, explain:

15. Is project or any portion of project located in a 100 year flood plain?  [ ] Yes  [ ] No

16. Will the project generate solid waste?  [ ] Yes  [ ] No  During reconstruction only
    a. If yes, what is the amount per month? [0.94] tons Reconstruction Employee Waste
    b. If yes, will an existing solid waste facility be used?  [ ] Yes  [ ] No
    c. If yes, give name TBD by Contractor; location
    d. Will any wastes not go into a sewage disposal system or into a sanitary landfill?  [ ] Yes  [ ] No
17. Will the project involve the disposal of solid waste?  □ Yes  □ No

   a. If yes, what is the anticipated rate of disposal? _____ tons/month.

   b. If yes, what is the anticipated site life? _____ years.

18. Will project use herbicides or pesticides?  □ Yes  □ No

19. Will project routinely produce odors (more than one hour per day)?  □ Yes  □ No

20. Will project produce operating noise exceeding the local ambient noise levels?  □ Yes  □ No

21. Will project result in an increase in energy use?  □ Yes  □ No

   If yes, indicate type(s)

   During reconstruction, there would be a temporary increase in energy use. Once the proposed project is completed, there would be a minimal and intermittent increase in energy required onsite due to operation of the crest gates and Low Level Outlet.

22. If water supply is from wells, indicate pumping capacity _____ N/A _____ gallons/minute.

23. Total anticipated water usage per day _____ 0 _____ gallons/day.

24. Does project involve Local, State or Federal funding?  □ Yes  □ No

   If yes, explain:

   Funding for the reconstruction would be paid by the City of New York through the NYCDEP
### 25. Approvals Required:

<table>
<thead>
<tr>
<th>Type</th>
<th>Submittal Date</th>
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<tbody>
<tr>
<td>City, Town, Village Board</td>
<td>Yes No</td>
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<tr>
<td>City, Town, Village Planning Board</td>
<td>Yes No</td>
</tr>
<tr>
<td>City, Town Zoning Board</td>
<td>Yes No</td>
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<tr>
<td>City, County Health Department</td>
<td>Yes No</td>
</tr>
<tr>
<td>Other Local Agencies</td>
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<tr>
<td>Other Regional Agencies</td>
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<td>State Agencies</td>
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<tr>
<td>Federal Agencies</td>
<td>Yes No</td>
</tr>
</tbody>
</table>

### C. Zoning and Planning Information

1. Does proposed action involve a planning or zoning decision? Yes No

   If Yes, indicate decision required:

   - Zoning amendment
   - Zoning variance
   - New/revision of master plan
   - Subdivision
   - Site plan
   - Special use permit
   - Resource management plan
   - Other

   - NYCDEN Watershed Lands Permit
   - NYCDEN Protection of NYC Water Supply Permit
   - NYCDEN SWPPP Approval
   - NYSDEC Navigable Waters and Stream Disturbance Permits
   - NYSDEC Water Quality Certification
   - NYSDEC 5-acre Waiver, SPDES General Permit
   - NYSDEC Air Registration
   - NYSDEC Construction, Reconstruction or Repair of Dams Permit
   - NYS OPRHP Memorandum of Agreement
   - NYSDOH Certification for NYS Revolving Fund Program
   - NYSDOH Certification to Construct and Operate Potable Water Works
   - USACOE Section 404 Permit
2. What is the zoning classification(s) of the site?

The Town of Gilboa does not have zoning classifications.

3. What is the maximum potential development of the site if developed as permitted by the present zoning?

N/A

4. What is the proposed zoning of the site?

N/A

5. What is the maximum potential development of the site if developed as permitted by the proposed zoning?

N/A

6. Is the proposed action consistent with the recommended uses in adopted local land use plans?  

[ ] Yes  [ ] No

Activities during and following reconstruction would comply with New York City watershed rules and regulations for action within the reservoir. There are no known adopted local land use plans.

7. What are the predominant land use(s) and zoning classifications within a ¼ mile radius of proposed action?

The land use within a 1/4 mile of the project site consists of water supply properties, forested lands, municipal facilities and single family residences.

8. Is the proposed action compatible with adjoining/surrounding land uses with a ¼ mile?  

[ ] Yes  [ ] No

9. If the proposed action is the subdivision of land, how many lots are proposed?  N/A

   a. What is the minimum lot size proposed?  

   

Page 9 of 20
10. Will proposed action require any authorization(s) for the formation of sewer or water districts? □ Yes □ No

11. Will the proposed action create a demand for any community provided services (recreation, education, police, fire protection)? □ Yes □ No
   a. If yes, is existing capacity sufficient to handle projected demand? □ Yes □ No

12. Will the proposed action result in the generation of traffic significantly above present levels? □ Yes □ No
   a. If yes, is the existing road network adequate to handle the additional traffic. □ Yes □ No

D. Informational Details
   Attach any additional information as may be needed to clarify your project. If there are or may be any adverse impacts associated with your proposal, please discuss such impacts and the measures which you propose to mitigate or avoid them.

E. Verification
   I certify that the information provided above is true to the best of my knowledge.
   Applicant/Sponsor Name  Paul D. Smith, P.E.  Date 7/10/08
   Signature

   Title  Chief, Upstate Water Supply Treatment and Facilities, NYC Department of Environmental Protection

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment.
**SEQR Environmental Assessment Form**

**Part I**

**Attachment A**

**EAF Question A4**

<table>
<thead>
<tr>
<th>Location*</th>
<th>Depth to bedrock</th>
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</thead>
<tbody>
<tr>
<td>A. Landslide Prone Area along Road Eight</td>
<td>90 – 255 feet</td>
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<tr>
<td>B. Grassy Area north of Side Channel Spillway (CAT-212A Staging Area)</td>
<td>10 – 25 feet</td>
</tr>
<tr>
<td>C. Right (East) Abutment / Overlook Area</td>
<td>~ 30 feet</td>
</tr>
<tr>
<td>D. Embankment Centerline</td>
<td>200 – 250 feet</td>
</tr>
<tr>
<td>E. Schoharie Creek</td>
<td>At surface</td>
</tr>
</tbody>
</table>

* Please see attached Figure A4 for locations.
**SEQR Environmental Assessment Form**  
**Part I**  
**Attachment B**  
**EAF Question A8**

<table>
<thead>
<tr>
<th>Location*</th>
<th>Depth to Water Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Landslide Prone Area along Road Eight</td>
<td>5 – 30 feet</td>
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<tr>
<td>B. Grassy Area north of Side Channel Spillway (CAT-212A Staging Area)</td>
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<td>C. Right (East) Abutment / Overlook Area</td>
<td>~ 40 feet</td>
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<tr>
<td>D. Embankment Centerline</td>
<td>20 – 40 feet</td>
</tr>
<tr>
<td>E. West of Road Eight</td>
<td>0 – 20 feet</td>
</tr>
<tr>
<td>F. Proposed Access Road</td>
<td>0 – 10 feet</td>
</tr>
</tbody>
</table>

* Please see attached Figure A8 for locations.
PART 2 - PROJECT IMPACTS AND THEIR MAGNITUDE

Responsibility of Lead Agency

General Information (Read Carefully)
- In completing the form the reviewer should be guided by the question: Have my responses and determinations been reasonable? The reviewer is not expected to be an expert environmental analyst.
- The Examples provided are to assist the reviewer by showing types of impacts and wherever possible the threshold of magnitude that would trigger a response in column 2. The examples are generally applicable throughout the State and for most situations. But, for any specific project or site other examples and/or lower thresholds may be appropriate for a Potential Large Impact response, thus requiring evaluation in Part 3.
- The impacts of each project, on each site, in each locality, will vary. Therefore, the examples are illustrative and have been offered as guidance. They do not constitute an exhaustive list of impacts and thresholds to answer each question.
- The number of examples per question does not indicate the importance of each question.
- In identifying impacts, consider long term, short term and cumulative effects.

Instructions (Read carefully)
- Answer each of the 20 questions in PART 2. Answer Yes if there will be any impact.
- Maybe answers should be considered as Yes answers.
- If answering Yes to a question then check the appropriate box (column 1 or 2) to indicate the potential size of the impact. If impact threshold equals or exceeds any example provided, check column 2. If impact will occur but threshold is lower than example, check column 1.
- Identifying that an Impact will be potentially large (column 2) does not mean that it is also necessarily significant. Any large impact must be evaluated in PART 3 to determine significance. Identifying an impact in column 2 simply asks that it be looked at further.
- If reviewer has doubt about size of the impact then consider the impact as potentially large and proceed to PART 3.
- If a potentially large impact checked in column 2 can be mitigated by change(s) in the project to a small to moderate impact, also check the Yes box in column 3. A No response indicates that such a reduction is not possible. This must be explained in Part 3.

Impact on Land

1. Will the Proposed Action result in a physical change to the project site?
   - NO [ ] YES [ ]

Examples that would apply to column 2
- Any construction on slopes of 15% or greater, (15 foot rise per 100 foot of length), or where the general slopes in the project area exceed 10%.
- Construction on land where the depth to the water table is less than 3 feet.
- Construction of paved parking area for 1,000 or more vehicles.
- Construction on land where bedrock is exposed or generally within 3 feet of existing ground surface.
- Construction that will continue for more than 1 year or involve more than one phase or stage.
- Excavation for mining purposes that would remove more than 1,000 tons of natural material (i.e., rock or soil) per year.
- Construction or expansion of a sanitary landfill.
  - No
  - Yes

- Construction in a designated floodway.
  - No
  - Yes

- Other impacts:
  - No
  - Yes

2. Will there be an effect to any unique or unusual land forms found on the site? (i.e., cliffs, dunes, geological formations, etc.)
  - No
  - Yes

- Specific land forms:
  - No
  - Yes

**Impact on Water**

3. Will Proposed Action affect any water body designated as protected? (Under Articles 15, 24, 25 of the Environmental Conservation Law, ECL)
  - No
  - Yes

**Examples** that would apply to column 2
- Developable area of site contains a protected water body.
  - No
  - Yes

- Dredging more than 100 cubic yards of material from channel of a protected stream.
  - No
  - Yes

- Extension of utility distribution facilities through a protected water body.
  - No
  - Yes

- Construction in a designated freshwater or tidal wetland.
  - No
  - Yes

- Other impacts:
  - No
  - Yes

4. Will Proposed Action affect any non-protected existing or new body of water?
  - No
  - Yes

**Examples** that would apply to column 2
- A 10% increase or decrease in the surface area of any body of water or more than a 10 acre increase or decrease.
  - No
  - Yes

- Construction of a body of water that exceeds 10 acres of surface area.
  - No
  - Yes

- Other impacts:
  - No
  - Yes

During reconstruction, Schoharie Reservoir and Schoharie Creek and/or other streams within the project area would be protected with an extensive erosion and sediment control plan. Post reconstruction a stormwater quality and quantity control plan would be implemented as per NYSDEC requirements.
5. **Will Proposed Action affect surface or groundwater quality or quantity?**

<table>
<thead>
<tr>
<th>NO</th>
<th>YES</th>
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</table>

**Examples** that would apply to column 2

- Proposed Action will require a discharge permit.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Proposed Action requires use of a source of water that does not have approval to serve proposed (project) action.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Proposed Action requires water supply from wells with greater than 45 gallons per minute pumping capacity.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Construction or operation causing any contamination of a water supply system.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Proposed Action will adversely affect groundwater.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Liquid effluent will be conveyed off the site to facilities which presently do not exist or have inadequate capacity.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Proposed Action would use water in excess of 20,000 gallons per day.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Proposed Action will likely cause siltation or other discharge into an existing body of water to the extent that there will be an obvious visual contrast to natural conditions.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Proposed Action will require the storage of petroleum or chemical products greater than 1,100 gallons.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Proposed Action will allow residential uses in areas without water and/or sewer services.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Proposed Action locates commercial and/or industrial uses which may require new or expansion of existing waste treatment and/or storage facilities.
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

- Other impacts:
  - Small to Moderate Impact
  - Potential Large Impact
  - Can Impact Be Mitigated by Project Change
  - Yes No

Condensate from the air pumps associated with operation of the crest gates would be discharged to a infiltration structure (dry well).
6. Will Proposed Action alter drainage flow or patterns, or surface water runoff?

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<th>Small to Moderate Impact</th>
<th>Potential Large Impact</th>
<th>Can Impact Be Mitigated by Project Change</th>
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<tbody>
<tr>
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<td>YES</td>
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**Examples** that would apply to column 2
- Proposed Action would change flood water flows
- Proposed Action may cause substantial erosion.
- Proposed Action is incompatible with existing drainage patterns.
- Proposed Action will allow development in a designated floodway.
- Other impacts:

> Stormwater runoff would be slightly altered from current conditions as a result of the final site conditions. The proposed project has an extensive erosion and sedimentation control plan as well as a quality and quantity stormwater control plan as per NYSDEC requirements.

**IMPACT ON AIR**

7. Will Proposed Action affect air quality?

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<th>Small to Moderate Impact</th>
<th>Potential Large Impact</th>
<th>Can Impact Be Mitigated by Project Change</th>
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<td>NO</td>
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<td>YES</td>
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</table>

**Examples** that would apply to column 2
- Proposed Action will induce 1,000 or more vehicle trips in any given hour.
- Proposed Action will result in the incineration of more than 1 ton of refuse per hour.
- Emission rate of total contaminants will exceed 5 lbs. per hour or a heat source producing more than 10 million BTU’s per hour.
- Proposed Action will allow an increase in the amount of land committed to industrial use.
- Proposed Action will allow an increase in the density of industrial development within existing industrial areas.
- Other impacts:

**IMPACT ON PLANTS AND ANIMALS**

8. Will Proposed Action affect any threatened or endangered species?

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<th>Small to Moderate Impact</th>
<th>Potential Large Impact</th>
<th>Can Impact Be Mitigated by Project Change</th>
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<td>YES</td>
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**Examples** that would apply to column 2
- Reduction of one or more species listed on the New York or Federal list, using the site, over or near the site, or found on the site.
9. Will Proposed Action substantially affect non-threatened or non-endangered species?  
☐ NO ☐ YES

**Examples** that would apply to column 2

- Proposed Action would substantially interfere with any resident or migratory fish, shellfish or wildlife species.
- Proposed Action requires the removal of more than 10 acres of mature forest (over 100 years of age) or other locally important vegetation.
- Other impacts:
  - Trees would be removed from the site during reconstruction but replaced through the implementation of a Natural Resources Restoration Plan, see section 2.6, Natural Resources for further discussion.

**IMPACT ON AGRICULTURAL LAND RESOURCES**

10. Will Proposed Action affect agricultural land resources?  
☐ NO ☐ YES

**Examples** that would apply to column 2

- The Proposed Action would sever, cross or limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc.)
- Construction activity would excavate or compact the soil profile of agricultural land.
- The Proposed Action would irreversibly convert more than 10 acres of agricultural land or, if located in an Agricultural District, more than 2.5 acres of agricultural land.
The Proposed Action would disrupt or prevent installation of agricultural land management systems (e.g., subsurface drain lines, outlet ditches, strip cropping); or create a need for such measures (e.g. cause a farm field to drain poorly due to increased runoff).

Other impacts:

IMPACT ON AESTHETIC RESOURCES

11. Will Proposed Action affect aesthetic resources? (If necessary, use the Visual EAF Addendum in Section 617.20, Appendix B.)

Examples that would apply to column 2

- Proposed land uses, or project components obviously different from or in sharp contrast to current surrounding land use patterns, whether man-made or natural.
- Proposed land uses, or project components visible to users of aesthetic resources which will eliminate or significantly reduce their enjoyment of the aesthetic qualities of that resource.
- Project components that will result in the elimination or significant screening of scenic views known to be important to the area.

- Other impacts:

The intake tower associated with the LLO would be visible from the Scenic Public Overlook Area but would be consistent with the architecture of the surrounding structures.

IMPACT ON HISTORIC AND ARCHAEOLOGICAL RESOURCES

12. Will Proposed Action impact any site or structure of historic, prehistoric or paleontological importance?

Examples that would apply to column 2

- Proposed Action occurring wholly or partially within or substantially contiguous to any facility or site listed on the State or National Register of historic places.
- Any impact to an archaeological site or fossil bed located within the project site.
- Proposed Action will occur in an area designated as sensitive for archaeological sites on the NYS Site Inventory.
Other impacts:

IMPACT ON OPEN SPACE AND RECREATION

13. Will proposed Action affect the quantity or quality of existing or future open spaces or recreational opportunities?

☑ NO ☐ YES

Examples that would apply to column 2
- The permanent foreclosure of a future recreational opportunity.
- A major reduction of an open space important to the community.
- Other impacts:

IMPACT ON CRITICAL ENVIRONMENTAL AREAS

14. Will Proposed Action impact the exceptional or unique characteristics of a critical environmental area (CEA) established pursuant to subdivision 6NYCRR 617.14(g)?

☑ NO ☐ YES

List the environmental characteristics that caused the designation of the CEA.

Examples that would apply to column 2
- Proposed Action to locate within the CEA?
- Proposed Action will result in a reduction in the quantity of the resource?
- Proposed Action will result in a reduction in the quality of the resource?
- Proposed Action will impact the use, function or enjoyment of the resource?
- Other impacts:
### IMPACT ON TRANSPORTATION

15. Will there be an effect to existing transportation systems?  
   - [ ] NO  
   - [ ] YES  

**Examples** that would apply to column 2:  
- Alteration of present patterns of movement of people and/or goods.  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change
- Proposed Action will result in major traffic problems.  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change
- Other impacts:  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change

### IMPACT ON ENERGY

16. Will Proposed Action affect the community’s sources of fuel or energy supply?  
   - [ ] NO  
   - [ ] YES  

**Examples** that would apply to column 2:  
- Proposed Action will cause a greater than 5% increase in the use of any form of energy in the municipality.  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change
- Proposed Action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two family residences or to serve a major commercial or industrial use.  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change
- Other impacts:  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change

### NOISE AND ODOR IMPACT

17. Will there be objectionable odors, noise, or vibration as a result of the Proposed Action?  
   - [ ] NO  
   - [ ] YES  

**Examples** that would apply to column 2:  
- Blasting within 1,500 feet of a hospital, school or other sensitive facility.  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change
- Odors will occur routinely (more than one hour per day).  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change
- Proposed Action will produce operating noise exceeding the local ambient noise levels for noise outside of structures.  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change
- Proposed Action will remove natural barriers that would act as a noise screen.  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change
- Other impacts:  
  - [ ] Small to Moderate Impact  
  - [ ] Potential Large Impact  
  - [ ] Can Impact Be Mitigated by Project Change
### IMPACT ON PUBLIC HEALTH

18. Will Proposed Action affect public health and safety?

- Proposed Action may cause a risk of explosion or release of hazardous substances (i.e. oil, pesticides, chemicals, radiation, etc.) in the event of accident or upset conditions, or there may be a chronic low level discharge or emission.

- Proposed Action may result in the burial of “hazardous wastes” in any form (i.e. toxic, poisonous, highly reactive, radioactive, irritating, infectious, etc.)

- Storage facilities for one million or more gallons of liquefied natural gas or other flammable liquids.

- Proposed Action may result in the excavation or other disturbance within 2,000 feet of a site used for the disposal of solid or hazardous waste.

- Other impacts:

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<tr>
<th>1 Small to Moderate Impact</th>
<th>2 Potential Large Impact</th>
<th>3 Can Impact Be Mitigated by Project Change</th>
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### IMPACT ON GROWTH AND CHARACTER OF COMMUNITY OR NEIGHBORHOOD

19. Will Proposed Action affect the character of the existing community?

- The permanent population of the city, town or village in which the project is located is likely to grow by more than 5%.

- The municipal budget for capital expenditures or operating services will increase by more than 5% per year as a result of this project.

- Proposed Action will conflict with officially adopted plans or goals.

- Proposed Action will cause a change in the density of land use.

- Proposed Action will replace or eliminate existing facilities, structures or areas of historic importance to the community.

- Development will create a demand for additional community services (e.g. schools, police and fire, etc.)
- Proposed Action will set an important precedent for future projects.
  
- Proposed Action will create or eliminate employment.
  
- Other impacts:

20. Is there, or is there likely to be, public controversy related to potential adverse environment impacts?

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If Any Action in Part 2 Is Identified as a Potential Large Impact or If you Cannot Determine the Magnitude of Impact, Proceed to Part 3